



**TRANE** Supply



## HVAC Parts and Supplies Catalog

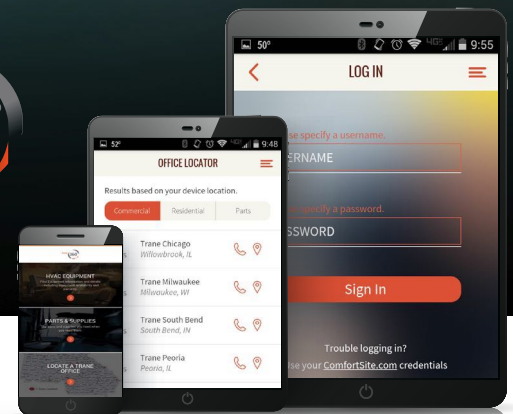
*Your one-stop shop for all your part needs*



# Trane 360<sup>o</sup> + ComfortSite



= **A POWERFUL**  
**Combination**



*Today more than ever you need to have a different set of tools to help you complete your work as fast and efficiently as possible.*

*The **Trane 360 App + ComfortSite Portal** work whenever, wherever you do, empowering you to find the right parts and get them in your hands faster than ever before.*

The *Trane 360 App* is the convenient digital tool that can eliminate phone calls or trips to the store by putting many of the tasks on your Smartphone, including:

- Comprehensive part ID and search, plus local store availability
- Locate the stores closest to you
- Online ordering
- Order tracking

The functionality of our ComfortSite customer portal right to your phone.



Sign up for our **ComfortSite Portal today** to take full advantage of the Trane 360 app when it is released! The ComfortSite portal is your one stop shop for:

- Part ID and local store availability
- Online ordering
- Warranty claim initiation
- Technical information and documentation
- Training

Please visit your nearest store, speak to your local sales representative.



Call ComfortSite support at 800-430-5284 or

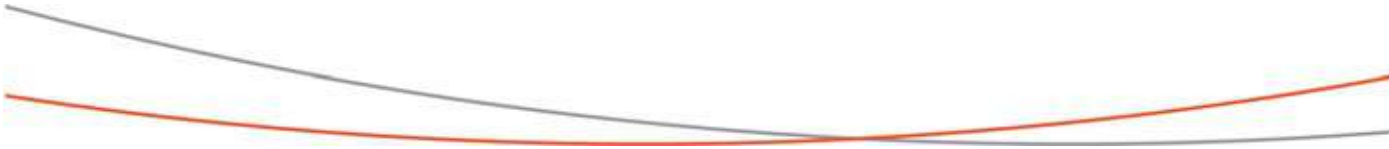


email us at [support@comfortsite.com](mailto:support@comfortsite.com) to get started!



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# Air Flow Meters

## Anemometers

### TMA5 Mini-vane Anemometer

- Measures air velocity, temperature, humidity, dew point, wet bulb, wind-chill and ambient temperature
- Maximum wind speed display
- External temperature probe
- Data hold
- Selectable wind units:  
KNT, BF, Ft/m, M/h, m/s, km/h



Part #	Mfg #	Description
MTR01193	TMA5	Mini-vane Anemometer

### TMA10A Anemometer

- Measures air velocity or air flow and temperature
- Maximum/Minimum/Average reading on a single point
- Data hold
- Auto power-off setting
- Includes:
  - Anemometer with remote vane and 3' cord
  - Carrying case
  - 9V Battery (installed)
  - User manual



Part #	Mfg #	Description
TMA10A	TMA10A	Remote-vane Anemometer

### TMA-20HW Hotwire Anemometer

- 0.1% Basic accuracy
- Fast response telescopic probe
- Data memory
- Auto power-on/power-off setting
- Large backlit LCD display with 5 parameters
- Includes batteries and hard carrying case



Part #	Mfg #	Description
MTR01183	TMA-20HW	Hotwire Anemometer

### TMA-21HW Hotwire Anemometer with Temperature

- 0.1% Basic accuracy
- Fast response telescopic probe
- Relative humidity and temperature measurement
- Data memory
- 512KB Auto data logging capacity
- Backlit LCD display with 5 parameters
- Auto power-off/power-on setting
- USB Interface
- Includes batteries, hard carrying case, USB cable, and CD software



Part #	Mfg #	Description
MTR01184	TMA-21HW	Hotwire Anemometer with Temperature

### TMA40-A Datalogging Anemometer

- Measures air velocity (FPM), air volume (CFM), RH, and temperature
- Large backlit digital display
- Flexible measurement vane
- RS232 Output for data result usage
- Measure up to 99 multiple points
- 2,400 Points of data logging measurements
- Display results in Metric or English units



Part #	Mfg #	Description
MTR01169	TMA40-A	Datalogging Anemometer

### Anemometer

- Microprocessor controller
- Calculates CFM air volume
- Display "hold" button freezes LCD reading
- Switchable imperial to metric
- Auto power off after 20 minutes
- Records minimum and maximum readings
- RS232 Output
- Air flow range: 125 - 4,900 ft/min
- Temperature range: 14° - 122°F
- Average power: 9 Volt/100 hour



Part #	Mfg #	Description
TOL01398	68915	Anemometer Kit
TOL03899	68916	Replacement 2.75" Dia Probe



# Air Flow Meters

## Air Quality Testers

### Air Meter

- Direct reading instrument for both air velocity and static pressure tests
- Complete kit



Part #	Mfg #	Range FPM	Scale WC
KIT09648	460	260 - 1,200 1,000 - 4,000	.005 - .09 .05 - 1.0

### 922 Airflow Meter

- Measures:
  - Differential
  - Static pressure
  - Air velocity
  - Flow readings
- (99) Record storage capacity
- Includes:
  - (2) Rubber hoses
  - (4) AA 1.5V Alkaline batteries
  - Users manual
  - Soft carrying case
- 2-Year warranty
- Kit includes
  - Airflow meter (922)
  - 12" Pitot tube
  - TPak Magnetic strip
  - TPak Strap, 9"
  - TPak Latch tab
  - Hard carrying case



Part #	Mfg #	Description
MTR01038	FLUKE-922	Airflow Micro-Manometer
MTR01045	FLUKE-922/KIT	Airflow Micro-Manometer w/Accessory Kit

### 971 Temperature Humidity Meter

- Measures:
  - Temperature range: -20°C to 60°C
  - Relative humidity: 5% to 95%
- Minimum/maximum/average data hold
- (99) Record test storage capacity



Part #	Mfg #	Description
MTR00976	FLUKE-971	Temperature Humidity Meter

### 975V AirMeter™ with Velocity Probe

- Measures temperature, velocity, humidity and CO/CO2
- Temperature range: -20°C to 50°C (-5°F to 122°F)
- Humidity range: 10% to 90% RH, non-condensing
- Air velocity range: 50.0 fpm to 3,000 fpm
- CO range: 0 to 500 ppm
- CO2 range: 0 to 5,000 ppm
- Altitude up to 2,000 m (6,562')
- Self-test function at startup
- Auto-backlight
- Automatically compensates for barometric pressure changes
- Minimum/Maximum/Average on all measured and calculated readings
- Multi-language user interface
- Metric or standard units
- Audible and visual threshold alarms
- Extensive discrete or continuous data logging capacity, downloadable to PC via USB interface
- Keypad lock for security
- Includes FlukeView® Forms software
- 2-Year warranty



Part #	Mfg #	Description
MTR01024	FLUKE-975V	AirMeter™ Test Tool

### 975VP Air Velocity Probe

- For Fluke-975V AirMeter™



Part #	Mfg #	Description
TOL03053	FLUKE-975VP	Velocity Probe f/Fluke-975V AirMeter™

### 983 Indoor Air Quality Particle Counter

- Determines airborne particle concentrations
- Measure filter efficiency
- Locate particle sources for remediation
- (6) Channels and particle size range of 0.3 - 10um
- 8-Hour battery life
- Backlit LCD for use in any lighting condition



Part #	Mfg #	Description
MTR00973	FLUKE-983	Indoor Air Quality Particle Counter



# Belt Drive Motors

## Fan & Blower Motors

### 5-1/2" Economy Model Reversible Belted Fan & 4-Pole Blower Motor

- Overload protection
- Single-phase, 60Hz, open construction
- Continuous duty, 40°C ambient
- Resilient base mounted
- All angle sleeve (1/4, 1/3, 1/2 hp), ball bearings (3/4 hp)
- 1/2" Shaft diameter - 5/8" adapter with key included (except 3/4 hp)
- Slotted holes in base match 48 or 56 frame bolt patterns



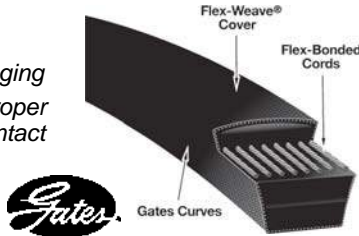
Part #	Mfg #	HP	RPM	Volts	Amps	Service Factor	Thermal Protection	NEMA Frame	Rotation
MOT11844	04701	1/4	1,725	115V	5.1A	1.35	Auto	48Y	Rev
MOT11523	04706	1/3	1,725	115V	6.6A	1.35	Auto	48Y	Rev
MOT11522	04708	1/2	1,725	115V	7.9A	1.25	Auto	48Y	Rev



# Belts

## Hi-Power® II Heavy-Duty V-Belts

- Suitable for all industrial applications, including v-flat drives
- Resists oil, heat, ozone, sunlight, weather, and aging
- Gates curves provide proper cord support and full contact with the sheave-groove
- Flex-bonded cords
- Flex-Weave® cover
- Meets RMA oil and heat resistant standards
- Meets RMA static conductivity requirements



### Series 9002 Hi-Power® II Heavy-Duty V-Belt

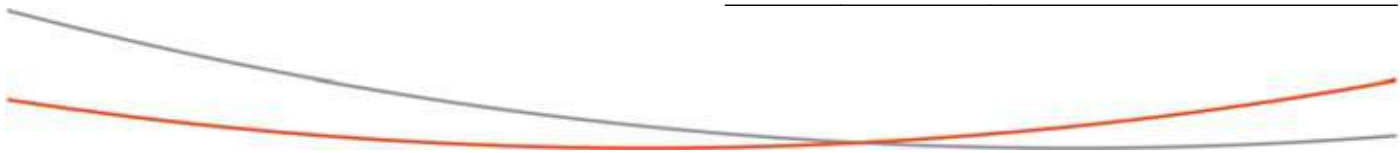
- A Section: 5/16"H x 1/2"W

Part #	Mfg #	Cross-Sect Size	Belt O.C.
A20	9002-2020	A	22"
A21	9002-2021	A	23"
A22	9002-2022	A	24"
A23	9002-2023	A	25"
A24	9002-2024	A	26"
A25	9002-2025	A	27"
A26	9002-2026	A	28"
A27	9002-2027	A	29"
A28	9002-2028	A	30"
A29	9002-2029	A	31"
A29.8	9002-2298	A	31.8"
A30	9002-2030	A	32"
A31	9002-2031	A	33"
A32	9002-2032	A	34"
A34	9002-2034	A	36"
A35	9002-2035	A	37"
A36	9002-2036	A	38"
A37	9002-2037	A	39"
A38	9002-2038	A	40"
A39	9002-2039	A	41"
A40	9002-2040	A	42"
A41	9002-2041	A	43"
A42	9002-2042	A	44"
A43	9002-2043	A	45"
A44	9002-2044	A	46"
A46	9002-2046	A	48"
A47	9002-2047	A	49"
A49	9002-2049	A	51"
A50	9002-2050	A	52"
A51	9002-2051	A	53"

## Hi-Power® II Heavy-Duty V-Belts (Continued)

### Series 9002 Hi-Power® II Heavy-Duty V-Belt

Part #	Mfg #	Cross-Sect Size	Belt O.C.
A53	9002-2053	A	55"
A54	9002-2054	A	56"
A55	9002-2055	A	57"
A57	9002-2057	A	59"
A59	9002-2059	A	61"
A60	9002-2060	A	62"
A61	9002-2061	A	63"
A62	9002-2062	A	64"
A63	9002-2063	A	65"
A64	9002-2064	A	66"
A65	9002-2065	A	67"
A66	9002-2066	A	68"
A67	9002-2067	A	69"
A68	9002-2068	A	70"
A69	9002-2069	A	71"
A70	9002-2070	A	72"
A71	9002-2071	A	73"
A72	9002-2072	A	74"
A73	9002-2073	A	75"
A74	9002-2074	A	76"
A75	9002-2075	A	77"
A76	9002-2076	A	78"
A77	9002-2077	A	79"
A78	9002-2078	A	80"
A80	9002-2080	A	82"
A81	9002-2081	A	83"
A82	9002-2082	A	84"
A83	9002-2083	A	85"
A84	9002-2084	A	86"
A85	9002-2085	A	87"
A86	9002-2086	A	88"
A87	9002-2087	A	89"
A89	9002-2089	A	91"
A90	9002-2090	A	92"
A91	9002-2091	A	93"
A92	9002-2092	A	94"
A93	9002-2093	A	95"
A94	9002-2094	A	96"
A95	9002-2095	A	97"
A97	9002-2097	A	99"
A99	9002-2099	A	101"





# Belts

## Hi-Power® II Heavy-Duty V-Belts (Continued)

### Series 9002 Hi-Power® II Heavy-Duty V-Belt

Part #	Mfg #	Cross-Sect Size	Belt O.C.
A100	9002-2100	A	102"
A101	9002-2101	A	103"
A102	9002-2102	A	104"
A103	9002-2103	A	105"
A104	9002-2104	A	106"
A105	9002-2105	A	107"
A106	9002-2106	A	108"
A107	9002-2107	A	109"
A108	9002-2108	A	110"
A110	9002-2110	A	112"
A112	9002-2112	A	114"
A113	9002-2113	A	115"
A114	9002-2114	A	116"
A116	9002-2116	A	118"
A117	9002-2117	A	119"
A118	9002-2118	A	120"
A120	9002-2120	A	122"
A124	9002-2124	A	126"
A125	9002-2125	A	127"
A127	9002-2127	A	129"
A128	9002-2128	A	130"
A130	9002-2130	A	132"
A132	9002-2132	A	134"
A133	9002-2133	A	135"
A134	9002-2134	A	136"
A137	9002-2137	A	139"
A140	9002-2140	A	142"
A144	9002-2144	A	146"
A148	9002-2148	A	150"
A152	9002-2152	A	154"
A156	9002-2156	A	158"
A157	9002-2157	A	159"
A158	9002-2158	A	160"
A162	9002-2162	A	164"
A167	9002-2167	A	169"
A173	9002-2173	A	175"
A180	9002-2180	A	182"
A187	9002-2187	A	189"
A197	9002-2197	A	199"
A200	9002-2200	A	202"

### Series 9003 Hi-Power® II Heavy-Duty V-Belt

• B section: 13/32"H x 21/32"W



Part #	Mfg #	Cross-Sect Size	Belt O.C.
B24	9003-2024	B	27"
B25	9003-2025	B	28"
B26	9003-2026	B	29"
B27	9003-2027	B	30"
B28	9003-2028	B	31"
B29	9003-2029	B	32"
B30	9003-2030	B	33"
B31	9003-2031	B	34"
B32	9003-2032	B	35"
B33	9003-2033	B	36"
B34	9003-2034	B	37"
B35	9003-2035	B	38"
B36	9003-2036	B	39"
B38	9003-2038	B	41"
B39	9003-2039	B	42"
B40	9003-2040	B	43"
B41	9003-2041	B	44"
B42	9003-2042	B	45"
B43	9003-2043	B	46"
B44	9003-2044	B	47"
B45	9003-2045	B	48"
B46	9003-2046	B	49"
B47	9003-2047	B	50"
B48	9003-2048	B	51"
B49	9003-2049	B	52"
B50	9003-2050	B	53"
B51	9003-2051	B	54"
B52	9003-2052	B	55"
B53	9003-2053	B	56"
B54	9003-2054	B	57"
B55	9003-2055	B	58"
B56	9003-2056	B	59"
B57	9003-2057	B	60"
B58	9003-2058	B	61"
B59	9003-2059	B	62"
B60	9003-2060	B	63"
B61	9003-2061	B	64"
B62	9003-2062	B	65"
B63	9003-2063	B	66"
B64	9003-2064	B	67"
B65	9003-6065	B	68"



# Belts

## Hi-Power® II Heavy-Duty V-Belts (Continued)

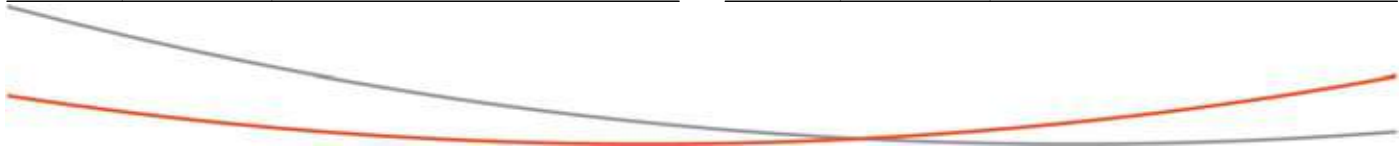
### Series 9003 Hi-Power® II Heavy-Duty V-Belt

Part #	Mfg #	Cross-Sect Size	Belt O.C.
B66	9003-2066	B	69"
B67	9003-2067	B	70"
B69	9003-2069	B	71"
B71	9003-2071	B	74"
B72	9003-2072	B	75"
B73	9003-2073	B	76"
B74	9003-2074	B	77"
B75	9003-2075	B	78"
B76	9003-2076	B	79"
B77	9003-2077	B	80"
B78	9003-2078	B	81"
B79	9003-2079	B	82"
B80	9003-2080	B	83"
B81	9003-2081	B	84"
B82	9003-2082	B	85"
B83	9003-2083	B	86"
B84	9003-2084	B	87"
B85	9003-2085	B	88"
B86	9003-2086	B	89"
B87	9003-2087	B	90"
B88	9003-2088	B	91"
B89	9003-2089	B	92"
B90	9003-2090	B	93"
B91	9003-2091	B	94"
B92	9003-2092	B	95"
B93	9003-2093	B	96"
B94	9003-2094	B	97"
B95	9003-2095	B	98"
B96	9003-2096	B	99"
B97	9003-2097	B	100"
B98	9003-2098	B	101"
B99	9003-2099	B	102"
B100	9003-2100	B	103"
B101	9003-2101	B	104"
B102	9003-2102	B	105"
B103	9003-2103	B	106"
B104	9003-2104	B	107"
B105	9003-2105	B	108"
B106	9003-2106	B	109"
B107	9003-2107	B	110"
B108	9003-2108	B	111"

## Hi-Power® II Heavy-Duty V-Belts (Continued)

### Series 9003 Hi-Power® II Heavy-Duty V-Belt

Part #	Mfg #	Cross-Sect Size	Belt O.C.
B109	9003-2109	B	112"
B110	9003-2110	B	113"
B111	9003-2111	B	114"
B112	9003-2112	B	115"
B113	9003-2113	B	116"
B114	9003-2114	B	117"
B115	9003-2115	B	118"
B116	9003-2116	B	119"
B117	9003-2117	B	120"
B119	9003-2119	B	122"
B120	9003-2120	B	123"
B122	9003-2122	B	125"
B123	9003-2123	B	126"
B124	9003-2124	B	127"
B125	9003-2125	B	128"
B126	9003-2126	B	129"
B127	9003-2127	B	130"
B128	9003-2128	B	131"
B130	9003-2130	B	133"
B131	9003-2131	B	134"
B132	9003-2132	B	135"
B133	9003-2133	B	136"
B134	9003-2134	B	137"
B135	9003-2135	B	138"
B137	9003-2137	B	140"
B139	9003-2139	B	142"
B140	9003-2140	B	143"
B141	9003-2141	B	144"
B142	9003-2142	B	145"
B143	9003-2143	B	146"
B144	9003-2144	B	147"
B145	9003-2145	B	148"
B146	9003-2146	B	149"
B147	9003-2147	B	150"
B148	9003-2148	B	151"
B149	9003-2149	B	152"
B151	9003-2151	B	154"
B152	9003-2152	B	155"
B153	9003-2153	B	156"
B154	9003-2154	B	157"
B156	9003-2156	B	159"



# Belts

## Hi-Power® II Heavy-Duty V-Belts (Continued)

### Series 9003 Hi-Power® II Heavy-Duty V-Belt

Part #	Mfg #	Cross-Sect Size	Belt O.C.
B157	9003-2157	B	160"
B158	9003-2158	B	161"
B160	9003-2160	B	163"
B161	9003-2161	B	164"
B164	9003-2164	B	167"
B165	9003-2165	B	168"
B166	9003-2166	B	169"
B167	9003-2167	B	170"
B168	9003-2168	B	171"
B169	9003-2169	B	172"
B170	9003-2170	B	173"
B172	9003-2172	B	175"
B174	9003-2174	B	177"
B177	9003-2177	B	180"
B178	9003-2178	B	181"
B180	9003-2180	B	183"
B184	9003-2184	B	187"
B185	9003-2185	B	188"
B186	9003-2186	B	189"
B187	9003-2187	B	190"
B188	9003-2188	B	191"
B190	9003-2190	B	193"
B191	9003-2191	B	194"
B192	9003-2192	B	195"
B195	9003-2195	B	198"
B197	9003-2197	B	200"
B199	9003-2199	B	202"
B200	9003-2200	B	203"
B201	9003-2201	B	204"
B204	9003-2204	B	207"
B205	9003-2205	B	208"
B206	9003-2206	B	209"
B210	9003-2210	B	213"
B212	9003-2212	B	213"
B215	9003-2215	B	216"
B217	9003-2217	B	218"
B218	9003-2218	B	219"
B220	9003-2220	B	221"
B221	9003-2221	B	222"
B223	9003-2223	B	224"
B225	9003-2225	B	226"

## Hi-Power® II Heavy-Duty V-Belts (Continued)

### Series 9003 Hi-Power® II Heavy-Duty V-Belt

Part #	Mfg #	Cross-Sect Size	Belt O.C.
B228	9003-2228	B	229"
B230	9003-2230	B	231"
B234	9003-2234	B	235"
B235	9003-2235	B	236"
B236	9003-2236	B	237"
B237	9003-2237	B	238"
B240	9003-2240	B	241"
B248	9003-2248	B	249"
B253	9003-2253	B	254"
B255	9003-2255	B	256"
B265	9003-2265	B	266"
B270	9003-2270	B	271"
B276	9003-2276	B	277"
B279	9003-2279	B	280"
B280	9003-2280	B	281"
B285	9003-2285	B	286"
B290	9003-2290	B	291"
B292	9003-2292	B	293"
B293	9003-2293	B	294"
B300	9003-2300	B	301"
B310	9003-2310	B	311"
B315	9003-2315	B	316"
B330	9003-2330	B	331"
B340	9003-2340	B	341"
B345	9003-2345	B	346"
B355	9003-2355	B	356"
B360	9003-2360	B	361"
B394	9003-2394	B	395"
B433	9003-2433	B	434"
B472	9003-2472	B	473"

# Belts

## Series 9004 Hi-Power® II Heavy-Duty V-Belt

• C Section: 17/32"H x 7/8"W

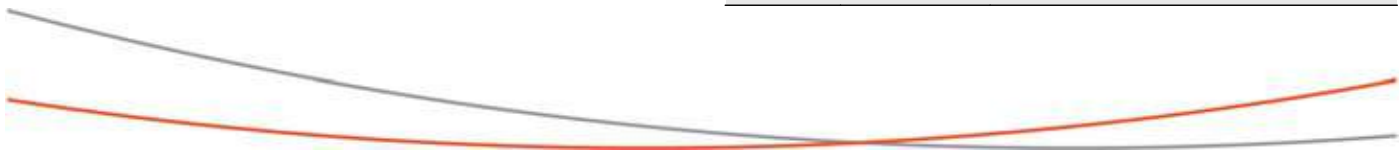


Part #	Mfg #	Cross-Sect Size	Belt O.C.
C44	9004-2044	C	48"
C45	9004-2045	C	49"
C47	9004-2047	C	51"
C48	9004-2048	C	52"
C49	9004-2049	C	53"
C50	9004-2050	C	54"
C51	9004-2051	C	55"
C52	9004-2052	C	56"
C53	9004-2053	C	57"
C54	9004-2054	C	58"
C55	9004-2055	C	59"
C56	9004-2056	C	60"
C57	9004-2057	C	61"
C58	9004-2058	C	62"
C59	9004-2059	C	63"
C60	9004-2060	C	64"
C61	9004-2061	C	65"
C62	9004-2062	C	66"
C63	9004-2063	C	67"
C64	9004-2064	C	68"
C65	9004-2065	C	69"
C66	9004-2066	C	70"
C67	9004-2067	C	71"
C68	9004-2068	C	72"
C69	9004-2069	C	73"
C70	9004-2070	C	74"
C71	9004-2071	C	75"
C73	9004-2073	C	77"
C74	9004-2074	C	78"
C75	9004-2075	C	79"
C76	9004-2076	C	80"
C77	9004-2077	C	81"
C78	9004-2078	C	82"
C79	9004-2079	C	83"
C80	9004-2080	C	84"
C81	9004-2081	C	85"
C82	9004-2082	C	86"
C83	9004-2083	C	87"
C84	9004-2084	C	88"
C85	9004-2085	C	89"
C86	9004-2086	C	90"

## Hi-Power® II Heavy-Duty V-Belts (Continued)

### Series 9004 Hi-Power® II Heavy-Duty V-Belt

Part #	Mfg #	Cross-Sect Size	Belt O.C.
C87	9004-2087	C	91"
C88	9004-2088	C	92"
C89	9004-2089	C	93"
C91	9004-2091	C	95"
C92	9004-2092	C	96"
C93	9004-2093	C	97"
C94	9004-2094	C	98"
C95	9004-2095	C	99"
C96	9004-2096	C	100"
C97	9004-2097	C	101"
C98	9004-2098	C	102"
C99	9004-2099	C	103"
C100	9004-2100	C	104"
C101	9004-2101	C	105"
C102	9004-2102	C	106"
C103	9004-2103	C	107"
C104	9004-2104	C	108"
C105	9004-2105	C	109"
C106	9004-2106	C	110"
C107	9004-2107	C	111"
C108	9004-2108	C	112"
C109	9004-2109	C	113"
C110	9004-2110	C	114"
C111	9004-2111	C	115"
C112	9004-2112	C	116"
C113	9004-2113	C	117"
C114	9004-2114	C	118"
C115	9004-2115	C	119"
C116	9004-2116	C	120"
C117	9004-2117	C	121"
C118	9004-2118	C	122"
C119	9004-2119	C	123"
C120	9004-2120	C	124"
C121	9004-2121	C	125"
C122	9004-2122	C	126"
C123	9004-2123	C	127"
C124	9004-2124	C	128"
C125	9004-2125	C	129"
C126	9004-2126	C	130"
C127	9004-2127	C	131"
C128	9004-2128	C	132"



# Belts

## Hi-Power® II Heavy-Duty V-Belts (Continued)

### Series 9004 Hi-Power® II Heavy-Duty V-Belt

Part #	Mfg #	Cross-Sect Size	Belt O.C.
C130	9004-2130	C	134"
C131	9004-2131	C	135"
C132	9004-2132	C	136"
C133	9004-2133	C	137"
C134	9004-2134	C	138"
C135	9004-2135	C	139"
C136	9004-2136	C	140"
C137	9004-2137	C	141"
C138	9004-2138	C	142"
C139	9004-2139	C	143"
C140	9004-2140	C	144"
C141	9004-2141	C	145"
C142	9004-2142	C	146"
C143	9004-2143	C	147"
C144	9004-2144	C	148"
C145	9004-2145	C	149"
C146	9004-2146	C	150"
C147	9004-2147	C	151"
C148	9004-2148	C	152"
C149	9004-2149	C	153"
C150	9004-2150	C	154"
C151	9004-2151	C	155"
C152	9004-2152	C	156"
C153	9004-2153	C	157"
C154	9004-2154	C	158"
C155	9004-2155	C	159"
C156	9004-2156	C	160"
C157	9004-2157	C	161"
C158	9004-2158	C	162"
C160	9004-2160	C	164"
C162	9004-2162	C	166"
C164	9004-2164	C	168"
C165	9004-2165	C	169"
C166	9004-2166	C	170"
C167	9004-2167	C	171"
C168	9004-2168	C	172"
C169	9004-2169	C	173"
C170	9004-2170	C	174"
C175	9004-2175	C	179"
C176	9004-2176	C	180"
C177	9004-2177	C	181"

## Hi-Power® II Heavy-Duty V-Belts (Continued)

### Series 9004 Hi-Power® II Heavy-Duty V-Belt

Part #	Mfg #	Cross-Sect Size	Belt O.C.
C178	9004-2178	C	182"
C180	9004-2180	C	184"
C181	9004-2181	C	185"
C182	9004-2182	C	186"
C183	9004-2183	C	187"
C184	9004-2184	C	188"
C185	9004-2185	C	189"
C187	9004-2187	C	191"
C188	9004-2188	C	192"
C189	9004-2189	C	193"
C190	9004-2190	C	194"
C193	9004-2193	C	197"
C195	9004-2195	C	199"
C197	9004-2197	C	201"
C198	9004-2198	C	202"
C200	9004-2200	C	204"
C202	9004-2202	C	206"
C204	9004-2204	C	208"
C205	9004-2205	C	209"
C206	9004-2206	C	210"
C207	9004-2207	C	211"
C208	9004-2208	C	212"
C210	9004-2210	C	214"
C214	9004-2214	C	216"
C215	9004-2215	C	217"
C218	9004-2218	C	220"
C220	9004-2220	C	222"
C221	9004-2221	C	223"
C225	9004-2225	C	227"
C228	9004-2228	C	230"
C229	9004-2229	C	231"
C230	9004-2230	C	232"
C235	9004-2235	C	237"
C238	9004-2238	C	240"
C240	9004-2240	C	242"
C245	9004-2245	C	247"
C246	9004-2246	C	248"
C248	9004-2248	C	250"
C250	9004-2250	C	252"
C255	9004-2255	C	257"
C264	9004-2264	C	266"

# Belts

## Hi-Power® II Heavy-Duty V-Belts (Continued)

### Series 9004 Hi-Power® II Heavy-Duty V-Belt

Part #	Mfg #	Cross-Sect Size	Belt O.C.
C265	9004-2265	C	267"
C270	9004-2270	C	272"
C275	9004-2275	C	277"
C276	9004-2276	C	278"
C280	9004-2280	C	282"
C285	9004-2285	C	287"
C290	9004-2290	C	292"
C295	9004-2295	C	297"
C297	9004-2297	C	299"
C300	9004-2300	C	302"
C303	9004-2303	C	305"
C314	9004-2314	C	316"
C315	9004-2315	C	317"
C320	9004-2320	C	322"
C330	9004-2330	C	332"
C345	9004-2345	C	347"
C360	9004-2360	C	362"
C390	9004-2390	C	392"
C420	9004-2420	C	422"
C450	9004-2450	C	452"

### Series 9005 Hi-Power® II V-Belt

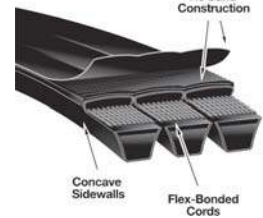
- D Section: 3/4"H x 1-1/4"W

Part #	Mfg #	Cross-Sect Size	Belt O.C.
D120	9005-2120	D	125"



## Hi-Power® II PowerBand® Heavy-Duty V-Belts

- Suitable for drives where single belts vibrate, turn over or jump off the drive
- Allows multiple belts to function as a single unit, with even load distribution
- Concave sidewalls
- Tie band assures high lateral rigidity
- Flex-bonded cords
- Meets RMA oil and heat resistant standards
- Meets RMA static conductivity requirements



### Series 9093 Hi-Power® II PowerBand® Heavy-Duty V-Belt

- B Section: 13/32"H x 21/32"W

Part #	Mfg #	Strand	Belt O.C.
2B56	9093-2056	2	59"
2B93	9093-2093	2	96"
2B97	9093-2097	2	100"
2B103	9093-2103	2	106"
2B115	9093-2115	2	118"
2B120	9093-2120	2	123"
2B124	9093-2124	2	127"
2B128	9093-2128	2	131"
2B133	9093-2133	2	136"
2B136	9093-2136	2	139"
2B144	9093-2144	2	147"
3B51	9093-3051	3	54"
3B54	9093-3054	3	57"
3B108	9093-3108	3	111"
3B120	9093-3120	3	123"
3B124	9093-3124	3	127"
3B128	9093-3128	3	131"
3B136	9093-3136	3	139"
3B144	9093-3144	3	147"
3B158	9093-3158	3	161"
4B120	9093-4120	4	123"
4B128	9093-4128	4	131"
5B133	9093-5133	5	136"
5B148	9093-5148	5	151"
5B158	9093-5158	5	161"
5B180	9093-5180	5	183"
6B136	9093-6136	6	139"
6B148	9093-6148	6	151"

# Belts

## Series 9094 Hi-Power® II PowerBand® Heavy-Duty V-Belt

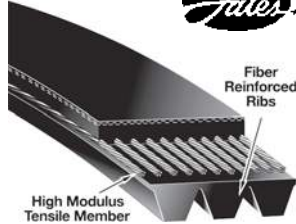
- C Section: 17/32"H x 7/8"W



Part #	Mfg #	Cross-Sect Size	Belt O.C.
5C75	9094-5075	5	79"

## Micro-V® Heavy-Duty Belts

- Suitable for applications such as appliances, outdoor power equipment, roller conveyors, machine tools, medical equipment and exercise equipment
- Truncated profile gives increased flexibility, reduced heat buildup, and allows performance at higher speed on smaller diameter sheaves
- Fiber reinforced ribs
- High modulus low stretch tensile member
- Meets RMA oil and heat resistant standards
- Meets RMA static conductivity requirements



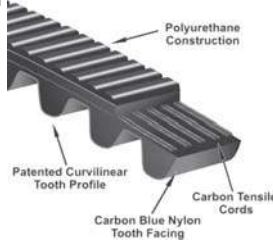
## Series 9171 Micro-V® Heavy-Duty Belt

- J Section: each rib measures 3/32"

Part #	Mfg #	Cross-Sect Size	Belt O.C.
730J4	9171-07304	J	73"

## Poly Chain® GT® Carbon™ Synchronous Belts

- Designed for all industrial markets, especially suited to replace roller chain drives
- Maintenance-free, clean solution for roller chain drive conversion
- Curvilinear tooth profile provides high shear strength, noise reduction, and improved load carrying capacity
- Carbon tensile cord combines minimal stretch with high strength and load carrying capacity
- Operational in temperature extremes of -65°F to 185°F



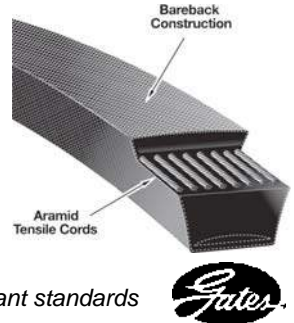
## Series 9274 Poly Chain® GT® Carbon™ V-Belt

- 14 Pitch-37mm wide

Part #	Mfg #	No. of Teeth	Belt O.C.
14MGT-15 68-37	9274-5112	112	61.73"

## PowerRated® Light-Duty V-Belts

- Alternative to conventional light-duty belts
- Suitable where FHP belts are used
- Bareback construction for smooth clutching
- Aramid tensile cords combine limited stretch with high strength
- Meets RMA oil and heat resistant standards



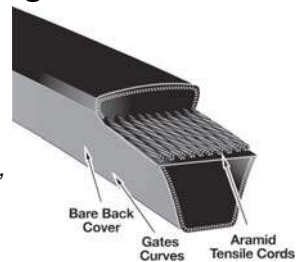
## Series 8423 PowerRated® Light-Duty V-Belt

- 2 or 4L Section: 7/32"H x 3/8"W
- 3 or 5L Section: 3/8"H x 21/32"W

Part #	Mfg #	Cross-Sect Size	Belt O.C.
4L250K	8423-6825	2	25"
4L300K	8423-6830	2	30"
5L640K	8423-6964	3	64"

## Predator® Heavy-Duty Single-Belts

- Designed for aggressive applications
- Suitable for applications such as mining, agriculture, wood processing, oil field equipment, heavy construction, and sand/gravel operations
- Aramid tensile cords combine limited stretch with high strength
- Bareback construction for smooth clutching
- Gates curves provide proper cord support and full contact with the sheave-groove
- Meets RMA oil and heat resistant standards



## Series 9185 Predator® Heavy-Duty Single-Belt

- AP Section: 5/16"H x 1/2"W

Part #	Mfg #	Cross-Sect Size	Belt O.C.
AP44B	9185-0044	AP	46"
AP47B	9185-0047	AP	49"

## Series 9186 Predator® Heavy-Duty Single-Belt

- BP Section: 13/32"H x 2/32"W

Part #	Mfg #	Cross-Sect Size	Belt O.C.
BP42	9186-0042	BP	45"



# Belts

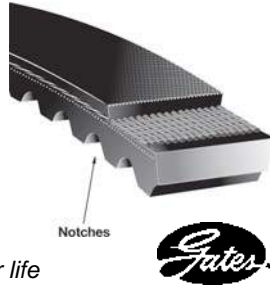
## Series 9188 Predator® Single Belt

- 5VP Section: 5/8"H x 35/64"W

Part #	Mfg #	Cross-Sect Size	Belt O.C.
5VP800	9188-0080	5VP	80"

## Series 9800 Multi-Speed V-Belts

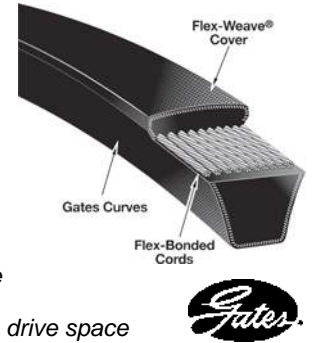
- Suitable for all industrial, wide-speed range open pulley or enclosed device
- variable speed drives
- Banded
- High modulus fiber low stretch tensile member
- Notch design reduces thermal and bending stresses for longer life
- Smooth running construction for minimal vibration at high speeds
- Meets RMA oil and heat resistant standards



Part #	Mfg #	Top Width	Belt O.C.
4430V690	9800-0444	2-3/4	70"

## Super HC® Heavy-Duty V-Belts

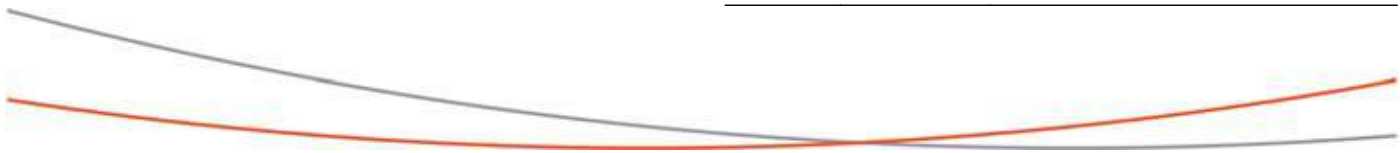
- Suitable for all industrial applications, particularly where space, weight, and horsepower capacity are critical
- Gates curves provide proper cord support and full contact with the sheave-groove
- Narrow cross-sections can transmit up to three times the horsepower of the classical cross-sections with the same drive space
- Flex-bonded cords
- Flex-Weave® cover
- Meets RMA oil and heat resistant standards
- Meets RMA static conductivity requirements



## Series 9332 Super HC® Heavy-Duty V-Belt

- 3V Section: 21/64"H x 3/8"W

Part #	Mfg #	Cross-Sect Size	Belt O.C.
3V250	9332-0250	3V	25"
3V265	9332-0265	3V	26.5"
3V280	9332-0280	3V	28"
3V300	9332-0300	3V	30"
3V315	9332-0315	3V	31.5"
3V335	9332-0335	3V	33.5"
3V355	9332-0355	3V	35.5"
3V375	9332-0375	3V	37.5"
3V400	9332-0400	3V	40"
3V420	9332-0420	3V	42"
3V425	9332-0425	3V	42.5"
3V450	9332-0450	3V	45"
3V475	9332-0475	3V	47.5"
3V500	9332-0500	3V	50"
3V530	9332-0530	3V	53"
3V590	9332-0590	3V	59"
3V600	9332-0600	3V	60"
3V630	9332-0630	3V	63"
3V650	9332-0650	3V	65"
3V670	9332-0670	3V	67"
3V710	9332-0710	3V	71"
3V730	9332-0730	3V	73"
3V750	9332-0750	3V	75"
3V800	9332-0800	3V	80"
3V810	9332-0810	3V	81"
3V830	9332-0830	3V	83"
3V850	9332-0850	3V	85"





# Belts

## Super HC® Heavy-Duty V-Belts (Continued)

### Series 9332 Super HC® Heavy-Duty V-Belt

Part #	Mfg #	Cross-Sect Size	Belt O.C.
3V950	9332-0950	3V	95"
3V1120	9332-1120	3V	112"
3V1180	9332-1180	3V	118"
3V1250	9332-1250	3V	125"
3V1320	9332-1320	3V	132"
3V1400	9332-1400	3V	140"

### Series 9334 Super HC® Heavy-Duty V-Belt

- 5V Section: 35/64"H x 5/8"W



Part #	Mfg #	Cross-Sect Size	Belt O.C.
5V500	9334-0500	5V	50"
5V530	9334-0530	5V	53"
5V600	9334-0600	5V	60"
5V630	9334-0630	5V	63"
5V670	9334-0670	5V	67"
5V710	9334-0710	5V	71"
5V750	9334-0750	5V	75"
5V800	9334-0800	5V	80"
5V850	9334-0850	5V	85"
5V900	9334-0900	5V	90"
5V950	9334-0950	5V	95"
5V1000	9334-1000	5V	100"
5V1060	9334-1060	5V	106"
5V1250	9334-1250	5V	125"
5V1320	9334-1320	5V	132"
5V1500	9334-1500	5V	150"
5V1600	9334-1600	5V	160"
5V1700	9334-1700	5V	170"
5V1710	9334-1710	5V	171"
5V1800	9334-1800	5V	180"
5V1900	9334-1900	5V	190"
5V2120	9334-2120	5V	212"
5V2240	9334-2240	5V	240"
5V2360	9334-2360	5V	236"
5V2500	9334-2500	5V	250"
5V2650	9334-2650	5V	265"
5V2800	9334-2800	5V	280"
5V3000	9334-3000	5V	300"
5V3150	9334-3150	5V	315"
5V3350	9334-3350	5V	335"
5V3550	9334-3550	5V	355"

## Series 9336 Super HC® Heavy-Duty V-Belt

- 8V Section: 53/64"H x 1"W

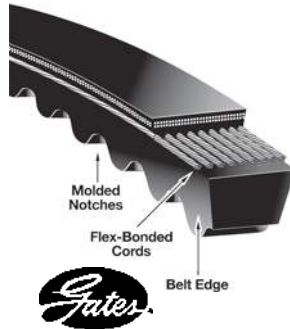


Part #	Mfg #	Cross-Sect Size	Belt O.C.
8V1000	9336-1000	8V	100"
8V1120	9336-1120	8V	112"
8V1180	9336-1180	8V	118"
8V1250	9336-1250	8V	125"
8V1400	9336-1400	8V	140"
8V1500	9336-1500	8V	150"
8V1600	9336-1600	8V	160"
8V1700	9336-1700	8V	170"
8V1800	9336-1800	8V	180"
8V1900	9336-1900	8V	190"
8V2000	9336-2000	8V	200"
8V2120	9336-2120	8V	212"
8V2240	9336-2240	8V	224"
8V2360	9336-2360	8V	236"
8V2500	9336-2500	8V	250"
8V2650	9336-2650	8V	265"
8V2800	9336-2800	8V	280"
8V3000	9336-3000	8V	300"
8V3150	9336-3150	8V	315"
8V3350	9336-3350	8V	335"
8V3550	9336-3550	8V	355"
8V4500	9336-4500	8V	450"

# Belts

## Super HC® Molded Notch Heavy-Duty V-Belts

- For use where conventional v-belts are impractical, where space, weight or sheave limitations are present, and where increased horsepower is required
- Smaller sheave diameters
- Higher horsepower rating
- Flex-bonded cords
- Machined belt edge
- Meets RMA oil and heat resistant standards
- Meets RMA static conductivity requirements



## Series 9412 Super HC® Molded Notch Heavy-Duty V-Belt

- 3VX Section: 2 1/64"H x 3/8"W

Part #	Mfg #	Cross-Sect Size	Belt O.C.
3VX250	9412-0250	3VX	25"
3VX265	9412-0265	3VX	26.5"
3VX280	9412-0280	3VX	28"
3VX300	9412-0300	3VX	30"
3VX315	9412-0315	3VX	31.5"
3VX326	9412-0326	3VX	32.6"
3VX335	9412-0335	3VX	33.5"
3VX350	9412-0350	3VX	35"
3VX355	9412-0355	3VX	35.5"
3VX366	9412-0366	3VX	36.6"
3VX375	9412-0375	3VX	37.5"
3VX385	9412-0385	3VX	38.5"
3VX390	9412-0390	3VX	39"
3VX400	9412-0400	3VX	40"
3VX415	9412-0415	3VX	41.5"
3VX425	9412-0425	3VX	42.5"
3VX464	9412-0464	3VX	46.4"
3VX475	9412-0475	3VX	47.5"
3VX520	9412-0520	3VX	52"
3VX540	9412-0540	3VX	54"
3VX550	9412-0550	3VX	55"
3VX570	9412-0570	3VX	57"
3VX580	9412-0580	3VX	58"
3VX590	9412-0590	3VX	59"
5VX600	9412-0600	3VX	60"
3VX616	9412-0616	3VX	61.6"
3VX630	9412-0630	3VX	63"
3VX650	9412-0650	3VX	65"

## Super HC® Molded Notch Heavy-Duty V-Belts (Continued)

### Series 9412 Super HC® Molded Notch Heavy-Duty V-Belt

Part #	Mfg #	Cross-Sect Size	Belt O.C.
3VX670	9412-0670	3VX	67"
3VX690	9412-0690	3VX	69"
3VX710	9412-0710	3VX	71"
3VX750	9412-0750	3VX	75"
3VX800	9412-0800	3VX	80"
3VX850	9412-0850	3VX	85"
3VX926	9412-0926	3VX	92.6"
3VX950	9412-0950	3VX	95"
3VX974	9412-0974	3VX	97.4"
3VX1000	9412-1000	3VX	100"
3VX1027	9412-1027	3VX	102.7"
3VX1060	9412-1060	3VX	106"
3VX1088	9412-1088	3VX	108.8"
3VX1120	9412-1120	3VX	112"
3VX1146	9412-1146	3VX	114.6"
3VX1180	9412-1180	3VX	118"
3VX1224	9412-1224	3VX	122.4"
3VX1250	9412-1250	3VX	125"
3VX1296	9412-1296	3VX	129.6"
3VX1320	9412-1320	3VX	132"
3VX1400	9412-1400	3VX	140"

# Belts

## Series 9414 Super HC® Molded Notch Heavy-Duty V-Belt

• 5VX: 35/64"H x 5/8"W



Part #	Mfg #	Cross-Sect Size	Belt O.C.
5VX350	9414-0350	5VX	35"
5VX362	9414-0362	5VX	36.2"
5VX372	9414-0372	5VX	37.2"
5VX382	9414-0382	5VX	38.2"
5VX392	9414-0392	5VX	39.2"
5VX402	9414-0402	5VX	40.2"
5VX412	9414-0412	5VX	41.2"
5VX422	9414-0422	5VX	42.2"
5VX433	9414-0433	5VX	43.3"
5VX450	9414-0450	5VX	45"
5VX459	9414-0459	5VX	45.9"
5VX470	9414-0470	5VX	47"
5VX479	9414-0479	5VX	47.9"
5VX490	9414-0490	5VX	49"
5VX500	9414-0500	5VX	50"
5VX510	9414-0510	5VX	51"
5VX519	9414-0519	5VX	51.9"
5VX530	9414-0530	5VX	53"
5VX540	9414-0540	5VX	54"
5VX570	9414-0570	5VX	57"
5VX590	9414-0590	5VX	59"
5VX610	9414-0610	5VX	61"
5VX619	9414-0619	5VX	61.9"
5VX630	9414-0630	5VX	63"
5VX650	9414-0650	5VX	65"
5VX660	9414-0660	5VX	66"
5VX670	9414-0670	5VX	67"
5VX680	9414-0680	5VX	68"
5VX690	9414-0690	5VX	69"
5VX700	9414-0700	5VX	70"
5VX710	9414-0710	5VX	71"
5VX720	9414-0720	5VX	72"
5VX730	9414-0730	5VX	73"
5VX740	9414-0740	5VX	74"
5VX750	9414-0750	5VX	75"
5VX760	9414-0760	5VX	76"
5VX769	9414-0769	5VX	76.9"
5VX780	9414-0780	5VX	78"
5VX790	9414-0790	5VX	79"
5VX800	9414-0800	5VX	80"
5VX810	9414-0810	5VX	81"

## Super HC® Molded Notch Heavy-Duty V-Belts (Continued)

### Series 9414 Super HC® Molded Notch Heavy-Duty V-Belt

Part #	Mfg #	Cross-Sect Size	Belt O.C.
5VX830	9414-0830	5VX	83"
5VX850	9414-0850	5VX	85"
5VX860	9414-0860	5VX	86"
5VX867	9414-0867	5VX	86.7"
5VX880	9414-0880	5VX	88"
5VX890	9414-0890	5VX	89"
5VX900	9414-0900	5VX	90"
5VX918	9414-0918	5VX	91.8"
5VX940	9414-0940	5VX	94"
5VX950	9414-0950	5VX	95"
5VX960	9414-0960	5VX	96"
5VX978	9414-0978	5VX	97.8"
5VX990	9414-0990	5VX	99"
5VX1000	9414-1000	5VX	100"
5VX1017	9414-1017	5VX	101.7"
5VX1030	9414-1030	5VX	103"
5VX1050	9414-1050	5VX	105"
5VX1060	9414-1060	5VX	106"
5VX1080	9414-1080	5VX	108"
5VX1108	9414-1108	5VX	110.8"
5VX1120	9414-1120	5VX	112"
5VX1139	9414-1139	5VX	113.9"
5VX1150	9414-1150	5VX	115"
5VX1160	9414-1160	5VX	116"
5VX1162	9414-1162	5VX	116.2"
5VX1180	9414-1180	5VX	118"
5VX1220	9414-1220	5VX	122"
5VX1230	9414-1230	5VX	123"
5VX1250	9414-1250	5VX	125"
5VX1277	9414-1277	5VX	127.7"
5VX1320	9414-1320	5VX	132"
5VX1374	9414-1374	5VX	137.4"
5VX1400	9414-1400	5VX	140"
5VX1469	9414-1469	5VX	146.9"
5VX1600	9414-1600	5VX	160"
5VX1700	9414-1700	5VX	170"
5VX1701	9414-1701	5VX	170.1"
5VX2000	9414-2000	5VX	200"

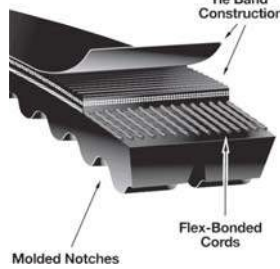


# Belts

## Super HC® Molded Notch PowerBand® Heavy-Duty V-Belts



- Suitable for multiple v-belt drives exposed to pulsating or heavy shock loads
- Allows multiple belts to function as a single unit
- Notches molded into belt during manufacturing make this belt well suited for drives with smaller diameter sheaves
- Flex-bonded cords
- Tie band assures high lateral rigidity
- Patented EPDM material provides -60°F + 250°F
- Meets RMA oil and heat resistant standards
- Meets RMA static conductivity



### Series 9388 Super HC® Molded Notch PowerBand® Heavy-Duty V-Belt

- 3VX Section: 21/64"H x 3/8"W

Part #	Mfg #	Strand	Belt O.C.
53VX600	9388-5060	5	60"

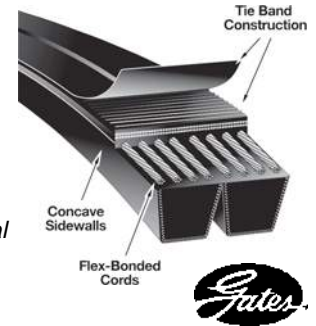
### Series 9389 Super HC® Molded Notch PowerBand® Heavy-Duty V-Belt

- 5VX Section: 35/64"H x 5/8"W

Part #	Mfg #	Strand	Belt O.C.
2-5VX1250	9389-2125	2	125"
45VX900	9389-4090	4	90"
45VX1000	9389-4100	4	100"

## Super HC® PowerBand® Heavy-Duty V-Belts

- Recommended for multiple V-belt drives exposed to pulsating or heavy shock loads
- Allows multiple belts to function as a single unit
- Tie band assures high lateral rigidity
- Concave sidewall
- Flex-bonded cords
- Meets RMA oil and heat resistant standards
- Meets RMA static conductivity requirements



### Series 9386 Super HC® PowerBand® Heavy-Duty V-Belt

- 5V Section: 35/64"H x 5/8"W

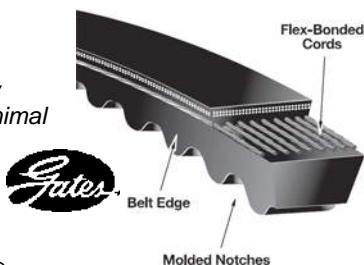
Part #	Mfg #	Strand	Belt O.C.
35V1320	9386-3132	3	132"
35V1400	9386-3140	3	140"
35V1600	9386-3160	3	160"
45V1600	9386-4160	4	160"
55V1600	9386-5160	5	160"



# Belts

## Tri-Power® Molded Notch Heavy-Duty V-Belts

- Suitable for industrial applications especially where small or sub-minimal sheave diameters are required
- Flex-bonded cords
- Machined belt edge
- Constructed of Vextra®, superior mix of flex and load
- Meets RMA oil and heat resistant standards
- Meets RMA static conductivity requirements



## Series 9012 Tri-Power® Molded Notch Heavy-Duty V-Belt

- AX Section: 5/16"H x 1/2"W

Part #	Mfg #	Cross-Sect Size	Belt O.C.
AX21	9012-2021	AX	23"
AX22	9012-2022	AX	24"
AX23	9012-2023	AX	25"
AX24	9012-2024	AX	26"
AX25	9012-2025	AX	27"
AX27	9012-2027	AX	29"
AX28	9012-2028	AX	30"
AX29	9012-2029	AX	31"
AX30	9012-2030	AX	32"
AX31	9012-2031	AX	33"
AX32	9012-2032	AX	34"
AX33	9012-2033	AX	35"
AX34	9012-2034	AX	36"
AX36	9012-2036	AX	38"
AX38	9012-2038	AX	40"
AX39	9012-2039	AX	41"
AX40	9012-2040	AX	42"
AX41	9012-2041	AX	43"
AX42	9012-2042	AX	44"
AX43	9012-2043	AX	45"
AX44	9012-2044	AX	46"
AX45	9012-2045	AX	47"
AX46	9012-2046	AX	48"
AX47	9012-2047	AX	49"
AX48	9012-2048	AX	50"
AX49	9012-2049	AX	51"
AX50	9012-2050	AX	52"
AX51	9012-2051	AX	53"
AX52	9012-2052	AX	54"

## Tri-Power® Molded Notch Heavy-Duty V-Belts (Continued)

### Series 9012 Tri-Power® Molded Notch Heavy-Duty V-Belt

Part #	Mfg #	Cross-Sect Size	Belt O.C.
AX53	9012-2053	AX	55"
AX54	9012-2054	AX	56"
AX55	9012-2055	AX	57"
AX56	9012-2056	AX	58"
AX57	9012-2057	AX	59"
AX58	9012-2058	AX	60"
AX59	9012-2059	AX	61"
AX60	9012-2060	AX	62"
AX61	9012-2061	AX	63"
AX62	9012-2062	AX	64"
AX63	9012-2063	AX	65"
AX64	9012-2064	AX	66"
AX65	9012-2065	AX	67"
AX66	9012-2066	AX	68"
AX67	9012-2067	AX	69"
AX68	9012-2068	AX	70"
AX69	9012-2069	AX	71"
AX70	9012-2070	AX	72"
AX71	9012-2071	AX	73"
AX72	9012-2072	AX	74"
AX73	9012-2073	AX	75"
AX74	9012-2074	AX	76"
AX75	9012-2075	AX	77"
AX76	9012-2076	AX	78"
AX77	9012-2077	AX	79"
AX78	9012-2078	AX	80"
AX79	9012-2079	AX	81"
AX80	9012-2080	AX	82"
AX81	9012-2081	AX	83"
AX82	9012-2082	AX	84"
AX83	9012-2083	AX	85"
AX84	9012-2084	AX	86"
AX85	9012-2085	AX	87"
AX86	9012-2086	AX	88"
AX87	9012-2087	AX	89"
AX88	9012-2088	AX	90"
AX89	9012-2089	AX	91"
AX91	9012-2091	AX	93"
AX92	9012-2092	AX	94"
AX94	9012-2094	AX	96"

# Belts

## Tri-Power® Molded Notch Heavy-Duty V-Belts (Continued)

### Series 9012 Tri-Power® Molded Notch Heavy-Duty V-Belt

Part #	Mfg #	Cross-Sect Size	Belt O.C.
AX97	9012-2097	AX	99"
AX98	9012-2098	AX	100"
AX100	9012-2100	AX	102"
AX105	9012-2105	AX	107"
AX110	9012-2110	AX	112"
AX112	9012-2112	AX	114"
AX120	9012-2120	AX	122"
AX128	9012-2128	AX	130"
AX144	9012-2144	AX	146"

### Series 9013 Tri-Power® Molded Notch Heavy-Duty V-Belt

• BX Section: 13/32"H x 21/32"W



Part #	Mfg #	Cross-Sect Size	Belt O.C.
BX21	9013-2021	BX	24"
BX24	9013-2024	BX	27"
BX26	9013-2026	BX	29"
BX27	9013-2027	BX	30"
BX28	9013-2028	BX	31"
BX29	9013-2029	BX	32"
BX30	9013-2030	BX	33"
BX32	9013-2032	BX	35"
BX33	9013-2033	BX	36"
BX34	9013-2034	BX	37"
BX35	9013-2035	BX	38"
BX36	9013-2036	BX	39"
BX37	9013-2037	BX	40"
BX38	9013-2038	BX	41"
BX39	9013-2039	BX	42"
BX40	9013-2040	BX	43"
BX41	9013-2041	BX	44"
BX42	9013-2042	BX	45"
BX43	9013-2043	BX	46"
BX44	9013-2044	BX	47"
BX45	9013-2045	BX	48"
BX46	9013-2046	BX	49"
BX48	9013-2048	BX	51"
BX49	9013-2049	BX	52"
BX50	9013-2050	BX	53"

## Tri-Power® Molded Notch Heavy-Duty V-Belts (Continued)

### Series 9013 Tri-Power® Molded Notch Heavy-Duty V-Belt

Part #	Mfg #	Cross-Sect Size	Belt O.C.
BX52	9013-2052	BX	55"
BX53	9013-2053	BX	56"
BX54	9013-2054	BX	57"
BX55	9013-2055	BX	58"
BX56	9013-2056	BX	59"
BX57	9013-2057	BX	60"
BX58	9013-2058	BX	61"
BX59	9013-2059	BX	62"
BX60	9013-2060	BX	63"
BX61	9013-2061	BX	64"
BX63	9013-2063	BX	66"
BX64	9013-2064	BX	67"
BX65	9013-2065	BX	68"
BX66	9013-2066	BX	69"
BX67	9013-2067	BX	70"
BX69	9013-2069	BX	72"
BX70	9013-2070	BX	73"
BX71	9013-2071	BX	74"
BX72	9013-2072	BX	75"
BX73	9013-2073	BX	76"
BX74	9013-2074	BX	77"
BX76	9013-2076	BX	79"
BX77	9013-2077	BX	80"
BX78	9013-2078	BX	81"
BX79	9013-2079	BX	82"
BX80	9013-2080	BX	83"
BX82	9013-2082	BX	85"
BX85	9013-2085	BX	88"
BX86	9013-2086	BX	89"
BX87	9013-2087	BX	90"
BX88	9013-2088	BX	91"
BX89	9013-2089	BX	92"
BX90	9013-2090	BX	93"
BX91	9013-2091	BX	94"
BX92	9013-2092	BX	95"
BX93	9013-2093	BX	96"
BX94	9013-2094	BX	97"
BX95	9013-2095	BX	98"
BX96	9013-2096	BX	99"
BX97	9013-2097	BX	100"

# Belts

## Tri-Power® Molded Notch Heavy-Duty V-Belts (Continued)

### Series 9013 Tri-Power® Molded Notch Heavy-Duty V-Belt

Part #	Mfg #	Cross-Sect Size	Belt O.C.
BX98	9013-2098	BX	101"
BX99	9013-2099	BX	102"
BX100	9013-2100	BX	103"
BX103	9013-2103	BX	106"
BX105	9013-2105	BX	108"
BX106	9013-2106	BX	109"
BX108	9013-2108	BX	111"
BX110	9013-2110	BX	113"
BX112	9013-2112	BX	115"
BX113	9013-2113	BX	116"
BX115	9013-2115	BX	118"
BX116	9013-2116	BX	119"
BX120	9013-2120	BX	123"
BX123	9013-2123	BX	126"
BX124	9013-2124	BX	127"
BX128	9013-2128	BX	131"
BX133	9013-2133	BX	136"
BX136	9013-2136	BX	139"
BX140	9013-2140	BX	143"
BX144	9013-2144	BX	147"
BX148	9013-2148	BX	151"
BX150	9013-2150	BX	153"
BX158	9013-2158	BX	161"
BX162	9013-2162	BX	165"
BX173	9013-2173	BX	176"
BX195	9013-2195	BX	198"
BX205	9013-2205	BX	208"
BX210	9013-2210	BX	213"
BX225	9013-2225	BX	227"
BX270	9013-2270	BX	272"

## Series 9014 Tri-Power® Molded Notch Heavy-Duty V-Belt

• CX Section: 17/32"H x 7/8"W



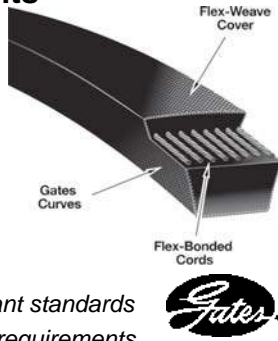
Part #	Mfg #	Cross-Sect Size	Belt O.C.
CX51	9014-2051	CX	55"
CX60	9014-2060	CX	64"
CX68	9014-2068	CX	72"
CX75	9014-2075	CX	79"
CX78	9014-2078	CX	82"
CX81	9014-2081	CX	85"
CX83	9014-2083	CX	87"
CX85	9014-2085	CX	89"
CX90	9014-2090	CX	94"
CX96	9014-2096	CX	100"
CX100	9014-2100	CX	104"
CX101	9014-2101	CX	105"
CX105	9014-2105	CX	109"
CX106	9014-2106	CX	110"
CX109	9014-2109	CX	113"
CX115	9014-2115	CX	119"
CX120	9014-2120	CX	124"
CX123	9014-2123	CX	127"
CX128	9014-2128	CX	132"
CX133	9014-2133	CX	137"
CX136	9014-2136	CX	140"
CX150	9014-2150	CX	154"
CX158	9014-2158	CX	162"
CX162	9014-2162	CX	166"
CX173	9014-2173	CX	177"
CX180	9014-2180	CX	184"
CX187	9014-2187	CX	191"
CX190	9014-2190	CX	194"
CX195	9014-2195	CX	199"
CX210	9014-2210	CX	214"
CX225	9014-2225	CX	227"
CX240	9014-2240	CX	242"
CX255	9014-2255	CX	257"
CX270	9014-2270	CX	272"
CX300	9014-2300	CX	302"
CX330	9014-2330	CX	332"
CX360	9014-2360	CX	362"



# Belts

## Truflex® Light-Duty V-Belts

- Suitable for all industrial light-duty applications, usually using fractional horsepower (FHP) motors
- Gates curves provide proper cord support and full contact with the sheave-groove
- Flex-bonded cords
- Flex-Weave® cover
- Meets RMA oil and heat resistant standards
- Meets RMA static conductivity requirements



### Series 8400 Truflex® Light-Duty V-Belt

Part #	Mfg #	Cross-Sect Size	Belt O.C.
3L150	8400-1150	3L	15"
3L160	8400-1160	3L	16"
3L170	8400-1170	3L	17"
3L180	8400-1180	3L	18"
3L190	8400-1190	3L	19"
3L200	8400-1200	3L	20"
3L210	8400-1210	3L	21"
3L230	8400-1230	3L	23"
3L250	8400-1250	3L	25"
3L260	8400-1260	3L	26"
3L220	8400-1220	3L	22"
3L270	8400-1270	3L	27"
3L290	8400-1290	3L	29"
3L300	8400-1300	3L	30"
3L310	8400-1310	3L	31"
3L330	8400-1330	3L	33"
3L340	8400-1340	3L	34"
3L350	8400-1350	3L	35"
3L360	8400-1360	3L	36"
3L370	8400-1370	3L	37"
3L380	8400-1380	3L	38"
3L390	8400-1390	3L	39"
3L400	8400-1400	3L	40"
3L410	8400-1410	3L	41"
3L420	8400-1420	3L	42"
3L430	8400-1430	3L	43"
3L440	8400-1440	3L	44"
3L450	8400-1450	3L	45"
3L460	8400-1460	3L	46"
3L470	8400-1470	3L	47"
3L480	8400-1480	3L	48"
3L490	8400-1490	3L	49"

## Truflex® Light-Duty V-Belts (Continued)

### Series 8400 Truflex® Light-Duty V-Belt

Part #	Mfg #	Cross-Sect Size	Belt O.C.
3L500	8400-1500	3L	50"
3L530	8400-1530	3L	53"
4L190	8400-2190	4L	19"
4L200	8400-2200	4L	20"
4L210	8400-2210	4L	21"
4L220	8400-2220	4L	22"
4L230	8400-2230	4L	23"
4L240	8400-2240	4L	24"
4L250	8400-2250	4L	25"
4L260	8400-2260	4L	26"
4L270	8400-2270	4L	27"
4L280	8400-2280	4L	28"
4L290	8400-2290	4L	29"
4L300	8400-2300	4L	30"
4L310	8400-2310	4L	31"
4L320	8400-2320	4L	32"
4L330	8400-2330	4L	33"
4L340	8400-2340	4L	34"
4L360	8400-2360	4L	36"
4L370	8400-2370	4L	37"
4L380	8400-2380	4L	38"
4L390	8400-2390	4L	39"
4L400	8400-2400	4L	40"
4L410	8400-2410	4L	41"
4L420	8400-2420	4L	42"
4L430	8400-2430	4L	43"
4L440	8400-2440	4L	44"
4L450	8400-2450	4L	45"
4L460	8400-2460	4L	46"
4L470	8400-2470	4L	47"
4L490	8400-2490	4L	49"
4L500	8400-2500	4L	50"
4L510	8400-2510	4L	51"
4L520	8400-2520	4L	52"
4L530	8400-2530	4L	53"
4L540	8400-2540	4L	54"
4L560	8400-2560	4L	56"
4L570	8400-2570	4L	57"
4L580	8400-2580	4L	58"
4L590	8400-2590	4L	59"
4L600	8400-2600	4L	60"
4L620	8400-2620	4L	62"



# Belts

## Truflex® Light-Duty V-Belts (Continued)

### Series 8400 Truflex® Light-Duty V-Belt

Part #	Mfg #	Cross-Sect Size	Belt O.C.
4L640	8400-2640	4L	64"
4L650	8400-2650	4L	65"
4L660	8400-2660	4L	66"
4L670	8400-2670	4L	67"
4L680	8400-2680	4L	68"
4L690	8400-2690	4L	69"
4L700	8400-2700	4L	70"
4L710	8400-2710	4L	71"
4L730	8400-2730	4L	73"
4L740	8400-2740	4L	74"
4L750	8400-2750	4L	75"
4L760	8400-2760	4L	76"
4L770	8400-2770	4L	77"
4L780	8400-2780	4L	78"
4L790	8400-2790	4L	79"
4L800	8400-2800	4L	80"
4L810	8400-2810	4L	81"
4L820	8400-2820	4L	82"
4L830	8400-2830	4L	83"
4L840	8400-2840	4L	84"
4L850	8400-2850	4L	85"
4L860	8400-2860	4L	86"
4L870	8400-2870	4L	87"
4L880	8400-2880	4L	88"
4L890	8400-2890	4L	89"
4L900	8400-2900	4L	100"
4L910	8400-2910	4L	100"
4L920	8400-2920	4L	92"
4L930	8400-2930	4L	100"
4L940	8400-2940	4L	94"
4L950	8400-2950	4L	100"
4L960	8400-2960	4L	96"
4L970	8400-2970	4L	100"
4L980	8400-2980	4L	98"
4L990	8400-2990	4L	99"
4L1000	8400-2100	4L	100"
5L230	8400-3230	5L	23"
5L240	8400-3240	5L	24"
5L250	8400-3250	5L	25"
5L260	8400-3260	5L	26"
5L270	8400-3270	5L	27"
5L280	8400-3280	5L	28"

## Truflex® Light-Duty V-Belts (Continued)

### Series 8400 Truflex® Light-Duty V-Belt

Part #	Mfg #	Cross-Sect Size	Belt O.C.
5L300	8400-3300	5L	30"
5L310	8400-3310	5L	31"
5L320	8400-3320	5L	32"
5L330	8400-3330	5L	33"
5L340	8400-3340	5L	34"
5L350	8400-3350	5L	35"
5L360	8400-3360	5L	36"
5L370	8400-3370	5L	37"
5L380	8400-3380	5L	38"
5L390	8400-3390	5L	39"
5L400	8400-3400	5L	40"
5L410	8400-3410	5L	41"
5L450	8400-3450	5L	45"
5L470	8400-3470	5L	47"
5L490	8400-3490	5L	49"
5L500	8400-3500	5L	50"
5L510	8400-3510	5L	51"
5L520	8400-3520	5L	52"
5L530	8400-3530	5L	53"
5L540	8400-3540	5L	54"
5L550	8400-3550	5L	55"
5L560	8400-3560	5L	56"
5L570	8400-3570	5L	57"
5L580	8400-3580	5L	58"
5L590	8400-3590	5L	59"
5L600	8400-3600	5L	60"
5L610	8400-3610	5L	61"
5L620	8400-3620	5L	62"
5L630	8400-3630	5L	63"
5L640	8400-3640	5L	64"
5L650	8400-3650	5L	65"
5L660	8400-3660	5L	66"
5L670	8400-3670	5L	67"
5L680	8400-3680	5L	68"
5L690	8400-3690	5L	69"
5L700	8400-3700	5L	70"
5L710	8400-3710	5L	71"
5L720	8400-3720	5L	72"
5L730	8400-3730	5L	73"
5L740	8400-3740	5L	74"
5L750	8400-3750	5L	75"
5L760	8400-3760	5L	76"

# Belts

## Truflex® Light-Duty V-Belts (Continued)

### Series 8400 Truflex® Light-Duty V-Belt

Part #	Mfg #	Cross-Sect Size	Belt O.C.
5L770	8400-3770	5L	77"
5L780	8400-3780	5L	78"
5L790	8400-3790	5L	79"
5L800	8400-3800	5L	80"
5L810	8400-3810	5L	81"
5L830	8400-3830	5L	83"
5L840	8400-3840	5L	84"
5L850	8400-3850	5L	85"
5L860	8400-3860	5L	86"
5L870	8400-3870	5L	100"
5L880	8400-3880	5L	88"
5L890	8400-3890	5L	89"
5L900	8400 -3900	5L	90"
5L910	8400-3910	5L	91"
5L920	8400-3920	5L	92"
5L930	8400-3930	5L	93"
5L940	8400-3940	5L	100"
5L950	8400-3950	5L	95"
5L960	8400-3960	5L	96"
5L970	8400-3970	5L	97"
5L980	8400-3980	5L	98"
5L990	8400-3990	5L	99"
5L1000	8400-3100	5L	100"

## Maintenance Tools

### Pencil Type Tension Tester

- Use with small V-belt and synchronous belt



Part #	Mfg #	Description
TOL01103	7401-0076	30 lb Pencil Type

### Truflex® & PowerRated® Belt Length Finder



Part #	Mfg #	Description
TOL01104	7401-0012	Measures Up to 107" to Determine Equivalent Belt Number





# Blower Fan Motors

## SF™ Blower Motors

### Direct Drive Blower Motor

- Open air over
- Use with 370V Capacitor
- Sleeve bearing



Part #	HP	Volts	RPM
SFMB253SP1V	1/4 hp	115V	1,075
SFMB253SP2V	1/4 hp	208/230V	1,075
SFMB333SP1V	1/3 hp	115V	1,075
SFMB333SP2V	1/3 hp	208/230V	1,075
SFMB503SP1V	1/2 hp	115V	1,075
SFMB503SP2V	1/2 hp	208/230V	1,075
SFMB753SP1V	3/4 hp	115V	1,075
SFMB753SP2V	3/4 hp	208/230V	1,075

### Multi-Horse Power Direct Drive Blower Motor



Part #	HP	Volts	RPM
SFMMH751VB	1/5 - 3/4 hp	115V	1,075
SFMMH752VB	1/5 - 3/4 hp	208/230V	1,075
SFMMH501VB	1/6 - 1/2 hp	115V	1,075
SFMMH502VB	1/6 - 1/2 hp	208/230V	1,075

## Blower Motors

### Direct Drive Blower Motor

- PSC
- 3-Speed
- Sleeve bearing
- 48" Frame



Part #	HP	Volts	RPM
MOT07965	1/4 hp	115V	1,075
MOT07966	1/4 hp	208/230V	1,075
MOT07967	1/3 hp	115V	1,075
MOT07968	1/3 hp	208/230V	1,075
MOT07969	1/2 hp	115V	1,075
MOT07970	1/2 hp	208/230V	1,075
MOT07971	3/4 hp	115V	1,075
MOT07972	3/4 hp	208/230V	1,075

## Multi-HP Direct Drive Blower Motor

- 4-Speed
- Reverse rotation
- 5-3/5" Diameter motor
- 1/2"D x 5"L Shaft



Part #	HP	Volts	RPM
MOT11725	1/6 - 1/2 hp	115V	1,075
MOT11726	1/6 - 1/2 hp	208/230V	1,075
MOT11727	1/6 - 1/3 hp	115V	1,075
MOT11728	1/5 - 3/4 hp	115V	1,075
MOT11729	1/5 - 3/4 hp	208/230V	1,075
MOT11730	1/5 - 1/2 hp	208/230V	1,075
MOT11731	1/6 - 1/3 hp	208/230V	825

## Blower Motors

### Direct Drive Furnace Blower Motor

- Installs with all standard 48 frame mounting brackets
- Standard shaft length, diameter, flats and motor casing size
- Automatic thermal overload protector
- Low power consumption
- Continuous duty, air over
- Uses 370V capacitors
- Ball bearings
- Electrically reversible
- 1,075 rpm, 3-Speed
- Quiet operation
- 1/2" Shaft
- 60Hz
- Class B insulation
- Includes 2-1/2" diameter hub rings



Part #	Mfg #	HP	Volts	Cap Mfd
MOT12677	WG840463	1/6 - 1/2 hp	115V	-
MOT12681	WG840583	1/4 hp	115V	5
MOT12682	WG840584	1/4 hp	208-230V	5
MOT12683	WG840585	1/3 hp	115V	5
MOT12684	WG840586	1/3 hp	208-230V	5
MOT12685	WG840587	1/2 hp	115V	5
MOT12672	WG840588	1/2 hp	208-230V	5
MOT12673	WG840589	3/4 hp	115V	15
MOT12674	WG840590	3/4 hp	208-230V	10
MOT12675	WG840595	1 hp	115V	20
MOT12676	WG840596	1 hp	208-230V	15



# Blower Fan Motors

## Blower Motors

### 5-5/8" Diameter MasterFit® PSC Multi-Horsepower Replacement Motor

- Energy efficient
- Class B insulation
- Reversible
- Extended thru bolts
- Rheem mounting holes in shell
- All purpose capacitor included
- 60Hz



### MasterFit® Pro Stud/Bell Band Mount Direct Drive Fan & Blower Motor

- 40°C Ambient
- 1/2" Diameter x 5" shaft

Part #	Mfg #	HP	Volts	Amps	RPM	Bearing	Capacitor
MOT16841	FD6000	1/2, 1/3, 1/4, 1/5, 1/6 hp	208-230V	3.9, 3.6, 2.5, 1.8, 1.3A	1,075/1	Sleeve	10/5/7.5mfd
MOT16843	FDL6001	1/2, 1/3, 1/4, 1/5, 1/6 hp	115V	7.0, 6.7, 4.4, 3.2, 2.4A	1,075/1	Sleeve	10/5/7.5mfd
MOT16840	FD6001	3/4, 1/2, 1/3, 1/4, 1/5 hp	208-230V	3.9, 3.6, 3.0, 2.3, 2.0A	1,075/1	Ball	10/5/7.5mfd
MOT16842	FDL6002	3/4, 1/2, 1/3, 1/4, 1/5 hp	115V	9.1, 6.8, 5.5, 3.0, 2.3A	1,075/1	Ball	10/5/7.5mfd

## Fan Coil Unit Motors

### 5-5/8" Diameter PSC OAO Standard Efficiency Double-Shaft Fan Coil Blower

- Continuous duty, air over
- Auto protector
- Lead reversible
- Class B insulation
- Sleeve bearing
- 40°C Ambient (unless otherwise noted)
- 48 Frame
- 2-1/4" Rings with 2-1/2" adapters included
- 26" Leads
- Capacitor not included
- 60Hz only



Part #	Mfg #	HP	Volts	Amps	RPM/Speed	Capacitor	Notes
MOT16829	DL1026	1/4 hp	115V	3.5-4.6A	1,075/3	5mfd/370V	-
MOT16833	D1026	1/4 hp	208-230V	1.8-2.2A	1,075/3	5mfd/370V	-
MOT16830	DL1036	1/3 hp	115V	4.9-6.4A	1,075/3	7.5mfd/370V	-
MOT16834	D1036	1/3 hp	208-230V	2.6-3.1A	1,075/3	5mfd/370V	-
MOT16831	DL1056	1/2 hp	115V	6.5-9.0A	1,075/3	10mfd/370V	-
MOT16835	D1056	1/2 hp	208-230V	6.5-9.0A	1,075/3	7.5mfd/370V	-
MOT16832	DL1076	3/4 hp	115V	8.9-10.3A	1,075/3	15mfd/370V	90
MOT16836	D1076	3/4 hp	208-230V	4.0-5.0A	1,075/3	10mfd/370V	-

**Note 90 = 50°C Ambient**



Don't see what you are looking for? We carry thousands of other items. Check with your local parts center.

# Blower Fan Motors

## Belted Fan & Blower Motors

### Split-Phase ODP Resilient Base Belted Fan & Blower



- For use with belted fans and blowers
- Class B insulation unless otherwise noted
- Threaded conduit hole
- Reversible rotation by easy reconnection
- Automatic thermal overload protector
- Single and 2-speed
- Ball bearings
- Average shaft 0.5 x 1.5 (except where noted)



Part #	Mfg #	HP	Voltage	RPM	Frame	Amps	Notes
MOT06144	8000	1/4 hp	115V	1,800	48	5.9A	61, 77, 78, 79
MOT06149	8100	1/3 hp	115V	1,800	48	6.4A	61, 77, 78, 79
MOT06153	8200	1/2 hp	115V	1,800	48	8.7A	61, 77, 78, 79

Note 61 Sleeve bearings

Note 77 With shaft adapter for 5/8" shaft

Note 78 Class B insulation

Note 79 Combination mounting holes for NEMA 48 & 58 frame dimensions

## Direct Drive Fan & Blower Motors

### 5.6" Dia PSC OAO Direct Drive Fan & Blower Motor



- Stud, hub ring, belly band mounting
- Continuous duty, air over
- Automatic reset thermal overload protector
- Reversible
- Class B insulation
- Self-aligning bearings have all angle thrust system
- 24" Leads
- Designed for use with 370V capacitors (not included)
- Connection and capacitor information furnished in nameplate data
- 2.5" Diameter hub rings included
- Stud extensions on popular models



Part #	Mfg #	HP	Voltage	RPM	Capacitor	Amps	-
MOT06110	1971	1/4 hp	208-230V	1,075/3	5mfd/370V	1.5A	



# Blower Fan Motors

## Permanent Split Capacitor Direct Drive Fan & Blower Motors

### 5.6" Diameter PSC OAO Hub Ring Mount 3-Speed Direct Drive Fan & Blower Motor

- For use with direct drive fan and blowers
- For use with 370V capacitors
- 2.5" Diameter hub rings included
- Continuous duty, air over
- Reversible rotation
- 24" Leads
- Automatic reset thermal overload protector
- 2-1/2" Diameter hub rings included



Part #	Mfg #	HP	Voltage	RPM/Speed	Frame	Full Load Amps	Notes
MOT06109	1863	1/4 hp	115V	1,075/3	48Y	3.9A	62, 78
MOT06114	1864	1/3 hp	115V	1,075/3	48Y	5.0A	62, 78
MOT06119	1865	1/2 hp	115V	1,075/3	48Y	7.4A	62
MOT06120	1973	1/2 hp	208-230V	1,075/3	48Y	3.3A	62, 78
MOT06115	1972	1/3 hp	208-230V	1,075/3	48Y	2.4A	62, 78
MOT09415	8904	3/4 hp	115V	1,075/3	48Y	9.1A	3
MOT09416	8905	3/4 hp	208-230V	1,075/3	48Y	4.0A	3

Note 3 No Stud Extension  
 Note 62 Not Economizer®  
 Note 78 Class B insulation

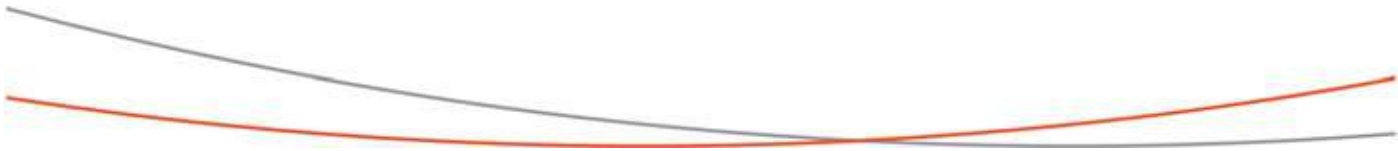
## RESCUE™ Permanent Split Capacitor Blower Motors

### 5.6" Diameter PSC OAO Rescue Direct Drive Fan & Blower Motor

- High efficiency for commercial and residential air handlers and furnaces
- Can replace a range of horsepower applications and a variety of mounting styles
- Designed for use with 370V capacitors
- Class B insulation
- Extended mounting studs
- Includes side shell holes for Rheem units
- Continuous duty, air over
- Multi-HP
- Automatic thermal overload protector
- 36" Leads
- Ball bearing
- Reversible rotation
- 2.5" Diameter hub rings included



Part #	Mfg #	HP	Voltage	RPM	Amps
MOT09985	5460	1/6, 1/5, 1/4, 1/3, 1/2 hp	208-230V	1,075	2.8, 3.6, 5.5, 6.9, 7.3A
MOT09986	5461	1/6, 1/5, 1/4, 1/3, 1/2 hp	208-230V	1,075	1.3, 1.9, 2.8, 3.5, 3.6A
MOT10274	5470	1/5, 1/4, 1/3, 1/2, 3/4 hp	208-230V	1,075	3.1, 3.8, 4.6, 6.6, 8.1A
MOT10275	5471	1/5, 1/4, 1/3, 1/2, 3/4 hp	208-230V	1,075	1.7, 1.8, 2.5, 3.7, 3.8A



Don't see what you are looking for? We carry thousands of other items. Check with your local parts center.

# Blower Fan Motors



## 5.6" Diameter Rescue EcoTech™ High Efficient Direct Drive Blower Motor

- For drop-in replacement PSC direct drive commercial and residential air handlers and furnaces
- Electronically controlled brushless permanent magnet motor
- 40°C Ambient rated
- Reversible rotation
- 48 Frame
- No capacitor required
- Electronically protected motor
- Continuous duty, air over
- Ball bearing
- Class B insulation
- 36" Leads
- 2-Year warranty



Part #	Mfg #	HP	Voltage	RPM	Frame	Amps
MOT14363	5522ET	1/3 & 1/5 hp	115/208-230V	1,075	48Y	4.0, 3.0-2.6A
MOT14364	5532ET	1/2 & 1/4 hp	115/208-230V	1,075	48Y	5.9, 4.6-3.9A
MOT14365	5542ET	3/4 & 1/3 hp	115/208-230V	1,075	48Y	8.1, 6.1-5.2A
MOT14366	5552ET	1 & 1/2 hp	115/208-230V	1,075	48Y	11.0, 8.0-7.0A





# Condenser Fan Motors

## SF™ Condenser Fan Motors

### Condenser Fan Motor

- 140° Ambient
- Totally enclosed air over
- Sleeve bearing
- Use with 370V capacitor
- Continuous duty



Part #	HP	Volts	RPM
SFMC161SP2V	1/6 hp	208/230V	1,075
SFMC161SP2V8	1/6 hp	208/230V	825
SFMC251SP2V	1/4 hp	208/230V	1,075
SFMC251SP2V8	1/4 hp	208/230V	825
SFMC331SP2V	1/3 hp	208/230V	1,075
SFMC331SP2V8	1/3 hp	208/230V	825
SFMC501SP2V	1/2 hp	208/230V	1,075
SFMC751SP2V	3/4 hp	208/230V	1,075

### Multi-Horse Power Direct Drive Condenser Fan Motor



Part #	HP	Volts	RPM
SFMMH332V8	1/6 - 1/3 hp	208/230V	825
SFMMH332V	1/6 - 1/3 hp	208/230V	1,075
SFMMH502V	1/5 - 1/2 hp	208/230V	1,075

## Condenser Motors

### Condenser Fan Motor

- PSC
- Totally enclosed
- 48" Frame



### Ball Bearing

Part #	HP	Volts	RPM
MOT10130	1/6 hp	208/230V	825
MOT10131	1/4 hp	208/230V	825
MOT10132	1/3 hp	208/230V	825
MOT07964	3/4 hp	208/230V	1,075

### Sleeve Bearing

Part #	HP	Volts	RPM
MOT10141	1/6 hp	208/230V	1,075
MOT07961	1/4 hp	208/230V	1,075
MOT07962	1/3 hp	208/230V	1,075
MOT07963	1/2 hp	208/230V	1,075

## Condenser Motors

### Condenser Fan Motor

- Installs with all standard 48 frame mounting brackets
- Shaft: 1/2" diameter x 3-5/8" long, one side flat
- Automatic thermal overload
- Permanent split capacitor
- Mount up, down or with belly band
- 39 Frame size
- Ball bearings
- CW/CCW Rotation (electrically reversible)
- 60°C Ambient
- 60Hz



Part #	Mfg #	HP	Volts	RPM
MOT12689	WG840727	1/6 hp	208-230V	1,075
MOT12649	WG840728	1/4 hp	208-230V	1,075
MOT12690	WG840729	1/3 hp	208-230V	1,075
MOT12691	WG840730	1/2 hp	208-230V	1,075
MOT12692	WG840731	3/4 hp	208-230V	1,075
MOT13218	WG840204	1/4 hp	208-230V	825
MOT13219	WG840205	1/3 hp	208-230V	825

### Multi-Horsepower Motor

- Installs with all 48 frame mounting brackets
- Reversible plugs
- Extended thru bolts
- 36" Leads
- Designed for 370V capacitors
- 1/2" Shaft



Part #	Mfg #	HP	Volts	RPM
MOT12678	WG840464	1/6 - 1/2 hp	208-230V	1,075
MOT12686	WG840465	1/6 - 1/3 hp	208-230V	1,075
MOT12679	WG840466	1/5 - 3/4 hp	115V	1,075
MOT12680	WG840467	1/5 - 3/4 hp	208-230V	1,075
MOT12687	WG840468	1/5 - 1/2 hp	208-230V	1,075
MOT12688	WG840469	1/6 - 1/3 hp	208-230V	825



# Condenser Fan Motors

## Fan Motors

### 5-5/8" Diameter PSC Totally Enclosed Condenser, Heat Pump, Refrigeration Motor

- Auto protector
- Energy efficient
- All angle mount
- Reversible
- 1/2" Diameter flatted shaft
- 26" to 48" Leads
- Extended thru bolts
- 6 and 8-Pole
- 60Hz



#### "Turn-a-bout" - Class B Insulation - 60°C Ambient - less Capacitor

Part #	Mfg #	HP	Volts	Amps	RPM/Speed	Bearings	Capacitor	Notes
MOT16821	FSE1016SV1	1/6 hp	208-230V	1.1A	1,075/1	Sleeve	5mfd/370V	9, 281, 308, \$
MOT16822	FSE1026SV1	1/4 hp	208-230V	2.0A	1,075/1	Sleeve	5mfd/370V	9, 281, 308, \$
MOT16823	FSE1036SV1	1/3 hp	208-230V	2.7A	1,075/1	Sleeve	7.5mfd/370V	9, 281, 308, \$
MOT16824	FSE1056SV1	1/2 hp	208-230V	4.2A	1,075/1	Sleeve	10mfd/370V	9, 281, 308, \$
MOT16825	FSE1076SV1	1/2 hp	208-230V	5.2A	1,075/1	Sleeve	15mfd/370V	9, 281, 308, \$

Note 9 = Reversing plug

Note 281 = 36" Leads

Note 308 = 1/2" Hub on shaft end frame with slinger - grommet on lead exits

\$ = Energy efficient (2) value capacitor start

#### "Turn-a-bout" - Class F Insulation - 70°C Ambient - less Capacitor

Part #	Mfg #	HP	Volts	Amps	RPM/Speed	Bearings	Capacitor	Notes
MOT16826	FSE1018SF	1/6 hp	208-230V	1.1A	825/1	Sleeve	5mfd/370V	-
MOT16827	FSE1028SF	1/4 hp	208-230V	1.5A	825/1	Sleeve	5mfd/370V	40, 370, \$
MOT16828	FSE1038SF	1/3 hp	208-230V	2.1A	825/1	Sleeve	7.5mfd/370V	40, 370, \$

Note 40 = (4) Mounting holes in shell

Note 370 = 48" Leads

\$ = Energy efficient (2) value capacitor start



# Condenser Fan Motors

## Condenser Fan Motors

### 5-5/8" Diameter MasterFit® PSC Multi-Horsepower Replacement Motor

- Energy efficient
- Class B insulation
- Reversible
- Extended thru bolts
- Rheem mounting holes in shell
- All purpose capacitor included
- 60Hz



### MasterFit® Pro Totally Enclosed Condenser Fan Motor

- 70°C Ambient
- Class "F" insulation
- Shaft dimension 1/2" x 6-1/2"

Part #	Mfg #	HP	Volts	Amps	RPM	Bearing	Capacitor
MOT16838	FE6001F	1/3,1/4,1/5,1/6 hp	208-230V	1.9, 1.5, 1.2, 1.0A	825	Ball	10,7.5mfd/370V
MOT16837	FE6000F	1/3,1/4,1/5,1/6 hp	208-230V	2.6, 2.5, 2.0, 1.8A	1,075	Ball	7.5,5mfd/370V
MOT16839	FE6002F	1/2,1/3,1/4,1/5 hp	208-230V	3.8, 2.2, 1.6, 1.3A	1,075	Ball	12.5,10mfd/370V

### 5-5/8" Diameter PSC Totally Enclosed 4-in-1® Multi-Horsepower Condenser Fan Motors

- All angle mount
- Reversible
- 48Y Frame
- Removable drain plugs each end
- 36" or 48" Leads
- Rheem mounting holes (screws included)
- (1) Simple connection and 7.5MFD 370V capacitor is all that is needed
- Replaces hundreds of 1/8 - 1/3 hp applications
- UL Listed
- CSA Certified®



### Class F insulation - 70°C Ambient - Deluxe Model Fan Motor

Part #	Mfg #	HP	Volts	Amps	RPM/Speed	Bearings	Capacitor	Notes
MOT13203	ORM5458F	1/3-1/6 hp	208-230V	2.1A	1,075/1	Sleeve	7.5mfd/370V	\$

\$ = Energy efficient



# Condenser Fan Motors

## Commercial Condenser Fan Motors

### 3-Phase ODP Belly Band Mount Commercial Condenser Fan Motor



- Flat and keyway on shaft
- Shaft up mounting
- 60°C Ambient
- Designed for use in 5 - 15 ton and larger commercial air conditioning where 3-phase is required
- Automatic thermal overload protector
- Reversible rotation
- Continuous duty, air over
- Double shielded ball bearings
- Class B insulation
- 56 Frame .625" shaft diameter



Part #	Mfg #	HP	Voltage	RPM	Frame	Amps
MOT10165	1828	1 hp	208-230/460V	850	56YZ	5.0/2.5A
MOT06076	1818	1 hp	208-230/460V	1,140	56YZ	4.8/2.4A
MOT06077	1819	1-1/2 hp	208-230/460V	1,140	56YZ	6.4/3.2A

### 3-Phase ODP Rigid Base Mount Quick Voltage Change Commercial Condenser Fan Motor



- Designed for use in 5-15 ton and larger commercial air conditioning where three phase is required
- Quick voltage change device
- Air over not required
- Automatic thermal overload protector
- Reversible rotation
- Continuous duty, air over
- Double shielded ball bearings
- CW Lead end
- 40°C Ambient, quick charge device
- Class B insulation
- Dual voltage



Part #	Mfg #	HP	Voltage	RPM	Hertz	Amps	Notes
MOT06071	1813	1 hp	208-230/460V	1,725	60/50Hz	3.4/1.7A	-
MOT06072	1814	1-1/2 hp	208-230/460V & 190/380V	1,725	60/50Hz	5.0/2.5A & 5.2/2.6A	H12

**Note H12 = Base has holes for 56 & 56H**



# Condenser Fan Motors

## 3-Phase ODP Rigid Base Mount Commercial Condenser Fan Motor

- 60°C Ambient
- Continuous duty, air over
- Class B insulation
- Reversible
- Double sealed ball bearings
- Dual voltage
- Shaft-up mounting
- Flat and keyway on shaft



Part #	Mfg #	HP	Voltage	RPM	Frame	Amps
MOT10167	1820	1 hp	208-230/460V	1,140	56YZ	4.0/2.0A
MOT10169	1822	2 hp	208-230/460V	1,140	56YZ	7.8/3.9A

## OEM Replacement Condenser Fan Motors

### 5.6" Diameter OEM Replacement Commercial and Refrigeration Condenser Fan Motor

- For use commercial condensing unit fans
- Single-speed
- Automatic reset thermal overload protector



6124



Part #	Mfg #	HP	Voltage	RPM	Mount	Amps	Notes
MOT06297	1645	1/6 hp	208-230V	1,550	Stud	1.4A	-
MOT06286	6124	1/4 hp	230V	1,550	Band	2.1A	61
MOT10234	6129	1/4 hp	208-230V	1,625	Resilient	1.5A	61
MOT06296	7232	1/3 hp	208-230V	1,625	Resilient	2.9A	61

Note 61 = Self-Aligning Bearing

### 5.6" Diameter OEM PSC Direct Condenser Fan Motor Replacement: Rheem®

- 51" Leads
- Totally enclosed air over
- Four holes and screws supplied in shell
- Four 8-32 studs opposite shaft end, single flat on 1/2" diameter shaft
- Reversible rotation
- Automatic reset thermal overload protector
- Sleeve bearings



Part #	Mfg #	HP	Voltage	RPM	Amps
MOT06314	5456	1/8 hp	208-230V	825	1.2A
MOT06315	5457	1/6 hp	208-230V	825	1.2A
MOT06312	5454	1/5 hp	208-230V	1,075	1.7A
MOT06313	5455	1/3 hp	208-230V	1,075	2.0A



Don't see what you are looking for? We carry thousands of other items. Check with your local parts center.

# Condenser Fan Motors

## Permanent Split Capacitor Commercial Condenser Fan Motors

### 5.6" Diameter PSC TEAO All-Angle Mounting Condenser Fan Motor



- For use with commercial condenser fans
- 2-1/4" Hub ring mount
- Capacitor and outlet box included (unless noted)
- Reversible rotation
- Double shielded ball bearings
- Continuous duty, air over
- Dual voltage
- Automatic reset thermal overload protector
- Shaft dimensions: 0.5"Dia x 5.0"L (unless noted)

Part #	Mfg #	HP	Voltage	RPM	Frame	Amps	Notes
MOT06061	6727	1/3 hp	208-230/460V	1,075	45	2.4/1.2A	-
MOT10161	2201	1/2 hp	208-230/460V	1,075	48	3.2-3.1/1.6A	67
MOT06062	7475	1/2 hp	208-230/460V	1,075	48Y	2.8/1.4A	-
MOT10162	2202	3/4 hp	208-230/460V	1,075	48	4.6/2.3A	66, 67
MOT06064	6603	3/4 hp	208-230/460V	1,075	48	5.0/2.5A	-

Note 66 = No outlet box, includes leads

Note 67 = Capacitor not included, internal conduit box

### 6.3" Diameter PSC OAO All-Angle Mounting Resilient Base Condenser Fan Motor



- For use with commercial condenser fans
- Reversible rotation
- Double shielded ball bearings
- Continuous duty, air over
- 40°C Ambient
- Class B insulation
- Automatic reset thermal overload protector
- Shaft dimensions: 0.625"Dia x 6.0"L

Part #	Mfg #	HP	Voltage	RPM	Frame	Amps
MOT06065	2686	1 hp	208-230/460V	1,075	56Z	5.1/2.6A

### 6.5" Diameter PSC ODP All-Angle Mount Condenser Fan Motor

- Hub or stud mount with 5/8" shaft

Part #	Mfg #	HP	Voltage	RPM	Capacitor	Amps	Notes
MOT06067	3568	1/2 hp	208-230/460V	825	10mfd/370V	3.6A	65, 66, H15
MOT06068	3566	3/4 hp	208-230/460V	1,075	15mfd/370V	3.8A	66
MOT06070	3565	1 hp	208-230V	1,075	17.5mfd/370V	5.2A	65, 66, H15
MOT10164	2204	1-1/2 hp	208-230/460V	1,075	20mfd/370V	7.6/3.8A	67

Note 65 = Ventilated (in wet applications, position vent holes at bottom of motor)

Note 66 = No outlet box, includes leads

Note 67 = Capacitor not included, internal conduit box

Note H15 = Capacitor not included



# Condenser Fan Motors

## 6.3" Diameter PSC TEAO All-Angle Mounting Condenser Fan Motor



- For use with commercial condenser fans
- Reversible rotation
- Double shielded ball bearings
- Continuous duty, air over
- 40°C Ambient
- Class B insulation
- Automatic reset thermal overload protector
- Shaft dimension: 0.625" Dia x 6.0"L



Part #	Mfg #	HP	Voltage	RPM	Frame	Amps	Notes
MOT10163	2203	1 hp	208-230/460V	1,075	56YZ	5.5-5.1/2.6A	67

Note 67 = Capacitor not included, internal conduit box

## Permanent Split Capacitor Condenser Fan Motors

### 5.0" Diameter PSC OAO Condenser Fan Motor less Capacitor



- Sleeve bearings have all angle thrust system
- Designed for use with 370V capacitors
- Continuous duty, air over
- 24" Line leads unless otherwise noted
- Reversible
- Automatic reset thermal overload protector
- Connection and capacitor information furnished in the nameplate data



Part #	Mfg #	HP	Voltage	RPM	Frame	Amps
MOT06107	1268	1/5 hp	115V	1,075	42Y	3.4A

### 5.6" Diameter PSC ODP Hub Ring Mount Condenser Fan Motor less Capacitor



- For use with condenser fans or 370V capacitors
- High efficiency Economizer® rated
- 60Hz, Continuous duty, air over
- Capacitor mounting holes in frame band
- Water slinger
- Automatic reset thermal overload protector
- Shaft dimensions: 0.5" Dia x 6.0"L
- Reversible rotation
- Class B insulation
- Extended studs - 1.0"
- 20" or 30" Leads
- Double flats on shaft (Economizer® models)
- Enclosed end shield at shaft end
- Ball bearings
- 2-1/4" Hub ring mount



Part #	Mfg #	HP	Voltage	RPM	Frame	Amps
MOT06027	7040	1/3 hp	208-230V	825	48	2.7A
MOT06028	7041	1/2 hp	230V	825	48	2.8A

# Condenser Fan Motors

## 5.6" Diameter PSC ODP Resilient Base Condenser Fan Motor with Capacitor



- Shaft up or horizontal
- For use with condenser cooling fans
- For use with 370V capacitors
- 60Hz, Continuous duty, air over
- 20" or 30" Leads
- Sleeve bearings have all angle thrust system
- Capacitor mounting holes in frame band
- Reversible rotation
- Enclosed end shield at shaft end
- Class B insulation
- Water slinger
- High efficiency Economizer® rated (except when noted)
- Automatic reset thermal overload protector

Part #	Mfg #	HP	Voltage	RPM	Frame	Amps	Notes
MOT06017	3846	1/4 hp	230V	1,075	-	1.9A	61, 62
MOT06018	4811	1/3 hp	230V	1,625	-	1.8A	61
MOT06019	4961	1/3 hp	230V	1,625	48Y	1.8A	62
MOT06020	3847	1/3 hp	230V	1,075	-	2.2A	61
MOT06021	4960	1/3 hp	230V	1,075	48Y	2.2A	-
MOT06023	3848	1/2 hp	230V	1,075	48Z	3.1A	61

Note 61 = Sleeve bearings  
 Note 62 = Not Economizer®

## 5.6" Diameter PSC ODP Stud-Mount Condenser Fan Motor less Capacitor



- Shaft up or horizontal
- For use with condenser fans
- For use with 370V capacitors
- Ball bearings except where noted
- High efficiency Economizer® rated (except when noted)
- Capacitor mounting holes in frame band
- Reversible rotation
- Class B insulation
- Water slinger
- 60Hz, Continuous duty, air over
- Automatic reset thermal overload protector

Part #	Mfg #	HP	Voltage	RPM	Frame	Amps	Notes
MOT06002	3851	1/4 hp	208-230V	1,075	48Y	1.7A	61, 62
MOT06003	8666	1/4 hp	230V	825	48Y	1.9A	-
MOT06009	3852	1/2 hp	208-230V	1,075	48Y	3.1A	61, 62
MOT06007	6880	1/3 hp	208-230V	1,075	48Y	2.5-2.2A	61, 62

Note 61 = Sleeve bearings  
 Note 62 = Not Economizer®





# Condenser Fan Motors

## 5.6" Diameter PSC TEAO High Ambient All-Angle Mount Condenser Fan Motor less Capacitor



- 60°C Ambient design
- Stud and all angle mount
- Sleeve bearings have all angle thrust system
- Class B insulation
- Extended studs
- Designed for 370V capacitors
- Automatic thermal overload protector
- 30" Leads with hubless lead end
- Drain holes on both ends
- Auto reset thermal overload protector
- Reversible



Part #	Mfg #	HP	Voltage	RPM	Frame	Amps	Notes
MOT06036	1872	1/8 hp	208-230V	825	48Y	0.8A	61, 72
MOT06037	1873	1/6 hp	208-230V	825	48Y	1.2A	61, 72
MOT10143	1859	1/6 hp	208-230V	1,075	48Y	1.1A	61
MOT10245	5450	1/5 hp	208-230V	1,075	48Y	1.3A	61, 72
MOT06039	1874	1/4 hp	208-230V	825	48Y	2.0A	61, 72
MOT10146	8674	1/4 hp	208-230V	825/2	48Y	1.5A	-
MOT10145	1880	1/4 hp	460V	825	48Y	1.0A	-
MOT06038	1860	1/4 hp	208-230V	1,075	48Y	1.7A	61
MOT10147	1876	1/4 hp	208-230V	1,075	48Y	1.7A	-
MOT10148	3736	1/4 hp	460V	1,075	48Y	0.8A	-
MOT10149	1890	1/4 hp	208-230V	1,625	48Y	1.4A	61
MOT10067	1875	1/3 hp	208-230V	825	48Y	2.4A	61, 72
MOT10150	1881	1/3 hp	460V	825	48Y	1.0A	-
MOT10151	8675	1/3 hp	208-230V	825/2	48Y	2.0A	-
MOT06045	8670	1/3 hp	208-230V	1,075	45	2.2A	-
MOT06040	1861	1/3 hp	208-230	1,075	48Y	2.0A	-
MOT13921	3323	1/3 & 1/6 hp	208-230V	1,075	48Y	2.0A	-
MOT10154	1891	1/3 hp	208-230V	1,625	48Y	1.9A	61
MOT11763	1870	1/2 hp	208-230V	825	48Y	2.8A	61
MOT10155	1882	1/2 hp	460V	825	48Y	1.6A	-
MOT10153	3737	1/3 hp	460V	1,075	48Y	1.3A	-
MOT06041	1862	1/2 hp	208-230V	1,075	48Y	3.0A	61
MOT06047	8671	1/2 hp	208-230V	1,075	48Y	2.9A	-
MOT10158	1892	1/2 hp	208-230V	1,626	48Y	3.0A	61
MOT10157	3738	1/2 hp	460V	1,075	48Y	1.5A	-
MOT06042	1868	3/4 hp	208-230V	1,075	48Y	4.5A	61
MOT10159	1879	3/4 hp	208-230V	1,075	48Y	4.7A	-
MOT10160	3742	3/4 hp	460V	1,075	48Y	2.0A	-

Note 61 = Sleeve bearings

Note 72 = Includes 4 holes in shell for Rheem mount



# Condenser Fan Motors

## RESCUE™ Permanent Split Capacitor Condenser Fan Motors

### 5.6" Diameter PSC TEAO Rescue Condenser Fan Motor

- High efficiency for commercial and residential condensing units
- Designed for use with 370V capacitors
- 60°C Ambient
- Continuous duty, air over
- Special treated rotor for corrosion protection
- Includes lead end mounting holes for Rheem or Trane units
- Can replace a range of horsepower applications and a variety of mounting styles
- Extended mounting studs
- Automatic thermal overload protector
- 48" Leads
- Ball bearings
- Reversible rotation



Part #	Mfg #	HP	Voltage	RPM	Amps
MOT09987	5462	1/6, 1/5, 1/4, 1/3 hp	208-230V	1,075	1.8, 2.0, 2.5, 2.6A
MOT11099	5464	1/6, 1/5, 1/4, 1/3 hp	208-230V	825	1.0, 1.2, 1.5, 1.9A
MOT11100	5465	1/5, 1/4, 1/3, 1/2 hp	208-230V	1,075	1.3, 1.6, 2.2, 3.0A



# ECM Motors

## Genteq® Evergreen® Motors

### Genteq® Evergreen® AH Multi-Horsepower Motor

- Replaces factory PSC air-handler motors
- 208-230VAC, Non-reversible
- Use with any air handler including package systems that do not incorporate fossil fuel
- Integrates with HVAC system controls/operation
- 4-Speed selections for heating and cooling
- Constant fan speed
- 2-Year warranty



Part #	Mfg #	HP	Volts	Amps	RPM/Speed	Rot
MOT13014	6001	1/2 hp	208-230V	4.1A	1,075/1	CCW
MOT13016	6002	1/2 hp	208-230V	4.1A	1,075/1	CW
MOT13015	6003	1 hp	208-230V	7.6A	1,075/1	CCW
MOT13017	6004	1 hp	208-230V	7.6A	1,075/1	CW

### Genteq® Evergreen® IM Multi-Horsepower Motor

- High-efficiency PSC motor replaces factory blower motors in HVAC systems less than 5 tons
- Multi-volt 115/230VAC and reversible rotation
- Integrated with HVAC system controls/operation
- 4-Speed selections for heating and cooling
- Constant fan speed
- 2-Year warranty



Part #	Mfg #	HP	Volts	Amps	RPM/Speed	Rot	Diameter
MOT12909	6005	1/2 hp	115-230V	6.7/4.0A	1,070/1-5	Rev	6.34"
MOT12910	6010	1 hp	115-230V	11.0/637A	1,070/1-5	Rev	7.84"



# General Purpose Motors

## 3-Phase Industrial Duty Motors

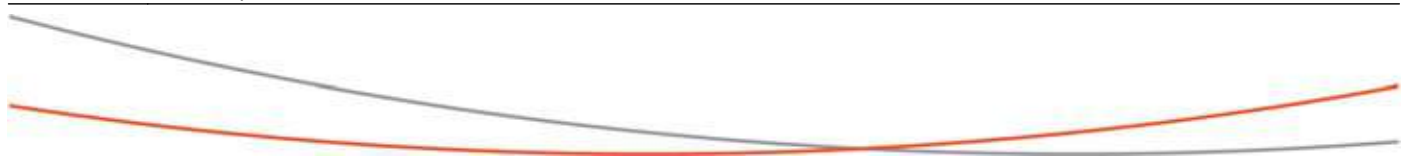
### General Purpose 3-Phase TEFC Motor

- Rigid base
- Class F insulation system
- Inverter duty
- Ambient temperature: 40°C
- Frequency: 60Hz



TE191

Part #	HP	Volts	Amps	RPM/Speed	Rot	Notes
TE104	1 hp	200V	3.1A	1,800	Rev	143T Frame
TE100	1 hp	208-230/460V	3.5-3.2/1.6A	1,200	Rev	143T Frame
TE102	1 hp	208-230/460V	3.0-2.7/1.4A	1,800	Rev	143T Frame
TE101	1 hp	575V	1.3A	1,200	Rev	143T Frame
TE103	1 hp	575V	1.1A	1,800	Rev	143T Frame
TE107	1-1/2 hp	200V	4.5A	1,800	Rev	145T Frame
TE105	1-1/2 hp	208-230/460V	5.1-4.6/2.3A	1,200	Rev	182T Frame
TE108	1-1/2 hp	208-230/460V	4.3-3.9/2.0A	1,800	Rev	145T Frame
TE110	1-1/2 hp	208-230/460V	4.3-3.9/1.9A	3,600	Rev	143T Frame
TE106	1-1/2 hp	575V	1.9A	1,200	Rev	182T Frame
TE109	1-1/2 hp	575V	1.6A	1,800	Rev	145T Frame
TE111	1-1/2 hp	575V	1.6A	3,600	Rev	143T Frame
TE114	2 hp	200V	5.8A	1,800	Rev	145T Frame
TE112	2 hp	208-230/460V	6.6-6.0/3.0A	1,200	Rev	184T Frame
TE115	2 hp	208-230/460V	5.6-5.1/2.5A	1,800	Rev	145T Frame
TE117	2 hp	208-230/460V	5.5-5.0/2.5A	3,600	Rev	145T Frame
TE113	2 hp	575V	2.4A	1,200	Rev	184T Frame
TE116	2 hp	575V	2.0A	1,800	Rev	145T Frame
TE118	2 hp	575V	2.0A	3,600	Rev	145T Frame
TE123	3 hp	200V	8.9A	1,800	Rev	182T Frame
TE119	3 hp	208-230/460V	9.6-8.7/4.4A	1,200	Rev	213T Frame
TE121	3 hp	208-230/460V	8.6-7.7/3.9A	1,800	Rev	182T Frame
TE124	3 hp	208-230/460V	8.4-7.6/3.8A	3,600	Rev	182T Frame
TE120	3 hp	575V	3.5A	1,200	Rev	213T Frame
TE122	3 hp	575V	3.1A	1,800	Rev	182T Frame
TE125	3 hp	575V	3.0A	3,600	Rev	182T Frame
TE128	5 hp	200V	15.0A	1,800	Rev	184T Frame
TE126	5 hp	208-230/460V	16.0-14.0/7.1A	1,200	Rev	215T Frame
TE129	5 hp	208-230/460V	14.0-13.0/6.4A	1,800	Rev	184T Frame
TE131	5 hp	208-230/460V	14.0-12.0/6.2A	3,600	Rev	184T Frame
TE127	5 hp	575V	5.7A	1,200	Rev	215T Frame
TE130	5 hp	575V	5.1A	1,800	Rev	184T Frame
TE132	5 hp	575V	4.9 A	3,600	Rev	184T Frame
TE135	7-1/2 hp	200V	22.0A	1,800	Rev	213T Frame
TE133	7-1/2 hp	208-230/460V	23.0-21.0/10.0A	1,200	Rev	254T Frame



# General Purpose Motors

## 3-Phase Industrial Duty Motors (Continued)

### General Purpose 3-Phase TEFC Motor

Part #	HP	Volts	Amps	RPM/Speed	Rot	Notes
TE136	7-1/2 hp	208-230/460V	21.0-19.0/9.6A	1,800	Rev	213T Frame
TE138	7-1/2 hp	208-230/460V	20.0-19.0/9.2A	3,600	Rev	213T Frame
TE134	7-1/2 hp	575V	8.2A	1,200	Rev	254T Frame
TE137	7-1/2 hp	575V	7.4A	1,800	Rev	213T Frame
TE139	7-1/2 hp	575V	7.4A	3,600	Rev	213T Frame
TE142	10 hp	200V	28.3A	1,800	Rev	215T Frame
TE140	10 hp	208-230/460V	30.0-27.0/14.0A	1,200	Rev	256T Frame
TE143	10 hp	208-230/460V	27.0-25.0/12.0A	1,800	Rev	215T Frame
TE145	10 hp	208-230/460V	26.0-24.0/12.0A	3,600	Rev	215T Frame
TE141	10 hp	575V	11.0A	1,200	Rev	256T Frame
TE144	10 hp	575V	9.8A	1,800	Rev	215T Frame
TE146	10 hp	575V	9.4A	3,600	Rev	215T Frame
TE151	15 hp	200V	42.6A	1,800	Rev	254T Frame
TE147	15 hp	208-230/460V	44.0-40.0/20.0A	1,200	Rev	284T Frame
TE149	15 hp	208-230/460V	41.0-37.0/19.0A	1,800	Rev	254T Frame
TE153	15 hp	208-230/460V	38.0-35.0/18.0A	3,600	Rev	254T Frame
TE148	15 hp	575V	16.0A	1,200	Rev	284T Frame
TE150	15 hp	575V	15.0A	1,800	Rev	254T Frame
TE152	15 hp	575V	14.0A	3,600	Rev	254T Frame
TE156	20 hp	200V	55.8A	1,800	Rev	256T Frame
TE154	20 hp	208-230/460V	58.0-52.0/26.0A	1,200	Rev	286T Frame
TE157	20 hp	208-230/460V	54.0-49.0/24.0A	1,800	Rev	256T Frame
TE159	20 hp	208-230/460V	51.0-46.0/23.0A	3,600	Rev	256T Frame
TE155	20 hp	575V	21.0A	1,200	Rev	286T Frame
TE158	20 hp	575V	19.0A	1,800	Rev	256T Frame
TE160	20 hp	575V	18.0A	3,600	Rev	256T Frame
TE163	25 hp	200V	69.0A	1,800	Rev	284T Frame
TE161	25 hp	208-230/460V	73.0-66.0/33.0A	1,200	Rev	324T Frame
TE164	25 hp	208-230/460V	67.0-60.0/30.0A	1,800	Rev	284T Frame
TE166	25 hp	208-230/460V	63.0-57.0/28.0A	3,600	Rev	284TS Frame
TE162	25 hp	575V	26.0A	1,200	Rev	324T Frame
TE165	25 hp	575V	24.0A	1,800	Rev	284T Frame
TE167	25 hp	575V	23.0A	3,600	Rev	284TS Frame
TE168	30 hp	208-230/460V	88.0-79.0/40.0A	1,200	Rev	326T Frame
TE170	30 hp	208-230/460V	80.0-72.0/36.0A	1,800	Rev	286T Frame
TE172	30 hp	208-230/460V	75.0-68.0/34.0A	3,600	Rev	286TS Frame
TE169	30 hp	575V	32.0A	1,200	Rev	326T Frame
TE171	30 hp	575V	29.0A	1,800	Rev	286T Frame
TE173	30 hp	575V	27.0A	3,600	Rev	286TS Frame
TE174	40 hp	208-230/460V	105.0-95.0/47.0A	1,200	Rev	364T Frame
TE175	40 hp	208-230/460V	104.0-94.0/47.0A	1,800	Rev	324T Frame

# General Purpose Motors

## 3-Phase Industrial Duty Motors (Continued)

### General Purpose 3-Phase TEFC Motor

Part #	HP	Volts	Amps	RPM/ Speed	Rot	Notes
TE177	40 hp	208-230/460V	100.0-90.0/45.0A	3,600	Rev	324TS Frame
TE176	40 hp	575V	37.0A	1,800	Rev	324T Frame
TE178	40 hp	575V	36.0A	3,600	Rev	324TS Frame
TE179	50 hp	208-230/460V	131.0-118.0/59.0A	1,200	Rev	365T Frame
TE184	50 hp	208-230/460V	158.0-143.0/72.0A	1,200	Rev	404T Frame
TE180	50 hp	208-230/460V	132.0-117.0/60.0A	1,800	Rev	326T Frame
TE182	50 hp	208-230/460V	124.0-112.0/56.0A	3,600	Rev	326TS Frame
TE181	50 hp	575V	48.0A	1,800	Rev	326T Frame
TE183	50 hp	575V	45.0A	3,600	Rev	326TS Frame
TE185	60 hp	208-230/460V	152.0-138.0/69.0A	1,800	Rev	364T Frame
TE186	60 hp	208-230/460V	152.0-138.0/69.0A	1,800	Rev	364TS Frame
TE188	60 hp	208-230/460V	149.0-135.0/67.0A	3,600	Rev	364TS Frame
TE187	60 hp	575V	55.0A	1,800	Rev	364T Frame
TE189	75 hp	208-230/460V	196.0-177.0/88.0A	1,200	Rev	405T Frame
TE190	75 hp	208-230/460V	189.0-171.0/86.0A	1,800	Rev	365TS Frame
TE191	75 hp	208-230/460V	189.0-171.0/86.0A	1,800	Rev	365T Frame
TE193	75 hp	208-230/460V	184.0-167.0/83.0A	3,600	Rev	365TS Frame
TE192	75 hp	575V	68.0A	1,800	Rev	365T Frame
TE194	100 hp	208-230/460V	251.0-227.0/113.0A	1,200	Rev	444T Frame
TE196	100 hp	208-230/460V	247.0-223.0/112.0A	1,800	Rev	405T Frame
TE197	100 hp	208-230/460V	247.0-223.0/112.0A	1,800	Rev	405TS Frame
TE198	100 hp	208-230/460V	242.0-219.0/109.0A	3,600	Rev	405TS Frame
TE195	100 hp	575V	89A	1,800	Rev	405T Frame
TE199	125 hp	230/460V	287.0/143.0A	1,200	Rev	445T Frame
TE200	125 hp	230/460V	279.0/139.0A	1,800	Rev	444T Frame
TE201	125 hp	230/460V	279.0/139.0A	1,800	Rev	444TS Frame
TE203	125 hp	230/460V	274.0/137.0A	3,600	Rev	444TS Frame
TE202	125 hp	575V	112.0A	1,800	Rev	444T Frame
TE204	150 hp	230/460V	337.0/169.0A	1,200	Rev	447T Frame
TE205	150 hp	230/460V	333.0/167.0A	1,800	Rev	445T Frame
TE207	150 hp	230/460V	329.0/164.0A	3,600	Rev	445TS Frame
TE206	150 hp	575V	133.0A	1,800	Rev	445T Frame
TE211	200 hp	230/460V	436.0/218.0A	3,600	Rev	447TS Frame
TE208	200 hp	460V	227.0A	1,200	Rev	449T Frame
TE209	200 hp	460V	221.0A	1,800	Rev	447T Frame
TE210	200 hp	575V	177.0A	1,800	Rev	447T Frame



# General Purpose Motors

## General Purpose 3-Phase ODP Motor

- Rigid base
- Class F insulation system
- Inverter duty
- Ambient temperature: 40°C
- Frequency: 60Hz



TO125



TO105



Part #	HP	Volts	Amps	RPM/ Speed	Rot	Notes
TO103	1 hp	200V	3.2A	1,800	Rev	143T Frame
TO100	1 hp	208-230/460V	3.5-3.5/1.6A	1,200	Rev	145T Frame
TO101	1 hp	208-230/460V	3.0-2.7/1.4A	1,800	Rev	143T Frame
TO102	1 hp	575V	1.1A	1,800	Rev	143T Frame
TO107	1-1/2 hp	200V	4.5A	1,800	Rev	145T Frame
TO104	1-1/2 hp	208-230/460V	5.2-4.7/2.4A	1,200	Rev	182T Frame
E206M2	1-1/2 hp	208-230/460V	6.2/3.1A	1,200	Rev	182T Frame
TO105	1-1/2 hp	208-230/460V	4.3-3.9/2.0A	1,800	Rev	145T Frame
TO108	1-1/2 hp	208-230/460V	4.3-3.9/1.9A	3,600	Rev	143T Frame
TO106	1-1/2 hp	575V	1.6A	1,800	Rev	145T Frame
TO110	2 hp	200V	5.9A	1,800	Rev	145T Frame
TO109	2 hp	208-230/460V	6.8-6.1/3.1A	1,200	Rev	184T Frame
E207M2	2 hp	208-230/460V	7.15/3.6A	1,200	Rev	184T Frame
TO111	2 hp	208-230/460V	5.6-5.1/2.5A	1,800	Rev	145T Frame
TO113	2 hp	208-230/460V	5.5-5.0/2.5A	3,600	Rev	145T Frame
TO112	2 hp	575V	2.0A	1,800	Rev	145T Frame
E202M2	3 hp	200V	10.1A	1,800	Rev	182T Frame
TO117	3 hp	200V	8.9A	1,800	Rev	182T Frame
E216M2	3 hp	200V	9.2A	1,800	Rev	182T Frame
TO114	3 hp	208-230/460V	9.7-8.8/4.4A	1,200	Rev	213T Frame
E394M2	3 hp	208-230/460V	9.4-9.0/4.5A	1,200	Rev	213T Frame
TO115	3 hp	208-230/460V	8.6-7.7/3.9A	1,800	Rev	182T Frame
E217M2	3 hp	208-230/460V	8.4-8.0/4.0A	1,800	Rev	182T Frame
TO118	3 hp	208-230/460V	8.3-7.5/3.7A	3,600	Rev	145T Frame
TO116	3 hp	575V	3.1A	1,800	Rev	182T Frame
E923M2	3 hp	575V	3.2A	1,800	Rev	182T Frame
E203M2	5 hp	200V	15.2A	1,800	Rev	184T Frame
TO122	5 hp	200V	15.0A	1,800	Rev	184T Frame
E218M2	5 hp	200V	14.5A	1,800	Rev	184T Frame
TO119	5 hp	208-230/460V	16.0-14.0/7.1A	1,200	Rev	215T Frame
E395M2	5 hp	208-230/460V	15.0-13.8/6.9A	1,200	Rev	215T Frame
TO120	5 hp	208-230/460V	15.0-13.0/6.5A	1,800	Rev	184T Frame
E219M2	5 hp	208-230/460V	13.6-12.6/6.3A	1,800	Rev	184T Frame
TO123	5 hp	208-230/460V	14.0-12.0/6.2A	3,600	Rev	182T Frame
E204M2	5 hp	208-230/460V	13.4-12.4/6.2A	3,600	Rev	182T Frame



# General Purpose Motors

## 3-Phase Industrial Duty Motors (Continued)

### General Purpose 3-Phase ODP Motor

Part #	HP	Volts	Amps	RPM/ Speed	Rot	Notes
E2006M2	5 hp	230-460V	13.2/6.6A	1,800	Rev	184TC Frame
TO121	5 hp	575V	5.2A	1,800	Rev	184T Frame
E924M2	5 hp	575V	5.1A	1,800	Rev	184T Frame
E302M2	7-1/2 hp	200V	22.3A	1,800	Rev	213T Frame
TO127	7-1/2 hp	200V	7.7A	1,800	Rev	213T Frame
E316M2	7-1/2 hp	200V	21.4A	1,800	Rev	213T Frame
TO125	7-1/2 hp	208-230/460V	21.0-19.0/9.6A	1,800	Rev	213T Frame
TO128	7-1/2 hp	208-230/460V	20.0-18.0/8.9A	3,600	Rev	184T Frame
E496M2	7-1/2 hp	230/460V	21.0/10.5A	1,200	CCW	254T Frame
E317M2	7-1/2 hp	230/460V	19.4/9.7A	1,800	Rev	213T Frame
E205M2	7-1/2 hp	230/460V	17.8/8.9A	3,600	Rev	184T Frame
TO126	7-1/2 hp	575V	22.0A	1,800	Rev	213T Frame
E925M2	7-1/2 hp	575V	3.2A	1,800	Rev	213T Frame
E303M2	10 hp	200V	30.8A	1,800	Rev	215T Frame
TO132	10 hp	200V	28.0A	1,800	Rev	215T Frame
E331M2	10 hp	200V	29.2A	1,800	Rev	215T Frame
TO130	10 hp	208-230/460V	27.0-25.0/12.0A	1,800	Rev	215T Frame
TO133	10 hp	208-230/460V	26.0-24.0/12.0A	3,600	Rev	213T Frame
E392M2	10 hp	208-230/460V	26.0-23.4/11.7A	3,600	Rev	213T Frame
E497M2	10 hp	230/460V	27.4/13.7A	1,200	Rev	256T Frame
E397M2	10 hp	230/460V	25.2/12.6A	1,800	CCW	215T Frame
E325M2	10 hp	575V	10.3A	1,800	Rev	215T Frame
TO131	10 hp	575V	9.8A	1,800	Rev	215T Frame
E926M2	10 hp	575V	10.1A	1,800	Rev	215T Frame
E450M2	15 hp	200V	43.4A	1,800	CCW	254T Frame
E454M2	15 hp	200V	42.2A	1,800	Rev	254T Frame
TO138	15 hp	208-230/460V	35.0-39.0/18.0A	3,600	Rev	215T Frame
E393M2	15 hp	208-230/460V	39.0-35.0/17.5A	3,600	Rev	215T Frame
TO139	15 hp	208-230/460V	57.0-52.0/26.0A	1,200	Rev	286T Frame
E586M2	15 hp	230/460V	43.0/21.5A	1,200	Rev	284T Frame
E451M2	15 hp	230/460V	37.8/18.9A	1,800	CCW	254T Frame
E927M2	15 hp	575V	15.1A	1,800	Rev	254T Frame
E452M2	20 hp	200V	57.0A	1,800	CCW	256T Frame
E456M2	20 hp	200V	57.0A	1,800	Rev	256T Frame
E407M2	20 hp	230/460V	49.0/24.5A	1,800	CCW	256T Frame
E494M2	20 hp	230/460V	48.0/24.0A	3,600	Rev	254T Frame
E928M2	20 hp	575V	19.6A	1,800	Rev	256T Frame
E513M2	25 hp	200V	70.0A	1,800	CCW	284T Frame
E545M2	25 hp	200V	69.8A	1,800	Rev	284T Frame
TO144	25 hp	208-230/460V	72.0-65.0/33.0A	1,200	Rev	324T Frame
E514M2	25 hp	230/460V	61.0/30.5A	1,800	CCW	284T Frame





# General Purpose Motors

## 3-Phase Industrial Duty Motors (Continued)

### General Purpose 3-Phase ODP Motor

Part #	HP	Volts	Amps	RPM/Speed	Rot	Notes
E495M2	25 hp	230/460V	57.0/28.5A	3,600	Rev	256T Frame
E929M2	25 hp	575V	24.5A	1,800	Rev	284T Frame
E515M2	30 hp	200V	82.2A	1,800	CCW	286T Frame
E547M2	30 hp	200V	86.5A	1,800	Rev	286T Frame
TO149	30 hp	208-230/460V	88.0-79.0/40.0A	1,200	Rev	326T Frame
TO154	30 hp	208-230/460V	107.0-97.0/49.0A	1,200	Rev	364T Frame
E516M2	30 hp	230/460V	73.2/36.6A	1,800	CCW	286T Frame
E584M2	30 hp	230/460V	69.0/34.5A	3,600	RCC	284TS Frame
E930M2	30 hp	575V	28.5A	1,800	Rev	286T Frame
TO155	40 hp	200V	108.0A	1,800	Rev	324T Frame
TO156	40 hp	208-230/460V	104.0-94.0/47.0A	1,800	Rev	324T Frame
E585M2	40 hp	230/460V	90.0/45.0A	3,600	Rev	286TS Frame
TO157	40 hp	575V	37.0A	1,800	Rev	324T Frame
TO160	50 hp	200V	136.0A	1,800	Rev	326T Frame
TO158	50 hp	208-230/460V	134.0-121.0/61.0A	1,200	Rev	365T Frame
TO159	50 hp	208-230/460V	129.0-117.0/58.0A	1,800	Rev	326T Frame
TO162	50 hp	208-230/460V	130.0-118.0/59.0A	1,800	Rev	326TS Frame
TO163	50 hp	208-230/460V	125.0-113.0/57.0A	3,600	Rev	324TS Frame
TO161	50 hp	575V	47.0A	1,800	Rev	326T Frame
TO167	60 hp	200V	160.0A	1,800	Rev	364T Frame
TO165	60 hp	208-230/460V	154.0-139.0/70.0A	1,800	Rev	364T Frame
TO166	60 hp	208-230/460V	154.0-139.0/70.0A	1,800	Rev	364TS Frame
TO169	60 hp	208-230/460V	147.0-133.0/67.0A	3,600	Rev	364TS Frame
TO164	60 hp	230/460V	143.0/72.0A	1,200	Rev	404T Frame
TO168	60 hp	575V	56.0A	1,800	Rev	364T Frame
TO173	75 hp	200V	200.0A	1,800	Rev	365T Frame
TO171	75 hp	208-230/460V	192.0-174.0/87.0A	1,800	Rev	365T Frame
TO172	75 hp	208-230/460V	192.0-174.0/87.0A	1,800	Rev	365TS Frame
TO175	75 hp	208-230/460V	184.0-167.0/83.0A	3,600	Rev	364TS Frame
TO170	75 hp	230/460V	179.0/90.0A	1,200	Rev	405T Frame
TO174	75 hp	575V	70.0A	1,800	Rev	365T Frame
TO179	100 hp	200V	251.0A	1,800	Rev	404T Frame
TO181	100 hp	208-230/460V	246.0-222.0/111.0A	3,600	Rev	365TS Frame
TO176	100 hp	230/460V	232.0/116.0A	1,200	Rev	444T Frame
TO177	100 hp	230/460V	218.0/109.0A	1,800	Rev	404T Frame
TO178	100 hp	230/460V	223.0/112.0A	1,800	Rev	404TS Frame
TO180	100 hp	575V	87.0A	1,800	Rev	404T Frame
TO182	125 hp	230/460V	290.0/145.0A	1,200	Rev	445T Frame
TO183	125 hp	230/460V	279.0/139.0A	1,800	Rev	405T Frame
TO184	125 hp	230/460V	279.0/139.0A	1,800	Rev	405TS Frame
TO186	125 hp	230/460V	276.0/138.0A	3,600	Rev	405TS Frame

# General Purpose Motors

## 3-Phase Industrial Duty Motors (Continued)

### General Purpose 3-Phase ODP Motor

Part #	HP	Volts	Amps	RPM/Speed	Rot	Notes
TO185	125 hp	575V	112.0A	1,800	Rev	405T Frame
TO187	150 hp	230/460V	342.0/171.0A	1,200	Rev	447T Frame
TO189	150 hp	230/460V	333.0/167.0A	1,800	Rev	444T Frame
TO190	150 hp	230/460V	333.0/167.0A	1,800	Rev	444TS Frame
TO191	150 hp	230/460V	332.0/166.0A	1,800	Rev	405TS Frame
TO188	150 hp	575V	133.0A	1,800	Rev	444T Frame
TO192	200 hp	460V	226.0A	1,200	Rev	449T Frame
TO193	200 hp	460V	217.0A	1,800	Rev	445T Frame
TO194	200 hp	460V	222.0A	1,800	Rev	445TS Frame
TO196	200 hp	460V	219.0A	3,600	Rev	444TS Frame
TO195	200 hp	575V	178.0A	1,800	Rev	445T Frame

## General Purpose Motors

### General Purpose 3-Phase ODP Premium Efficient Motor

- Designed for pumps, fans, compressors, material handling and other general purpose applications where contaminants are minimal
- Class F insulation, class B rise at service factor (140 frame and larger)
- Rolled steel frame 56-320, cast iron frame 360-440
- Aluminum end shields 56-250, cast iron end shields 280-440
- 40°C Ambient, NEMA design B performance (4)
- Full hp at 50Hz
- Regreasable bearings 180 frame and up, lifting provisions 210 frame and up
- Double shielded bearings 48-400, open on 440
- Suitable for Wye-Delta start 250 frame and larger
- Dual voltage ratings suitable for part winding start (PWS) on low voltage
- F1 Assembly position



Part #	Mfg #	HP	Voltage	RPM	Frame	Amps	Notes
MOT13902	D1P2D	1 hp	208-230/460V	1,800	143T	3.2-3.1/1.5A	03
MOT14056	D32P2D	1-1/2 hp	208-230/460V	1,800	145T	4.4-4.2/2.1A	03
MOT14005	D2P2D	2 hp	208-230/460V	1,800	145T	5.9-5.5/2.8A	03
MOT14046	D3P2D	3 hp	208-230/460V	1,800	182T	8.4-7.8/3.9A	03
MOT13847	D5P2D	5 hp	208-230/460V	1,800	184T	13.8-13.0/6.5A	03
MOT13861	D7P2D	7-1/2 hp	208-230/460V	1,800	213T	20.2-18.5/9.3A	03
MOT13945	D10P2D	10 hp	208-230/460V	1,800	215T	26.3-23.8/11.9A	03
MOT13956	D15P2D	15 hp	208-230/460V	1,800	254T	40.0-37.0/18.3A	02, 03
MOT14185	D25P2D	25 hp	208-230/460V	1,800	284T	64-58/29A	02, 03
MOT14192	D20P2D	20 hp	208-230/460V	1,800	256T	54-49/24.4A	02, 03

Note 02 = Suitable for Wye-Delta start on voltages shown

Note 03 = 60/50Hz rated with no derate on horsepower, 230/460 volt 60Hz ratings operate on 190/380 volt 50Hz. 460 Volt 60Hz ratings operate on 380 volt 50Hz power; full 60Hz and 50Hz data is displayed on nameplate



# General Purpose Motors

## General Purpose TEFC Motors

### General Purpose 3-Phase TEFC Steel Edge™ Motor

- Rolled steel frame
- Class F installation, class B rise at full load on 60Hz sine wave power
- Shaft slinger on pulley end
- 40°C Ambient, NEMA® design B performance on 60Hz sine wave power
- Dual voltage ratings suitable for part winding start (PWS on low voltage)



U1P2G



Part #	Mfg #	HP	Voltage	RPM	Frame	Amps	Notes
MOT14265	U1P2D	1 hp	208-230/460V	1,800	143T	3.1-3/1.5A	03
MOT14299	U32P2D	1-1/2 hp	208-230/460V	1,800	145T	4.5-4.3/2.1A	03
MOT14030	U2P2D	2 hp	208-230/460V	1,800	145T	5.9-5.7/2.8A	03

**Note 03 = 60/50Hz rated with no derate on HP; 230/460V 60Hz ratings operate on 190/380V 50Hz; 460V 60Hz ratings operate on 380V 50Hz full 60 & 50Hz data on nameplate**

### General Purpose 3-Phase TEFC Unimount® Energy Efficient Motor

- World Motor® features
- Class F insulation, class B at full load on 60Hz sine wave power
- Aluminum frame
- Rolled steel frame
- Aluminum, end shields with steel bearing inserts
- Conduit box shipped loose
- Full 50 and 60Hz operating data on nameplate
- 40°C Ambient, NEMA design B performance
- Full hp at 50Hz
- Regreasable bearings 250 frame and up
- Double shielded bearings
- Suitable for Wye-Delta start 250 frame and larger
- Dual voltage ratings suitable for part winding start (PWS) on low voltage
- CE Mark on nameplate 140 frame and larger



Part #	Mfg #	HP	Voltage	RPM	Frame	Amps	Notes
MOT14032	U5P2D	5 hp	208-230/460V	1,800	184T	13.6-12.3/6.2A	-
MOT13955	U7P2D	7-1/2 hp	208-230/460V	1,800	213T	20-18.2/9.1A	-



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# Motor Mounts

## Motor Accessories

### Motor Bracket

- Brackets for 5-1/2" diameter motors



Part #	Mfg #	Description
BRK03811	DMB-1	Fixed Lug Assembly
BRK03812	DMB-2	Adjustable Lug Assembly

### Flex Bracket Motor Mount

- Torsion flex bracket



Part #	Mfg #	Description
BRK03813	DMB-3	Fits 5-1/2" Diameter Motors



# Hard Start Kits

## Hard Start Kit



- Features a potential relay that disconnects the start capacitor from the circuit at the moment it is no longer needed to boost the compressor

Part #	Mfg #	Description
KIT16480	HSK1	For 3-1/2 to 5 hp Compressor
KIT16481	HSK5	For 1 to 3 hp Compressor

## Torque Plus, Hard Start Kit



- Solid state for all PSC compressors from 1/2 to 10 hp
- Can be used on units that operate on 120 - 240V

Part #	Mfg #	Description
KIT07950	DST-5	Starter Power Pack 1/2 to 5 hp, 300% Torque
KIT07951	DST-6	Starter Power Pack 1-1/2 to 10 hp, 500% Torque Multiplier

## Kickstart® Potential Relay & Start Capacitors

- 2-Wire design for easy installation
- Extends the life of compressors
- OEM Tested and approved
- 3-Year warranty



Part #	Mfg #	Model	Max Torque
CPT00697	96503	TO-5	1.0 - 3.0 Ton
CPT01792	96506	KS-1	3.5 - 5.0 Ton

## RapidStart® Motor Starters



### PTCR Hard Start

- Positive Temperature Coefficient (PTC) technology
- Low cost motor starting device
- 115-288VAC
- Operating temperature range: -40°C to 65°C



Part #	Mfg #	Increase in Torque	Recommended Range
CPT01647	ICM855	300%	Up to 1.5 hp
CPT01648	ICM856	500%	2 to 10 hp

## Current Sensing Hard Start

- Operates from 95 to 288VAC
- Maximum input voltage: 502VAC
- Patented current sensing circuitry
- Self-adjusting to voltage fluctuation
- Easy to install, 2-wire, clip, or screw mounted
- Solid-state circuitry
- Boost starting torque
- Disengages upon start intrinsically safe, fuse protected (fuse not user replaceable)
- UL Recognized



Part #	Mfg #	Description
KIT07685	ICM803	For 1/12 to 3 hp, 88 - 106 mfd, 330V Capacitor
KIT07686	ICM805	For 1/12 to 5 hp, 145 - 175 mfd, 330V Capacitor

## Voltage Sensing Hard Start

- Increases torque up to 500%
- Patented differential voltage sensing technology for safe, precise starts
- Not affected by ambient temperature
- Recycles instantly (less than one second)
- For scroll or reciprocating compressors
- For 115 or 230VAC motors
- Intrinsically safe, fuse protected
- Operating temperature range: -40°C to 65°C
- Recommended range: 1/12 to 3 hp
- UL Recognized



Part #	Mfg #	Increase in Torque
KIT07689	ICM860	500%



Don't see what you are looking for? We carry thousands of other items. Check with your local parts center.

# Capacitors

## Capacitors

- For motor run applications where capacitors are used in conjunction with permanent split capacitor type motors
- For use on 50Hz or 60Hz systems
- Operating life: 60,000 hours with 94% survival in accordance with EIA-456 industry standard
- Pressure sensitive interrupter
- cULus, CSA, RoHS Compliant



### Oval Motor Run Capacitor less Resistor

Part #	Mfg #	Capacitance	Volts	Dimensions
CPT00209	97F5503BX-TR7	3mfd	370V	1.25" Oval x 2.12"H
CPT00076	97F5704BX-TR7	4mfd	370V	1.25" Oval x 2.12"H
CPT00072	27L570BX-TR7	5mfd	370V	1.25" Oval x 1.56"H
CPT00276	97F5706BX-TR7	6mfd	370V	1.25" Oval x 2.12"H
CPT00120	27L566BX-TR7	7.5mfd	370V	1.25" Oval x 2.12"H
CPT00230	97F9002BX-TR7	10mfd	370V	1.25" Oval x 2.88"H
CPT00255	27L572BX-TR7	12.5mfd	370V	1.25" Oval x 2.88"H
CPT00180	97F9004BX-TR7	15mfd	370V	1.25" Oval x 3.88"H
CPT00316	97F9603BX-TR7	20mfd	370V	1.75" Oval x 2.88"H
CPT00160	97F9607BX-TR7	25mfd	370V	1.75" Oval x 2.88"H
CPT00105	97F9612BX-TR7	35mfd	370V	1.75" Oval x 3.88"H
CPT00201	97F9615BX-TR7	40mfd	370V	1.75" Oval x 3.88"H
CPT00760	97F9618BX-TR7	45mfd	370V	2.00" Oval x 2.88"H
CPT00761	97F9622BX-TR7	50mfd	370V	2.00" Oval x 2.88"H
CPT00937	97F9391BX-TR7	80mfd	370V	2.00" Oval x 4.75"H
CPT00161	97F5337BX-TR7	4mfd	440V	1.25" Oval x 2.88"H
CPT00119	97F5339BX-TR7	5mfd	440V	1.25" Oval x 2.88"H
CPT00221	97F5436BX-TR7	6mfd	440V	1.25" Oval x 2.88"H
CPT00203	27L695BX-TR7	7.5mfd	440V	1.25" Oval x 2.88"H
CPT00088	97F5300BX-TR7	10mfd	440V	1.25" Oval x 3.88"H
CPT00422	97F9080BX-TR7	12.5mfd	440V	1.25" Oval x 4.75"H
CPT00839	97F9625BX-TR7	15mfd	440V	1.25" Oval x 4.75"H
CPT00206	97F9627BX-TR7	15mfd	440V	1.75" Oval x 2.88"H
CPT01202	27L551BX-TR7	20mfd	440V	1.25" Oval x 4.75"H
CPT00231	97F9631BX-TR7	20mfd	440V	1.75" Oval x 2.88"H
CPT00444	97F9633BX-TR7	25mfd	440V	1.75" Oval x 2.88"H
CPT00777	97F9644BX	45mfd	440V	2.00" Oval x 3.88"H
CPT00780	27L388BX	60mfd	440V	2.00" Oval x 4.25"H



# Capacitors

## Round Motor Run Capacitor less Resistor



Part #	Mfg #	Capacitance	Volts	Dimensions
CPT01554	27L509BX-TR7	4mfd	370V	1.75" Round x 2.88"H
CPT01393	97F9201BX-TR7	4mfd	370V	1.75" Round x 2.88"H
CPT01392	97F9202BX-TR7	5mfd	370V	1.75" Round x 2.88"H
CPT01391	97F9204BX-TR7	7.5mfd	370V	1.75" Round x 2.88"H
CPT00251	97F5066BX-TR7	10mfd	370V	1.75" Round x 2.88"H
CPT01390	97F5067BX-TR7	12.5mfd	370V	1.75" Round x 2.88"H
CPT00283	97F9600BX-TR7	17.5mfd	370V	1.75" Round x 2.88"H
CPT00233	97F9606BX-TR7	25mfd	370V	1.75" Round x 2.88"H
CPT00468	97F9611BX-TR7	35mfd	370V	1.75" Round x 3.88"H
CPT00240	97F9614BX-TR7	40mfd	370V	1.75" Round x 3.88"H
CPT00449	97F9008	45mfd	370V	2.00" Round x 4.75"H
CPT00905	97F9623BX-TR7	50mfd	370V	2.00" Round x 3.88"H
CPT01381	97F8070BX-TR7	55mfd	370V	2.00" Round x 4.75"H
CPT00631	97F5276BX	60mfd	370V	2.50" Round x 4.75"H
CPT01383	97F9012BX-TR7	70mfd	370V	2.50" Round x 4.75"H
CPT00904	27L63BX-TR7	80mfd	370V	2.50" Round x 4.75"H
CPT00258	97F5001BX-TR7	12.5mfd	440V	1.75" Round x 2.88"H
CPT00453	97F9626BX-TR7	15mfd	440V	1.75" Round x 2.88"H
CPT00465	97F9630BX-TR7	20mfd	440V	1.75" Round x 3.88"H
CPT00467	97F9632BX-TR7	25mfd	440V	1.75" Round x 3.88"H
CPT01754	27L962BX-TR7	35mfd	440V	2.50" Round x 2.88"H
CPT00235	97F9639BX-TR7	35mfd	440V	2.00" Round x 3.88"H
CPT00236	97F9642BX-TR7	40mfd	440V	2.00" Round x 3.88"H
CPT00237	97F9645BX-TR7	45mfd	440V	2.00" Round x 4.75"H
CPT00238	97F5211BX-TR7	50mfd	440V	2.50" Round x 3.88"H
CPT00239	97F9042BX-TR7	55mfd	440V	2.50" Round x 4.75"H
CPT00392	97F9043BX-TR7	60mfd	440V	2.50" Round x 4.75"H
CPT01233	97F5251BX-TR7	70mfd	440V	2.50" Round x 4.75"H
CPT01074	27L322BX-TR7	80mfd	440V	2.50" Round x 5.25"H

## Round Motor Run Capacitor with Resistor



Part #	Mfg #	Capacitance	Volts	Dimensions
CPT00274	27L194BR-TR7	15mfd	440V	1.75" Round x 2.88"H
CPT00270	97F9449BR-TR7	20mfd	440V	1.75" Round x 3.88"H
CPT00442	97F9447BR-TR7	25mfd	440V	1.75" Round x 4.75"H
CPT00321	97F9448BR-TR7	30mfd	440V	2.00" Round x 4.25"H
CPT00271	97F5184BR-TR7	35mfd	440V	2.00" Round x 4.25"H
CPT01051	27L545BR-TR7	45mfd	440V	2.00" Round x 4.75"H
CPT00275	25L503BR-TR7	45mfd	440V	2.50" Round x 3.88"H
CPT00421	27L195BR-TR7	55mfd	440V	2.50" Round x 4.75"H



Don't see what you are looking for? We carry thousands of other items. Check with your local parts center.

# Capacitors

## Round Dual Motor Run Capacitor less Resistor



Part #	Mfg #	Capacitance	Volts	Dimensions
CPT01553	97F9860BX-TR7	40/5mfd	370V	2.50" Round x 2.88"H
CPT01555	97F9973BX-TR7	55/7.5mfd	370V	2.50" Round x 3.88"H
CPT00673	25L48BX-TR7	20/4mfd	440V	2.00" Round x 2.88"H
CPT02048	97F9975BX	20/5mfd	440V	2.00" Round x 2.88"H
CPT00687	27L79BX-TR7	20/5mfd	440V	2.50" Round x 2.88"H
CPT01166	27L685BX-TR7	25/4mfd	440V	2.50" Round x 2.88"H
CPT00672	25L17BX-TR7	30/4mfd	440V	2.50" Round x 2.88"H
CPT00659	27L20BX-TR7	30/5mfd	440V	2.50" Round x 2.88"H
CPT02047	97F9982BX-TR7	30/7.5mfd	440V	2.00" Round x 3.88"H
CPT00977	97F9899BX-TR7	35/5mfd	440V	2.50" Round x 2.88"H
CPT01248	97F9494BX-TR7	35/7.5mfd	440V	2.50" Round x 3.88"H
CPT00674	27L549BX-TR7	40/4mfd	440V	2.50" Round x 3.12"H
CPT00668	97F9856BX-TR7	40/5mfd	440V	2.50" Round x 3.88"H
CPT01032	97F9882BX-TR7	40/7.5mfd	440V	2.00" Round x 4.75"H
CPT00682	27L14BX-TR7	45/4mfd	440V	2.50" Round x 3.88"H
CPT00656	97F9851BX-TR7	45/5mfd	440V	2.50" Round x 3.88"H
CPT00669	97F9883BX-TR7	45/7.5mfd	440V	2.50" Round x 3.88"H
CPT01845	97F9832	45/10mfd	370V	2.00" Round x 4.75"H
CPT00660	27L601BX-TR7	50/5mfd	440V	2.50" Round x 4.25"H
CPT01021	97F9987BX-TR7	50/7.5mfd	440V	2.50" Round x 4.75"H
CPT02164	27L647	50/10mfd	440V	2.50" Round x 4.75"H
CPT00657	25L759BX-TR7	50/12.5mfd	440V	2.50" Round x 4.75"H
CPT00670	97F9839BX-TR7	55/5mfd	440V	2.50" Round x 4.75"H
CPT00691	97F9897BX-TR7	60/5mfd	440V	2.50" Round x 4.75"H
CPT01033	97F9898BX-TR7	60/7.5mfd	440V	2.50" Round x 4.75"H
CPT00661	25L765BX-TR7	60/12.5mfd	440V	2.50" Round x 4.75"H
CPT02163	27L1099BX-TR7	70/7.5mfd	440V	2.50" Round x 4.75"H
CPT02070	27L866BX-TR7	70/10mfd	440V	2.50" Round x 4.75"H

## Round Dual Motor Run Capacitor with Resistor



Part #	Mfg #	Capacitance	Volts	Dimensions
CPT00658	27L116BR-TR7	20/4mfd	440V	2.00" Round x 2.88"H
CPT00690	27L76BX	20/5mfd	440V	2.50" Round x 2.88"H
CPT01167	27L697BR-TR7	25/4mfd	440V	2.50" Round x 2.88"H
CPT01168	27L704BR-TR7	25/5mfd	440V	2.50" Round x 2.88"H
CPT01778	27L1071RR	35/5mfd	440V	2.50" Round x 2.88"H
CPT00622	27L436BR-TR7	35/20mfd	440V	2.50" Round x 4.50"H
CPT01777	27L652RR	45/7.5mfd	440V	2.50" Round x 3.88"H





# Capacitors

## Capacitor Kits

### Life-Line Capacitor Kit for Motor Run Applications

- Replace 48 different ratings (over 85% of models)
- UL Listed life-line "spider" device
- Includes:
  - (6) Genteq motor run capacitors
  - (2) Life-line "spider" devices
  - Capacitor mounting hardware kit
  - Device mounting hardware kit
  - Robust carrying case



Part #	Mfg #	Description
CPT02037	LCKP-001	Life-Line Capacitor Kit Featuring Proline Capacitors
CPT02038	LCK-CID-001	Life-Line Device Only, 4/Pk
CPT02039	LCK-SBA-001	Capacitor Mounting Hardware Kit Only
CPT02040	LCK-DBA-001	Life-Line Device Mounting Hardware Kit Only

## Motor Start Capacitors

### Turbolytic50™ Universal Round Motor Start Capacitor



Part #	Mfg #	Size	Description
CPT01807	TURBOLYTIC50JR	2-1/2" Base x 5-3/4" Height	Up to 302mfd

## Run Capacitors

### Round Metal Dual Run Capacitor



Part #	Mfg #	Volts	Capacitance	Case Style	Base Size	Case Height
CPT01769	2299A	440	50/5mfd	L	2.0"	4.7"
CPT01768	2298B	440	60/5mfd	M	2.4"	4.7"

### Turbo™200 Universal Run Capacitor

- Multi-MFD universal - single or dual value
- Permanent universal replacement capacitor
- Voltage rating 370 or 440VAC
- Perfect truck stock item to go with multi-hp motors



Turbo 200



Turbo 200 Mini



Turbo 200X



Part #	Mfg #	Description
CPT01663	TURBO200	Single or Dual Value Range 2.5mfd to 67.5mfd
CPT01665	TURBOMINI	Single Value Range 2.5mfd to 15mfd
CPT01664	TURBO200X	Single or Dual Value Range 2.5mfd to 97.5mfd



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# Capacitors

## Capacitors

### Single Capacitance 370VAC Oval Motor Run Capacitor

- Oval metal can
- Suffix B: Bulk, 100/pack



Part #	Mfg #	MFD	Can Ht
CPT01455	37020H	2mfd	2.17"
CPT01456	37030H	3mfd	2.17"
CPT01457	37040H	4mfd	2.17"
CPT01450	37050H	5mfd	2.17"
CPT01458	37050HB	5mfd	2.17"
CPT01459	37060H	6mfd	1.77"
CPT01451	37075H	7.5mfd	2.17"
CPT01460	37075HB	7.5mfd	2.17"
CPT01452	37100H	10mfd	2.56"
CPT01461	37100HB	10mfd	2.56"
CPT01462	37125H	12mfd	2.95"
CPT01453	37150H	15mfd	2.95"
CPT01463	37175H	17.5mfd	2.95"
CPT01464	37200H	20mfd	2.56"
CPT01465	37250H	25mfd	2.95"
CPT01531	37300H	30mfd	3.35"
CPT01466	37350H	35mfd	3.35"
CPT01602	37400H	40mfd	3.94"
CPT01532	37450H	45mfd	3.94"

### Dual Capacitance 370VAC Oval Motor Run Capacitor

- Oval metal can



Part #	Mfg #	MFD	Can Ht
CPT01751	3GJ0515	15+5mfd	2.95"
CPT01603	3GJ1015	15+10mfd	2.95"
CPT01762	3GJ0520	20+5mfd	2.95"
CPT01574	3GJ0530	30+5mfd	3.94"
CPT01604	3GJ7530	30+7.5mfd	3.94"
CPT01583	3GJ0535	35+5mfd	3.94"
CPT01605	3GJ7535	35+7.5mfd	3.94"
CPT01606	3GJ0540	40+5mfd	3.94"
CPT01607	3GJ0545	45+5mfd	4.53"
CPT02338	3GJ7545	45+7.5mfd	3.94"
CPT02339	3GJ7555	55+7.5mfd	4.92"

### Single Capacitance 370VAC Round Motor Run Capacitor

- Round metal can



Part #	Mfg #	MFD	Can Ht
CPT01693	37050-R	5mfd	2.22"
CPT01694	37075-R	7.5mfd	2.22"
CPT01695	37100-R	10mfd	2.22"
CPT01696	37125-R	12.5mfd	2.22"
CPT01534	37250-R	25mfd	3.00"
CPT01535	37300-R	30mfd	2.95"
CPT01536	37350-R	35mfd	3.35"
CPT01537	37400-R	40mfd	3.54"
CPT01538	37450-R	45mfd	3.00"
CPT01539	37500-R	50mfd	3.00"
CPT01697	37550-R	55mfd	3.00"
CPT01540	37600-R	60mfd	4.53"
CPT01542	37800-R	80mfd	3.99"

### Dual Capacitance 370VAC Round Motor Run Capacitor

- Round metal can



Part #	Mfg #	MFD	Can Ht
CPT02336	3GR0515	15+5mfd	2.61"
CPT02337	3GR0520	20+5mfd	2.61"
CPT02340	3GR0325	25+3mfd	3.00"
CPT01492	3GR0425	25+4mfd	3.00"
CPT01493	3GR0525	25+5mfd	3.54"
CPT02341	3GR0330	30+3mfd	3.00"
CPT01494	3GR0530	30+5mfd	3.54"
CPT01685	3GR7530	30+7.5mfd	3.40"
CPT02342	3GR0335	35+3mfd	3.40"
CPT01686	3GR0435	35+4mfd	3.40"
CPT01495	3GR0535	35+5mfd	3.74"
CPT02343	3GR0340	40+3mfd	3.99"
CPT01755	3GR0540	40+5mfd	3.94"
CPT01687	3GR7540	40+7.5mfd	3.99"
CPT01496	3GR0545	45+5mfd	3.74"
CPT01688	3GR0550	50+5mfd	3.54"
CPT01689	3GR0555	55+5mfd	3.40"
CPT01690	3GR0560	60+5mfd	3.54"
CPT01691	3GR7560	60+7.5mfd	3.40"
CPT01497	3GR0580	80+5mfd	5.96"
CPT01692	3GR7580	80+7.5mfd	3.40"
CAP01209	3GR1080	80+10mfd	5.16"

# Capacitors

## Single Capacitance 440VAC Oval Motor Run Capacitor

- Oval metal can



Part #	Mfg #	MFD	Can Ht
CPT01469	45020-H	2mfd	1.77"
CPT01470	45030-H	3mfd	1.77"
CPT01471	45040-H	4mfd	2.17"
CPT01472	45050-H	5mfd	2.17"
CPT01473	45060-H	6mfd	2.95"
CPT01474	45075-H	7.5mfd	2.17"
CPT01475	45100-H	10mfd	2.56"
CPT01476	45125-H	12mfd	2.95"
CPT01477	45150-H	15mfd	2.95"
CPT01478	45175-H	17.5mfd	3.94"
CPT01479	45200-H	20mfd	2.56"
CPT01480	45250-H	25mfd	2.95"
CPT01481	45300-H	30mfd	3.35"
CPT01467	45350-H	35mfd	3.35"
CPT01468	45400-H	40mfd	3.94"
CPT01454	45450-H	45mfd	3.94"
CPT01533	45500-H	50mfd	4.53"
CPT01675	45550-H	55mfd	4.53"

## Single Capacitance 370/440VAC Oval Motor Run Capacitor

- Oval metal can
- USA Made



Part #	Mfg #	MFD	Can Ht
CPT02308	45050HU	5mfd	2.17"
CPT02310	45075HU	7.5mfd	2.17"
CPT02299	45100HU	10mfd	2.56"
CPT02311	45125HU	12mfd	2.95"
CPT02300	45150HU	15mfd	2.95"
CPT02301	45200HU	20mfd	2.56"
CPT02302	45250HU	25mfd	2.95"
CPT02303	45300HU	30mfd	3.35"
CPT02304	45350HU	35mfd	3.35"
CPT02305	45400HU	40mfd	3.94"
CPT02306	45450HU	45mfd	3.94"
CPT02307	45500HU	50mfd	4.53"
CPT02309	45600HU	60mfd	5.31"

## Dual Capacitance 440VAC Oval Motor Run Capacitor

- Oval metal can



Part #	Mfg #	MFD	Can Ht
CPT01516	4JJ0525	25+5mfd	3.35"
CPT01517	4JJ0530	30+5mfd	3.94"
CPT01518	4JJ0535	35+5mfd	3.94"
CPT01520	4JJ7535	35+7.5mfd	4.92"
CPT01519	4JJ0540	40+5mfd	3.94"
CPT01521	4JJ7540	40+7.5mfd	4.92"
CPT01524	4JJ0545	45+5mfd	4.53"
CPT01522	4JJ7545	45+7.5mfd	4.92"
CPT01698	4JJ0555	55+5mfd	3.75"
CPT01523	4JJ1055	55+10mfd	4.92"

## Single Capacitance 440VAC Round Motor Run Capacitor

- Round metal can



Part #	Mfg #	MFD	Can Ht
CPT01681	45150-R	15mfd	2.61"
CPT01682	45200-R	20mfd	3.40"
CPT01543	45250-R	25mfd	2.95"
CPT01544	45300-R	30mfd	3.99"
CPT01545	45350-R	35mfd	3.94"
CPT01546	45400-R	40mfd	3.94"
CPT01547	45450-R	45mfd	4.53"
CPT01548	45500-R	50mfd	4.92"
CPT01683	45550-R	55mfd	3.99"
CPT01549	45600-R	60mfd	4.53"
CPT01551	45800-R	80mfd	4.97"

# Capacitors

## Dual Capacitance 440VAC Round Motor Run Capacitor

- Round metal can



Part #	Mfg #	MFD	Can Ht
CPT01498	4JR-0525	25+5mfd	3.54"
CPT01676	4JR-7525	25+7.5mfd	3.99"
CPT01499	4JR-0530	30+5mfd	3.54"
CPT01500	4JR-7530	30+7.5mfd	3.88"
CPT01501	4JR-0535	35+5mfd	3.74"
CPT01502	4JR-7535	35+7.5mfd	3.54"
CPT01503	4JR-0540	40+5mfd	3.54"
CPT01677	4JR-7540	40+7.5mfd	4.72"
CPT01504	4JR-0545	45+5mfd	3.74"
CPT01678	4JR-7545	45+7.5mfd	3.40"
CPT01786	4JR-0550	50+5mfd	4.13"
CPT01679	4JR-7550	50+7.5mfd	3.40"
CPT01505	4JR-0555	55+5mfd	4.92"
CPT01680	4JR-7555	55+7.5mfd	3.40"
CPT01788	4JR-0560	60+5mfd	4.92"
CPT01646	4JR-7560	60+7.5mfd	5.91"
CPT02020	4JR-1060	60+10mfd	3.99"
CPT02077	4JR-0580	80+5mfd	2.75"
CPT02288	4JR-7580	80+7.5mfd	2.75"
CPT02167	4JR-1080	80+10mfd	2.75"

## Dual Capacitance 370/440VAC Round Motor Run Capacitor

- Round metal can
- USA Made



Part #	Mfg #	MFD	Can Ht
CPT02312	4JR0525U	25+5mfd	3.54"
CPT02313	4JR0530U	30+5mfd	3.54"
CPT02314	4JR0535U	35+5mfd	3.74"
CPT02315	4JR0540U	40+5mfd	3.54"
CPT02316	4JR0545U	45+5mfd	3.74"
CPT02317	4JR0550U	50+5mfd	4.13"
CPT02318	4JR0555U	55+5mfd	4.92"
CPT02319	4JR0560U	60+5mfd	4.92"
CPT02320	4JR7540U	40+7.5mfd	4.72"
CPT02321	4JR7545U	45+7.5mfd	3.40"

## Variable Capacitance 110/125VAC Round Motor Start Capacitor

- Round plastic can



Part #	Mfg #	MFD	Can Ht
CPT01557	189-227	189-227mfd	2.25"
CPT02295	460-552	460-552mfd	2.25"

## Variable Capacitance 110/125VAC Oval Motor Start Capacitor

- Oval metal can



Part #	Mfg #	MFD	Can Ht
CPT01558	378-440	378-440mfd	3.50"

## Variable Capacitance 330VAC Round Motor Start Capacitor

- Round plastic can



Part #	Mfg #	MFD	Can Ht
CPT01485	88-108330	88-108mfd	3.37"
CPT01486	108-130330	108-130mfd	4.37"
CPT01489	161-193330	161-193mfd	4.37"
CPT01487	124-156330	124-156mfd	2.50"
CPT01488	145-175330	145-175mfd	2.25"
CPT01490	189-227330	189-227mfd	4.50"
CPT01491	216-259330	216-259mfd	2.50"



# Cleaners

## Ice Machine Cleaners

### Nickel-Safe Ice Machine Cleaner

- Special formulation, food grade ingredients
- Removes scale and slime, restores efficiency
- Safe on nickel or tin-plated evaporators
- Meets Manitowoc Spec. GES-6 for nickel-safe ice machine cleaner
- USDA Accepted; biodegradable



Part #	Mfg #	Description
IMC025308	IMC025308	8 oz Bottle
IMC012916	IMC025316	16 oz Bottle
IMC025301	IMC025301	1 gal Bottle

### Super-Kool™ Nickel-Safe and Metal-Safe Ice Machine Cleaner

- Non-foaming unique acid sequestrant formula quickly removes soil and mineral buildup
- Highly concentrated formula insures low use cost
- Inhibited formula will not attack nickel or other metal components
- USDA Authorized



Part #	Mfg #	Size
CHM00690	SCM-705-16	16 oz

### Liquid Ice Machine Cleaner

- 75% Phosphoric acid of the highest food-grade quality
- Fast acting and safe to use



Part #	Mfg #	Description
CHM00377	4207-47	8 oz Bottle
CHM00451	4834-C7	8 oz Bottle (Canada)
CHM00378	4207-08	1 gal Bottle
CHM00452	4834-08	1 gal Bottle (Canada)

### Nickel-Safe Ice Machine Cleaner

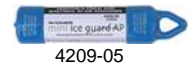
- Formulated citric/phosphoric food-grade product
- For removing scale deposits on nickel-plated or tin-plated evaporators



Part #	Mfg #	Description
CHM00390	4287-34	16 oz Bottle
CHM00453	4841-AB	16 oz Bottle
CHM00391	4287-08	1 gal Bottle
CHM00454	4841-08	1 gal Bottle (Canada)

### Ice Guard® AP

- Inhibits growth of a wide variety of slime forming bacteria and algae found in ice machines
- (1) Unit can protect up to a 1,200 lb ice maker for 3 to 6 months
- A drop-in device that is placed directly into the recirculating water sump



4209-05



Part #	Mfg #	Description
CHM00827	4209-05	Mini Ice Guard®
CHM00473	4209-06	Ice Guard® Drop-In
FLR07738	4209-00	Ice Guard® Sump Clip

### IMS-II Sanitizing Concentrate

- Sanitizes hard, non-porous surfaces to eliminate odors and slime
- No rinsing required
- For use in ice machines, ice cream dispensers and other food processing equipment
- USDA Approved



Part #	Mfg #	Description
CHM00379	4211-34	16 oz Bottle

### Degreasers

#### E-SOLV Solvent Solution Cleaner & Degreaser

- Controlled evaporation
- Cleans electric motors, machined parts, coils, switches, breakers, and other components
- Safer alternative to chlorinated solvents



Part #	Description
SLV051201	1 gal Can

# Cleaners

## Rydall Multi-Purpose Degreaser/Cleaner

- Biodegradable, medium-duty for industrial and commercial facilities and households
- Water-soluble, mineral oil-free, alkaline solution
- Non-acidic, non-flammable



RYMP4GAL

Part #	Mfg #	Description
CHM00840	RYMP24SPRAY	24 oz Spray Bottle
CHM00786	RYMP4GAL	4 Gallon/Case
CHM00787	RYMP5GAL	5 Gallon Pail
CHM00788	RYDALL-MP 55GAL	55 Gallon Drum

## RYDALL DD Biodegradable Definitive Degreaser

- Citrus-based, heavy-duty industrial degreaser
- Water-soluble, non-butyl, non-phosphate, non-corrosive alkali emulsifier
- Used specifically on all carbon-based derivatives that are found on the oil and/or process side of critical equipment or systems
- Can be used on heat exchangers, lube oil coolers, crank cases, machine parts, and any other hydrocarbon-based fouled equipment



RYDALL-DD 5GAL

Part #	Mfg #	Description
CHM00789	RYDALL-DD 5GAL	5 Gallon Jug
CHM00790	RYDALL-DD 55GAL	55 Gallon Drum

## Degreasing Solvent EF



- Ozone-safe, environmentally friendly
- Volatile solvent
- Provides effective degreasing and cleaning as well as controlled drying with no residue
- Dielectric strength in excess of 26,000V

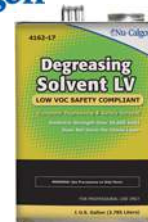


Part #	Mfg #	Description
SOV00046	4162-07	1 gal Can

## Degreasing Solvent-LV



- Removes grease and oil
- Blasts away deposits
- No chlorinated or fluorinated solvents
- Contains no lead, phosphorous or silicone
- Meets or exceeds California VOC limits



Part #	Mfg #	Description
SOV00058	4162-17	1 gal Can

## Soot Removers

### Sootspray™ Soot Remover

- The original soot remover aerosol
- It reaches where vacuum cleaners can't
- Catalytically active for safest possible soot removal
- Recommended for oil and gas-fired burners
- Contains no lead



Part #	Mfg #	Description
CHM00484	68342	14 oz Aerosol

### Sootomagic™ Soot Remover

- Soot remover stick
- Catalytically active for safest soot removal
- Recommended for oil and gas-fired burners
- Contains no lead
- Non-corrosive/non-explosive
- Fits through all combustion chamber openings



Part #	Mfg #	Description
CHM00619	68332	1/4 lb Stick

### Sootmaster™ Powder Soot Remover

- Works by catalysis and supplying extra oxygen
- Applied by scattering or dusting surface with a sprayer
- Recommended for oil and gas-fired burners
- Contains no lead



Part #	Mfg #	Description
CHM01356	68322	1 lb Bottle

# Cleaners

## Fuel Oil Deodorizers & Absorbents

### Odorgon™ Deodorizer/Absorber

- Kills odors and absorbs oil from concrete and other floors
- Leaves a pleasant odor after absorbing spills
- Non-lingering, mild scent
- Non-flammable



Part #	Mfg #	Description
CHM00604	68516	14 oz Aerosol

### Odorgon™ Deodorizer/Absorber Powder

- Kills odors and absorbs oil from concrete and other floors
- Non-explosive, non-flammable
- Sifter top



Part #	Mfg #	Description
CHM00605	68512	1 lb Powder

## Cleaners

### Heavy-Duty Parts Cleaner Concentrate

- Electronic cell and general purpose cleaner
- Biodegradable Formula, non-flammable
- Water soluble solvent, prevents rust
- For use on electronic air filters, permanent filters, registers, appliance surfaces, fans and blowers or anywhere dirt and filth are a problem



Part #	Description
EAC025101	1 gal Bottle

## Aerosol Cleaners

### Degreasing Solvent EF



- Ozone-safe, environmentally friendly
- Volatile solvent
- Provides effective degreasing and cleaning as well as controlled drying with no residue
- Dielectric strength in excess of 26,000V



Part #	Mfg #	Description
SOV00045	4083-75	17 oz Aerosol

### Degreasing Solvent-LV



- Removes grease and oil
- Blasts away deposits
- No chlorinated or fluorinated solvents
- Contains no lead, phosphorous or silicone
- Meets or exceeds California VOC limits



Part #	Mfg #	Description
SOV00057	4083-83	14 oz Aerosol

### Electrical Contact Cleaner

- Cleans, lubricates, and protects electrical contacts from corrosion
- Safe on nearly all plastics
- Removes grease, dust and oxidation
- Includes extension tube
- USDA Approved



Part #	Mfg #	Description
CHM00325	4082-03	16 oz Aerosol
CHM00730	4082-04	14 oz Aerosol

## Hand Cleaners

### Great Wipes



- Industrial strength waterless wipes
- Pre-moistened with pumice scrub
- Disposable



Part #	Mfg #	Description
CHM00989	4185-75	75 Ct Bucket

### ClenAir™ ClenHands Hand Cleaner

- Protects hands while it cleans
- Citrus-based orange crush and smoothie with lotion
- Anti-microbial cherry crush with lotion and pumice
- Petroleum-based super gel



Part #	Mfg #	Description
CHM01097	61201	1 gal Orange Crush with Pumice
CHM01087	61202	15 oz Orange Smoothie

# Coil Cleaners & Sprays

## Aerosol Condenser Coil Cleaners

### Non-Acid Aerosol Foam Condenser Coil Cleaner

- Aerosol condenser coil cleaner
- Effective, powerful condenser coil cleaner
- Easy to use aerosol spray can
- No mixing, no sprayer, no mess
- Thorough rinsing with fresh water is required



Part #	Description
CND0542AE	18 oz Aerosol

## Condenser Coil Cleaners

### Non-Acid Foaming Air-Cooled Condenser Cleaner

- Foams out stubborn deposits from coils
- Ideal for cleaning grease contaminated refrigeration coils and condensers



CND077301

Part #	Description	Dilution
CND077301	1 gal Bottle	2 to 20 Parts of Water
CND077355	30 gal Drum	2 to 20 Parts of Water
CND077305	55 gal Drum	2 to 20 Parts of Water

### Nu-Clear, Non-Acid Coil Cleaner and Brightener

- Expanding foam action, excellent for greasy contamination
- Heavy-duty detergents loosen baked-on contamination
- Brightens better than normal alkaline cleaners



CND026101

Part #	Description	Dilution
CND026101	1 gal Bottle	3 to 40 Parts of Water
CND026105	5 gal Pail	3 to 40 Parts of Water
CND026130	30 gal Drum	3 to 40 Parts of Water
CND026155	55 gal Drum	3 to 40 Parts of Water

## Non-Acid Coil Cleaner Base

- 100% Active ingredients
- Contains all ingredients to make a cleaner suitable for your application
- Versatile BASE formulation saves money
- Excellent for greasy contamination
- Heavy-duty detergents loosen baked-on contamination



Part #	Description	Dilution
CND024632	1 qt Bottle	6 to 80 Parts of Water

## Black-Max Non-Acid Condenser Coil Cleaner & Brightener

- Premium grade alkaline expanding foam action
- Brightens better than normal alkaline cleaners
- Must be thoroughly rinsed with water
- Contains hazardous component potassium hydroxide
- Good ventilation, protective gloves, and eye protection required



Part #	Description	Dilution
CND051901	1 gal Bottle	3 to 40 Parts of Water

## Aerosol Evaporator Cleaners

### No-Rinse Aerosol Evaporator Cleaner

- Aerosol evaporator coil cleaner, no-rinse required
- Effective, safe evaporator coil cleaner
- Easy to use aerosol spray can
- No mixing, no sprayer, no mess



Part #	Description
EVP0543AE	18 oz Aerosol



# Coil Cleaners & Sprays

## Evaporator Coil Cleaners

### Self-Rinsing Evaporator Cleaner Base

- 100% Active Ingredients
- Super concentrate
- No foaming action
- Rinsing is not required



Part #	Description	Dilution
EVP024732	1 qt Bottle	23 Parts of Water

### Pre-Clean HVAC System Cleaner

- HVAC System cleaner for use prior to anti-foulant treatment
- Contains no harsh acids or free alkali
- Effectively removes organic and inorganic contamination from coils
- Leaves no residue
- No foaming action



Part #	Description
EVP027401	1 gal Bottle

### Self-Rinsing Evaporator Coil Cleaner

- Odorless, non-toxic, deodorizes and easy to use
- Doesn't etch or react with aluminum to form hydrogen gas
- Emulsifies contamination; penetrates, loosens, and mixes with dirt to make it water soluble
- No rinsing required
- Cleans and treats air conditioning systems for maximum efficiency
- Retards future dirt accumulation and eliminates slime in condensate areas



EVP027101

Part #	Description	Dilution
EVP027101	1 gal Bottle	Up to 6 Parts of Water
EVP027105	5 gal Pail	Up to 6 Parts of Water
EVP027155	55 gal Drum	Up to 6 Parts of Water

## Aerosol Coil Protectants

### Fin Protectant Air-Cooled Condenser Coil Coating

- Condenser coil corrosion protection
- Protects aluminum-finned condensers from corrosion caused by salt air, industrial plants, exhaust from airports and freeways
- Acrylic polymer sealant protects aluminum, copper, brass, bronze, chrome, galvanized metal, titanium, and stainless steel
- Economical and easily field applied
- Not affected by thermal expansion and contraction



Part #	Description
CTG0275AE	16 oz Aerosol

### Enviro-Coil™ Coil Cleaner Concentrate

- Eco friendly; cleans evaporator and condenser coils
- Use for regular maintenance or PM schedules
- Does not etch or react with aluminum to form hydrogen gas
- Attacks only the dirt buildup, not the equipment



CEV025501

Part #	Description	Dilution
CEV025501	1 gal Bottle	Condenser Coils: 4 Part of Water Evaporator Coils: 8 Parts of Water
CEV025530	30 gal Drum	Condenser Coils: 4 Part of Water Evaporator Coils: 8 Parts of Water
CEV025555	55 gal Drum	Condenser Coils: 4 Part of Water Evaporator Coils: 8 Parts of Water

## Coil Protectants

### Fin-Saver No Corrosion Fin Protectant Spray

- Condenser coil corrosion protection
- Air-cooled condenser coil coating
- Does not affect heat transfer
- Prevents rust and corrosion
- Acrylic polymer coating protects aluminum, copper, brass, bronze, chrome, galvanized metal, titanium, and salt air areas



Part #	Description
CTG027501	1 gal Can



# Coil Cleaners & Sprays

## STAY KLEEN Cooling Anti-Foulant

- Evaporator anti-foulant
- Protects coils from airborne particulates and other contaminants (up to 2-3 yrs)
- Improves indoor air quality and eliminates foul odors at their source
- Contains preservatives that protect from deterioration caused by mold and bacterial growth



CTG027332 CTG027301

Part #	Description
CTG027332	1 qt Sprayer
CTG027301	1 gal Bottle

## Coil Cleaners

### RYDALL CC Biodegradable Coil Cleaner

- Cleans and brightens air-cooled condensers, permanent air filters, evaporator coils, window units and any other finned cooling/heating coils or equipment
- Non-corrosive and non-hazardous
- Will not corrode or tarnish aluminum or other metal surfaces
- Can be applied indoors or outdoors as a non-foaming spray or through a foaming applicator



Part #	Mfg #	Description
CHM00791	RYCC4	1 gal Bottle
CHM00792	RYCC5	5 gal Pail
CHM00793	RYDALL-CC 55GAL	55 gal Drum

## Aerosol Coil Cleaners

### Clean-N-Safe™ Aerosol Coil Cleaner

- Clear color
- Non-acidic, non-caustic
- Concentrated - may be used full strength, or dilute with water
- Completely biodegradable
- Acts as a corrosion inhibitor without heat transfer loss
- USDA Authorized category H-2



Part #	Mfg #	Description
CHM00202	83780	20 oz Aerosol

### Foam-A-Coil™ Coil Cleaner

- Foaming biodegradable cleaner and degreaser for evaporator and condenser coils, air conditioning, air handling equipment, electronic and permanent air filters
- Lifts grime and oil from normally inaccessible places
- Non-acid
- Non-flammable
- Environmentally responsible



Part #	Mfg #	Description
CHM01127	82640	12 oz Aerosol

### Renewz™ Non-Acid Condenser Coil Cleaner

- Leaves aluminum bright, shiny and clean in less than 5 minutes
- Loosens material in hard-to-reach places
- Recommended for:
  - Air-cooled condenser coils
  - Aluminum
  - Cooking grease
  - Electronic air filters
  - High-foaming
  - Brightener



Part #	Mfg #	Description
CHM01130	82652	14 oz Aerosol

# Coil Cleaners & Sprays

## Coil Cleaners

### Con-Coil™ Coil Cleaner

- Foaming acid coil cleaner
- Adhering foam lifts insulating contaminants and dulling oxide film in less than 5 minutes
- Recommended for
  - Finned air-cooled condenser coils
  - Electronic air filters
  - Aluminum
  - Copper



82612



Part #	Mfg #	Description
CHM00290	82612	1 gal Bottle
CHM01125	82624	5 gal Pail
CHM01126	82628	55 gal Drum

### Coil-Rite™ Coil Cleaner

- Self-rinsing cleaner and degreaser
- Lifts grime and oil from normally inaccessible places
- Recommended for:
  - Evaporator and condenser coils
  - Air conditioning and air handling equipment
  - Electronic and permanent air filters
- Non-acid
- Non-flammable



82622



Part #	Mfg #	Description
CHM01006	82622	1 gal Bottle
CHM01123	82614	5 gal Pail
CHM01124	82618	55 gal Drum

### Foam-A-Coil™ Coil Cleaner

- Foaming biodegradable cleaner and degreaser for evaporator and condenser coils, air conditioning, air handling equipment, electronic and permanent air filters
- Lifts grime and oil from normally inaccessible places
- Non-acid
- Non-flammable
- Environmentally responsible



82632



Part #	Mfg #	Description
CHM00291	82632	1 gal Bottle
CHM01129	82634	5 gal Pail
CHM01128	82638	55 gal Drum

### Renewz™ Non-Acid Condenser Coil Cleaner

- Leaves aluminum bright, shiny and clean in less than 5 minutes
- Loosens material in hard-to-reach places
- Recommended for:
  - Air-cooled condenser coils
  - Aluminum
  - Cooking grease
  - Electronic air filters
  - High-foaming
  - Brightener



82644



Part #	Mfg #	Description
CHM00289	82644	1 gal Bottle
CHM01131	82646	5 gal Pail
CHM01132	82650	55 gal Drum

## Coil Cleaning Kits

### Desolv™ Mini-Split Evaporator Coil Cleaning Kit

- For deep cleaning indoor evaporator of mini-split A/C units
- Reusable
- Includes:
  - 1 gal Desolv™ cleaning solution
  - C-Band frame assembly
  - (2) Single-use replacement bags
  - (2) Wedge sheets
  - 5 gal Drain pail
  - Installation instructions



Part #	Mfg #	Description
KIT17448	82560	Desolv Mini-split Kit

### Desolv™ Replacement Bag

- Single-use



Part #	Mfg #	Description
TOL04422	82562	10/Case

## Coil Cleaners

### Pro Coil Cleaner



Part #	Mfg #	Description
CHM00536	8-EG	1 gal Green No Rinse (Non-Toxic)
CHM00535	8-EB	1 gal Blue Concentrate (Non-Acid)

# Coil Cleaners & Sprays

## Pro-Green™ No-Rinse Non Toxic Coil Cleaner

- Self-rinsing evaporative coil cleaner
- Can be used on air-cooled condensers, electronic filters and fan blades



Part #	Mfg #	Description
CHM00516	PRO-GREEN	1 gal Bottle

## Pro-Blue™ Alkaline Outdoor Coil Cleaner

- Heavy-foaming alkaline
- Cleans and brightens
- Non acid formula



Part #	Mfg #	Description
CHM00518	PRO-BLUE	1 gal Bottle

## Pro-Brown™ Foaming Coil Cleaner

- Ultra-high foaming formula
- Pulls out deeply embedded dirt
- Fast, dual-action formula cleans and brightens
- Biodegradable and safer than foaming hydrofluoric acid cleaners



Part #	Mfg #	Description
CHM00692	PRO-BROWN	1 gal Bottle

## Pro-Yellow™ Non Toxic Coil Cleaner

- Non-acid coil cleaners and brightener
- Effective formula quickly removes dirt and grime from outdoor coils
- Strong foaming action removes even stubborn deposits easily



Part #	Mfg #	Description
CHM00517	PRO-YELLOW	1 gal Bottle

## Pro-Red Plus™ Outdoor Coil Cleaner

- Cleans and brightens
- Vigorous foaming action
- Non-acid formula



Part #	Mfg #	Description
CHM00823	PRO-RED+	1 gal Bottle

## Pro-Kleen™ Outdoor Coil Cleaner



Part #	Mfg #	Description
CHM00729	PRO-KLEEN	1 gal Bottle

## Foam-Plus™ Foaming Coil Cleaner

- Heavy-duty foam detergent coil cleanser
- Aerosol can with lemon fragrance



Part #	Mfg #	Description
CHM00299	358-20	19 oz Aerosol

## Saf-N-Kleen™ Coil Cleaner

- Aerosol solvent, high solvency formula
- Dissolves dirt, grease, oil or other residue blasting nozzle clears it away
- Nonflammable, nonconductive



Part #	Mfg #	Description
SOV00051	357-20	18 oz Aerosol

# Coil Cleaners & Sprays

## Coil Guard

- Use where salt air accelerates rust and decay



Part #	Mfg #	Description
CHM00665	C20BL	20 oz Blue

## Triple-D™ Universal Coil Cleanser

- Ideal for indoor and outdoor coils
- Will not damage aluminum or other non-ferrous metals
- Safe for use in food processing facilities
- Triple action formula



TRIPLE-D-AER TRIPLE-D

Part #	Mfg #	Description
TRIPLE-D-AER	TRIPLE-D-AER	19 oz Aerosol
CHM01027	TRIPLE-D-RTU-FC	1 qt Trigger Spray (Canada)
CHM00625	TRIPLE-D	1 gal Concentrate
CHM01026	TRIPLE-D-FC	1 gal Concentrate (Canada)
CHM01412	TRIPLE-D-5	5 gal Concentrate
CHM01411	TRIPLE-D-32	32 oz Concentrate
CHM01400	TRIPLE-D-55	55 gal Container

## EZ-Mix™ Granular Coil Cleaner™

### EZ-Mix™ Blue

- Foams and lifts away deposits from air-cooled condensers and coils
- Non-acid formula does not emit corrosive fumes and will not rust ferrous metals



Part #	Mfg #	Description
CHM00719	SCM-833-01	16 oz

## EZ-Mix™ Green

- Cleaning action that removes dirt, lint, grease and other contaminants from evaporator coils
- Cleans, deodorizes and rids condensate pans of slime
- Non-toxic and biodegradable
- Coils do not require rinsing after using this product



Part #	Mfg #	Description
CHM00720	SCM-834-01	16 oz

## Coil Guard™

- Ideally used in coastal areas where salt air accelerates rust and decay
- Highly recommended for use in all geographical areas to prolong life of a unit
- Coil Guard™ dries quickly and immediately resists salt spray, alcohol, acids, soap solutions
- Weather will not blacken unit
- High dielectric properties and no effect on heat transfer



Part #	Mfg #	Description
CHM00987	CG-AER	20 oz Clear Aerosol

## Coil Cleaner Aerosols

### Cal-Blast® Condenser Coil Cleaner

- High performance aerosol with excellent solvency and blasting spray
- Quick-drying solvent with a pleasant scent
- High dielectric strength and non-flammable



Part #	Mfg #	Description
CHM00988	4132-20	20 oz Aerosol



# Coil Cleaners & Sprays

## CalClean® Coil Cleaner

- Heavy-duty detergent formulation of surfactants, grease solvents, alkaline cleaners, corrosion inhibitors and water conditioners
- For spray cleaning evaporator coils, air-cooled condenser coils, metal filters and fan blades
- Biodegradable
- USDA approved



Part #	Mfg #	Description
CHM00324	4081-75	20 oz Aerosol

## Evap Foam® Coil Cleaner

- High performance foaming detergent with special surfactants and alkaline cleaners
- "No rinse required" condenser coil cleaner
- Spray right side up or upside down
- For cooling or evaporator coils



Part #	Mfg #	Description
CHM00354	4171-75	18 oz Aerosol

## Evap-Fresh® Coil Cleaner

- Coil cleaner and disinfectant
- Effectively cleans as well as kills mold, slime and bacteria
- "No rinse required" condenser coil cleaner
- One-step cleaner



Part #	Mfg #	Description
CHM00708	4166-75	18 oz Aerosol

## Nu-Blast® Coil Cleaner

- "No rinse required" condenser coil cleaner
- High pressure blast plus solvent cleaning



Part #	Mfg #	Description
CHM00392	4290-75	18 oz Aerosol

## Nu-Brite® Coil Cleaner

- Foaming coil cleaner
- Brightens as it cleans
- Safer than acids
- Biodegradable, USDA approved



Part #	Mfg #	Description
CHM00589	4291-18	18 oz Aerosol
CHM00586	4291-18C	18 oz Aerosol (Canada)

## Coil Cleaners

### Alka-Brite® Coil Cleaner

- High foaming alkaline based
- For brightening and cleaning air-cooled condensers
- Biodegradable
- Heavy-duty



4120-08

Part #	Mfg #	Description
CHM00332	4120-08	1 gal Bottle
CHM00445	4819-PB	2.5 gal Pail (Canada)
CHM00334	4120-01	55 gal Drum

### Alka-Brite® Plus Coil Cleaner

- High foaming alkaline based
- For brightening and cleaning air cooled condensers
- Biodegradable
- Heavy-duty



Part #	Mfg #	Description
CHM01408	4120-08	1 gal Bottle
CHM01415	4120-05	2.5 gal Pail

# Coil Cleaners & Sprays

## Blackhawk® Expanding Foam Coil Cleaner

- Safe for cleaning HVAC/R coils in food processing areas
- Metal/plastic safe
- Non-rinse for evaporators
- Nonflammable and biodegradable
- Sprays from any angle
- NSF Certified



Part #	Mfg #	Description
CHM01404	4127-75	18 oz Can

## Cal-Brite® Coil Cleaner

- Low-ph or acid-based product
- For cleaning evaporator coils, air-cooled condensers and other finned cooling and heating coils
- Based upon glycolic acid and ammonium bifluoride
- Can be used inside or outside



4133-08

Part #	Mfg #	Description
CHM00337	4133-08	1 gal Bottle
CHM00521	4133-08C	1 gal Bottle (Canada)
CHM00440	4133-01	55 gal Drum

## CalClean® Coil Cleaner

- Formulation of liquid detergents
- Contains a balance of surfactants, grease solvents, alkaline cleaners, corrosion inhibitors and water conditioners
- Concentrated detergent designed to be diluted with 4 to 10 parts of water



4135-08

Part #	Mfg #	Description
CHM00341	4135-08	1 gal Bottle
CHM00446	4820-08	1 gal Bottle (Canada)
CHM00342	4135-06	2.5 gal Pail
CHM00343	4135-01	55 gal Drum

## Cal-Shield™ Coil Cleaner

- Synergistic liquid formulation based upon DuPont's Teflon® fluoro-additives
- Extends life of finned coils operating in corrosive environments like salt air and in food acids
- Food grade product
- Ready to use spray on application



4148-32



4148-08



Part #	Mfg #	Description
CHM00348	4148-32	1 qt Spray
CHM00349	4148-08	1 gal Bottle

## Cal-Green® Coil Cleaner

- Biodegradable
- Low-foaming, non-toxic coil cleaner
- Part of Nu-Calgon's "Green Select" program
- EPA Design for the Environment (DfE) recognized for safer chemistries



4190-08

Part #	Mfg #	Description
CHM00764	4190-08	1 gal Bottle
CHM00831	4190-01	55 gal Drum

## Special HD CalClean® Coil Cleaner

- Extra-strong liquid detergent for evaporators and condensers
- Contains surface-active agents, grease solvents, alkaline cleaners, corrosion inhibitors and water conditioners
- Designed for cleaning electronic air filters
- Will not corrode or tarnish aluminum or other metals when used at the recommended concentrations



4143-08



Part #	Mfg #	Description
CHM00347	4144-24	1 qt Spray
CHM00344	4143-08	1 gal Bottle
CHM00448	4823-08	1 gal Bottle (Canada)
CHM00345	4143-06	2.5 gal Pail
CHM00346	4143-01	55 gal Drum

# Coil Cleaners & Sprays

## Evap-Fresh® No Rinse Evaporator Coil Cleaner

- Ready-to-use, non-abrasive, one-step cleaner and disinfectant
- For evaporator coils in small air conditioners, commercial air handling equipment, HVAC cooling coils and refrigeration equipment
- Kills viruses like SARS, Norwalk, Rotovirus and more



4166-08

Part #	Mfg #	Description
CHM00707	4166-08	1 gal Bottle
CHM01009	4166-01	55 gal Drum

## Evap Pow'r-C® Evaporator Coil Cleaner

- "No-rinse" product formulated for cleaning indoor evaporator coils
- Metal-safe
- Cleans and emulsifies the most stubborn soils and deposits
- Biodegradable
- USDA Authorized



4168-08

Part #	Mfg #	Description
CHM00351	4168-08	1 gal Bottle
CHM00522	4168-08C	1 gal Bottle (Canada)
CHM00352	4168-05	2.5 gal Pail
CHM00747	4168-01	55 gal Drum

## Foam-Brite® Condenser Coil Cleaner

- Non-acidic, alkaline-based cleaner and brightener
- Contains biodegradable ingredients and a chelant/surfactant package to penetrate and remove greasy soils and oxidation
- High foaming formula
- Does not contain any acids
- Not for indoor use or use on evaporator coils



4178-08

Part #	Mfg #	Description
CHM00355	4178-08	1 gal Bottle
CHM00523	4178-08C	1 gal Bottle (Canada)
CHM00356	4178-05	2.5 gal Pail
CHM00357	4178-01	55 gal Drum

## Green Clean® Coil Cleaner

- All purpose cleaner
- Rapidly removes grime and other heavy soils
- Penetrates greasy and oily surfaces
- Non-corrosive
- Part of NuCalgon's "Green Select" program
- EPA Design for the Environment (DfE) recognized for safer chemistries



4186-08

Part #	Mfg #	Description
CHM00367	4186-24	1 qt Spray
CHM00368	4186-08	1 gal Bottle
CHM00524	4186-08C	1 gal Bottle (Canada)
CHM01096	4186-01	55 gal Drum

## Evap-Green® Coil Cleaner

- VOC free coil cleaner
- Biodegradable and free of dyes, fragrances and masking agents



4191-08

Part #	Mfg #	Description
CHM00765	4191-08	1 gal Bottle
CHM00820	4191-01	55 gal Drum

## Tri-Pow'r™ HD Coil Cleaner

- General purpose coil cleaner
- Detergency, degreasing and deodorizing capability
- Non-acid, non-toxic and biodegradable



4371-88

Part #	Mfg #	Description
CHM00426	4371-88	1 gal Bottle
CHM00525	4371-88C	1 gal Bottle (Canada)
CHM01165	4371-88P	1 gal Bottle, Bulk Pallet
CHM00443	4371-81	55 gal Drum



# Coil Cleaners & Sprays

## TriClean 2X Coil Cleaner

- For the annual cleaning of residential and light commercial outdoor A/C coils
- Simply connect to hose, clean, and rinse
- Restores system efficiency by rapidly emulsifying insulating soils from outdoor coil
- A must-have for any clean and check preventative maintenance program
- Cleans where water alone is ineffective
- Metal safe, biodegradable chemistry
- (1) Bottle cleans up to (3) 5.0-ton coils
- No sprayer required



Part #	Mfg #	Description
CHM01010	4372-24	1 qt Bottle w/Hose Connector

## Nu-Brite® Condenser Coil Cleaner

- Non-acid, alkaline-based
- For cleaning and brightening
- Formulated with foaming detergents and chelants to penetrate and dissolve greasy dirt and grime and foam it right out of the coil
- Safer alternative to acids



Part #	Mfg #	Description
CHM00393	4291-08	1 gal Bottle
CHM00457	4891-08	1 gal Bottle (Canada)
CHM01095	4291-08P	1 gal Bottle, Bulk Pallet
CHM00394	4291-05	2.5 gal Pail
CHM00395	4291-01	55 gal Drum

## Nu-Solve NR Condenser Coil Cleaner

- Ready-to-use, non-rinse, non-foaming coil cleaner
- Plastic, metal and rubber safe



Part #	Mfg #	Description
CHM01410	4295-08	1 gal Bottle

## CompleteCare Mini-Split Cleaning Kit

- Evap-Fresh™ will clean, disinfect and deodorize the evaporator coil as well as control mold and mildew
- The PurCool® green mini-strip can be cut to size to treat the drain pan and prevent slime build-up in drain lines and overflows
- Includes:
  - (1) 18 oz Can Evap-Fresh™ no-rinse evaporator coil cleaner and disinfectant (4166-75)
  - (1) PurCool® green mini-strip (61044)



Part #	Mfg #	Description
KIT16785	4151-08	Mini-Split Cleaning Kit

## Chemical Sprayers

### Compression Sprayer

- Environmentally safe foam
- 5-Year warranty



Part #	Mfg #	Description
TOL01569	1002	Hand-Held Sprayer
TOL01570	2601	1 gal Wand Sprayer
TOL01571	2602	2 gal Wand Sprayer
TOL01572	2603	3 gal Wand Sprayer

### Chemical Spray Parts

Part #	Mfg #	Description
KIT08111	2600-HOSE	42" Replacement Hose Assembly for 2601, 2602, & 2603
KIT08114	2600-NOZZLE	Replacement Nozzle for 2601, 2602, & 2603
KIT08112	2600-VALVE	Replacement Shut-Off Valve Assembly for 2601, 2602, & 2603
TOL03165	2600-WAND-23 G	Wand for 2602 & 2603

# Coil Cleaners & Sprays

## All Purpose Sprayer

- Lightweight and versatile bottle
- Adjustable nozzle atomizes any low viscosity liquid
- Adjusts from mist to 12' jet stream



Part #	Mfg #	Description
TOL01890	BS-16	1 pt Spray Bottle
TOL01891	BS-32	1 qt Spray Bottle

## Dial-a-Mix Coil Gun

- Dial in exact mix ratio to properly clean coils
- 5 Mix ratios
- Quick disconnect



Part #	Mfg #	Description
TOL02994	540-GUN	1/2 gal Gun

## Power Sprayer for Coil Cleaning

- Backpack
- Battery powered, rechargeable



Part #	Mfg #	Description
PMP02038	PS-1	4 gal Rechargeable Sprayer
PMP02039	PS-WAND	Replacement Wand

## Sprayers

### Coil Gun® Sprayer & Probe

- Use for coil cleaning, in food preparation areas, wash rooms, or where use of water-diluted chemicals are required
- No pre-mixing is necessary as chemical and water blended in mixing head as you spray
- Coil Gun® probe has 90° direction of spray that allows cleaning from inside the coil



Part #	Mfg #	Description
TOL03931	4774-1	Coil Gun® Probe

## Coil Gun® Sprayer



- Quick-disconnect feature
- Foam wand to enhance foaming
- 5 Mix ratio settings, hose-end sprayer

Part #	Mfg #	Description
DST00857	4774-0	2 qt Capacity

## Multi-Purpose Sprayer



- For small cleaning jobs, such as window units and water coolers

Part #	Mfg #	Description
DST00851	4768-W3	24 oz Sprayer

## No. 50P Poly Sprayer



- Nozzle is adjustable and flow rate controlled by a thumb lever
- Includes 7" polyethylene pump
- Constructed of high-density translucent polyethylene

Part #	Mfg #	Description
DST00852	4770-0	0.5 gal Capacity Sprayer

## No. 100P Cal-Shield Poly Sprayer

- Funnel top for easy chemical pouring
- Comes with an 8" polyethylene pump, brass handle and extension tube with adjustable nozzle, wear-resistant hose and pressure relief valve
- Recommend for Cal-Shield applications
- Constructed of high-density translucent polyethylene



Part #	Mfg #	Description
DST00853	4770-2	1 gal Sprayer

## No. 200P Poly Sprayer

- Funnel top for easy chemical pouring
- Pressurize with water through a quick disconnect fitting or by pumping
- All-brass hardware
- Constructed of high-density translucent polyethylene



Part #	Mfg #	Description
DST00854	4771-2	2 gal Capacity Sprayer

# Coil Cleaners & Sprays

## No. 220CP Poly Sprayer

- Funnel top for easy chemical pouring
- Includes 8" pump, high resin plastic adjustable nozzle with 3' hose
- Constructed of high-density translucent polyethylene



Part #	Mfg #	Description
DST00855	4771-3	2 gal Capacity Sprayer

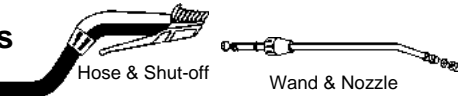
## No. 300P Poly Sprayer

- Funnel top for easy chemical pouring
- Includes 10" celcon pump, brass extension tube with adjustable nozzle and 5' vinyl hose
- Constructed of high-density translucent polyethylene



Part #	Mfg #	Description
DST00856	4772-0	3.5 gal Capacity Sprayer

## Sprayer Parts



Part #	Mfg #	Description
HDL00964	2CP04	Hose & Shut-off for 4771-3 & 4772-1
TOL04313	2CP05	Wand & Nozzle for 4771-3 & 4772-1
TOL04314	2CP06	Complete Pump Assembly for 4771-3 & 4772-1
TOL03000	30P05A	Brass Extension Wand & Nozzle for 4772-0
HSE01479	30P03A	5' Hose with Handle
PMP01680	30P12	Pump Assembly

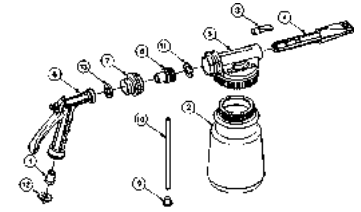
## Spare Parts Kit



- For #4770-0 sprayer kit
- Includes: O-rings, nozzle valve pin, check valve clip, spring

Part #	Mfg #	Description
KIT14918	05SPK	Spare Parts Kit
TOL04315	30PSP	Spare Parts Kit

## Coil Gun Part



Part #	Mfg #	Description
VAL08028	PG01	Pistol Grip Shut-off Valve (#6, 1, 12)
TOL04602	PG09	Deflector (#3)
TOL02143	PG09A	Foam Wand (#4)
CPL01035	PG14	Female Quick Coupler (#7)
CPL01228	PG13	Male Quick Coupler (#8)

## Parts & Accessories

### ClenAir™ Coil Mate Hose

- Ideal for use with Nu-Calgon sprayers and coil cleaners
- Durable, reinforced hose construction with crush proof solid brass wrench fittings and a flex-guard collar that provides added hose protection at the female fittings - an area most susceptible to damage from overuse.



Part #	Mfg #	Length	Description
HSE01776	61231	50'	3-Year
HSE01788	61235	50'	10-Year, Green
HSE01789	61236	75'	10-Year, Green
HSE01792	61239	75'	10-Year, Premium

### Molded Plastic Pistol Grip Nozzle

- Connected to standard 5/8" hose
- Brass valve stem
- Leakproof
- Metal head insert, hold open clip and permanent adjusting nut
- Contoured grip
- Lifetime replacement policy



Part #	Mfg #	Material	Color
NOZ01009	61241	Plastic	Green

# Descalers

## Chemicals

### RYDLYME LYMESCENT

- Use LYMESCENT to enhance your RYDLYME cleaning experience
- Each liter treats up to 100 gal of RYDLYME concentrate



Part #	Mfg #	Description
CHM00794	LYMESCENT	Liter Bottle

## Scale Removal/Descaling

### RYDLYME Biodegradable Descaler

- Non-hazardous, non-corrosive, non-flammable, non-injurious, non-toxic descaler
- Heavily fortified with wetting and penetrating agents
- Dissolves water scale, lime, mud, rust and other water formed deposits from water operated equipment



Part #	Mfg #	Description
CHM00544	RYD04	1 Gallon Bottle
CHM00549	RYD04-C	1 Gallon Bottle (Canada)
CHM00545	RYD05	5 Gallon Jug
CHM00550	RYD05-C	5 Gallon Jug (Canada)
CHM00546	RYD30P	30 Gallon Drum
CHM00551	RYD30P-C	30 Gallon Drum (Canada)
CHM00547	RYD55P	55 Gallon Drum
CHM00552	RYD55P-C	55 Gallon Drum (Canada)
CHM00548	RYD330M	330 Gallon Tote
CHM00553	RYD330M-C	330 Gallon Tote (Canada)

## Water Treatment

### RYDLYME pH Slayer Alkali Suspension

- For the treatment of wastewater and effluents in need of pH adjustment
- Ideal for broad application in acid neutralization, flue gas treatment, gas stream purification and for chemical processing
- Easy to handle and non-hazardous for workers when used in the slurry suspension state



Part #	Mfg #	Description
CHM00741	PHS-05	5 Gallon Jug

## Scale Removal Systems

### GDS-C40 Descaler System

- 1/2 hp; 7.6A
- 115V, 60Hz AC
- Output water flow: 15 gpm
- Acid-proof pump and fittings
- Flow reversal valve
- Run dry or with 15 gpm pump
- 10 gal Reservoir tank
- Venting cap for closed systems
- Weight: 37 lbs net dry
- Includes multiple fittings and (2) 10' circulation hoses

GOODWAY



Part #	Mfg #	Description
TOL03857	GDS-C40	Descaler System

### GDS-C92 Descaler System

- 3/4 hp; 8.6A
- 115V, 60Hz AC
- Output water flow: 21 gpm
- Acid-proof pump and fittings
- Flow reversal valve
- Run dry or with 21 gpm pump
- 15 Gallon reservoir tank
- Venting cap for closed systems
- Weight: 50 lbs net dry
- Includes multiple fittings and (2) 10' circulation hoses

GOODWAY



Part #	Mfg #	Description
TOL03858	GDS-C92	Descaler System

## Chemical Descalers

### Low Foaming Heat Exchanger Descaler

GOODWAY

- For all types of water scale, lime, and rust
- Biodegradable

Part #	Mfg #	Description
CHM00683	ScaleBreak-5	5 gal Jug
CHM00684	ScaleBreak-30	30 gal Drum
CHM00685	ScaleBreak-55	55 gal Drum
CHM00686	ScaleBreak-330	330 gal Tote

### Descaling Solution

GOODWAY

- Stainless steel safe

Part #	Mfg #	Description
CHM00853	SCALEBREAK-SS-5	5 gal Jug
CHM00854	SCALEBREAK-SS-30	30 gal Drum
CHM00855	SCALEBREAK-SS-55	55 gal Drum
CHM00856	SCALEBREAK-SS-275	275 gal Tote

# Heating Chemicals

## Specialty Products

### Thermo-Trap® Gel



- Heat absorbing paste to isolate heat encountered in soldering, welding, and brazing
- Adheres to all surfaces
- Will not melt or run
- Cleans up easily, will not stain work surfaces
- Harmless to skin and clothing, odorless
- 100% Biodegradable



4371-53 4371-32

Part #	Mfg #	Description
CHM00816	4371-53	4 oz Spray Bottle
CHM00781	4371-32	32 oz Spray Bottle

### Thermo-Trap® Paste



- Heat absorbing paste to isolate heat encountered in soldering, welding, and brazing
- USDA Approved



Part #	Mfg #	Description
CHM00425	4371-36	11 oz Tube



# General Purpose Chemicals

## General Purpose Aerosols

### Cold Galvanizing Compound

- Repairs factory galvanized material damaged in shipment, welding, and assembly
- Blends well with hot-dip coating



Part #	Mfg #	Description
CHM00327	4087-03	16 oz Aerosol

### Pump Protector

- Protects seasonally operated pumps against corrosion during shutdowns by winterizing them
- Safe for all types of water pumps



Part #	Mfg #	Description
CHM00406	4299-T8	10 oz Aerosol

### Food Grade Silicone Lubricant

- Sprays non-stick surface on ice machine surfaces, vending machines, coin slots, hot plates, slicing machines and other food processing/packaging equipment
- Contains ingredients approved by FDA for food contact use
- USDA Approved



Part #	Mfg #	Description
LUB00055	4084-03	11 oz Aerosol

### Nu-Shield® Protectant

- A specially formulated super-hydrophobic (water repelling)
- Coil and surface protectant
- Anti-wetting
- Reduces icing
- Anti-corrosion
- Self-cleaning
- Reduces bacterial growth



Part #	Mfg #	Description
CHM01116	4294-75	9 oz Aerosol

## ClenAir Cleaners

### A/C Shine

- Cleans exterior metal surfaces



Part #	Mfg #	Description
CHM01094	61118	12 oz Can

## Drain Cleaners

### Drain Solve Drain Opener

- Alkaline-based drain opener
- Removes grease, hair, vegetable and other organic matter
- Non-fuming
- Does not contain sulfuric acid



4165-24

Part #	Mfg #	Description
CHM00837	4165-24	1 qt Bottle
CHM00818	4165-08	1 gal Bottle

## Pneu-Flush™ Air Line Flushing Compound

- Cleans and purges the compressed air lines in HVAC control and other pneumatic systems
- Utilizes DuPont® Vertrel® XM ozone-safe cleaning solvent



Part #	Mfg #	Description
CHM00830	4298-01	2 lb Canister

## Cleaners and Sanitizers

### Spray Nine Cleaner & Disinfectant

- Cleans and disinfects any hard non-porous surfaces



61110

Part #	Mfg #	Description
CHM01083	61113	32 oz Spray Bottle
CHM01082	61110	1 gal bottle
CHM01163	61114	5 gal bottle

# General Purpose Chemicals

## Elite Performance Windshield Washer Fluid

- Freeze protection to -20°F



Part #	Mfg #	Description
CHM01084	61115	1 gal Bottle

## Degreasers

### Grez-Off Heavy Duty Degreaser

- Biodegradable, non-flammable formula



61117

61116

Part #	Mfg #	Description
CHM01086	61117	32 oz Spray Bottle
CHM01085	61116	1 gal Bottle

## General Purpose Aerosols

### Chisel® Gasket Remover (Methylene Chloride)

- Removes gaskets from any type assembly in 10 to 15 minutes
- Prepares metal parts for new gaskets, eliminating scraping and sanding
- Works on wood
- Non-corrosive on aluminum
- Not for use on plastics, linoleum, or synthetic fibers



Part #	Mfg #	Description
SOV00004	79040	18 oz Aerosol

## Primer T™ Primer

- Acetone/isopropanol base
- Anaerobics application
- Dry time: 30 to 70 seconds



Part #	Mfg #	Description
CHM00208	22477	4.5 oz Aerosol

## Degreasers

### K.O.™ Dirt Blaster Cleaner/Degreaser

- High pressure cleaner and degreaser for small condenser coils
- Strips off dirt and cooking grease without a water rinse
- High dielectric strength
- Non-flammable
- Quick-drying safety solvent with pleasant scent



Part #	Mfg #	Description
CHM00771	88438	20 oz Aerosol

### Grime-Solv™ Cleaner/Degreaser

- Foaming heavy-duty cleaner and degreaser
- Lifts encrusted grime, grease or carbon
- Use to remove stains from concrete driveways and brick walls, to clean white wall tires and for cleaning surfaces before painting
- Recommended for:
  - Oil burning
  - A/C and refrigeration equipment
  - Marine and automotive engines
  - Machinery that can be rinsed with water or wiped with a rag
- Safe for metals
- Wipes clean or rinses with water
- Non-flammable and non-corrosive



Part #	Mfg #	Description
CHM01310	88436	14 oz Aerosol



# General Purpose Chemicals

## Zipp™ Cleaner/Degreaser

- Quick drying, safety solvent degreaser that instantly removes grease, oil, waxes, tar, gums, grime, dirt, carbon, greasy stains, bilge slime and similar soils from most hard surfaces
- Will not short out electrical equipment
- Recommended use:
  - Oil burner parts
  - Compressors
  - Refrigeration units
  - Greasy fan blades
  - Strainers
  - Engines
  - Stoves
  - Relay contact points
  - Electrical equipment
- Leaves no residue
- Non-flammable
- Non-conductive



Part #	Mfg #	Description
CHM01309	82642	14 oz Aerosol

## Zipp™ II Cleaner/Degreaser

- Quick drying, safety solvent degreaser that instantly removes grease, oil, waxes, tar, gums, grime, dirt, carbon, greasy stains, bilge slime and similar soils from most hard surfaces
- Will not short out electrical equipment
- Contains no carbon tet or restricted solvents
- Recommended use:
  - Oil burner parts
  - Compressors
  - Refrigeration units
  - Greasy fan blades
  - Strainers
  - Engines
  - Stoves
  - Relay contact points
  - Electrical equipment
- Leaves no residue
- Non-flammable
- Non-conductive
- Non-chlorinated



Part #	Mfg #	Description
CHM00458	82645	12 oz Aerosol





# Glycols

## Glycol Water Treatment

### Burst-Kontr'I® AP-100 Heat Transfer & Anti-Freeze Fluid

- Burst protection to -100°F and freeze protection to -60°F
- Maximum corrosion protection for all metals including aluminum and copper
- Non-toxic and non-corrosive propylene glycol based fluid
- Formulated for optimum heat transfer and maximum fluid life



**Nu-Calgon**

Part #	Mfg #	Description
CHM00857	4187-15	5 gal Pail

### Freez-Kontr'I® 95/5 Inhibited Propylene Glycol Heat Transfer Fluid and Anti-Freeze

- For chilled water, hydronic and other closed systems
- Concentrated 95% propylene glycol formula provides optimum freeze and burst protection
- Fully inhibited to prevent corrosion
- Non-flammable
- Low in acute oral toxicity



**Nu-Calgon**

4188-06

Part #	Mfg #	Description
CHM00996	4188-06	5 gal Pail
CHM00998	4188-03	55 gal Steel Drum

### Freez-Kontr'I® FG Inhibited USP Grade Propylene Glycol Heat Transfer Fluid

- For chilled water and hydronic systems
- 95% USP Grade propylene glycol
- Burst protection to -100°F and freeze protection to -60°F
- Fully inhibited to prevent corrosion
- Non-flammable and non-toxic
- Components in formulation conform to 21 CFR 184.1666, 21 CFR 182.6285 and 21 CFR 74.1706 of the US Code of Regulations
- NSF Listed for category Codes HT1 (heat transfer fluids with incidental food contact) and HT2 (heat transfer fluids with no food contact)



**Nu-Calgon**

Part #	Mfg #	Description
CHM00994	4188-04	55 gal Plastic Drum

## Freez-Kontr'I® Closed System Freeze Protector

- Based upon non-toxic propylene glycol
- Provides corrosion and freeze protection for chilled water, hydronic and other closed systems



4188-07



4188-05

**Nu-Calgon**



4188-02

Part #	Mfg #	Description
CHM00370	4188-07	1 gal
CHM00371	4188-05	5 gal Pail
CHM01025	4188-35	55 gal Drum
CHM00372	4188-02	55 gal Plastic Drum

## Freez-Therm® Glycol Water Treatment

- Inhibited heat transfer fluid and anti-freeze based upon ethylene glycol
- Used in chilled water, hydronic and other closed systems for both freeze point suppression and corrosion inhibition



4189-07

**Nu-Calgon**



4189-01

Part #	Mfg #	Description
CHM00373	4189-07	1 gal
CHM00374	4189-05	5 gal Pail
CHM00375	4189-01	55 gal Drum
CHM00442	4189-02	55 gal Plastic Drum

## Test Instruments

### Glycol Refractometer

- For determining the freeze protection level of ethylene glycol or propylene glycol solutions



**Nu-Calgon**

Part #	Mfg #	Description
MTR01429	61301	Glycometer Kit with Case, Pipette, Cleaning Cloth, Calibration Fluid and Screwdriver



# Odor Neutralizers

## Odor Neutralizers

### Odor Neutralizing Spray

- Neutralizes malodors caused by mold, smoke, pets, etc.
- Use anywhere foul odors are present
- Long lasting for 3 to 5 months



DEONS1616 DEONS0101

Part #	Description
DEONS1616	16 oz Sprayer
DEONS0101	1 gal Bottle

### Cal-Fresh® Deodorizer

- Available in the EU and Canada
- Kills odors by attacking the bacteria that cause them



Part #	Mfg #	Description
CHM01024	4126-40	1 qt Spray Bottle (EU/Canada)

### ClenAir™ Gel Odor Neutralizer

- For musty basements
- Removes odors quickly and permanently
- Place gel near source of the odor or in the return duct of your central air system



Part #	Mfg #	Description
CHM01058	61000	Mini-Tub, Original
CHM01154	61018	Mini-Tub, Cherry
CHM01157	61028	Mini-Tub, Orange
CHM01148	61002	1/2 lb Tub, Original
CHM01059	61001	1/2 lb Tub, Display Original
CHM01062	61010	1/2 lb Tub, Display Cherry
CHM01065	61020	1/2 lb Tub, Display Orange
CHM01060	61003	1 lb Tub, Original
CHM01063	61011	1 lb Tub, Cherry
CHM01066	61021	1 lb Tub, Orange
CHM01061	61004	3 lb Tub, Original
CHM01064	61013	3 lb Tub, Cherry
CHM01067	61023	3 lb Tub, Orange
CHM01149	61005	10 lb Tub, Original
CHM01152	61015	10 lb Tub, Cherry
CHM01155	61025	10 lb Tub, Orange
CHM01150	61006	30 lb Tub, Original
CHM01153	61017	30 lb Tub, Cherry
CHM01156	61027	30 lb Tub, Orange
CHM01151	61007	Wall Unit, Original

### ClenAir™ HVAC Odor Block

- Eliminates odors and improves indoor air quality
- Treats all home or building air through the HVAC system
- Unique self-feeding package installs in air handler or return duct system
- A true odor eliminator; not an odor mask or cover-up
- Non-toxic and environmentally friendly



Part #	Mfg #	Description
CHM01078	61060	For up to 3.0 Ton Unit & Lasts for 2 Months
CHM01079	61061	For up to 15.0 Ton Unit & Lasts for 4 Months

### ClenAir™ Liquid Odor Neutralizer

- Fast acting deodorizing product
- Eliminates odors via an oxidation process while leaving a fresh scent
- Non-toxic



Part #	Mfg #	Description
CHM01158	61030	16 oz Spray, Unscented
CHM01069	61037	16 oz Spray, Cherry
CHM01068	61033	16 oz Spray, Orange
CHM01159	61031	1 gal Bottle, Unscented
CHM01162	61038	1 gal Bottle, Cherry
CHM01160	61035	1 gal Bottle, Orange
CHM01161	61036	5 gal Bottle, Cherry

### Duct-Fresh Odor Neutralizer Spray

- Non-toxic instantaneous, super-effective odor neutralizer for HVAC ducts
- Destroys pet odors, smoke and musty smells
- Great for spot-treating



Part #	Mfg #	Size
CHM00785	SCM-831-32	1 qt

### Duct-Fresh Odor Neutralizer Gel

- Non-toxic
- Destroys pet odors, smoke and musty smells in residential, industrial or commercial application
- Gel remains effective for 6 months



Part #	Mfg #	Size
CHM00782	SCM-832-08	8 oz
CHM00783	SCM-832-16	16 oz
CHM00784	SCM-832-48	48 oz

# Leak Detection & Prevention

## Leak Detectors

### Leak Detector

- High viscosity leak detector
- Dauber-type
- Fluorescent
- Clings to all surfaces
- Freeze-proof to 0°F



Part #	Description	Color
LEK024508	8 oz Bottle	Fluorescent

### Blue Spray-Type Leak Reactant

- Leak reactor
- Pinpoint tiny leaks in pressurized gas systems
- Tacky liquids cling to vertical surfaces and the underside of tubing
- Telltale bubbles indicate leaks



Part #	Description
LEK027732	1 qt Sprayer
LEK027701	1 gal Bottle

### Radiant Leak Finder™

- Radiant color and viscous clinging formula exposes the smallest leaks
- Freeze-protection, remains effective down to 0°F



Part #	Mfg #	Size
CHM00515	RLF-8	8 oz

### Leak Finder

- Specially formulated for refrigeration and air conditioning systems especially automotive



Part #	Mfg #	Description
CHM00302	CL-8	8 oz, Brush Applicator
CHM00303	CL-64	1 gal, Brush Applicator

### Pro-Bubble™ Leak Detector

- High-bubbling
- Viscoelastic blue leak detector
- New improved formula
- Spray-on application



Part #	Mfg #	Size
CHM00534	PRO-BUBBLE-32	32 oz

### Smokeys Leak Detector

- Smoke emitter cartridge
- Low cost leak testing of heat exchangers, air ducts, tanks and boilers
- Visual air balancing of HVAC systems
- Clean, non-toxic, oil-free smoke



Part #	Mfg #	Description
TOL01650	14145	45 Second Burn Time, 150 cu ft, 10/Pk
TOL01651	14175	75 Second Burn Time, 600 cu ft, 10/Pk
TOL01652	14250	2.5 Minute Burn Time, 1100 cu ft, 5/Pk
TOL01653	14340	4 Minute Burn Time, 2500 cu ft, 5/Pk
TOL01654	14460	8 Minute Burn Time, 18000 cu ft, 1/Pk

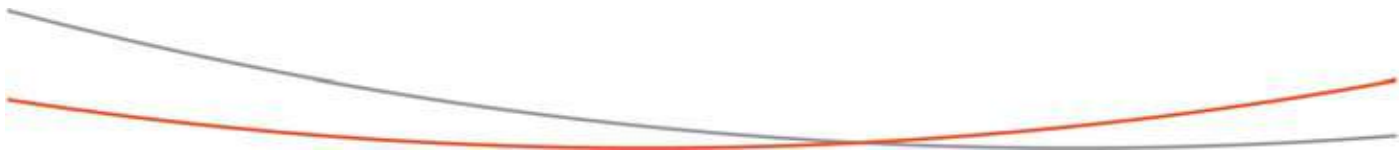
## Gas Leak Detectors

### Rectorseek™ Mid-Temp Leak Locator

- Blue color
- Detects leaks in pipe, tubing, valves, cylinders, tanks, pressure vessels, condenser/evaporator coils, refrigeration coils, and others
- Temperature range: 40° to 200°F
- Longer bubbling action
- Dauber or spray application



Part #	Mfg #	Description
CHM01346	60554	1 pt Dauber Top
CHM01345	60434	1 qt Refillable Trigger Sprayer
CHM01344	60273	1 gal Bottle
CHM01343	60158	5 gal Bottle
CHM01342	60111	55 gal



# Leak Detection & Prevention

## Rectorseek™ Low-Temp Leak Locator

- Red color
- Temperature range: -35° to 200°F
- For use on pipe and tank systems
- Not for use on oxygen leaks
- Long bubbling action provides longer inspection periods



Part #	Mfg #	Description
CHM00284	61554	1 pt Dauber Top
CHM00285	61434	1 qt Refillable Trigger Sprayer
CHM01349	61273	1 gal Bottle
CHM01348	61158	5 gal
CHM01347	61111	55 gal

## Pipe Repair Kit for Fast Leak Repairs

- Seals cracks, holes and leaks at tee and elbow joints
- Water-activated polyurethane tape wraps around pipe and hardens in minutes
- For pipes up to 1"
- Consists of 2" x 4' Knitted fiberglass cloth coated with a water-activated polyurethane resin



Part #	Mfg #	Description
CHM01366	82112	Pipe Repair Kit

## AccuTrack Ultrasonic Leak Detector

- Detects the ultrasonic sound of a leak
- Includes touchprobe



Part #	Mfg #	Description
KIT17458	61307	Smoke Pen

## Cal-Blue® LT Gas Leak Detector

- High viscosity formulation enhances contact time
- Will not affect ultraviolet (black) lights
- Non-corrosive
- Oxygen-safe
- Freeze-protected to -20°F



4183-24

Part #	Mfg #	Description
CHM00363	4183-24	1 qt Spray
CHM00364	4183-08	1 gal Bottle

## Cal-Blue® Plus Gas Leak Detector



- Detects smallest leaks
- High viscosity liquid stays in contact with applied surface for extended time
- Non-corrosive and will not affect ultraviolet lights
- Freeze protected to 5°F
- USDA Approved



4182-53

4182-24

4182-08

Part #	Mfg #	Description
CHM00360	4182-53	6 oz with Dauber
CHM00361	4182-24	1 qt Spray
CHM00362	4182-08	1 gal Bottle

## Fluorescent Gas Leak Detector

- Detects the smallest leaks
- High viscosity formula enables it to remain in contact with the applied surface for an extended period of time
- Non-corrosive to metals
- Freeze protected and safe for use on all refrigerants, natural gas and oxygen



4184-53

4184-24

Part #	Mfg #	Description
CHM00839	4184-53	8 oz Bottle with Dauber
CHM00365	4184-24	1 qt Spray
CHM00366	4184-08	1 gal Bottle



# Leak Detection & Prevention

## Original Gas Leak Detector

- Detects smallest leaks
- High viscosity formula provides long lasting bubbles and enables the product to remain in contact with the applied surface
- Non-corrosive to metal
- Freeze protected to 5°F



Part #	Mfg #	Description
CHM00450	4832-C9	6 oz with Dauber (Canada)

## Gas Leak Detector

- High viscosity liquid forms bubbles when daubed on gas leak
- Non-corrosive, non-staining and harmless to skin
- Freeze point well below 0°F
- USDA Approved



Part #	Mfg #	Description
CHM00358	4180-53	6 oz with Dauber

## Heat Exchanger Leak Detection

### The Visible Defects Heat Inspection System

- Enables technician to better evaluate the integrity of a heat exchanger by visually enhancing a crack if it exists
- Kit includes:
  - High pressure sprayer assembly
  - 1 qt Visible Defects Crack Finder solution
  - 22" Sprayer wand
  - 12" Extender/injector
  - LED UV Flex light and batteries
  - UV Protective glasses
  - Instructions
  - Handouts

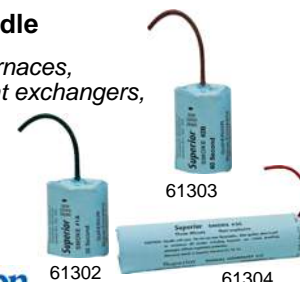


Part #	Mfg #	Description
CHM01108	4385-00	Visible Defects Kit
CHM01109	4385-06	Visible Defects Crack Finder Solution
DST01114	VDP02	22" Spray Wand and 12" Extender/Injector
DST01113	VDP03	High Pressure Sprayer Assembly

## Smoke Leak Detectors

### Smoke Signal™ Smoke Candle

- Detect leaks in duct work, furnaces, fire boxes, exhaust fans, heat exchangers, and smoke detectors
- Observe air flow patterns, evaluate exhaust systems, and test smoke detectors
- Contains no explosive materials



Part #	Mfg #	Description
CHM01090	61302	Smoke Candle 4,000 cu ft 30 sec
CHM01091	61303	Smoke Candle 8,000 cu ft 60 sec
CHM01092	61304	Smoke Candle 40,000 cu ft 2-3 min

### Smoke Pen



- Test ventilation, air balancing, smoke detectors, drafts, leakage and air flow
- Each wick provides 30 minutes continuous smoke or 360 single 30-second test burns



Part #	Mfg #	Description
TOL03926	61305	Smoke Pen with 6 Wicks
STR01505	61306	Replacement Wicks

# Pipe Thread Sealants

## Assembly Products - Bonding

### 404™ Quick Set™ Instant Adhesive

- Will bond with metal, plastic, and rubber
- Set-up 20-40 seconds, full strength 24 hours

**LOCTITE**



Part #	Mfg #	Description
ADH00031	46551	1/3 oz Bottle

### 409™ Super Bonder® Instant Adhesive

- General purpose cyanoacrylate adhesive gel
- Gel consistency prevents adhesive flow even on vertical surfaces
- Industrial grade

**LOCTITE**



Part #	Mfg #	Description
ADH00024	40904	3gm Tube
ADH00023	40945	20gm Tube

## Assembly Products - Gasketing

### 515 Gasket Eliminator® Flange Sealant

- Flexible, gasketing material
- Can be used on rigid machined flanges with less than 0.015" gap
- Eliminates preformed, pre-cut, paper, rubber and cork gaskets

**LOCTITE**



Part #	Mfg #	Description
SEL00922	51531	50mL Tube
SEL00376	51580	300mL Cartridge

### Loctite® 510™ Flange Sealant

- Withstands temperatures up to 400°F
- Fills gaps up to 0.010"
- Maintains clamping loads for strong, leakproof assemblies
- Makes or dresses gaskets in rigid assemblies
- Eliminates gasket compression set



Part #	Mfg #	Description
SEL00936	51041	250mL Tube

### Loctite® Quickstix™ 534™ Hi-Tack Gasket Dressing

- Seals and bonds rubber, cork, paper, felt, and metal gaskets
- Ideal for use in applications requiring oil resistance
- Allows a precut gasket to be positioned holding it in place for assembly
- Holds aggressively yet still allows for repositioning of cut gasket
- Seals up to 300°F

**LOCTITE**



Part #	Mfg #	Description
SEL00941	39156	19gm Stick

### Loctite® QuickStix™ 548™ Gasket Eliminator

- Semi-solid formula for on-the-spot repairs
- Quick application
- For use on a variety of metal surfaces including aluminum to form a flexible solvent resistant seal
- Seals to 300°F
- Fills gaps to 0.010"

**LOCTITE**



Part #	Mfg #	Description
SEL00939	39152	18gm Stick

## Assembly Products - Threadlockers

### 242® Medium Strength Threadlocker

- General purpose, removable threadlocker for fasteners between 1/4" and 3/4" diameters
- Controlled lubricity for accurate clamp loads
- MIL-SPEC S-46163A Type II, Grade N; NSF/ANSI 61

**LOCTITE**



Part #	Mfg #	Description
SEL00490	24221	10mL Bottle

### 248™ Medium Strength Semi-Solid Stick Threadlocker

- For 1/4" to 3/4" bolts, overhead, pre-dispensed and hard-to-reach areas

**LOCTITE**



Part #	Mfg #	Description
SLT00110	37684	9gm Stick
SLT00131	37087	19gm Stick



# Pipe Thread Sealants

## 262 Medium to High Strength Threadlocker

- Permanent threadlocker for fasteners up to 3/4" diameter
- High lubrication
- Prevents rust and corrosion in extreme chemical/environmental conditions
- MIL-SPEC S-46163A Type II, Grade O; AGRICULTURE Canada

**LOCTITE**



Part #	Mfg #	Description
SEL00954	26221	10mL Bottle

## 268™ High Strength Semi-Solid Stick Threadlocker

- For use on bolts up to 3/4", overhead, pre-dispensed and hard-to-reach areas

**LOCTITE**



37685

Part #	Mfg #	Description
SLT00112	37685	9gm
SLT00113	37686	19gm

## 271™ High Strength Threadlocker

- For fasteners up to 1" diameter

**LOCTITE**



27121

Part #	Mfg #	Description
SLT00045	27121	10mL Bottle
SLT00046	27131	50mL Bottle

## 277™ High Strength Threadlocker

- For large bolts

**LOCTITE**



27731

Part #	Mfg #	Description
SLT00037	21434	10mL Bottle
SLT00038	27731	50mL Bottle

## 290 Wicking Grade Threadlocker

- Medium strength for pre-assembled bolts up to 1/2"
- Penetrates threads by capillary action
- Secures set screw and other assemblies after settings are completed
- MIL-SPEC S-46163A Type III, Grade R; NSF/ANSI 61

**LOCTITE**



Part #	Mfg #	Description
SEL00933	29021	10mL Bottle

## MRO Products - Anti-Seize

### C5-A® Copper Based Anti-Seize

- Suspends copper and graphite in grease
- Protects metal parts from rust, corrosion, galling, and seizing at temperatures to 1800°F
- Tested to MIL-PRF-907-E



**LOCTITE**

Part #	Mfg #	Description
LUB00058	37229	20gm Stick

### Loctite® QuickStix™ Silver Grade Anti-Seize

- Patented semi-solid formula
- Protects metal parts in high heat environments up to 1600°F
- Prevents rust, corrosion, seizing and eases disassembly
- Reduces friction and wear



**LOCTITE**

Part #	Mfg #	Description
LUB00059	37230	20gm Stick

### Loctite® Silver Grade Anti-Seize

- Temperature resistance: 1600°F
- Silver

**LOCTITE**

Part #	Mfg #	Description
LUB00007	76732	8 oz Brush-Top Can

## MRO Products - Cleaners

### ODC-Free Cleaner & Degreaser 7070 (Naphtha)

- Non-aqueous, hydrocarbon-based solvent
- Designed for cleaning and degreasing surfaces to be bonded with adhesives and general purpose industrial cleaning
- Safe on aluminum, rubber and most plastics
- Contains no ozone-depleting compounds



**LOCTITE**

Part #	Mfg #	Description
SOV00006	20162	16 oz Pump Spray

## MRO Products - Lubricants

### Silicone Lubricant

- Multi-purpose non-gumming aerosol
- Stops sticking, friction, squeaking, and binding of moving parts
- Will not mar paint, rubber or plastic surfaces
- Waterproofs and electrically insulates

**LOCTITE**

Part #	Mfg #	Description
LUB00064	51360	5.3 oz Tube



# Pipe Thread Sealants

## MRO Products - Gasketing & Sealing

### Superflex™ Silicone Adhesive Sealants

- General purpose, one-part silicon adhesive cures at room temperature to form a tough rubber seal
- Coats pre-cut gaskets to increase reliability
- Formulated to withstand extreme temperature cycling, UV light, and ozone
- Cannot be painted
- Will not slump in overhead or vertical applications

**LOCTITE**



Part #	Mfg #	Description
SLT00057	59575	300mL Cartridge, Clear

## MRO Products - Thread Sealing

### 554™ Refrigerant Sealant, Thread Sealant

- Excellent solvent resistance on threaded fittings and pipes up to 3" diameter
- Recommended for refrigeration systems and service with aggressive chemicals

**LOCTITE**



Part #	Mfg #	Description
SEL01003	25882	10mL Bottle

### 565 PST® Controlled Strength Thread Sealant

- General purpose instant sealant
- For tapered and straight/tapered fittings
- Controlled strength for ease of disassembly

**LOCTITE**



Part #	Mfg #	Description
SLT00042	56507	6mL Tube
SEL00488	56531	50mL Tube

### 567 PST® High Temperature Thread Sealant

- Locks and seals tapered pipe threads and fittings including high pressure applications
- Withstands temperatures to 400°F

**LOCTITE**



Part #	Mfg #	Description
SEL00880	56747	50mL Tube

## SilaTech™ 100% Silicone Sealants

- Industrial grade
- Non-flammable, non-toxic
- Ideal for filling large cracks and seams
- Provides tough, flexible waterproof and oil resistant seal

**LOCTITE**



32392 32394

Part #	Mfg #	Description
SLT00060	32392	Aluminum, 300mL Cartridge
SLT00048	32394	Hi-Temp Red, 300mL Cartridge

## Refrigerant Sealing

### Loctite® Adhesive Sealant

**DIVERSITECH**



Part #	Mfg #	Description
SLT00125	CAS-2712	0.34 oz Bottle

## Thread Sealants

### Loctite® Thread Sealant with Teflon

- General purpose sealant with Teflon lubricity for metal pipes
- Temperature resistance: -60° to 400°F

**DIVERSITECH**



Part #	Mfg #	Description
SEL00911	7-80632	1/4 pt Brush Can
SEL00912	7-80633	1 pt 8 oz Brush Can

### Pro-Tite™ Resin-Based Thread Sealant

- Resin based thread sealant
- Use on metals and plastics subject to extreme vibration
- Service temperature: -100° to 400°F, full vacuum to 10,000 psi
- Impervious to most chemicals



Part #	Mfg #	Description
SEL00881	CLL-1	1-1/3 oz Squeeze Tube
SEL00883	CLL-16	16 oz Brush Top



# Pumping Systems

## Pumping Systems

### Model 10MDO/15MDO Magnetic Drive Pump

- Seal-less, centrifugal-type unit weighs 46 lbs
- Constructed with durable material
- Model 10MDO operates up to 40 gpm @ a 51' head
- Model 15MDO operates up to 75 gpm @ a 45' head
- Includes power supply cord and robust plastic base



10MDO



15MDO



Part #	Mfg #	Description
PMP01686	10MDO	1/2 hp, 1" Iwaki Magnetic Drive Pump
PMP01687	15MDO	3/4 hp, 1-1/2" Iwaki Magnetic Drive Pump

### Model 15MDC Magnetic Drive Pump Cart

- Drive pump is GFCI wired with switch mounted in weatherproof electrical box with 20' power cord
- Comes fully assembled on 2' x 4' heavy-duty plastic cart with 7" swivel wheels for optimal mobility and versatility
- Includes:
  - Magnetic drive pump (15MDO)
  - (3) 10' Hoses (1-1/2" diameter)
  - Bulkhead fittings
  - 30 Gallon recirculating bucket
  - Hard-piped bypass system for medium and large scale applications



Part #	Mfg #	Description
PMP01689	15MDC	Magnetic Drive Pump Cart

### Model 10PPO/15PPO Pneumatic Pump

- Polypropylene body unit weighs 29 lbs
- Self-priming
- Dry start
- Minimal maintenance with no moving parts that come in contact with liquid or rotating parts to wear
- Model 10PPO is capable of operating between 27 gpm @ a 50' head and 48 gpm @ a 230' head
- Model 15PPO is capable of operating between 80 gpm @ a 55' head and 118 gpm @ a 225' head



10PPO



15PPO



Part #	Mfg #	Description
PMP01798	10PPO	1" Yamada Double-Diaphragm Air-Powered Pump
PMP01799	15PPO	1-1/2" Yamada Double-Diaphragm Air-Powered Pump

### Model 10PPC Pneumatic Pump Cart

- Comes fully assembled on 2' x 4' heavy-duty plastic cart with 8" swivel wheels for optimal mobility and versatility
- Ideal for medium and large scale applications
- Includes:
  - Pneumatic pump (10PPO)
  - (3) 10' Hoses (1" diameter)
  - Bulkhead fittings
  - 30 Gallon recirculating bucket



Part #	Mfg #	Description
PMP01800	10PPC	Pneumatic Pump Cart



# Pumping Systems

## Model 10CIP Clean In Place Compact Pumping System

- Comes fully assembled on a steel frame hand truck with 8" pneumatic wheels for optimal mobility and versatility
- Compact design for confined or hard to reach applications
- Includes:
  - 1/2 hp Iwaki drive pump
  - (2) 10' Hoses (1" diameter)
  - Bulkhead fittings
  - 15 Gallon recirculating bucket



Part #	Mfg #	Description
PMP01709	10CIP	Clean In Place Compact Pumping System

## Pumping Systems

### PumpMaster 115V Magnetic Twin-Bearing Pump System

- 3/4" Seal-less for use with Rydlyme chemicals
- Pump design: equipped with a totally enclosed, non-ventilated, permanent magnetic centrifugal motor
- Flow rate: 4.5 gpm
- Includes:
  - (2) 10" Mesh hoses
  - 3/4" Tru-union supply valve
  - 3/4" Tru-union return valve
  - 20' Power supply cord
  - Robust, 8 gallon plastic base
  - 3/4" Bulkhead fittings



Part #	Mfg #	Description
PMP01802	PM115	Magnetic Twin-Bearing Centrifugal Pump System

## Model 75LDP Lutz Drum Pump

- Designed to quickly transfer RYDLYME from drums to your circulating system
- Capable of flow rates up to 42 gpm
- Includes (1) 800W, 9,000 rpm, 115V, 60Hz motor fitted with a 39" polypropylene tube



Part #	Mfg #	Description
PMP01753	75LDP	Lutz Drum Pump

## Complete Magnetic Drive Pump

- Includes:
  - Model 10MDO magnetic drive pump
  - (3) 10' Hoses (1" diameter)
  - Bulkhead fittings
  - 14 Gallon recirculating bucket



Part #	Mfg #	Description
PMP01688	10MDC	Magnetic Drive Pump System

Chemicals



## Thread Cutting Oil

- Designed to reduce friction
- Effective coolant and anti-weld agent
- An extreme pressure lubricant during thread cutting operations
- Will not congeal above 20°F
- Increased lubricity/longer die life
- Penetrates quickly
- Keeps dies cool



## RectorSeal® Dark Cutting Oil

- Use for hand thread cutting operations and when using low rpm machines

Part #	Mfg #	Description
OIL00324	94392	1 qt Bottle
OIL00325	94192	5 gal Bottle
OIL00326	94111	55 gal Drum

## Compressor Oil Products

### Oil-ID™ Oil Identifier Kit

- Field test kit that quickly identifies the type of refrigeration oil used in air conditioning and refrigeration systems
- For all types of oil



Part #	Mfg #	Description
KIT06755	45001	Oil Identifier Kit

### Acid-Away®

- Compressor burnout acid neutralizer
- For systems that operate on alkybenzene and mineral oil
- Chemically neutralizes acids left after a burnout
- Use in hermetic or semi-hermetic compressors that operate with standard CFC or HCFC refrigerants



Part #	Mfg #	Description
CHM00280	45004	4 oz Bottle

### Acid-Away® POE

- Compressor burnout acid neutralizer
- For systems that operate on polyolester oil
- Prevent compressor burnout by removing acid buildup from polyolester refrigeration oils
- Use in both hermetic and semi-hermetic compressors of virtually any size



Part #	Mfg #	Description
CHM00167	45009	4 oz Bottle

### Acid-Detector™ Test Kit

- Designed for use in the field to detect acid in air conditioning and refrigeration oils
- Quickly detects the smallest trace of acids
- For mineral oil and alkylbenzene



Part #	Mfg #	Description
CHM01133	45002	Test Kit

### Acid Detector™ POE Test Kit

- Detects polyolester type refrigeration oils without lab analysis
- For use with refrigeration and air conditioning systems



Part #	Mfg #	Description
KIT06754	45006	Acid Detector Kit



# Refrigeration & Vacuum Pump Oil

## Lubricants & Oil

### Refrigeration Oil

- Highest quality refrigeration oils available anywhere
- Improved by purification during packaging
- OEM Approved, moisture and wax-free; compatible with CFC and HCFC refrigerants
- Refined from select naphthenic base oils
- Excellent low temperature properties



MIN015001



MIN030001

Part #	Description	Viscosity	Type	Replaces
MIN015001	1 gal Bottle	150 SUS	M3	3GS
MIN030001	1 gal Bottle	300 SUS	M4	3GS & 4GS
MIN015005	5 gal Bottle	150 SUS	M3	3GS
MIN030005	5 gal Bottle	300 SUS	M4	3GS & 4GS

### Z-200 Alkylbenzene Refrigeration Oil

- Excellent compatibility
- Low floc point
- Reliable lubrication
- High solubility, low foaming
- Excellent thermal stability
- ISO Viscosity Grade: 46/200 SUS @ 100°F
- Copeland compressor approved



Part #	Description	Viscosity
ABO200T01	1 gal Bottle	200 SUS

### Z-300 Alkylbenzene Refrigeration Oil

- Recommended for use with refrigerants R-401A/R-401B and R-402-A/R-402-B as well as other HCFC and CFC refrigerants in field service and retrofit applications
- ISO Viscosity Grade: 68/300 SUS @ 100°F



Part #	Description	Viscosity
ABO30001	1 gal Bottle	300 SUS

### Polyolester Lubricant

- Compressor lubricant
- Excellent lubricating properties over a wide temperature range
- Specially formulated for use with non-ozone depleting HFC refrigerants
- Synthetic ester
- OEM Approved



Part #	Description	Viscosity
POE003201	1 gal Can	Grade 32
POE006801	1 gal Can	Grade 68
POE022001	1 gal Can	Grade 220

### Vacuum Pump Oil

- Lubricates and cleans vacuum pumps
- Highly demulsifiable, separates from water in 25 minutes at 180°F
- Powerful sludge dispersant loosens dirt, sludge and cleans pump
- Combination of additives makes for true anti-wear lubricant and lengthens pump life
- Anti-rust ingredient protects internal parts



VPO000132

VPO000101



Part #	Description
VPO000112	1 qt Bottle
VPO000101	1 gal Bottle

## Lubricants

### Idemitsu PVE Lubricant

- Polyvinyl ether lubricant
- Compatible with all HFC refrigerants
- Provides increased stability and lubrication
- Does not hydrolyze in the presence of moisture



Part #	Mfg #	Description
OIL00305	4319-14	1 qt PVE-FVC32D Oil, 6/Pk
OIL00307	4319-24	1 qt PVE-FVC68D Oil, 6/Pk

# Refrigeration & Vacuum Pump Oil

## Compressor Oil Related Products

### Oil Tap with Schrader Valve



Part #	Mfg #	Description
FTG00942	OT-1808	1/4" SAE x 1/8"MNPT - 1/4"MNPT

## Oil Test Kits



### Phase III® Refrigeration Oil Test Kit

- For use on POE's, minerals oils, and alkylbenzene
- Tests acid level in refrigeration oil



Part #	Mfg #	Description
CHM00414	4320-W8	Phase III Oil Test Kit

## Refrigeration Oil Test Kits

### Total Lube Refrigeration Oil Test Kit®

- For use with minerals oil, alkylbenzene oil and POE lubricants
- Tests for potential problems such as metal wear, burnouts, etc
- Mail-in test - durable mailer



Part #	Mfg #	Description
KIT15618	4996-0	Mail In Refrig Oil Test Kit

## Refrigeration Oil

### Oil Refractometer

- Rapid and accurate determination of the refractiveness of liquid solutions



Part #	Mfg #	Description
MTR00896	4815-0	Oil Refractometer

## Uniqema Emkarate® RL Lubricant

- Polyolester refrigeration oil
- For use with HFC refrigerants
- Fully miscible and compatible with mineral oils and alkylbenzene lubricants as well as with CFC's, HCFC's and HFC's



Part #	Mfg #	Size	Viscosity	Emkarate RL
OIL00194	4314-64	1 qt	150 SUS	32-3MAF
OIL00192	4314-44	1 qt	150 SUS	32H
OIL00187	4316-44	1 qt	300 SUS	68H
OIL00182	4313-46	1 gal	100 SUS	22H
OIL00323	4314-46	1 gal	150 SUS	32H
OIL00196	4314-66	1 gal	150 SUS	32-3MAF
OIL00152	4315-46	1 gal	200 SUS	46H
OIL00188	4316-46	1 gal	300 SUS	68H
OIL00177	4316-76	1 gal	300 SUS	68HP
OIL00200	4316-86	1 gal	300 SUS	68HB
OIL00310	4317-66	1 gal	500 SUS	100E
CHM01107	4317-76	1 gal	600 SUS	120
OIL00201	4318-26	1 gal	850 SUS	170H
OIL00180	4318-66	1 gal	1100 SUS	220H+
OIL00191	4314-45	5 gal	150 SUS	32H
OIL00195	4314-65	5 gal	150 SUS	32-3MAF
OIL00197	4316-45	5 gal	300 SUS	68H
OIL00183	4318-65	5 gal	1100 SUS	220H+
OIL00304	4317-61	32 gal	500 SUS	100E
OIL00189	4314-41	53 gal	150 SUS	32H
OIL00172	4316-41	53 gal	300 SUS	68H
OIL00174	4316-41C	53 gal	300 SUS	68H (Canada)
OIL00316	4318-61	53 gal	1100 SUS	220H+

# Refrigeration & Vacuum Pump Oil

## C-3s, C-4s, C-5s Mineral Refrigeration Oil

- Mineral naphthenic lubricants
- Designed for today's high performance A/C and refrigeration compressors
- Better lubrication for modern compressors which run at higher speed and generate higher temperatures



4303-07

4304-07

4305-07

Part #	Mfg #	Size	Viscosity	Cal-Lube
OIL00108	4303-07	1 gal	150 SUS	C-3
OIL00153	4303-07C	1 gal	150 SUS (Canada)	C-3
OIL00111	4304-07	1 gal	300 SUS	C-4
OIL00114	4305-07	1 gal	500 SUS	C-5
OIL00109	4303-05	5 gal	150 SUS	C-3
OIL00112	4304-05	5 gal	300 SUS	C-4
OIL00110	4303-01	55 gal	150 SUS	C-3
OIL00113	4304-01	55 gal	300 SUS	C-4
OIL00115	4305-01	55 gal	500 SUS	C-5

## Zerol® Alkylbenzene Refrigeration Oil

- High quality, synthetic alkylbenzene refrigeration oil
- Recommended for use in all refrigeration and AC applications using CFC and HCFC refrigerants
- Excellent clean-up/flushing oil



4310-07

4308-07

4311-07

Part #	Mfg #	Size	Viscosity	Zerol
OIL00119	4310-07	1 gal	150 SUS	150
OIL00116	4308-07	1 gal	200 SUS	200TD
OIL00122	4311-07	1 gal	300 SUS	300
OIL00120	4310-05	5 gal	150 SUS	150
OIL00117	4308-05	5 gal	200 SUS	200TD
OIL00123	4311-05	5 gal	300 SUS	300
OIL00125	4311-65	5 gal	400 SUS	400CA
OIL00126	4312-05	5 gal	500 SUS	500
OIL00121	4310-01	55 gal	150 SUS	150
OIL00118	4308-017	55 gal	200 SUS	200TD
OIL00124	4311-01	55 gal	300 SUS	300

## Refrigeration Oil Pumps

### CanVerter® Oil Pump



- Hand-held
- Used to remove or add oil to hermetic compressors
- Each stroke pumps 1 oz of oil



Part #	Mfg #	Description
PMP01624	4814-0	CanVerter® Oil Pump

### Glycol/Oil Transfer Pump



- Heavy-duty pump designed to transfer Freez-Kontr'l®, Freez-Therm®, or oil products (up to 1,000 sus) from Nu-Calgon supplied 55 gallon drums to their application



Part #	Mfg #	Description
PMP02077	4817-0	Glycol/Oil Transfer Pump



# Refrigeration & Vacuum Pump Oil

## Refrigeration Oil Charging Pump



- For charging refrigeration oil into a system, even while its running
- Use for 1-gallon, 2.5-gallon, and 5-gallon containers
- Incorporates an automatic bleed valve that keeps pressure equalized inside the container
- Includes a tapered rubber adapter that fits all container openings without the need for additional adaptors

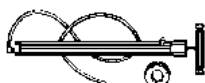


Part #	Mfg #	Description
TOL03960	484140	Refrigeration Oil Charging Pump

## Refrigeration Oil Pumps

### Refrigeration Oil Pump

- Designed for HVAC-R systems
- Add oil to a system under pressure
- Oil can be pumped at a rate of 3 oz per stroke



Part #	Mfg #	Description
PMP00663	14388	Siphon Kit with Cap and Seal Assembly and Siphon Hose

## Vacuum Pump Oil



- High-grade 200 SUS viscosity lubricant
- Very low vapor pressure



4383-34



4383-24



4383-07

Part #	Mfg #	Description
OIL00137	4383-34	1 pt Bottle
OIL00138	4383-24	1 qt Bottle
OIL00139	4383-07	1 gal Bottle

## Vacuum Pump Oil

### Premium High Vacuum Pump Oil

- Thermally stable, resists breakdown
- Lower moisture content



Part #	Mfg #	Description
OIL00046	13119	16 oz Bottle
OIL00096	13203	1 qt Bottle
OIL00097	13204	1 gal Bottle





# Total System Protection

## Refrigerant Leak Sealants

### A/C EasySeal Refrigerant Leak Sealant

- Prevents refrigerant leaks and seals existing leaks in air conditioning and refrigeration systems permanently
- Eliminates expensive leak search and repair
- Travels with refrigerant to find leaks fast
- Utilizes a reusable hose



Part #	Mfg #	Description
CHM00813	4050-02	Display Pack (2) A/C Easy Seal, (1) Piercing Valve & Hose
CHM00825	4050-01	1.25 oz Pressurized Can
CHM00814	4050-06	3 oz Pressurized Can
CHM01117	4050-10	A/C EasySeal XL 8 oz Pressurized Can with Hose, for Commercial Systems

### EasySeal Direct Inject Refrigerant Leak Sealant

- New generation of sealants
- Injection method makes it easier to install
- No need to pump down R-410A units
- Compatible with all refrigerants and oils
- Super concentrate, permanent seal
- Multiple units can be used on larger equipment



Part #	Mfg #	Description
CHM01403	4050-08	EasySeal Direct Inject, Treats 1.5 to 5.0 Ton Units, Single Use
CHM01413	4050-07	EasySeal Direct Inject 6-Pc Bulk, Treats 1.5 to 5.0 Ton Units
CHM01419	4050-05	EasySeal SS Direct Inject, Treats up to 1.5 Ton Units, Single Use

## Compressor Oil Related Products

### A/C Re-New Refrigeration and Vacuum Pump Oil

- Used to improve the performance of air conditioning and refrigeration systems
- Quiets noisy systems and extends the life of the system
- Reduces energy consumption
- Lubricant that blends with the system's oil



Part #	Mfg #	Description
CHM00834	4057-55	4 oz
CHM01313	4057-54	1 qt
TOL03769	4057-99	A/C Re-New Injector Tool

### Rx-Acid Scavenger®



- "Scavenges" acid in refrigeration, air conditioning systems
- Use after burnouts or normal maintenance
- Normal dosage is 2 fl oz/gallon of system oil



Part #	Mfg #	Description
CHM00413	4301-02	2 oz Liquid, Boxed
CHM00995	4301-05	Pressurized Can

## Total System Protection

### A/C EasyDry



- Eliminates moisture in system
- Treats up to 5 ton systems
- Compatible with all oils and refrigerants
- Prevents acid from forming
- Compliments the system's drier



Part #	Mfg #	Description
CHM00815	4051-06	3 oz Pressurized Can
HSE01610	4051-99	Reusable A/C Piercing Valve and Hose

Chemicals

# Total System Protection

## Rx11-flush® Air Conditioning & Refrigeration System Flush



- Solvent that has been engineered for flushing refrigeration and air conditioning systems
- HFC Based solvent formulation is powerful enough to flush away sludge, carbon residue, oils, acids, water and other particulate
- For system flushing after burnouts, retrofits, and for flushing line sets for R-410A conversions
- Non-toxic, non-flammable and is non-ozone depleting



4300-08



4300-09



4300-11



4300-10



4300-15



4300-26



4300-30



4300-38



4300-50



4300-51



4300-52



4300-89

Part #	Mfg #	Description
CHM00826	4300-08	Rx11-flush® Starter Kit
CHM00510	4300-09	1 lb Canister
CHM00410	4300-11	2 lb Canister
CHM00409	4300-10	Start-Up Pack 2+1
CHM00411	4300-15	13 lb Canister
CHM00858	4300-26	26 lb Cylinder
CHM00997	4300-30	19.5 oz Can
CHM01007	4300-38	Starter Kit with Liquid Can, Tank, Gun & Hose
TOL02895	4300-50	Flushing Tool
TOL03326	4300-51	Rx11 Flush Gun
HSE01611	4300-52	Rx11 Flush Hose
TOL03481	4300-89	Injection Valve

## A/C System Flush

### Turbo-Kleen™ A/C System Flush



- Quick and less expensive way to completely clean residual oil and contaminants from A/C line sets
- Scrubbing action cleans more completely than chemicals alone
- Recommended for:
  - Retrofits
  - Refrigerant conversions
  - Compressor change-outs
- Combination of chemical cleaning and scrubbing
- Stays active during the entire cleaning process
- Cost effective, reusable system



82450

82500

Part #	Mfg #	Description
CHM00836	82400	1 pt Chemical Solution
CHM01134	82450	1 gal Refill
CHM00835	82500	Turbo-Kleen™ Kit

# Test Kits

## Test Instruments

### Water Test Kit

- For testing treatment residual of Ty-Ion B20, Ty-Ion B14A and closed system treatment
- Can be used in systems containing glycol
- Each drop = 40 ppm of nitrite



Part #	Mfg #	Description
KIT08261	4797-0	Nitrite Test Kit

### Cooling & Boiler Water Test Kit

- Tests pH, Total (M) alkalinity, hardness, chlorides, nitrite (can), sulfite and OH & P Alkalinity



Part #	Mfg #	Description
KIT08264	W017-0	Complete Test Kit

### Organic Phosphate Test Kit

- Checks for residual Ty-Ion C70, Cal-Treat 223, and No. 340 Liquid Scale Inhibitor



Part #	Mfg #	Description
KIT08263	4804-0	Organic Phosphate Test Kit

### Nitrile Test Kit



- Determines hardness, pH, chloride and alkalinity
- Checks for residual Ty-Ion C70, Cal-Treat 223, No. 340 Liquid Scale Inhibitor, and Ty-Ion B20



Part #	Mfg #	Description
KIT08262	4798-2	Water Test Kit



# Water Quality & Filtration

## Descalers

### Scale-Shredder Scale Remover

- Open recirculating low-foam scale remover
- Safely removes scale from cooling towers, pipes, and condensers without system shutdown
- Highly concentrated
- Reduces head pressure in a matter of hours, increases system capacity
- Ideal for use in systems that cannot be shutdown for descaling
- Contains no dangerous hydrochloric acids or sulfuric acids
- Reduces power consumption and it is labor saving



SCL024901

Part #	Description	Dilution
SCL024901	1 gal Bottle	Use 3 gal per 100 gal of Water
SCL024905	5 gal Bottle	Use 3 gal per 100 gal of Water

### Descaler with PH Indicator

- Hydrochloric acid base with pH indicator for descaling water cooled condensers
- Premium low foaming
- Phosphoric acid descaler for cooling towers



SCL025001

Part #	Description
SCL025001	1 gal Bottle
SCL025005	5 gal Bottle

## Water Treatment Products

### Cool Treat® Water Scale & Corrosion Control

- Color-coded scale and corrosion control for cooling towers
- Multi-functional water treatment containing no chromates or heavy metal
- Environmentally safe
- Inhibits microbial growth to maintain water quality
- Works with color coded visual test strips
- Helps keep surfaces free of insoluble materials



WTR000105

Part #	Description
WTR000105	5 gal Pail
WTR000155	55 gal Drum

## Rust Corrosion Inhibitor

- Biodegradable and environmentally safe
- Prevents corrosion in recirculating water systems that are shut down for winter storage
- Combination of surfactants and patented chemical that disperses readily in water



WTR000901

Part #	Description
WTR000901	1 gal Bottle
WTR000905	5 gal Pail

## Heating System & Boiler Water Treatments

### Sealmaster™ Leak Sealer

- Fills and seals holes, cracks and loose joints in steam systems
- Stops corrosion
- Will not damage seals and gaskets
- No petroleum distillates



Part #	Mfg #	Description
CHM01305	68722	1 qt Bottle
CHM01306	68724	1 gal Bottle

### Steammaster™ Tablets Steam & Water Treatment

- Removes and prevents scale and corrosion in steam and hot water systems
- Will not damage seals and gaskets
- No petroleum distillates
- Built-in color-cure indicator



Part #	Mfg #	Description
CHM01357	68732	(36) Tablets

# Water Quality & Filtration

## Surgemaster™ Steam Boiler Treatment

- Cures and prevents priming, surging and foaming in steam boilers
- Sure-cure color indicator tints boiler water
- Inhibits corrosion
- Does not contain petroleum distillates
- Will not damage seals and gaskets



Part #	Mfg #	Description
CHM01307	68742	5.3 oz Jar

## Surgex™ Steam Boiler Treatment

- Cure for foaming, surging and priming steam boilers
- Concentrated anti-foam formula
- Color-coded to insure proper treatment



Part #	Mfg #	Description
CHM01358	68752	1-1/2 oz Jar

## Costguard Replacement Filters

### CG5-20S Carbon Block Filter

- 5 Micron carbon block that reduces dirt and fine particles from drinking water
- High porosity design prevents cartridge from plugging before its adsorption capacity is exhausted
- Drop-in design fits most 20" bowls



Part #	Mfg #	Capacity	Description
FLR07193	EV9108-27	12,000 gal	CG5-20S Filter

## CG53-10 Carbon Block Filter

- Submicron carbon block reduces extra fine particles and dirt from drinking water
- High porosity design prevents the cartridge from plugging before its adsorption capacity is exhausted
- Drop-in design fits most 10" bowls



Part #	Mfg #	Capacity	Description
FLR07929	EV9108-53	10,000 gal	CG53-10 Filter

## Ice Filtration Systems

### 4SI Ice Filter Cartridge

- Non-carbon
- Single cartridge provides dirt reduction, scale protection and slime reduction



Part #	Mfg #	Capacity	Description
FLR07994	EV9606-51	15,000 gal	4SI Filter

## Drinking Water Systems

### OW200L Drinking Water System Cartridge



Part #	Mfg #	Capacity	Description	Qty
FLR07541	EV9619-01	480 gal	OW200L	1/Pk
FLR07165	EV9619-06	480 gal	OW200L	6 x 1 Case

## Coffee Filtration Systems

- 1/2 Micron filtration with scale control

### OW4 Plus Coffee Filter Cartridge



Part #	Mfg #	Capacity	Description	Qty
FLR07542	EV9635-01	2,000 gal	OW4 Plus	1 Each
FLR07543	EV9635-06	2,000 gal	OW4 Plus	6 x 1 Case



# Water Quality & Filtration

## Fountain Beverage Systems

### 7CLM Fountain Beverage System Cartridge



Part #	Mfg #	Capacity	Description
FLR08002	EV9693-01	3,600 gal	7CLM Filter

## Steam Application Filters

### Kleensteam Filter

- Provides high quality water plus deliming capabilities
- For use with both countertop and boiler base steamers with flow rates not exceeding 1.5 gpm



Part #	Mfg #	Description
FLR07544	EV9797-21	Kleensteam II Single
FLR07545	EV9797-50	Kleensteam CT

## Reverse Osmosis Systems

Part #	Mfg #	Description
FLR07509	EV9797-91	MRS-20 RO System

## Combination Systems

### Coldrink®3/Insurice® Triple PF 20" Filter Manifold

- Includes:
  - 20" Coarse prefilter
  - 1/2 Micron precoat filtration with MicroPure® II Media
  - SR-X Scale reduction feeder featuring scalestick
  - Manifold has inlet water shut-off valve, flushing valve, inlet/outlet water pressure gauge(s), and dual outlets



Part #	Mfg #	Description
FLR07561	EV9293-23	Ice/Beverage Filter Manifold

## High Flow CSR Triple-MC<sup>2</sup> Filter

- Includes:
  - 20" Coarse prefilter
  - 1/2 Micron precoat filtration with MicroPure® II Media
  - SR-X Scale Reduction Feeder featuring Scalestick
  - Manifold has inlet water shut-off valve, flushing valve, inlet/outlet water pressure gauge(s), and dual outlets



Part #	Mfg #	Capacity
FLR07536	EV9328-06	27,000 gal

## Scale Inhibition/Deliming Systems

- Inhibits limescale build-up

### Replacement Cartridge



Part #	Mfg #	Capacity	Description
FLR07766	EV9617-36	6,000 gal	4CB5 Cartridge

## Everpure® H-300 Replacement Cartridges

- Bacteriostat agent to combat the growth of bacteria within the cartridge
- Addresses:
  - Chlorine taste and odour
  - Dirt particles
  - Mould and algae particulate
  - Oxidized manganese
  - Oxidized sulfides
  - Particles 1/2 micron and larger in size
  - Limescale build-up
- Flow rate: 1/2 gpm
- 300 Gallon capacity
- Cartridge length: 17"
- NSF Certified



Part #	Mfg #	Description
FLR07555	EV9273-69	MR-20 Cartridge



# Water Quality & Filtration

## Problem Solving Cartridges



Part #	Mfg #	Description
FLR07538	EV9607-04	Solves High Mineral Content using Ion Exchange Resin for 7SO
FLR07737	EV9607-25	Solves Taste & Odor and Mineral Reduction Using a 3-Stage Process for Model ESO7

## Water Filtration Systems

### Nu-Plus® E-Series Claris Filtration System by Everpure®

- Pre-filtration
- Carbonate hardness adjustment
- Carbon block and 5µm solid membrane filter



Part #	Mfg #	Description
FLR07777	4339-10	396 gal System
FLR07778	4339-11	660 gal System
FLR07779	4339-12	1,110 gal System
FLR07780	4339-13	1,585 gal System
FLR07781	4339-23	3/8" Filter Head

### Nu-Plus® E-Series Carbon Block Filter by Everpure®

- Particle reduction to 5 micron
- Chlorine reduction
- Carbon block quality water for food and beverage use
- NSF Certified under NSF Standard 42



4621-32 4621-31



Part #	Mfg #	Description
FLR06985	4621-32	6,000 gal Capacity
FLR07531	4621-31	6,000 gal Capacity w/ Scale Inhibition

### Nu-Plus® by Everpure® Insurice System

- Reduced dirt and particles as small as 1/2 micron
- 9,000 Gallon capacity
- Maximum flow rate: 1.67 gpm



Part #	Mfg #	Description
FLR07532	9324-01	Insurice i2000 Single

### 4JT Flushing/Sanitizing Cartridge

- Fits existing Everpure® system
- Introduces sanitizing or de-liming agents with no disassembly
- NAMA Approved



Part #	Mfg #	Description
FLR06981	4621-00	4JT Sanitizing Cartridge

### nu-7CB5S Nu-Plus® E Series Cartridge

- Taste and odor, chlorine reduction
- Scale control
- Particulate reduction to 5 micron
- Problem solving cartridge for high particulate or low flow water pressure areas
- NSF Certified



Part #	Mfg #	Description
FLR06984	4621-30	10,000 gal Capacity



# Water Quality & Filtration

## 7CB5 Nu-Plus® E Series Cartridge

- Can be used for fountain beverage applications
- Taste and odor, chlorine reduction
- Scale control
- Particulate reduction to 5 micron
- Problem solving cartridge for high particulate or low flow water pressure areas
- NSF Certified



Part #	Mfg #	Description
FLR07540	9618-16	10,000 gal Capacity

## SR-X Scale Inhibitor Feeder

- Complete system for control of scale in ice machines, coffee and combination applications
- Dispenses controlled amount of HydroBlend™ compound for a more consistent feed and longer life
- Includes:
  - Clear housing
  - (1) Cartridge
  - Spacer



Part #	Mfg #	Description
DST00925	4621-05	SR-X Scale Inhibitor Feeder

## Nu-Plus® IMF-10 Cartridge

- Longer life scale inhibition cartridge
- Dispenses a controlled amount of HydroBlend™ phosphate
- Translucent cartridge



Part #	Mfg #	Description
FLR07332	4621-14	IMF-10 Cartridge

## Nu-Plus® EC20 Coarse Prefilter

- 20" Clear housing, including large capacity 20" replaceable prefilter cartridge
- Filters out larger dirt and rust particles
- Extends the life of submicron carbon filters



Part #	Mfg #	Description
FLR07082	4621-44	20" Housing and Filter

## BH<sup>2</sup> Nu-Plus® Everpure Cartridge

- Delivers premium quality water for ice and coffee applications
- Designed for applications where the i20002 is too long
- Precoat submicron particulate reduction
- Inhibits scale formation
- Taste and odor reduction
- NSF Registered under NSF/ANSI Standard 42 and 53



Part #	Mfg #	Description
FLR06914	4621-12	3,000 gal or 6,000 Pots of Coffee

## QL3B Nu-Plus® E Series Single Head

- Ideal for all Nu-Plus E Series filters
- Built-in shut-off, flushing valve



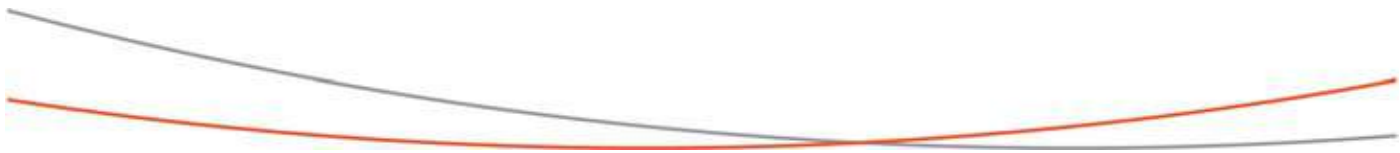
Part #	Mfg #	Description
HED01013	4621-07	3/8" NPT Single Head

## QC7I Nu-Plus® E Series Single Head

- Ideal for all Nu-Plus E Series filters
- Built-in shut-off, flushing valve
- Includes outlet pressure gauge on the mounting bracket



Part #	Mfg #	Description
FLR07072	4621-01	3/8" NPT Single Head





# Water Quality & Filtration

## QC7I Nu-Plus® E Series Twin Parallel Head

- Dual filter head
- Parallel plumbed for (2) Nu-Plus E Series filters
- Built-in shut off, flushing valve
- Includes outlet pressure gauge on the mounting bracket



Part #	Mfg #	Description
FLR07074	4621-02	Twin Parallel Head

## QC7I Triple Parallel Head

- Triple filter head
- Parallel plumbed for (3) Nu-Plus E Series filters
- Built-in shut-off, flushing valve
- Includes outlet pressure gauge on the mounting bracket



Part #	Mfg #	Description
FLR07075	4621-03	Triple Parallel Head

## QC7I Nu-Plus® E Series Quad Parallel Head

- Quad filter head
- Parallel plumbed for (4) Nu-Plus E Series filters
- Built-in shut-off, flushing valve
- Includes outlet pressure gauge on the mounting bracket



Part #	Mfg #	Description
FLR07057	4621-04	Quad Parallel Head

## Water Filtration Systems

### Coldrink/Insurice System

- Reduces ice machine problems caused by limescale formation, dirt and particulate
- Eliminates objectionable tastes and odor caused by chlorine and other contaminants
- Includes 10" prefilter



Part #	Mfg #	Description
FLR08274	9293-22	20" Prefilter, Twin

## Krystal Guard® Replacement Cartridge

- STOP = Scale, taste, odor and particulate reduction



Part #	Mfg #	Description
FLR08087	4611-01	STOP Reduction Cartridge

## Micro-Carbon 4 Filter Cartridge

- Removes sediment and objectionable tastes and odors from water supplying beverage, water, and ice-making equipment
- 20 Micron filter capacity
- Lasts 5 to 6 months
- 1/4" FPT connections



Part #	Mfg #	Description
FLR05235	461724	Micro Carbon Filter

## Replacement Cartridges & Manifolds for Cuno® CFS Installations

- S = Sediment
- SS = Sediment and Scale
- TOP = Taste, odor, particulate
- STOP = Scale, taste, odor, particulate



4623-01

4623-13



Part #	Mfg #	Description
HED01009	4623-01	Single Manifold
HED01010	4623-02	Twin Manifold, Parallel
HED01011	4623-03	Triple Manifold
HED01012	4623-06	Twin Manifold, Series
FLR07521	4623-10	5-Micron S Cartridge
FLR07522	4623-11	5-Micron SS Cartridge
FLR07523	4623-12	1/2 Micron TOP Cartridge
FLR07524	4623-13	1/2 Micron STOP Cartridge



# Water Quality & Filtration

## Micromet/Carbon Cartridge

- Combines 6R Micromet for scale-control and carbon block for sediment (10 microns) and taste and odor control



Part #	Mfg #	Description
FLR05246	4706-87	NP24PC Fits NP24DD Housing

## 6R Micromet/Sediment Cartridge

- Combines 6R Micromet (phosphate) for scale-control and polypropylene for filtration (5 microns)



Part #	Mfg #	Description
FLR05256	4717-87	NP48PS Removes Sediment & Scale

## NP Series Housing

- Holds (1) of the NP cartridges for treating ice machines, coffee urns and other beverage equipment



4704-24

4714-24



Part #	Mfg #	Description
HUS03684	4704-24	NP24DD, 3/8" NPT, 4.0 gpm
HUS03685	4714-24	NP48DD, 1/2" FPT, 5.0 gpm
RNG01854	NP04W2	Replacement Lid O-Ring for NP Series Treatment System

## Carbon Block Cartridge

- Remove most objectionable tastes and odors, rated to 10 microns



Part #	Mfg #	Description
FLR05248	4711-87	NP48C Fits NP48DD Housing

## Sediment Cartridge

- Made from FDA-approved polypropylene
- Filter to 5 microns



Part #	Mfg #	Description
FLR05243	4702-87	5" NP24S Fits NP24DD Housing

## Wing Bracket Assembly

- For coarse prefilters and post feed
- Kit allows for easy retrofitting of prefilter systems to existing multiple head systems since September, 2003



Part #	Mfg #	Description
FLR07076	4621-06	SR-X Wing Bracket

## Water Filter Cartridges

### Nu-Plus® nu-i2000<sup>2</sup> & nu-i4000<sup>2</sup> Cartridge

- Precoat submicron filtration reduces particles as small as 1/2 micron along with chlorine and other offensive contaminants
- Feed of 6R Micromet® inhibits scale build-up cause by dissolved minerals
- Micro-Pure® II antibacterial protection



4621-10 4621-11

Part #	Mfg #	Capacity
FLR06892	4621-10	9,000 gal, 750 lbs for Cubers, 1,500 lbs for Flakers
FLR06982	4621-11	12,000 gal, 1,000 lbs for Cubers, 2,000 lbs for Flakers



# Water Quality & Filtration

## Nu-Plus® nu-MC<sup>2</sup> E & nu-XC<sup>2</sup> Series Cartridge

- Pre-coat submicron filtration reduces particles as small as 1/2 micron
- Micro-Pure®II antibacterial protection
- Reduces objectionable tastes and odors
- Cyst reduction



4621-20 4621-21

Part #	Mfg #	Capacity
FLR06893	4621-20	9,000 gal
FLR06951	4621-21	12,000 gal

## Cuno® Nu-Plus® CU/CU-S Nu-Plus® E Series Replacement Cartridge

- Incorporates a carbon block filter
- Polishes water for beverage and ice
- Reduces extra fine dirt as small as 5 microns
- Capacity: 10,000 gal
- Flow: 1.5 gpm



4622-20 4622-10

Part #	Mfg #	Replaces
FLR06986	4622-20	CFS-8112, CFS-8720 & CFS-8812
FLR06917	4622-10	CFS-8112S, CFS-8720S & CFS-8812S

## Coldrink/Insurice System

- Reduces ice machine problems caused by limescale formation, dirt and particulate
- Eliminates objectionable tastes and odor caused by chlorine and other contaminants
- System includes 10" prefilter



Part #	Mfg #	Description
FLR07505	9293-01	10" Prefilter, Single

## Nu-Plus® E-10 Coarse Prefilter

- 10" Clear housing, including large capacity 10" replaceable prefilter cartridge
- Filters out larger dirt and rust particles
- Extends the life of submicron carbon filters



Part #	Mfg #	Description
FLR07080	4621-42	10" Housing and Filter

## Nu-Plus® E-110 Cartridge

- 10" Nominal sediment filter, 10 micron
- Filters out larger dirt and rust particles
- Extends the life of submicron carbon filters



Part #	Mfg #	Description
FLR07079	4621-41	10" Sediment Filter

## Nu-Plus® E-210 Cartridge

- 20" Nominal sediment filter, 10 micron
- Filters out larger dirt and rust particles
- Extends the life of submicron carbon filters



Part #	Mfg #	Description
FLR07081	4621-43	20" Sediment Filter

## Nu-Plus® IMF-7 Cartridge

- Scale inhibition cartridge
- Dispenses a controlled amount of HydroBlend™ phosphate
- Translucent cartridge



Part #	Mfg #	Description
FLR07164	4621-13	7" IMF-7 Cartridge



# Water Quality & Filtration

## OCS<sup>2</sup> Nu-Plus® E Series Cartridge

- Delivers premium quality water for ice and coffee applications
- Designed for applications where the i20002 is too long
- Precoat submicron particulate reduction
- Inhibits scale formation
- Taste and odor reduction
- NSF Registered under NSF/ANSI Standard 42 and 53



Part #	Mfg #	Description
FLR07539	9618-07	1,500 gal or 3,000 Pots of Coffee

## Everpure 4K-Plus Cartridge

- Activated carbon filter reduces chlorine taste, odor and other offensive contaminants
- KDF® Media inhibits microbial growth and provides bacteriostatic control plus scale inhibition
- Rated capacity: 1,000 gallons



Part #	Mfg #	Description
FLR07240	EV9612-76	4K-Plus KDF Filter

## Sediment Cartridge

- Made from FDA-approved polypropylene
- Filter to 5 microns



Part #	Mfg #	Description
FLR05252	4712-87	10" NP48S Fits NP48DD Housing

## 6R Micromet®

- Food-grade phosphate
- Used to prevent scale formation in ice machines
- Replacement every 6 months
- USDA Approved, NSF listed



Part #	Mfg #	Description
FLR05245	4705-87	NP246R Cartridge
FLR05254	4715-87	NP486R Cartridge; Fits NP48DD Housing

## Micromet/Carbon Cartridge

- Combines 6R Micromet for scale-control and carbon block for sediment (10 microns) and taste and odor control



Part #	Mfg #	Description
FLR05255	4716-87	NP48PC Fits NP48DD Housing

## Carbon Block Cartridge

- Remove most objectionable tastes and odors, rated to 10 microns



Part #	Mfg #	Description
FLR05241	4701-87	NP24C Fits NP24DD Housing

## C0070 Cartridge for the Manitowoc Tri-Liminator

- 5 Micron carbon block
- 20" Drop-in design
- Phosphate to prevent scale build-up



Part #	Mfg #	Description
FLR05234	9108-27	C0070 Primary Cartridge

## CTL220 Cartridge for the Manitowoc Tri-Liminator

- Fits old and new Tri-Liminator systems



Part #	Mfg #	Description
FLR07125	4610-30	CTL220 Twin House with Filter



# Water Quality & Filtration

## 7SI Ice Machine Filter Cartridge

- For ice machines
- Reduces sediment and particulate down to 1/2 micron and reduces cyst and Giardia
- NSF Standard 42 and 53 certified



Part #	Mfg #	Description	Flow Rate
BRK04305	9606-01	25,000 gal	3.5 gpm

## Pentek® RFC Series Radial Flow Carbon Cartridge

- Provides effective chlorine taste and odor reduction
- Ideal for point-of-entry and other high flow applications
- Design reduces carbon fines in filtered water
- Porous polyethylene outer shell and durable polypropylene end caps
- Polypropylene core
- Buna-N gasket
- Temperature range: 40°F to 125°F
- 70 Micron



Part #	Mfg #	Dimensions	Flow Rate
FLR08013	9912-47	4-1/2" x 20"	0.9 psi @ 4 gpm

## Ice Machine Cleaners

### Liquid Descalit™ Scaler Remover

- Economical scale and lime dissolver with patented corrosion inhibitors
- Recommended for:
  - Heavily scaled equipment
  - Cooling towers
  - Condensers
  - Water heaters
- Anti-foaming
- Color changing strength indicator



Part #	Mfg #	Description
CHM01359	80902	1 gal
CHM01360	80904	5 gal

## Descalers

### Calci-Free™ Tankless Water Heater Flush

- Restores circulation and pressure
- Cleans heater coils thoroughly
- Removes calcium and other solid deposits from heating coils
- Biodegradable
- NSF® Certified



Part #	Mfg #	Description
CHM01363	68708	1.2 lbs

### Calci-Free™ Tankless Water Heater Flush Kit

- Complete cleaning system to clean and restore efficiency to tankless water heaters
- Kit includes:
  - (1) Heavy-duty utility pump (submersible) with 3/4" GHT connection
  - (1) 7' Feeder hose with swivel fittings
  - (1) 7' Discharge hose
  - (1) Elevated pump strainer
  - (1) 1.2 lbs Calci-Free™
- Approved for use with Navien tankless water heaters



Part #	Mfg #	Description
KIT17389	68711	Flush Kit

## Plumbing Products

### Eco-Lyme Simple Treat Water Treatment

- For de-scaling cooling towers and evaporative condensers



4167-08

4167-05

Part #	Mfg #	Description
CHM01001	4167-08	1 gal Bottle
CHM01003	4167-05	5 gal Pail
CHM01004	4167-01	55 gal Drum



# Water Quality & Filtration

## pH-TREAT™ pH Neutralizer

- Neutralize condensate water raising pH to near neutral
- Includes:
  - (1) C-Clip for mounting
  - (2) 1/2" Barb x 3/8" MPT fittings
  - (2) 3/4" FPT x 3/8" MPT fittings
- Designed for gravity feed
- Product is expected to have 1-year service life
- Temperature range: 40° to 100°F
- Pressure range: 0 to 125 psi



Nu-Calgon

Part #	Mfg #	Description
CHM00842	4720-06	2-1/2" x 12" Cartridge Housing w/ 3/8" FPT

## UrinaKleen Acid-Based Bowl Cleaner

- Attacks primary source of odors
- Dissolves urinary salts, mineral scale and rust deposits
- Keeps urinals free flowing

Nu-Calgon



4590-08

Part #	Mfg #	Description
CHM00777	4590-24	1 qt Bottle
CHM00778	4590-08	1 gal Bottle

## Pumping Systems

### No. 31-TX Acid Pump

Nu-Calgon

- For circulating strong acids and cleaning solutions



Part #	Mfg #	Description
PMP01622	4603-0	Acid Pump

## Scale Removal/Descaling

### Calci-Solve Descaler/Drain Cleaner

- Removes scale from lines and clears clogged drains
- Includes a special inhibitor that coats the inside of pipes with a protective film



4134-24 4134-08

Nu-Calgon

Part #	Mfg #	Description
CHM00338	4134-24	1 qt Bottle
CHM00339	4134-08	1 gal Bottle
CHM00340	4134-01	55 gal Drum

### Liquid Scale Dissolver

- Water-cooled equipment scale remover
- Hydrochloric (muriatic) acid with low foaming corrosion inhibitors
- Built-in pH color indicator
- Includes pH test paper



4330-08

Nu-Calgon

Part #	Mfg #	Description
CHM00415	4330-08	1 gal Bottle
CHM00455	4845-K8	1 gal (Canada) Bottle
CHM00986	4330-03	2.5 gal Pail
CHM00416	4330-05	5 gal Pail
CHM00456	4845-PB	5 gal Pail (Canada)
CHM01312	4330-01	55 gal Drum

### HK-31 Hose Kit

- For use with 31-TX acid pump
- Includes:
  - (2) 1/2" Tubing adapters
  - (2) 10' Sections of 1/2" clear plastic tubing
  - (3) Hose clamps



Nu-Calgon

Part #	Mfg #	Description
KIT08258	4604-0	HK-31 Hose Kit



# Water Quality & Filtration

## ScaleKleen® Scale Remover

- Restores equipment to peak operating efficiency by removing scale build-up
- Safe to skin and won't burn clothing
- Non-toxic
- Sewer system disposable
- Use with 4JT flushing/sanitizing cartridge



Part #	Mfg #	Description
CHM00795	4621-17	7 oz Packets, 24/Case

## Season Start® "Imperial Grade" Scale Remover

- Powdered sulfamic acid formulation that contains the best inhibitors available for protecting all metals including galvanizing
- Contains a built-in pH color indicator as well as wetting and antifoaming agents
- USDA Approved



4360-88

Part #	Mfg #	Description
CHM00421	4360-88	10 lb Container
CHM00420	4360-84	50 lb Pail

## Vital-Flo™ Tankless Water Heater Descaler

- Kit includes:
  - 1/6 hp Submersible descaler pump
  - Set of (2) 5' x 3/4" female hose threaded assemblies
  - 8 oz Descaler solution packaged in a lidded 4 gal chemical resistant container



4387-01

Part #	Mfg #	Description
CHM00991	4387-01	Vita-Flo™ Kit
CHM00992	4387-02	8 oz Solution Only

## Water Treatment

### Bromicide Tablets

- Chlorine-bromine donating organic compound in tablet form
- Releases oxidizing hypochlorous acids to prevent algae and slime bacteria fouling in open recirculating cooling water systems and evaporative coolers



Part #	Mfg #	Description
CHM00331	4109-M9	50 lb Pail

### Cal-Treat® 233 Water Treatment

- Control corrosion in evaporator condensers and cooling tower systems
- Provides superior corrosion control and inhibits scale deposition
- Most effective corrosion inhibitor known for cooling water systems
- Easy-to-use and feed into equipment



Part #	Mfg #	Description
CHM00350	4149-05	5 gal Container

### Evap Treat™

- Prevents scale and corrosion
- Increases pad life
- Maintains cooler performance



Part #	Mfg #	Description
CHM00710	4173-06	Up To 10,000 CFM

### Humidi-Pro Cooling Tower Water Treatment

- Designed for humidifiers using up to 25 gallons per day
- Inhibits scale for one season



Part #	Mfg #	Description
FLR07023	4190-02	Humidi-Pro In-line Filter



# Water Quality & Filtration

## No. 85 Algaecide Algae Prevention

- Polymeric, catatonic biocide that controls the growth of algae, bacteria, and fungi



Part #	Mfg #	Description
CHM00328	4108-08	1 gal Bottle

## Season Treat (Micromet® Plates)

- Patented Micromet® Plate product
- Flow-through package
- Treats small cooling towers and evaporative condensers



Part #	Mfg #	Description
CHM00422	4364-88	1 Canister Season Treat

## Ty-Ion® C70 Scale Prevention

- All-organic liquid scale, deposit and corrosion inhibitor for open recirculating cooling water systems, evaporative condensers, and air washer systems



7597-05

Part #	Mfg #	Description
CHM00430	7597-05	5 gal Pail
CHM00431	7597-P3	15 gal Pail

## No. 340 Liquid Scale Inhibitor

- Concentrated, effective in hard, highly alkaline water
- Stable, does not form sludge
- USDA Approved



4340-08

Part #	Mfg #	Description
CHM00417	4340-08	1 gal Bottle
CHM00418	4340-05	5 gal Pail
CHM00419	4340-01	55 gal Drum

## Cleaners and Sanitizers



### UrinaKleen Acid-Based Bowl Cleaner

- Removes scale deposits and odors
- For dissolving rust, urinary salts and mineral scale from flush tanks, urinal drains and bowls
- Monthly application of UrinaKleen will effectively keep urinals free flowing and reduce the need for excessive odor control products



4590-08

Part #	Mfg #	Description
CHM00779	4590-24C	1 qt Bottle (Canada)
CHM00780	4590-08C	1 gal Bottle (Canada)

## Water Scale Treatment

### 6R Micromet®

- Food-grade phosphate
- Used to prevent scale formation in ice machines
- Replace every 6 months
- USDA Approved
- NSF Listed



Part #	Mfg #	Description
CHM00388	4265-84	50 lb Pail

### 6Rsp Micromet

- Food-grade phosphate
- Replace every 6 months
- USDA Approved
- NSF Certified



Part #	Mfg #	Description
CHM01414	4265-50	51 lb Pail





# Water Quality & Filtration

## Micro-Plus® Inline Ice Machine Filter Cartridge

- Complete all-in-one filter for ice machines, coffee urns and brewers
- Scale control
- Taste and odor control
- Filters down to 20 microns
- 1/4" FPT Connections



Part #	Mfg #	Description
CHM00436	4615-W3	Micro-Plus® 2
CHM00433	4612-W3	Micro-Plus® 4
CHM00434	4613-Y8	Micro-Plus® 8
CHM00435	4614-Y8	Micro-Plus® 16
FTG00976	4619-22	Quick Disconnect Coupling for Micro-Plus

## Closed System Treatment

### System Cleaner



- Proper alkalinity, buffering agents and cleaners
- Ideal cleaner for new or used systems
- Boilers, heat exchangers, hot and chilled water systems
- Easy-to-use liquid
- Can be used as an acid neutralizer



Part #	Mfg #	Description
CHM00470	4370-08	5 gal Container

### Ty-Ion® B14A Scale Prevention

- Chromate-free boiler treatment that controls boiler scale and corrosion and condensate line corrosion in low pressure steam heating boilers where most of the condensate is returned



Part #	Mfg #	Description
CHM00427	7519-05	5 gal Container

## Ty-Ion® B20 Treatment for Closed Systems

- Liquid nitrite-borox corrosion inhibitor and dispersant for closed recirculating systems
- A complete treatment that combines corrosion inhibitors, a copolymer dispersant, and color indicator to facilitate leak detection



Part #	Mfg #	Description
CHM00428	7537-05	5 gal Pail

## Winter-Treat®

- Multi-treatment product for hot water and steam heating boilers and other closed water systems
- Emulsifies and cleans away rust, corrosion deposits, and sludge as well as inhibits system corrosion, foaming, surging and lime scale



4390-32

Part #	Mfg #	Description
CHM00590	4390-32	1 qt Bottle
CHM00587	4390-32C	1 qt Bottle (Canada)
CHM00591	4390-08	1 gal Bottle

## Evaporative Cooler Treatments

### Evap Treat™

- Prevents scale and corrosion
- Increases pad life
- Maintains cooler performance



Part #	Mfg #	Description
CHM00709	4173-04	Treats Up To 6,500 CFM



# Water Quality & Filtration

## Parts & Accessories

### Control Unit



4608-0



4608-4

Part #	Mfg #	Description
PMP01901	4608-0	CMS-III Cooling Tower Bleed Off and Feed Controller
MON00016	4608-4	CMS-IV Water Treatment Chemical Metering, Pump, Control Relay
TOL04218	C-1122	CMS-IV Electrode Conductivity Cell
PMP01623	4609-1	CMS Chemical Feed Pump

## Tanks

### Feeder Tank

- Slug or shot-feed chemicals into chilled water or boiler systems
- Introduces micromet into potable water systems



4628-0 4650-0

Part #	Mfg #	Description
TNK00873	4628-0	20L Micromet Tank
TNK00874	4650-0	100L Micromet Tank

## Test Instruments

### Water Sample Bottle

- For sending supply, makeup water or glycol samples to test freeze point



Part #	Mfg #	Description
BOT00013	4995-0	Box of (3) 1 pt Bottles

## Drip Feeders

### No. 215 Drip Feeder



- Used for feeding No. 340 liquid scale inhibitor, Cal-Treat 233, Ty-Ion C70 and No. 85 Algaecide
- Continuous treatment for small systems

Part #	Mfg #	Description
DST00846	4669-W3	No 215 Drip Feeder

### No. 1075 Drip Feeder

- Used for feeding No.340 Scale inhibitor, Ty-Ion C-70, CalTreat 233 and No.85 Algaecide

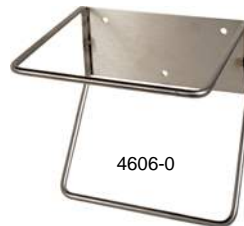


Part #	Mfg #	Description
DST00847	4670-W3	Drip Feeder

### Jug Holder Bracket



- Holds containers in the proper position when drip feeding any Nu-Calgon liquid water treatment product

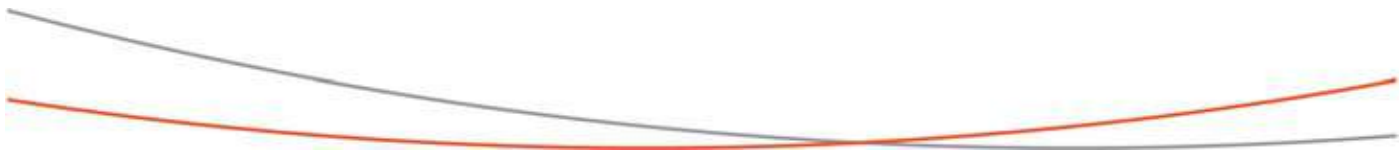


4606-0



4607-0

Part #	Mfg #	Description
BRK03277	4606-0	1 gal Holder (C-284-1)
BRK03278	4607-0	5 gal Holder (C-284-5)



# Malleable Iron Fittings

## Threaded Black Malleable Iron Fittings

- Available in black finish for oil and gas fluid applications
- Threaded ends meet with ANSI/ASME B1.20.1 standard
- Material meets with ASTM A-197 standard
- Dimensions meet the following:
  - Threaded fittings – with ASME B16.3 standard
  - Bushing reducer and plugs – with ASME B16.14 standard

## Black Malleable Iron 150# Hex Bushing



Part #	Mfg #	Size
BUS02128	521-910	1/4" x 1/8"
BUS02135	521-920	3/8" x 1/8"
BUS02136	521-921	3/8" x 1/4"
BUS02137	521-930	1/2" x 1/8"
BUS02138	521-931	1/2" x 1/4"
BUS02139	521-932	1/2" x 3/8"
BUS02143	521-940	3/4" x 1/8"
BUS02144	521-941	3/4" x 1/4"
BUS02145	521-942	3/4" x 3/8"
BUS01800	521-943HN	3/4" x 1/2"
BUS02147	521-951	1" x 1/4"
BUS02148	521-952	1" x 3/8"
BUS02149	521-953	1" x 1/2"
BUS02150	521-954	1" x 3/4"
BUS02151	521-961	1-1/4" x 1/4"
BUS02152	521-962	1-1/4" x 3/8"
BUS02153	521-963	1-1/4" x 1/2"
BUS02154	521-964	1-1/4" x 3/4"
BUS02155	521-965	1-1/4" x 1"
BUS02156	521-971	1-1/2" x 1/4"
BUS02121	521-903	3" x 1/2"
BUS02122	521-904	3" x 3/4"
BUS02123	521-905	3" x 1"
BUS02124	521-906	3" x 1-1/4"
BUS02125	521-907	3" x 1-1/2"
BUS02126	521-908	3" x 2"
BUS02127	521-909	3" x 2-1/2"
BUS02129	521-914	4" x 3/4"
BUS02130	521-915	4" x 1"
BUS02131	521-916	4" x 1-1/4"
BUS02132	521-917	4" x 1-1/2"

## Threaded BMI Fittings (Continued)

### Black Malleable Iron 150# Hex Bushing

Part #	Mfg #	Size
BUS02133	521-918	4" x 2"
BUS02134	521-919	4" x 2-1/2"
BUS02120	521-900	4" x 3"
BUS02141	521-938	6" x 2"
BUS02142	521-939	6" x 3"
BUS02140	521-937	6" x 4"

### Black Malleable Iron 150# Cap



Part #	Mfg #	Size
FTG01008	521-403	1/2"
CAP00981	521-404	3/4"
CAP00982	521-405	1"

### Black Malleable Iron 150# RH Coupling



Part #	Mfg #	Size
CPL01316	521-200	1/8"
CPL01317	521-201	1/4"
CPL01318	521-202	3/8"
FTG01004	521-203	1/2"
CPL01049	521-204	3/4"
CPL01050	521-205	1"
CPL01319	521-206	1-1/4"
CPL01320	521-207	1-1/2"
CPL01321	521-208	2"
CPL01322	521-209	2-1/2"
CPL01323	521-210	3"
CPL01324	521-211	4"
CPL01325	521-213	6"

# Malleable Iron Fittings

## Black Malleable Iron 150# 45° Elbow



Part #	Mfg #	Size
ELL01432	520-200	1/8"
ELL01433	520-201	1/4"
ELL01434	520-202	3/8"
FTG01003	520-203	1/2"
ELL01006	520-204	3/4"
ELL01007	520-205	1"
ELL01435	520-206	1-1/4"
ELL01436	520-207	1-1/2"
ELL01437	520-208	2"
ELL01438	520-209	2-1/2"
ELL01439	520-210	3"
ELL01440	520-211	4"

## Black Malleable Iron 150# 90° Elbow



Part #	Mfg #	Size
ELL01385	520-000	1/8"
ELL01115	520-001	1/4"
ELL01386	520-002	3/8"
FTG01002	520-003	1/2"
ELL01004	520-004	3/4"
ELL01005	520-005	1"
ELL01387	520-006	1-1/4"
ELL01388	520-007	1-1/2"
ELL01389	520-008	2"
ELL01390	520-009	2-1/2"
ELL01391	520-010	3"
ELL01392	520-011	4"
ELL01393	520-013	6"

## Black Malleable Iron 150# 45° Street Elbow



Part #	Mfg #	Size
ELL01453	520-500	1/8"
ELL01454	520-501	1/4"
ELL01455	520-502	3/8"
ELL01456	520-503	1/2"
ELL01457	520-504	3/4"
ELL01458	520-505	1"
ELL01459	520-506	1-1/4"
ELL01460	520-507	1-1/2"
ELL01461	520-508	2"
ELL01462	520-509	2-1/2"
ELL01463	520-510	3"
ELL01464	520-511	4"

## Black Malleable Iron 150# 90° Reducing Elbow



Part #	Mfg #	Size
ELL01394	520-110	1/4" x 1/8"
ELL01403	520-120	3/8" x 1/8"
ELL01404	520-121	3/8" x 1/4"
ELL01405	520-130	1/2" x 1/8"
ELL01406	520-131	1/2" x 1/4"
ELL01407	520-132	1/2" x 3/8"
ELL01408	520-141	3/4" x 1/4"
ELL01409	520-143	3/4" x 1/2"
ELL01411	520-151	1" x 1/4"
ELL01412	520-152	1" x 3/8"
ELL01410	520-144	1" x 1/2"
ELL01413	520-154	1" x 3/4"
ELL01415	520-163	1-1/4" x 1/2"
ELL01416	520-164	1-1/4" x 3/4"
ELL01417	520-165	1-1/4" x 1"
ELL01418	520-173	1-1/2" x 1/2"
ELL01419	520-174	1-1/2" x 3/4"
ELL01414	520-157	1-1/2" x 1"



# Malleable Iron Fittings

## Threaded BMI Fittings (Continued)

### Black Malleable Iron 150# 90° Reducing Elbow

Part #	Mfg #	Size
ELL01420	520-176	1-1/2" x 1-1/4"
ELL01421	520-183	2" x 1/2"
ELL01422	520-184	2" x 3/4"
ELL01423	520-185	2" x 1"
ELL01424	520-186	2" x 1-1/4"
ELL01425	520-187	2" x 1-1/2"
ELL01426	520-193	2-1/2" x 1/2"
ELL01427	520-194	2-1/2" x 3/4"
ELL01428	520-195	2-1/2" x 1"
ELL01429	520-196	2-1/2" x 1-1/4"
ELL01430	520-197	2-1/2" x 1-1/2"
ELL01431	520-198	2-1/2" x 2"
ELL01398	520-115	3" x 1"
ELL01399	520-116	3" x 1-1/4"
ELL01400	520-117	3" x 1-1/2"
ELL01401	520-118	3" x 2"
ELL01402	520-119	3" x 2-1/2"
ELL01395	520-111	4" x 2"
ELL01397	520-113	4" x 2-1/2"
ELL01396	520-112	4" x 3"

### Black Malleable Iron 150# 90° Street Elbow



Part #	Mfg #	Size
ELL01444	520-300	1/8"
ELL01445	520-301	1/4"
ELL01446	520-302	3/8"
ELL01008	520-303	1/2"
FTG01006	520-304	3/4"
ELL01009	520-305	1"
ELL01447	520-306	1-1/4"
ELL01448	520-307	1-1/2"
ELL01449	520-308	2"
ELL01450	520-309	2-1/2"
ELL01451	520-310	3"
ELL01452	520-311	4"

### Black Malleable Iron 150# Solid Square Head Plug



Part #	Mfg #	Size
PLU01031	521-801	1/4"
PLU00968	521-803	1/2"
FTG01009	521-804	3/4"
PLU00969	521-805	1"

### Black Malleable Iron 150# Reducing Coupling



Part #	Mfg #	Size
CPL01333	521-310	1/4" x 1/8"
CPL01334	521-320	3/8" x 1/8"
CPL01335	521-321	3/8" x 1/4"
CPL01099	521-330	1/2" x 1/8"
CPL01100	521-331	1/2" x 1/4"
CPL01343	521-332	1/2" x 3/8"
CPL01344	521-340	3/4" x 1/8"
CPL01345	521-341	3/4" x 1/4"
CPL01346	521-342	3/4" x 3/8"
FTG01005	521-343	3/4" x 1/2"
CPL01347	521-351	1" x 1/4"
CPL01348	521-352	1" x 3/8"
CPL01051	521-353	1" x 1/2"
CPL01052	521-354	1" x 3/4"
CPL01349	521-362	1-1/4" x 3/8"
CPL01350	521-363	1-1/4" x 1/2"
CPL01351	521-364	1-1/4" x 3/4"
CPL01352	521-365	1-1/4" x 1"
CPL01353	521-372	1-1/2" x 3/8"
CPL01354	521-373	1-1/2" x 1/2"
CPL01355	521-374	1-1/2" x 3/4"
CPL01356	521-375	1-1/2" x 1"
CPL01357	521-376	1-1/2" x 1-1/4"
CPL01358	521-383	2" x 1/2"
CPL01359	521-384	2" x 3/4"
CPL01360	521-385	2" x 1"
CPL01361	521-386	2" x 1-1/4"
CPL01362	521-387	2" x 1-1/2"

# Malleable Iron Fittings

## Threaded BMI Fittings (Continued)

### Black Malleable Iron 150# Reducing Coupling

Part #	Mfg #	Size
CPL01363	521-394	2-1/2" x 3/4"
CPL01364	521-395	2-1/2" x 1"
CPL01365	521-396	2-1/2" x 1-1/4"
CPL01366	521-397	2-1/2" x 1-1/2"
CPL01367	521-398	2-1/2" x 2"
CPL01327	521-304	3" x 3/4"
CPL01328	521-305	3" x 1"
CPL01329	521-306	3" x 1-1/4"
CPL01330	521-307	3" x 1-1/2"
CPL01331	521-308	3" x 2"
CPL01332	521-309	3" x 2-1/2"
CPL01338	521-325	4" x 1"
CPL01339	521-326	4" x 1-1/4"
CPL01340	521-327	4" x 1-1/2"
CPL01341	521-328	4" x 2"
CPL01342	521-329	4" x 2-1/2"
CPL01326	521-300	4" x 3"
CPL01337	521-323	6" x 3"
CPL01336	521-322	6" x 4"

### Black Malleable Iron 150# Tee



Part #	Mfg #	Size
TEE01291	520-600	1/8"
TEE01002	520-601	1/4"
TEE01292	520-602	3/8"
TEE00997	520-603	1/2"
TEE00949	520-604	3/4"
TEE00950	520-605	1"
TEE01293	520-606	1-1/4"
TEE01294	520-607	1-1/2"
TEE01295	520-608	2"
TEE01296	520-609	2-1/2"
TEE01297	520-610	3"
TEE01298	520-611	4"
TEE01299	520-613	6"

### Black Malleable Iron 150# Reducing Run/Outlet Tee



Part #	Mfg #	Size
TEE00951	520-433	3/4" x 1/2" x 1/2"
TEE01123	520-533	1" x 1/2" x 1/2"
TEE01124	520-534	1" x 1/2" x 3/4"
TEE01125	520-543	1" x 3/4" x 1/2"
TEE01285	520-544	1" x 3/4" x 3/4"
TEE01300	520-633	1-1/4" x 1/2" x 1/2"
TEE01301	520-634	1-1/4" x 1/2" x 3/4"
TEE01302	520-635	1-1/4" x 1/2" x 1"
TEE01304	520-643	1-1/4" x 3/4" x 1/2"
TEE01305	520-644	1-1/4" x 3/4" x 3/4"
TEE01306	520-645	1-1/4" x 3/4" x 1"
TEE01308	520-653	1-1/4" x 1" x 1/2"
TEE01309	520-654	1-1/4" x 1" x 3/4"
TEE01310	520-655	1-1/4" x 1" x 1"
TEE01318	520-734	1-1/2" x 1/2" x 3/4"
TEE01319	520-735	1-1/2" x 1/2" x 1"
TEE01320	520-736	1-1/2" x 1/2" x 1-1/4"
TEE01325	520-748	1-1/2" x 3/4" x 1/2"
TEE01322	520-744	1-1/2" x 3/4" x 3/4"
TEE01323	520-746	1-1/2" x 3/4" x 1-1/4"
TEE01329	520-758	1-1/2" x 1" x 1/2"
TEE01330	520-759	1-1/2" x 1" x 3/4"
TEE01326	520-755	1-1/2" x 1" x 1"
TEE01327	520-756	1-1/2" x 1" x 1-1/4"
TEE01331	520-763	1-1/2" x 1-1/4" x 1/2"
TEE01332	520-764	1-1/2" x 1-1/4" x 3/4"
TEE01336	520-768	1-1/2" x 1-1/4" x 1"
TEE01337	520-769	1-1/2" x 1-1/4" x 1-1/4"
TEE01347	520-844	2" x 3/4" x 3/4"
TEE01349	520-855	2" x 1" x 1"
TEE01350	520-857	2" x 1" x 1-1/2"
TEE01352	520-865	2" x 1-1/4" x 1"
TEE01353	520-866	2" x 1-1/4" x 1-1/4"
TEE01354	520-867	2" x 1-1/4" x 1-1/2"
TEE01356	520-874	2" x 1-1/2" x 3/4"
TEE01357	520-875	2" x 1-1/2" x 1"
TEE01358	520-876	2" x 1-1/2" x 1-1/4"
TEE01359	520-877	2" x 1-1/2" x 1-1/2"

# Malleable Iron Fittings

## Black Malleable Iron 150# Reducing Run Tee



Part #	Mfg #	Size
TEE00970	520-434	3/4" x 1/2" x 3/4"
TEE01129	520-793	1" x 1/2" x 1"
TEE01130	520-794	1" x 3/4" x 1"
TEE01303	520-636	1-1/4" x 1/2" x 1-1/4"
TEE01307	520-646	1-1/4" x 3/4" x 1-1/4"
TEE01311	520-656	1-1/4" x 1" x 1-1/4"
TEE01321	520-737	1-1/2" x 1/2" x 1-1/2"
TEE01324	520-747	1-1/2" x 3/4" x 1-1/2"
TEE01328	520-757	1-1/2" x 1" x 1-1/2"
TEE01335	520-767	1-1/2" x 1-1/4" x 1-1/2"
TEE01346	520-838	2" x 1/2" x 2"
TEE01348	520-848	2" x 3/4" x 2"
TEE01351	520-858	2" x 1" x 2"
TEE01355	520-868	2" x 1-1/4" x 2"
TEE01360	520-878	2" x 1-1/2" x 2"

## Black Malleable Iron 150# Reducing Outlet Tee



Part #	Mfg #	Size
ELL01443	520-229	1/4" x 1/4" x 1/8"
ELL01441	520-220	3/8" x 3/8" x 1/8"
ELL01442	520-221	3/8" x 3/8" x 1/4"
TEE01277	520-330	1/2" x 1/2" x 1/8"
TEE01278	520-331	1/2" x 1/2" x 1/4"
TEE01276	520-322	1/2" x 1/2" x 3/8"
TEE01283	520-444	3/4" x 3/4" x 1/4"
TEE01282	520-442	3/4" x 3/4" x 3/8"
TEE01126	520-743	3/4" x 3/4" x 1/2"
TEE01286	520-551	1" x 1" x 1/4"
TEE01287	520-552	1" x 1" x 3/8"
FTG01130	520-753	1" x 1" x 1/2"
TEE01128	520-754	1" x 1" x 3/4"
TEE01315	520-662	1-1/4" x 1-1/4" x 3/8"
TEE01316	520-663	1-1/4" x 1-1/4" x 1/2"
TEE01317	520-664	1-1/4" x 1-1/4" x 3/4"

## Threaded BMI Fittings (Continued)

### Black Malleable Iron 150# Reducing Outlet Tee

Part #	Mfg #	Size
TEE01333	520-765	1-1/4" x 1-1/4" x 1"
TEE01338	520-772	1-1/2" x 1-1/2" x 3/8"
TEE01339	520-773	1-1/2" x 1-1/2" x 1/2"
TEE01340	520-774	1-1/2" x 1-1/2" x 3/4"
TEE01334	520-766	1-1/2" x 1-1/2" x 1"
TEE01341	520-776	1-1/2" x 1-1/2" x 1-1/4"
TEE01343	520-783	2" x 2" x 1/2"
TEE01361	520-884	2" x 2" x 3/4"
TEE01344	520-785	2" x 2" x 1"
TEE01362	520-886	2" x 2" x 1-1/4"
TEE01345	520-787	2" x 2" x 1-1/2"
TEE01374	520-993	2-1/2" x 2-1/2" x 1/2"
TEE01375	520-994	2-1/2" x 2-1/2" x 3/4"
TEE01376	520-995	2-1/2" x 2-1/2" x 1"
TEE01377	520-996	2-1/2" x 2-1/2" x 1-1/4"
TEE01378	520-997	2-1/2" x 2-1/2" x 1-1/2"
TEE01379	520-998	2-1/2" x 2-1/2" x 2"
TEE01364	520-934	3" x 3" x 3/4"
TEE01365	520-935	3" x 3" x 1"
TEE01366	520-936	3" x 3" x 1-1/4"
TEE01367	520-937	3" x 3" x 1-1/2"
TEE01280	520-338	3" x 3" x 2"
TEE01369	520-945	4" x 4" x 1"
TEE01370	520-946	4" x 4" x 1-1/4"
TEE01371	520-947	4" x 4" x 1-1/2"
TEE01372	520-948	4" x 4" x 2"
TEE01373	520-949	4" x 4" x 2-1/2"
TEE01281	520-388	4" x 4" x 3"

### Black Malleable Iron 150# Bull Tee



Part #	Mfg #	Size
TEE00969	520-334	1/2" x 1/2" x 3/4"
TEE01279	520-335	1/2" x 1/2" x 1"
TEE01122	520-445	3/4" x 3/4" x 1"
TEE01284	520-446	3/4" x 3/4" x 1-1/4"
TEE01288	520-556	1" x 1" x 1-1/4"
TEE01289	520-557	1" x 1" x 1-1/2"
TEE01290	520-558	1" x 1" x 2"
TEE01313	520-658	1-1/4" x 1-1/4" x 1-1/2"

# Malleable Iron Fittings

## Threaded BMI Fittings (Continued)

### Black Malleable Iron 150# Bull Tee

Part #	Mfg #	Size
TEE01314	520-659	1-1/4" x 1-1/4" x 2"
TEE01342	520-778	1-1/2" x 1-1/2" x 2"
TEE01363	520-889	2" x 2" x 2-1/2"
TEE01368	520-939	2-1/2" x 2-1/2" x 3"

### Black Malleable Iron 150# Reducing Run Bull Tee



Part #	Mfg #	Size
TEE01121	520-435	3/4" x 1/2" x 1"
TEE01312	520-657	1-1/4" x 1" x 1-1/2"

## Black Malleable Iron Unions

- Available in Black finish for oil and gas fluid applications
- Available for servicing 150 psi and 300 psi applications
- Threaded ends meeting with ANSI/ASME B1.20.1 standard
- Material meeting with ASTM A-197 standard
- Dimensions meet the following:
  - Unions – with ASME B16.39 standard



### Black Malleable Iron 150# All Iron Union

Part #	Mfg #	Size
UNN00992	521-700	1/8"
UNN00993	521-701	1/4"
UNN00994	521-702	3/8"
FTG01010	521-703	1/2"
FTG01019	521-704	3/4"
FTG01020	521-705	1"
UNN00995	521-706	1-1/4"
UNN00996	521-707	1-1/2"
UNN00997	521-708	2"
UNN00998	521-709	2-1/2"
UNN00999	521-710	3"
UNN01000	521-711	4"

## Galvanized Malleable Iron Fittings

- Available in galvanized finish for water, air and steam installations
- Hot dip galvanizing process according to ASTM A-153 standard
- Galvanized products meet California Lead Plumbing Law Specifications:
  - Threaded ends meet with ANSI/ASME B1.20.1 standard
  - Material meets with ASTM A-197 standard
  - Dimensions meet the following:
    - Threaded fittings – with ASME B16.3 standard
    - Bushing reducer and plugs – with ASME B16.14 standard

### Galv MI Threaded 150# Hex Bushing



Part #	Mfg #	Size
BUS02074	511-910	1/4" x 1/8"
BUS02081	511-920	3/8" x 1/8"
BUS02082	511-921	3/8" x 1/4"
BUS02083	511-930	1/2" x 1/8"
BUS02084	511-931	1/2" x 1/4"
BUS02085	511-932	1/2" x 3/8"
BUS02089	511-940	3/4" x 1/8"
BUS02090	511-941	3/4" x 1/4"
BUS02091	511-942	3/4" x 3/8"
BUS02092	511-943	3/4" x 1/2"
BUS02093	511-951	1" x 1/4"
BUS02094	511-952	1" x 3/8"
BUS02095	511-953	1" x 1/2"
BUS02096	511-954	1" x 3/4"
BUS02097	511-961	1-1/4" x 1/4"
BUS02098	511-962	1-1/4" x 3/8"
BUS02099	511-963	1-1/4" x 1/2"
BUS02100	511-964	1-1/4" x 3/4"
BUS02101	511-965	1-1/4" x 1"
BUS02102	511-971	1-1/2" x 1/4"
BUS02103	511-972	1-1/2" x 3/8"
BUS02104	511-973	1-1/2" x 1/2"
BUS02105	511-974	1-1/2" x 3/4"
BUS02106	511-975	1-1/2" x 1"
BUS02107	511-976	1-1/2" x 1-1/4"
BUS02108	511-982	2" x 3/8"
BUS02109	511-983	2" x 1/2"
BUS02110	511-984	2" x 3/4"
BUS02111	511-985	2" x 1"



# Malleable Iron Fittings

## Galv Malleable Iron Fittings (Continued)

### Galv MI Threaded 150# Hex Bushing

Part #	Mfg #	Size
BUS02112	511-986	2" x 1-1/4"
BUS02113	511-987	2" x 1-1/2"
BUS02114	511-993	2-1/2" x 1/2"
BUS02115	511-994	2-1/2" x 3/4"
BUS02116	511-995	2-1/2" x 1"
BUS02117	511-996	2-1/2" x 1-1/4"
BUS02118	511-997	2-1/2" x 1-1/2"
BUS02119	511-998	2-1/2" x 2"
BUS02067	511-903	3" x 1/2"
BUS02068	511-904	3" x 3/4"
BUS02069	511-905	3" x 1"
BUS02070	511-906	3" x 1-1/4"
BUS02071	511-907	3" x 1-1/2"
BUS02072	511-908	3" x 2"
BUS02073	511-909	3" x 2-1/2"
BUS02075	511-914	4" x 3/4"
BUS02076	511-915	4" x 1"
BUS02077	511-916	4" x 1-1/4"
BUS02078	511-917	4" x 1-1/2"
BUS02079	511-918	4" x 2"
BUS02080	511-919	4" x 2-1/2"
BUS02066	511-900	4" x 3"
BUS02087	511-938	6" x 2"
BUS02088	511-939	6" x 3"
BUS02086	511-937	6" x 4"

### Galv MI Threaded 150# Cap



Part #	Mfg #	Size
CAP01228	511-400	1/8"
CAP01229	511-401	1/4"
CAP01230	511-402	3/8"
CAP01231	511-403	1/2"
CAP01232	511-404	3/4"
CAP01233	511-405	1"
CAP01234	511-406	1-1/4"
CAP01235	511-407	1-1/2"
CAP01236	511-408	2"
CAP01237	511-409	2-1/2"
CAP01238	511-410	3"

## Galv Malleable Iron Fittings (Continued)

### Galv MI Threaded 150# Cap

Part #	Mfg #	Size
CAP01239	511-411	4"
CAP01240	511-413	6"

### Galv MI Threaded 150# RH Coupling



Part #	Mfg #	Size
CPL01258	511-200	1/8"
CPL01259	511-201	1/4"
CPL01260	511-202	3/8"
CPL01261	511-203	1/2"
CPL01262	511-204	3/4"
CPL01263	511-205	1"
CPL01264	511-206	1-1/4"
CPL01265	511-207	1-1/2"
CPL01266	511-208	2"
CPL01267	511-209	2-1/2"
CPL01268	511-210	3"
CPL01269	511-211	4"
CPL01270	511-213	6"

### Galv MI Threaded 150# 45° Elbow



Part #	Mfg #	Size
ELL01344	510-200	1/8"
ELL01345	510-201	1/4"
ELL01346	510-202	3/8"
ELL01347	510-203	1/2"
ELL01348	510-204	3/4"
ELL01349	510-205	1"
ELL01350	510-206	1-1/4"
ELL01351	510-207	1-1/2"
ELL01352	510-208	2"
ELL01353	510-209	2-1/2"
ELL01354	510-210	3"
ELL01355	510-211	4"

# Malleable Iron Fittings

## Galv MI Threaded 150# 45° Street Elbow



Part #	Mfg #	Size
ELL01368	510-500	1/8"
ELL01369	510-501	1/4"
ELL01370	510-502	3/8"
ELL01371	510-503	1/2"
ELL01372	510-504	3/4"
ELL01373	510-505	1"
ELL01374	510-506	1-1/4"
ELL01375	510-507	1-1/2"
ELL01376	510-508	2"
ELL01377	510-509	2-1/2"
ELL01378	510-510	3"
ELL01379	510-511	4"

## Galv MI Threaded 150# 90° Reducing Elbow



Part #	Mfg #	Size
ELL01306	510-110	1/4" x 1/8"
ELL01315	510-120	3/8" x 1/8"
ELL01316	510-121	3/8" x 1/4"
ELL01317	510-130	1/2" x 1/8"
ELL01318	510-131	1/2" x 1/4"
ELL01319	510-132	1/2" x 3/8"
ELL01320	510-141	3/4" x 1/4"
ELL01321	510-142	3/4" x 3/8"
ELL01322	510-143	3/4" x 1/2"
ELL01324	510-151	1" x 1/4"
ELL01325	510-152	1" x 3/8"
ELL01323	510-144	1" x 1/2"
ELL01326	510-154	1" x 3/4"
ELL01328	510-163	1-1/4" x 1/2"
ELL01329	510-164	1-1/4" x 3/4"
ELL01330	510-165	1-1/4" x 1"
ELL01331	510-173	1-1/2" x 1/2"
ELL01332	510-174	1-1/2" x 3/4"
ELL01327	510-157	1-1/2" x 1"
ELL01333	510-176	1-1/2" x 1-1/4"
ELL01334	510-183	2" x 1/2"
ELL01335	510-184	2" x 3/4"
ELL01336	510-185	2" x 1"
ELL01337	510-186	2" x 1-1/4"
ELL01338	510-187	2" x 1-1/2"
ELL01339	510-194	2-1/2" x 3/4"
ELL01340	510-195	2-1/2" x 1"
ELL01341	510-196	2-1/2" x 1-1/4"
ELL01342	510-197	2-1/2" x 1-1/2"
ELL01343	510-198	2-1/2" x 2"
ELL01310	510-115	3" x 1"
ELL01311	510-116	3" x 1-1/4"
ELL01312	510-117	3" x 1-1/2"
ELL01313	510-118	3" x 2"
ELL01314	510-119	3" x 2-1/2"
ELL01307	510-111	4" x 2"
ELL01309	510-113	4" x 2-1/2"
ELL01308	510-112	4" x 3"

## Galv MI Threaded 150# 90° Elbow



Part #	Mfg #	Size
ELL01293	510-000	1/8"
ELL01294	510-001	1/4"
ELL01295	510-002	3/8"
ELL01296	510-003	1/2"
ELL01297	510-004	3/4"
ELL01298	510-005	1"
ELL01299	510-006	1-1/4"
ELL01300	510-007	1-1/2"
ELL01301	510-008	2"
ELL01302	510-009	2-1/2"
ELL01303	510-010	3"
ELL01304	510-011	4"
ELL01305	510-013	6"



# Malleable Iron Fittings

## Galv MI Threaded 150# 90° Street Elbow



Part #	Mfg #	Size
ELL01356	510-300	1/8"
ELL01357	510-301	1/4"
ELL01358	510-302	3/8"
ELL01359	510-303	1/2"
ELL01360	510-304	3/4"
ELL01361	510-305	1"
ELL01362	510-306	1-1/4"
ELL01363	510-307	1-1/2"
ELL01364	510-308	2"
ELL01365	510-309	2-1/2"
ELL01366	510-310	3"
ELL01367	510-311	4"

## Galv MI Threaded 150# 90° Side Outlet Elbow



Part #	Mfg #	Size
ELL01380	510-803	1/2"
ELL01381	510-804	3/4"
ELL01382	510-805	1"
ELL01383	510-806	1-1/4"
ELL01384	510-808	2"

## Galv MI Threaded 150# Reducer



Part #	Mfg #	Size
CPL01277	511-310	1/4" x 1/8"
CPL01278	511-320	3/8" x 1/8"
CPL01279	511-321	3/8" x 1/4"
CPL01286	511-330	1/2" x 1/8"
CPL01287	511-331	1/2" x 1/4"
CPL01288	511-332	1/2" x 3/8"
CPL01289	511-340	3/4" x 1/8"

## Galv Malleable Iron Fittings (Continued)

### Galv MI Threaded 150# Reducer

Part #	Mfg #	Size
CPL01290	511-341	3/4" x 1/4"
CPL01291	511-342	3/4" x 3/8"
CPL01292	511-343	3/4" x 1/2"
CPL01293	511-351	1" x 1/4"
CPL01294	511-352	1" x 3/8"
CPL01295	511-353	1" x 1/2"
CPL01296	511-354	1" x 3/4"
CPL01297	511-362	1-1/4" x 3/8"
CPL01298	511-363	1-1/4" x 1/2"
CPL01299	511-364	1-1/4" x 3/4"
CPL01300	511-365	1-1/4" x 1"
CPL01301	511-372	1-1/2" x 3/8"
CPL01302	511-373	1-1/2" x 1/2"
CPL01303	511-374	1-1/2" x 3/4"
CPL01304	511-375	1-1/2" x 1"
CPL01305	511-376	1-1/2" x 1-1/4"
CPL01306	511-383	2" x 1/2"
CPL01307	511-384	2" x 3/4"
CPL01308	511-385	2" x 1"
CPL01309	511-386	2" x 1-1/4"
CPL01310	511-387	2" x 1-1/2"
CPL01311	511-394	2-1/2" x 3/4"
CPL01312	511-395	2-1/2" x 1"
CPL01313	511-396	2-1/2" x 1-1/4"
CPL01314	511-397	2-1/2" x 1-1/2"
CPL01315	511-398	2-1/2" x 2"
CPL01272	511-305	3" x 1"
CPL01273	511-306	3" x 1-1/4"
CPL01274	511-307	3" x 1-1/2"
CPL01275	511-308	3" x 2"
CPL01276	511-309	3" x 2-1/2"
CPL01282	511-326	4" x 1-1/4"
CPL01283	511-327	4" x 1-1/2"
CPL01284	511-328	4" x 2"
CPL01285	511-329	4" x 2-1/2"
CPL01271	511-300	4" x 3"
CPL01280	511-322	6" x 3"
CPL01281	511-323	6" x 4"

# Malleable Iron Fittings

## Galv MI Threaded 150# Tee



Part #	Mfg #	Size
TEE01174	510-600	1/8"
TEE01175	510-601	1/4"
TEE01176	510-602	3/8"
TEE01177	510-603	1/2"
TEE01178	510-604	3/4"
TEE01179	510-605	1"
TEE01180	510-606	1-1/4"
TEE01181	510-607	1-1/2"
TEE01182	510-608	2"
TEE01183	510-609	2-1/2"
TEE01184	510-610	3"
TEE01185	510-611	4"
TEE01186	510-613	6"

## Galv MI Threaded 150# Service Tee



Part #	Mfg #	Size
TEE01205	510-683	1/2"
TEE01206	510-684	3/4"
TEE01207	510-685	1"

## Galv MI Threaded 150# Side Outlet Tee



Part #	Mfg #	Size
TEE01240	510-813	1/2"
TEE01241	510-814	3/4"
TEE01242	510-815	1"

## Galv MI Threaded 150# Reducing Run/Outlet Tee



Part #	Mfg #	Size
TEE01157	510-433	3/4" x 1/2" x 1/2"
TEE01164	510-533	1" x 1/2" x 1/2"
TEE01165	510-534	1" x 1/2" x 3/4"
TEE01166	510-543	1" x 3/4" x 1/2"
TEE01167	510-544	1" x 3/4" x 3/4"
TEE01187	510-633	1-1/4" x 1/2" x 1/2"
TEE01188	510-634	1-1/4" x 1/2" x 3/4"
TEE01189	510-635	1-1/4" x 1/2" x 1"
TEE01191	510-643	1-1/4" x 3/4" x 1/2"
TEE01192	510-644	1-1/4" x 3/4" x 3/4"
TEE01193	510-645	1-1/4" x 3/4" x 1"
TEE01195	510-653	1-1/4" x 1" x 1/2"
TEE01196	510-654	1-1/4" x 1" x 3/4"
TEE01197	510-655	1-1/4" x 1" x 1"
TEE01208	510-734	1-1/2" x 1/2" x 3/4"
TEE01209	510-735	1-1/2" x 1/2" x 1"
TEE01210	510-736	1-1/2" x 1/2" x 1-1/4"
TEE01216	510-748	1-1/2" x 3/4" x 1/2"
TEE01213	510-744	1-1/2" x 3/4" x 3/4"
TEE01214	510-746	1-1/2" x 3/4" x 1-1/4"
TEE01222	510-758	1-1/2" x 1" x 1/2"
TEE01223	510-759	1-1/2" x 1" x 3/4"
TEE01219	510-755	1-1/2" x 1" x 1"
TEE01220	510-756	1-1/2" x 1" x 1-1/4"
TEE01224	510-763	1-1/2" x 1-1/4" x 1/2"
TEE01225	510-764	1-1/2" x 1-1/4" x 3/4"
TEE01228	510-768	1-1/2" x 1-1/4" x 1"
TEE01229	510-769	1-1/2" x 1-1/4" x 1-1/4"
TEE01244	510-844	2" x 3/4" x 3/4"
TEE01246	510-855	2" x 1" x 1"
TEE01247	510-857	2" x 1" x 1-1/2"
TEE01249	510-865	2" x 1-1/4" x 1"
TEE01250	510-866	2" x 1-1/4" x 1-1/4"
TEE01251	510-867	2" x 1-1/4" x 1-1/2"
TEE01253	510-874	2" x 1-1/2" x 3/4"
TEE01254	510-875	2" x 1-1/2" x 1"
TEE01255	510-876	2" x 1-1/2" x 1-1/4"
TEE01256	510-877	2" x 1-1/2" x 1-1/2"

# Malleable Iron Fittings

## Galv MI Threaded 150# Reducing Run Tee



Part #	Mfg #	Size
TEE01158	510-434	3/4" x 1/2" x 3/4"
TEE01239	510-793	1" x 1/2" x 1"
TEE01168	510-545	1" x 3/4" x 1"
TEE01190	510-636	1-1/4" x 1/2" x 1-1/4"
TEE01194	510-646	1-1/4" x 3/4" x 1-1/4"
TEE01198	510-656	1-1/4" x 1" x 1-1/4"
TEE01211	510-737	1-1/2" x 1/2" x 1-1/2"
TEE01215	510-747	1-1/2" x 3/4" x 1-1/2"
TEE01221	510-757	1-1/2" x 1" x 1-1/2"
TEE01227	510-767	1-1/2" x 1-1/4" x 1-1/2"
TEE01243	510-838	2" x 1/2" x 2"
TEE01245	510-848	2" x 3/4" x 2"
TEE01248	510-858	2" x 1" x 2"
TEE01252	510-868	2" x 1-1/4" x 2"
TEE01257	510-878	2" x 1-1/2" x 2"

## Galv MI Threaded 150# Reducing Outlet Tee



Part #	Mfg #	Size
TEE01149	510-229	1/4" x 1/4" x 1/8"
TEE01147	510-220	3/8" x 3/8" x 1/8"
TEE01148	510-221	3/8" x 3/8" x 1/4"
TEE01151	510-330	1/2" x 1/2" x 1/8"
TEE01152	510-331	1/2" x 1/2" x 1/4"
TEE01150	510-322	1/2" x 1/2" x 3/8"
TEE01161	510-444	3/4" x 3/4" x 1/4"
TEE01160	510-442	3/4" x 3/4" x 3/8"
TEE01212	510-743	3/4" x 3/4" x 1/2"
TEE01169	510-551	1" x 1" x 1/4"
TEE01170	510-552	1" x 1" x 3/8"
TEE01217	510-753	1" x 1" x 1/2"
TEE01218	510-754	1" x 1" x 3/4"
TEE01202	510-662	1-1/4" x 1-1/4" x 3/8"
TEE01203	510-663	1-1/4" x 1-1/4" x 1/2"
TEE01204	510-664	1-1/4" x 1-1/4" x 3/4"

## Galv Malleable Iron Fittings (Continued)

### Galv MI Threaded 150# Reducing Outlet Tee

Part #	Mfg #	Size
TEE01226	510-765	1-1/4" x 1-1/4" x 1"
TEE01230	510-772	1-1/2" x 1-1/2" x 3/8"
TEE01231	510-773	1-1/2" x 1-1/2" x 1/2"
TEE01232	510-774	1-1/2" x 1-1/2" x 3/4"
TEE01233	510-775	1-1/2" x 1-1/2" x 1"
TEE01234	510-776	1-1/2" x 1-1/2" x 1-1/4"
TEE01236	510-783	2" x 2" x 1/2"
TEE01258	510-884	2" x 2" x 3/4"
TEE01237	510-785	2" x 2" x 1"
TEE01259	510-886	2" x 2" x 1-1/4"
TEE01238	510-787	2" x 2" x 1-1/2"
TEE01270	510-993	2-1/2" x 2-1/2" x 1/2"
TEE01271	510-994	2-1/2" x 2-1/2" x 3/4"
TEE01272	510-995	2-1/2" x 2-1/2" x 1"
TEE01273	510-996	2-1/2" x 2-1/2" x 1-1/4"
TEE01274	510-997	2-1/2" x 2-1/2" x 1-1/2"
TEE01275	510-998	2-1/2" x 2-1/2" x 2"
TEE01261	510-934	3" x 3" x 3/4"
TEE01262	510-935	3" x 3" x 1"
TEE01263	510-936	3" x 3" x 1-1/4"
TEE01264	510-937	3" x 3" x 1-1/2"
TEE01155	510-338	3" x 3" x 2"
TEE01265	510-939	3" x 3" x 2-1/2"
TEE01266	510-945	4" x 4" x 1"
TEE01267	510-946	4" x 4" x 1-1/4"
TEE01268	510-947	4" x 4" x 1-1/2"
TEE01269	510-949	4" x 4" x 2-1/2"
TEE01156	510-388	4" x 4" x 3"

### Galv MI Threaded 150# Bull Tee



Part #	Mfg #	Size
TEE01153	510-334	1/2" x 1/2" x 3/4"
TEE01154	510-335	1/2" x 1/2" x 1"
TEE01162	510-445	3/4" x 3/4" x 1"
TEE01163	510-446	3/4" x 3/4" x 1-1/4"
TEE01171	510-556	1" x 1" x 1-1/4"
TEE01172	510-557	1" x 1" x 1-1/2"
TEE01173	510-558	1" x 1" x 2"
TEE01200	510-658	1-1/4" x 1-1/4" x 1-1/2"

# Malleable Iron Fittings

## Galv Malleable Iron Fittings (Continued)

### Galv MI Threaded 150# Bull Tee

Part #	Mfg #	Size
TEE01201	510-659	1-1/4" x 1-1/4" x 2"
TEE01235	510-778	1-1/2" x 1-1/2" x 2"
TEE01260	510-889	2" x 2" x 2-1/2"

### Galv MI Threaded 150# Reducing Run Bull Tee



Part #	Mfg #	Size
TEE01159	510-435	3/4" x 1/2" x 1"
TEE01199	510-657	1-1/4" x 1" x 1-1/2"

## Galvanized Malleable Iron Unions

- Available in Galvanized finish for water, air and steam installations
- Available for servicing 150 psi and 300 psi applications
- Hot dip galvanizing process according to ASTM A-153 standard
- Galvanized products meet California Lead Plumbing Law Specifications
- Threaded ends meet with ANSI/ASME B1.20.1 standard
- Material meets with ASTM A-197 standard
- Dimensions meet the following:
  - Unions – with ASME B16.39 standard



### Galv MI Threaded 150# Ground Joint All Iron Union

Part #	Mfg #	Size
UNN00980	511-700	1/8"
UNN00981	511-701	1/4"
UNN00982	511-702	3/8"
UNN00983	511-703	1/2"
UNN00984	511-704	3/4"
UNN00985	511-705	1"
UNN00986	511-706	1-1/4"
UNN00987	511-707	1-1/2"
UNN00988	511-708	2"
UNN00989	511-709	2-1/2"
UNN00990	511-710	3"
UNN00991	511-711	4"



# Brass Fittings

## Brass Flare Fittings

- Maximum working pressure (PS): 700 psig, 48 bar
- All threads meet ASME/ANSI B1.20.1 standards
- Meets ASTM B-687 standards

### Brass Flare Union (Flare)



Part #	Mfg #	Size
UNN00845	A 04733	3/4"

### Brass Flare Internal Flare to External Flare Union (Int Flr x Ext Flr)

- (1) Soft copper gasket furnished with each



Part #	Mfg #	Size
UNN00977	A 00481	1/2" x 3/8"
UNN00847	A 04770	5/8" x 1/2"

### Brass Flare Half-Union (Flr x FPT)



Part #	Mfg #	Size
UNN00846	A 04739	3/4" x 1/2"

## Brass Standard Fittings

- All threads meet ASME/ANSI B1.20.1 standards
- Meets ASTM B-687 standards



### Brass Threaded Hex Bushing

Part #	Mfg #	Size
BUS01779	455-010	1/4" x 1/8"
BUS01771	455-031	1/2" x 1/4"
BUS01780	455-043	3/4" x 1/2"

## Red Brass Threaded 90° Elbow



Part #	Mfg #	Size
ELL01114	450-001	1/4"
ELL01104	450-002	3/8"
ELL01105	450-003	1/2"
ELL01103	450-004	3/4"

## Red Brass Threaded Tee



Part #	Mfg #	Size
TEE00993	453-001	1/4"
TEE00994	453-003	1/2"
TEE00995	453-004	3/4"

## Brass Tube Fittings

- SAE 45° Flared tube fittings may be used with copper, brass, aluminum, steel and plastic tube provided an acceptable flare could be generated with the material
- Vacuum and pressure of 5,000 psi can be handled depending upon the size, material and conditions - using a 4:1 safety factor, the following general rule (excluding plastic tube) is used:
  - 3,000 psi to 1/4"
  - 2,000 psi to 1/2"
  - 1,500 psi to 1"
- Good vibration resistance (improved by using long nuts)
- Fittings generally comply with SAE, ASA, ASME and MS standards
- Made in USA



### Fiber Drum Adapter Seal Gasket

Part #	Mfg #	Size
K1-E	K1-E	3/4"

### Refrigerant Drum Adapter (NPS Cylinder x MFir)

- Furnished with fiber gasket



Part #	Mfg #	Size
K1-3	K1-3	3/4" x 3/8"
K1-5	K1-5	3/4" x 1/2"
K1-8	K1-8	1/2" x 1/4"

### Short Forged Refrigeration Nut



Part #	Mfg #	Size
NS4-4	NS4-4	1/4"
NS4-6	NS4-6	3/8"
NS4-8	NS4-8	1/2"
NS4-10	NS4-10	5/8"

# Brass Fittings

## Flare Cap



Part #	Mfg #	Size
N5-4	N5-4	1/4"
N5-6	N5-6	3/8"

## Pipe Adapter (Flr x MPT)



Part #	Mfg #	Size
U1-4B	U1-4B	1/4" x 1/4"

## Union (Flare)



Part #	Mfg #	Size
U2-4	U2-4	1/4"
U2-6	U2-6	3/8"
U2-8	U2-8	1/2"
U2-10	U2-10	5/8"

## Adapter (Flr x FPT)



Part #	Mfg #	Size
U3-4A	U3-4A	1/4" x 1/8"
U3-4B	U3-4B	1/4" x 1/4"
U3-4C	U3-4C	1/4" x 3/8"
U3-6D	U3-6D	3/8" x 1/2"

## Adapter (FFlr x Flr)

- Furnished with copper gasket



Part #	Mfg #	Size
UR3-46	UR3-46	1/4" x 3/8"
UR3-64	UR3-64	3/8" x 1/4"
UR3-68	UR3-68	3/8" x 1/2"
UR3-84	UR3-84	1/2" x 1/4"
UR3-86	UR3-86	1/2" x 3/8"

## Forged Brass Pipe Fittings

- Forged brass pipe fittings are manufactured from CA 377 alloy and are threaded to Dryseal Taper Pipe Standards
- Forgings can be used on vacuums to pressures of 5,000 psi depending on size, material and conditioners
- Good vibration resistance (improved by using long nuts)
- Fittings generally comply with SAE, ASA, ASME and MS standards
- Made in USA

## Swivel Adapter (FFlr x Sldr)



Part #	Mfg #	Size
US5-44	US5-44	1/4" x 1/4"
US5-66	US5-66	3/8" x 3/8"
US5-88	US5-88	1/2" x 1/2"
US5-1010	US5-1010	5/8" x 5/8"

## Brass Coupling (FPT x Swt) (PC)



Part #	Mfg #	Size
103-B	103-B	1/4"
103-C	103-C	3/8"
103-D	103-C	1/2"

## Brass Hex Bushing (R1)



Part #	Mfg #	Size
110-BA	110-BA	1/4" x 1/8"
110-CB	110-CB	3/8" x 1/4"
110-DC	110-DC	1/2" x 3/8"



# Brass Fittings

## Brass Close Nipple



Part #	Mfg #	Size
112-A	112-A	1/8"
112-B	112-B	1/4"
112-C	112-C	3/8"

## Brass Long Nipple



Part #	Mfg #	Size
113-B2	113-B2	1/4" x 2"
113-D2	113-D2	1/2" x 2"

## Compression Break-Off Sleeve (Pilot) Nut



Part #	Mfg #	Size
81LB-4	81LB-4	1/4"

## ProLine® Series Flow Lock Hose Bibbs

- Heavy-duty non-rusting material
- Includes (2) keys



### Flow Lock Hose Bibb (MPT x FPT)

Part #	Mfg #	Size
VAL09099	103-054HC	3/4"

## ProLine® 7701G Series Forged Brass Gas Ball Valves

- 1-Piece forged brass body
- Maximum pressure: 200 psi
- Temperature range: -20° to 300°F
- Coated aluminum handle
- Multi-directional flow
- Chrome-plated brass ball
- CSA ANSI Z21.15 (1/2 psi)
- ANSI/ASME B16.44 (5G)
- Threaded flare ends comply with SAE J513
- Threaded ends comply with ANSI B1.20.1



### 7701GFL 1-Piece Lever Handle Gas Ball Valve (Flare)

- 1/4-Turn lever handle

Part #	Mfg #	Size
VAL09096	116-502	3/8"

## ProLine® Series 7710 Forged Brass Gas Ball Valves

- Maximum pressure: 600 psi WOG/150 psi WSP
- Temperature range: -20° to 300°F
- Packing Gland with blowout-proof stem design
- PTFE seat and packing
- Frost-proof stainless steel ball design
- Rust-resistant heavy-duty handle with vinyl grip
- CSA Certified
- CSA tamper-proof (T)
- UL Listed
- FM Approved Fire Protection
- Conforms to MSS-SP-110
- Meets Fed Spec WW-V-35, Type II, Class A 3
- Solder ends comply with ANSI B16.18
- Certified to NSF 61



### Series 7710S Full Port Ball Valve (Sweat)

Part #	Mfg #	Size
VAL09098	107-504	3/4"



# Copper Fittings

## Copper Wrot Pressure Fittings

- UL Recognized to 700 PSI (select diameters)
- Constructed of high-grade copper
- Made to applicable ASME standards B16.15, B16.18, B16.22, B16.24, B16.50, B1.20.1
- Wrot fittings meet NSF 61G



## Copper Wrot Female Adapter (C x FPT)



Part #	Mfg #	Nom Size	OD x Nom Size
ADP00922	W 01206	1/8" x 1/4"	1/4" x 1/4"
ADP00303	W 01224	3/8" x 1/2"	1/2" x 1/2"
ADP01166	W 01223	3/8" x 3/4"	1/2" x 3/4"
ADP00923	W 01233	1/2" x 1/4"	5/8" x 1/4"
ADP00937	W 01231	1/2"	5/8" x 1/2"
ADP01010	W 01230	1/2" x 3/4"	5/8" x 3/4"
ADP00378	W 01239	5/8" x 1/2"	3/4" x 1/2"
ADP01012	W 01238	5/8" x 3/4"	3/4" x 3/4"
ADP00322	W 01246	3/4"	7/8" x 3/4"
ADP00430	W 01245	3/4" x 1"	7/8" x 1"
ADP00426	W 01263	1"	1-1/8" x 1"
ADP00931	W 01261	1" x 1-1/4"	1-1/8" x 1-1/4"
ADP01063	W 01271	1-1/4"	1-3/8" x 1-1/4"
ADP00936	W 01280	1-1/2" x 1-1/4"	1-5/8" x 1-1/4"
ADP00428	W 01287	2"	2-1/8" x 2"
ADP00906	W 01296	2-1/2"	2-5/8" x 2-1/2"

## Copper Wrot Street Female Adapter (Ftg x FPT)



Part #	Mfg #	Nom Size	OD x Nom Size
ADP01033	W 01514	1/4" x 3/8"	3/8" x 3/8"
ADP01167	W 01531	1/2"	5/8" x 1/2"
ADP01065	W 01546	3/4"	7/8" x 3/4"
ADP01098	W 01563	1"	1-1/8" x 1"

## Copper Wrot Adapter (C x MPT)



Part #	Mfg #	Nom Size	OD x Nom Size
ADP00924	W 01106	1/8" x 1/4"	1/4" x 1/4"
ADP00907	W 01115	1/4"	3/8" x 1/4"
ADP00930	W 01114	1/4" x 3/8"	3/8" x 3/8"
ADP01165	W 01113	1/4" x 1/2"	3/8" x 1/2"
ADP01013	W 01125	3/8"	1/2" x 3/8"

## Copper Wrot Pressure Fittings (Continued)

### Copper Wrot Adapter (C x MPT)

Part #	Mfg #	Nom Size	OD x Nom Size
ADP00066	W 01124	3/8" x 1/2"	1/2" x 1/2"
ADP01054	W 01123	3/8" x 3/4"	1/2" x 3/4"
ADP01011	W 01132	1/2" x 3/8"	5/8" x 3/8"
ADP00383	W 01131	1/2"	5/8" x 1/2"
ADP01009	W 01130	1/2" x 3/4"	5/8" x 3/4"
ADP01058	W 01129	1/2" x 1"	5/8" x 1"
ADP01060	W 01147	3/4" x 1/2"	7/8" x 1/2"
ADP00005	W 01146	3/4"	7/8" x 3/4"
ADP01075	W 01165	1" x 1/2"	1-1/8" x 1/2"
ADP00927	W 01164	1" x 3/4"	1-1/8" x 3/4"
ADP00002	W 01163	1"	1-1/8" x 1"
ADP00925	W 01162	1" x 1-1/4"	1-1/8" x 1-1/4"
ADP01062	W 01161	1" x 1-1/2"	1-1/8" x 1-1/2"
ADP01077	W 01173	1-1/4" x 3/4"	1-3/8" x 3/4"
ADP01076	W 01172	1-1/4" x 1"	1-3/8" x 1"
ADP00272	W 01171	1-1/4"	1-3/8" x 1-1/4"
ADP01068	W 01181	1-1/2" x 1"	1-5/8" x 1"
ADP01066	W 01180	1-1/2" x 1-1/4"	1-5/8" x 1-1/4"
ADP01067	W 01179	1-1/2"	1-5/8" x 1-1/2"
ADP01055	W 01189	2" x 1-1/4"	2-1/8" x 1-1/4"
ADP01095	W 01188	2" x 1-1/2"	2-1/8" x 1-1/2"
ADP00908	W 01187	2"	2-1/8" x 2"
ADP01014	W 01196	2-1/2"	2-5/8" x 2-1/2"

### Copper Wrot Street Male Adapter (Ftg x MPT)



Part #	Mfg #	Nom Size	OD x Nom Size
ADP00349	W 01425	3/8"	1/2" x 3/8"
ADP00353	W 01496	2-1/2"	2-5/8" x 2"

### Copper Wrot Flush Bushing (Ftg x C)



Part #	Mfg #	Nom Size	OD Size
FTG00159	W 01706	1/4" x 1/8"	3/8" x 1/4"
BUS01789	W 01714	3/8" x 1/8"	1/2" x 1/4"
BUS00978	W 01712	3/8" x 1/4"	1/2" x 3/8"
BUS00979	W 01717	1/2" x 1/4"	5/8" x 3/8"
BUS00051	W 01715	1/2" x 3/8"	5/8" x 1/2"
BUS01791	W 01722	5/8" x 1/4"	3/4" x 3/8"

# Copper Fittings

## Copper Wrot Pressure Fittings (Continued)

### Copper Wrot Flush Bushing (Ftg x C)

Part #	Mfg #	Nom Size	OD Size
BUS01790	W 01721	5/8" x 3/8"	3/4" x 1/2"
BUS00980	W 01720	5/8" x 1/2"	3/4" x 5/8"
BUS01378	W 01727	3/4" x 3/8"	7/8" x 1/2"
BUS00448	W 01726	3/4" x 1/2"	7/8" x 5/8"
BUS00981	W 01725	3/4" x 5/8"	7/8" x 3/4"
BUS00983	W 01739	1" x 1/2"	1-1/8" x 5/8"
BUS01379	W 01738	1" x 5/8"	1-1/8" x 3/4"
BUS00982	W 01737	1" x 3/4"	1-1/8" x 7/8"
BUS01353	W 01745	1-1/4" x 3/4"	1-3/8" x 7/8"
BUS00984	W 01743	1-1/4" x 1"	1-3/8" x 1-1/8"
BUS00985	W 01750	1-1/2" x 1-1/4"	1-5/8" x 1-3/8"
BUS00986	W 01758	2" x 1-1/2"	2-1/8" x 1-5/8"

### Copper Wrot Tube Cap (Copper)



Part #	Mfg #	Nom Size	OD Size
CAP00131	W 07004	1/4"	3/8"
CAP00861	W 07006	3/8"	1/2"
CAP00285	W 07007	1/2"	5/8"
CAP00862	W 07008	5/8"	3/4"
CAP00863	W 07009	3/4"	7/8"
CAP00010	W 07011	1"	1-1/8"
CAP00441	W 07012	1-1/4"	1-3/8"
CAP00877	W 07013	1-1/2"	1-5/8"
CAP00416	W 07015	2-1/2"	2-5/8"

### Copper Wrot Coupling with Rolled Stops (Copper)



Part #	Mfg #	Nom Size	OD Size
CPL00875	W 01003	1/8"	1/4"
CPL00936	W 01000	-	1/8"
CPL00874	W 01001	1/16"	3/16"
CPL00877	W 01009	1/4"	3/8"
CPL00880	W 01017	3/8"	1/2"
CPL00881	W 01022	1/2"	5/8"
CPL00882	W 01028	5/8"	3/4"
CPL00923	W 01034	3/4"	7/8"
CPL00892	W 01047	1"	1-1/8"
CPL00034	W 01055	1-1/4"	1-3/8"
CPL00884	W 01062	1-3/8"	1-1/2"

## Copper Wrot Pressure Fittings (Continued)

### Copper Wrot Coupling with Rolled Stops (Copper)

Part #	Mfg #	Nom Size	OD Size
CPL00885	W 01063	1-1/2"	1-5/8"
CPL00009	W 01072	2"	2-1/8"
CPL00888	W 01082	2-1/2"	2-5/8"
CPL00890	W 01092	3"	3-1/8"
CPL01003	W 10100	3-1/2"	3-5/8"
CPL01017	W 10107	4"	4-1/8"

### Copper Wrot Coupling with Dimpled Stops (Copper)



Part #	Mfg #	Nom Size	OD Size
CPL00992	W 10141	1/8"	1/4"
CPL00910	W 10143	1/4"	3/8"
CPL00879	W 10142	3/16"	5/16"
CPL00993	W 10144	3/8"	1/2"
CPL00911	W 10145	1/2"	5/8"
CPL00994	W 10157	5/8"	3/4"
CPL00931	W 10146	3/4"	7/8"
CPL00033	W 10147	1"	1-1/8"
CPL00912	W 10148	1-1/4"	1-3/8"
CPL00913	W 10149	1-1/2"	1-5/8"
CPL01010	W 10150	2"	2-1/8"
CPL00343	W 10151	2-1/2"	2-5/8"
CPL01004	W 10153	3-1/2"	3-5/8"

### Copper Wrot Coupling less Stops (Copper)



Part #	Mfg #	Nom Size	OD Size
CPL00133	W 01900	1/8"	1/4"
CPL00897	W 01901	1/4"	3/8"
CPL00898	W 01902	3/8"	1/2"
CPL00812	W 01903	1/2"	5/8"
CPL00899	W 01904	5/8"	3/4"
CPL00008	W 01905	3/4"	7/8"
CPL00473	W 01906	1"	1-1/8"
CPL00900	W 01907	1-1/4"	1-3/8"
CPL00471	W 01908	1-1/2"	1-5/8"
CPL00901	W 01909	2"	2-1/8"
CPL00229	W 01910	2-1/2"	2-5/8"
CPL00914	W 01911	3"	3-1/8"

# Copper Fittings

## Copper Wrot Reducing Coupling (Copper)



Part #	Mfg #	Nom Size	OD Size
CPL00876	W 01004	1/8" x 1/4"	1/4" x 3/16"
CPL00981	W 01005	1/4"	1/4" x 1/8"
CPL00878	W 01010	1/4" x 3/16"	3/8" x 5/16"
FTG00170	W 01011	1/4" x 1/8"	3/8" x 1/4"
CPL00902	W 01021	3/8" x 1/8"	1/2" x 1/4"
CPL00355	W 01019	3/8" x 1/4"	1/2" x 3/8"
CPL00478	W 01025	1/2" x 1/4"	5/8" x 3/8"
CPL00376	W 01023	1/2" x 3/8"	5/8" x 1/2"
CPL00905	W 01031	5/8" x 1/4"	3/4" x 3/8"
CPL00461	W 01030	5/8" x 3/8"	3/4" x 1/2"
CPL00883	W 01029	5/8" x 1/2"	3/4" x 5/8"
CPL00962	W 01038	3/4" x 1/4"	7/8" x 3/8"
CPL00230	W 01037	3/4" x 3/8"	7/8" x 1/2"
CPL00307	W 01036	3/4" x 1/2"	7/8" x 5/8"
CPL00354	W 01035	3/4" x 5/8"	7/8" x 3/4"
CPL00903	W 01052	1" x 3/8"	1-1/8" x 1/2"
CPL00350	W 01050	1" x 5/8"	1-1/8" x 3/4"
BUS00225	W 01049	1" x 3/4"	1-1/8" x 7/8"
CPL00907	W 01060	1-1/4" x 1/2"	1-3/8" x 5/8"
CPL00906	W 01058	1-1/4" x 3/4"	1-3/8" x 7/8"
CPL00308	W 01056	1-1/4" x 1"	1-3/8" x 1-1/8"
CPL00908	W 01067	1-1/2" x 3/4"	1-5/8" x 7/8"
CPL00886	W 01065	1-1/2" x 1"	1-5/8" x 1-1/8"
CPL00356	W 01064	1-1/2" x 1-1/4"	1-5/8" x 1-3/8"
CPL00904	W 01075	2" x 1"	2-1/8" x 1-1/8"
CPL00887	W 01074	2" x 1-1/4"	2-1/8" x 1-3/8"
FTG00166	W 01073	2" x 1-1/2"	2-1/8" x 1-5/8"
CPL00889	W 01084	2-1/2" x 1-1/2"	2-5/8" x 1-5/8"
ADP00460	W 01083	2-1/2" x 2"	2-5/8" x 2-1/8"
CPL00891	W 01094	3" x 2"	3-1/8" x 2-1/8"
FTG00167	W 01093	3" x 2-1/2"	3-1/8" x 2-5/8"
CPL01001	W 10109	4" x 3"	4-1/8" x 3-1/8"

## Copper Wrot 45° Elbow (Copper)



Part #	Mfg #	Nom Size	OD Size
ELL00141	W 03005	1/8"	1/4"
ELL00893	W 03012	1/4"	3/8"
ELL00933	W 03021	3/8"	1/2"
ELL00895	W 03026	1/2"	5/8"
ELL00896	W 03030	5/8"	3/4"
ELL00897	W 03034	3/4"	7/8"
ELL00898	W 03044	1"	1-1/8"
ELL00899	W 03050	1-1/4"	1-3/8"
ELL00900	W 03055	1-1/2"	1-5/8"
ELL00901	W 03059	2"	2-1/8"
ELL00902	W 03063	2-1/2"	2-5/8"
ELL00972	W 03070	3-1/2"	3-3/8"
ELL00975	W 03073	4"	4-1/8"

## Copper Wrot 45° Street Elbow (Ftg x C)



Part #	Mfg #	Nom Size	OD Size
ELL00903	W 03312	1/4"	3/8"
ELL00904	W 03321	3/8"	1/2"
ELL00327	W 03326	1/2"	5/8"
ELL00906	W 03330	5/8"	3/4"
ELL00907	W 03334	3/4"	7/8"
ELL00908	W 03344	1"	1-1/8"
ELL00909	W 03350	1-1/4"	1-3/8"
ELL00910	W 03355	1-1/2"	1-5/8"
ELL00911	W 03359	2"	2-1/8"
ELL00912	W 03363	2-1/2"	2-5/8"
ELL00913	W 03368	3"	3-1/8"



# Copper Fittings

## Copper Wrot 90° Close Rough Elbow (Copper)



Part #	Mfg #	Nom Size	OD Size
ELL00235	W 02003	1/8"	1/4"
ELL00101	W 02009	1/4"	3/8"
ELL00114	W 02017	3/8"	1/2"
ELL00109	W 01622	1/2"	5/8"
ELL00986	W 01622	1/2"	5/8"
ELL00094	W 02028	5/8"	3/4"
ELL00984	W 01634	3/4"	7/8"
ELL00111	W 02034	7/8"	1"
ELL00996	W 02050	1" x 5/8"	1-1/8" x 3/4"
ELL00987	W 01647	1"	1-1/8"
ELL00875	W 02040	1"	1-1/8"
ELL00115	W 02047	1-1/8"	1-1/4"
ELL00932	W 02054	1-1/4"	1-3/4"
ELL00877	W 02084	1-1/4"	1-3/8"
ELL00203	W 02085	1-1/2"	1-5/8"
ELL00325	W 02086	2"	2-1/8"
ELL00878	W 02087	2-1/2"	2-5/8"
ELL00918	W 02088	3"	3-1/8"

## Copper Wrot 90° Close Rough Street Elbow (Ftg x C)



Part #	Mfg #	Nom Size	OD Size
ELL00920	W 02305	1/8"	1/4"
ELL00921	W 02312	1/4"	3/8"
ELL00100	W 02321	3/8"	1/2"
ELL00922	W 02326	5/8"	3/4"
ELL00217	W 02330	5/8"	3/4"
ELL00985	W 01654	3/4"	7/8"
ELL00286	W 02334	7/8"	1"
ELL00238	W 02344	1"	1-1/8"
ELL00244	W 02384	1-1/4"	1-3/8"
ELL00212	W 02385	1-1/2"	1-5/8"
ELL00206	W 02386	2"	2-1/8"
ELL00317	W 02387	2-1/2"	2-5/8"
ELL00290	W 02388	3"	3-1/8"

## Copper Wrot 90° Close Rough Elbow (Fitting)



Part #	Mfg #	Nom Size	OD Size
ELL01024	W 02685	1-1/2"	1-5/8"
ELL01128	W 02688	3"	3-1/8"

## Copper Wrot 90° Male Elbow (C x MPT)



Part #	Mfg #	Nom Size	OD x Nom Size
ADP00926	W 02131	1/2"	5/8" x 1/2"

## Copper Wrot 90° Long Radius Elbow (Copper)



Part #	Mfg #	Nom Size	OD Size
ELL00951	W 02701	1/16"	3/16"
ELL00882	W 02715	1/8"	1/4"
ELL00883	W 02716	1/4"	3/8"
ELL00881	W 02710	3/16"	5/16"
ELL00046	W 02717	3/8"	1/2"
ELL00884	W 02722	1/2"	5/8"
ELL00885	W 02728	5/8"	3/4"
ELL00016	W 02734	3/4"	7/8"
ELL00019	W 02747	1"	1-1/8"
ELL00018	W 02055	1-1/4"	1-3/8"
ELL00050	W 02063	1-1/2"	1-5/8"
ELL00010	W 02072	2"	2-1/8"
ELL00349	W 02082	2-1/2"	2-5/8"
ELL00919	W 02092	3"	3-1/8"
ELL00925	W 02093	3-1/2"	3-5/8"
ELL00974	W 02095	4"	4-1/8"

# Copper Fittings

## Copper Wrot 90° Long Radius Elbow (Ftg x C)



Part #	Mfg #	Nom Size	OD Size
ELL00886	W 02809	1/4"	3/8"
ELL00215	W 02817	3/8"	1/2"
ELL00888	W 02822	1/2"	5/8"
ELL00889	W 02828	5/8"	3/4"
ELL00890	W 02834	3/4"	7/8"
ELL00891	W 02847	1"	1-1/8"
ELL00879	W 02350	1-1/4"	1-3/8"
ELL00205	W 02355	1-1/2"	1-5/8"
ELL00207	W 02359	2"	2-1/8"
ELL00880	W 02363	2-1/2"	2-5/8"
ELL00936	W 02368	3"	3-1/8"

## Copper Wrot Return Bend (Copper)



Part #	Mfg #	Size
FTG00987	W 06020	1/4" x 1-1/2"
FTG00951	W 06032	3/8" x 1-1/2"
FTG00986	W 06025	3/8" x 4-1/2"

## Copper Wrot Fitting Reducer (Ftg x C)



Part #	Mfg #	Nom Size	OD Size
FTG00894	W 01302	1/8"	1/4" x 1/8"
FTG00842	W 01314	3/8" x 1/8"	1/2" x 1/4"
BUS00066	W 01312	3/8" x 1/4"	1/2" x 3/8"
FTG00843	W 01317	1/2" x 1/4"	5/8" x 3/8"
FTG00003	W 01315	1/2" x 3/8"	5/8" x 1/2"
FTG00845	W 01322	5/8" x 1/4"	3/4" x 3/8"
CPL00369	W 01321	5/8" x 3/8"	3/4" x 1/2"
FTG00844	W 01320	5/8" x 1/2"	3/4" x 5/8"
FTG00847	W 01327	3/4" x 3/8"	7/8" x 1/2"
FTG00846	W 01326	3/4" x 1/2"	7/8" x 5/8"
BUS00484	W 01325	3/4" x 5/8"	7/8" x 3/4"
FTG00859	W 01340	1" x 3/8"	1-1/8" x 1/2"
FTG00858	W 01339	1" x 1/2"	1-1/8" x 5/8"
FTG00857	W 01338	1" x 5/8"	1-1/8" x 3/4"
BUS00352	W 01337	1" x 3/4"	1-1/8" x 7/8"
FTG00862	W 01347	1-1/4" x 1/2"	1-3/8" x 5/8"
BUS00002	W 01345	1-1/4" x 3/4"	1-3/8" x 7/8"
CPL00027	W 01343	1-1/4" x 1"	1-3/8" x 1-1/8"
FTG00863	W 01355	1-1/2" x 1/2"	1-5/8" x 5/8"
FTG00860	W 01353	1-1/2" x 3/4"	1-5/8" x 7/8"
BUS00015	W 01351	1-1/2" x 1"	1-5/8" x 1-1/8"
BUS00004	W 01350	1-1/2" x 1-1/4"	1-5/8" x 1-3/8"
FTG00971	W 01364	2" x 1/2"	2-1/8" x 5/8"
FTG00861	W 01360	2" x 1"	2-1/8" x 1-1/8"
FTG00848	W 01359	2" x 1-1/4"	2-1/8" x 1-3/8"
BUS00014	W 01358	2" x 1-1/2"	2-1/8" x 1-5/8"
FTG00972	W 01370	2-1/2" x 1"	2-5/8" x 1-1/8"
CPL01120	W 01369	2-1/2" x 1-1/4"	2-5/8" x 1-3/8"
FTG00850	W 01368	2-1/2" x 1-1/2"	2-5/8" x 1-5/8"
FTG00849	W 01367	2-1/2" x 2"	2-5/8" x 2-1/8"
FTG01146	W 01377	3" x 2"	3-1/8" x 2-1/8"
BUS00011	W 01376	3" x 2-1/2"	3-1/8" x 2-5/8"
FTG01013	W 01387	4" x 3"	4-1/8" x 3-1/8"



# Copper Fittings

## Copper Wrot Tee (Copper)



Part #	Mfg #	Nom Size	OD Size
TEE00063	W 40306	1/8"	1/4"
TEE00033	W 04000	1/4"	3/8"
TEE00841	W 40332	1/4" x 1/8" x 1/8"	3/8" x 1/4" x 1/4"
TEE00922	W 40313	3/16"	5/16"
TEE00143	W 04001	3/8"	1/2"
TEE00035	W 40350	3/8" x 1/8"	1/2" x 1/4"
TEE00944	W 04029	1/2" x 5/8"	5/8" x 1/2"
TEE00140	W 04017	5/8"	3/4"
TEE00181	W 04006	1/2"	5/8"
TEE01005	W 04020	5/8" x 1/4"	3/4" x 3/8"
TEE00081	W 04031	3/4"	7/8"
TEE00898	W 40232	3/4" x 3/8" x 3/8"	7/8" x 1/2" x 1/2"
TEE00899	W 04034	3/4" x 3/8"	7/8" x 1/2"
TEE00102	W 04048	1"	1-1/8"
TEE00910	W 04062	1" x 1/2" x 3/4"	1-1/8" x 5/8" x 7/8"
TEE01007	W 04061	1" x 1/2" x 1"	1-1/8" x 5/8" x 1-1/8"
TEE00889	W 04058	1" x 3/4" x 1/2"	1-1/8" x 7/8" x 5/8"
TEE00886	W 04056	1" x 3/4" x 3/4"	1-1/8" x 7/8" x 7/8"
TEE00151	W 04055	1" x 3/4" x 1"	1-1/8" x 7/8" x 1-1/8"
TEE00888	W 04052	1" x 3/8"	1-1/8" x 1/2"
TEE00935	W 04051	1" x 1/2"	1-1/8" x 5/8"
TEE00911	W 04049	1" x 3/4"	1-1/8" x 7/8"
TEE00887	W 04082	1" x 1-1/4"	1-1/8" x 1-3/8"
TEE00956	W 04083	1-1/4" x 1/2" x 1-1/4"	1-3/8" x 5/8" x 1-3/8"
TEE00152	W 04078	1-1/4" x 3/4" x 1-1/4"	1-3/8" x 7/8" x 1-3/8"
TEE00228	W 04075	1-1/4" x 1" x 3/4"	1-3/8" x 1-1/8" x 7/8"
TEE00150	W 04074	1-1/4" x 1" x 1"	1-3/8" x 1-1/8" x 1-1/8"
TEE00895	W 04073	1-1/4" x 1" x 1-1/4"	1-3/8" x 1-1/8" x 1-3/8"
TEE01008	W 04072	1-1/4" x 3/8"	1-3/8" x 1/2"
TEE00933	W 04071	1-1/4" x 1/2"	1-3/8" x 5/8"
TEE00915	W 04070	1-1/4" x 3/4"	1-3/8" x 7/8"
TEE00127	W 04068	1-1/4"	1-3/8"
TEE00919	W 40122	1-1/4" x 2"	1-3/8" x 2-1/8"
TEE00845	W 04084	1-1/2"	1-5/8"
TEE00897	W 04097	1-1/2" x 1" x 1"	1-5/8" x 1-1/8" x 1-1/8"
TEE00243	W 04096	1-1/2" x 1" x 1-1/4"	1-5/8" x 1-1/8" x 1-3/8"
TEE00909	W 04095	1-1/2" x 1" x 1-1/2"	1-5/8" x 1-1/8" x 1-5/8"
TEE00921	W 04093	1-1/2" x 1-1/4" x 3/4"	1-5/8" x 1-3/8" x 7/8"
TEE00885	W 04091	1-1/2" x 1-1/4" x 1-1/4"	1-5/8" x 1-3/8" x 1-3/8"
TEE00144	W 04090	1-1/2" x 1-1/4" x 1-1/2"	1-5/8" x 1-3/8" x 1-5/8"

## Copper Wrot Pressure Fittings (Continued)

### Copper Wrot Tee (Copper)

Part #	Mfg #	Nom Size	OD Size
TEE00942	W 04088	1-1/2" x 1/2"	1-5/8" x 5/8"
TEE00934	W 04087	1-1/2" x 3/4"	1-5/8" x 7/8"
TEE00206	W 40102	2"	2-1/8"
TEE00901	W 40117	2" x 1-1/4" x 1-1/4"	2-1/8" x 1-3/8" x 1-3/8"
TEE01380	W 40115	2" x 1-1/4" x 2"	2-1/8" x 1-3/8" x 2-1/8"
TEE00890	W 40111	2" x 1-1/2" x 1-1/4"	2-1/8" x 1-5/8" x 1-3/8"
TEE00123	W 40110	2" x 1-1/2" x 1-1/2"	2-1/8" x 1-5/8" x 1-5/8"
TEE00891	W 40109	2" x 1-1/2" x 2"	2-1/8" x 1-5/8" x 2-1/8"
TEE00931	W 40108	2" x 3/8"	2-1/8" x 1/2"
TEE00936	W 40107	2" x 1/2"	2-1/8" x 5/8"
TEE00932	W 40106	2" x 3/4"	2-1/8" x 7/8"
TEE00937	W 40105	2" x 1"	2-1/8" x 1-1/8"
TEE00917	W 40103	2" x 1-1/2"	2-1/8" x 1-5/8"
TEE00920	W 40144	2" x 2-1/2"	2-1/8" x 2-5/8"
TEE00924	W 40123	2-1/2"	2-5/8"
TEE00904	W 40220	2-1/2" x 1-1/4" x 2-1/2"	2-5/8" x 1-3/8" x 2-5/8"
TEE00892	W 40139	2-1/2" x 1-1/2" x 1-1/2"	2-5/8" x 1-3/8" x 1-5/8"
TEE00918	W 40137	2-1/2" x 1-1/2" x 2-1/2"	2-5/8" x 1-5/8" x 2-5/8"
TEE01381	W 40133	2-1/2" x 2" x 1-1/4"	2-5/8" x 2-1/8" x 1-3/8"
TEE00912	W 40132	2-1/2" x 2" x 1-1/2"	2-5/8" x 2-1/8" x 1-5/8"
TEE00893	W 40130	2-1/2" x 2" x 2-1/2"	2-5/8" x 2-1/8" x 2-5/8"
TEE01009	W 40127	2-1/2" x 1"	2-5/8" x 1-1/8"
TEE00916	W 40125	2-1/2" x 1-1/2"	2-5/8" x 1-5/8"
TEE01006	W 40152	3"	3-1/8"
TEE00907	W 40167	3" x 2" x 3"	3-1/8" x 2-1/8" x 3-1/8"
TEE00914	W 40156	3" x 2-1/2" x 1-1/2"	3-1/8" x 2-5/8" x 1-5/8"
TEE00906	W 40158	3" x 2-1/2" x 2-1/2"	3-1/8" x 2-5/8" x 2-5/8"
TEE00923	W 40159	3" x 2-1/2" x 3"	3-1/8" x 2-5/8" x 3-1/8"
TEE00872	W 40193	4" x 1"	4-1/8" x 1-1/8"

# Copper Fittings

## Copper Wrot Suction Line P-Trap (Copper)



Part #	Mfg #	Nom Size	OD Size
TRP00025	W 60999	1/2"	5/8"
TRP00026	W 61008	5/8"	3/4"
TRP00027	W 61000	3/4"	7/8"
TRP00028	W 61001	1"	1-1/8"
TRP00029	W 61002	1-1/4"	1-3/8"
TRP00030	W 61003	1-1/2"	1-5/8"
TRP00023	W 61009	2"	2-1/8"

## Copper Wrot 2-Hole Tube Strap



Part #	Mfg #	Size
SRP00899	A01203	1/4" OD
SRP00900	A02529	5/8" OD
SRP00909	A01467	3/4" OD
SRP00901	A02574	7/8" OD
SRP00902	A02614	1-1/8" OD

## Copper Wrot Perforated Copper Strap



Part #	Mfg #	Size
SRP00904	A01211	3/4" x 25' Roll

## Copper Wrot Union (Copper)



Part #	Mfg #	Nom Size	OD Size
UNN00868	W 08001	1/4"	3/8"
UNN00869	W 08002	3/8"	1/2"
CPL00397	W 08003	1/2"	5/8"
UNN00048	W 08004	3/4"	7/8"
FTG00874	W 08005	1"	1-1/8"





# PVC Fittings

## PVC DWV Fittings

- For use in non-pressurized drain, waste and vent sanitary systems
- Smooth, consistent interior walls provide for full flow and increased resistance to corrosion and scaling
- Superior resistance to chemicals and corrosion
- Uniform interior and exterior
- Made to applicable ASTM D2665, F1498, D331, D1784
- Meets NSF 14

### PVC DWV Coupling (Hub)



Part #	Mfg #	Size
CPL01374	05934	2"
CPL01375	05935	3"

### PVC DWV 90° Long Sweep Elbow (Hub)



Part #	Mfg #	Size
ELL01471	05872	2"
ELL01472	05873	3"

### PVC DWV 90° Long Turn Street Elbow (Spgt x H)



Part #	Mfg #	Size
ELL01473	06061	2"
ELL01474	06063	3"

### PVC DWV 45° Elbow (Hub)



Part #	Mfg #	Size
ELL01475	05886	2"
ELL01476	05887	3"

## PVC DWV 45° Street Elbow (Spgt x H)



Part #	Mfg #	Size
ELL01477	05891	2"
ELL01478	05892	3"

## PVC DWV Sanitary Tee (Hub)



Part #	Mfg #	Size
TEE01384	05753	2"
TEE01385	05754	3"

## PVC Sch 40 Fittings

- For use in cold-water pressure applications including potable water supply, irrigation and pool/spa
- Superior resistance to chemicals and corrosion
- Smooth inner walls provide for low pressure drops
- Made to applicable ASTM standards D2466, D1784, F1498
- Meets NSF 14 and 61G

### PVC Sch 40 Tee (Slip Socket)



Part #	Size
TEE01383	3/4"
TEE01382	1/2"

### PVC Sch 40 90° Elbow (Slip Socket)



Part #	Size
ELL01465	1/2"
ELL01466	3/4"

# PVC Fittings

## PVC Sch 40 90° Street Elbow (Spgt x S)



Part #	Size
ELL01467	1/2"
ELL01468	3/4"

## PVC Sch 40 45° Elbow (Slip Socket)



Part #	Size
ELL01469	1/2"
ELL01470	3/4"

## PVC Sch 40 Coupling (Slip Socket)

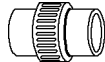


Part #	Size
CPL01372	1/2"
CPL01373	3/4"

## PVC Schedule 40 Unions

### PVC Sch 40 Union with Buna-N O-Ring Seal (Slip Socket)

- Pressure: 150 psi @ 73°F



Part #	Size
UNN00873	3/4"



# Steel Fittings

## Black Steel Standard Weight Threaded Nipples

- *NAFTA Approved*
- *Meets standards ASTM A-733, ASME/ANSI B1.20.1 and ASTM A-53*



### 1/2" Black Steel Standard Weight Nipple

Part #	Mfg #	Size
NIP00205	583-001	1/2" x Close
NIP00206	583-015	1/2" x 1-1/2"
NIP00202	583-020	1/2" x 2"
NIP00207	583-025	1/2" x 2-1/2"
NIP00286	583-030E	1/2" x 3"
NIP00208	583-035	1/2" x 3-1/2"
NIP00204	583-040	1/2" x 4"
NIP00209	583-045	1/2" x 4-1/2"
NIP00299	583-050	1/2" x 5"
NIP00211	583-055HND	1/2" x 5-1/2"
NIP00200	583-060	1/2" x 6"
NIP00212	583-070	1/2" x 7"
NIP00213	583-080	1/2" x 8"
NIP00291	583-090HND	1/2" x 9"
NIP00214	583-100HND	1/2" x 10"
NIP00292	583-110HC	1/2" x 11"
NIP00201	583-120	1/2" x 12"

### 3/4" Black Steel Standard Weight Nipple

Part #	Mfg #	Size
NIP00215	584-001	3/4" x Close
NIP00216	584-015	3/4" x 1-1/2"
NIP00217	584-020	3/4" x 2"
NIP00218	584-025	3/4" x 2-1/2"
NIP00219	584-030	3/4" x 3"
NIP00241	584-035	3/4" x 3-1/2"
NIP00221	584-040	3/4" x 4"
NIP00222	584-045HND	3/4" x 4-1/2"
NIP00223	584-050	3/4" x 5"
NIP00224	584-055HND	3/4" x 5-1/2"
NIP00242	584-060	3/4" x 6"
NIP00243	584-070HCD	3/4" x 7"
NIP00225	584-080HND	3/4" x 8"
NIP00293	584-090D	3/4" x 9"
NIP00226	584-100HND	3/4" x 10"
NIP00294	584-110HCD	3/4" x 11"
NIP00227	584-120HND	3/4" x 12"

## 1" Black Steel Standard Weight Nipple

Part #	Mfg #	Size
NIP00298	585-001	1" x Close
NIP00229	585-020	1" x 2"
NIP00230	585-025	1" x 2-1/2"
NIP00203	585-030	1" x 3"
NIP00232	585-035	1" x 3-1/2"
NIP00233	585-040	1" x 4"
NIP00234	585-045HND	1" x 4-1/2"
NIP00235	585-050D	1" x 5"
NIP00236	585-055D	1" x 5-1/2"
NIP00237	585-060D	1" x 6"
NIP00295	585-070HCD	1" x 7"
NIP00238	585-080HND	1" x 8"
NIP00296	585-090HCD	1" x 9"
NIP00239	585-100D	1" x 10"
NIP00297	585-110HC	1" x 11"
NIP00240	585-120HND	1" x 12"

## Black Steel Nipple Sets

### Special "Six" Black Steel Nipple Assortment

Part #	Mfg #	Size
NIP00261	583-000	1/2"



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# Brass Fittings

## Red Brass Nipples

- Made with Class 125lb red brass
- Meets ASTM B43-96 specifications
- All threads meet ASME/ANSI B1.20.1 standards
- Meets ASTM B-687 standards

### 1/8" Red Brass Nipple



Part #	Mfg #	Size
NIP00268	460-001	1/8" x Close
NIP00269	460-015	1/8" x 1-1/2"
NIP00270	460-020	1/8" x 2"
NIP00271	460-025	1/8" x 2-1/2"
NIP00272	460-030	1/8" x 3"
NIP00273	460-035	1/8" x 3-1/2"



# Line Sets

## Streamline® Standard Line Sets

- Integrated production processes eliminate kinking and work hardening associated with other line sets
- Insulation meets ASTM C-534 and UL 25-50 fire and smoke rating
- UL Recognized to 700 psi
- R-410A Engineered and tested
- Made in USA



## Line Set with 3/8" Insulation

Part #	Mfg #	Liquid Line	Suction Line	Length
KIT09397	41080300	1/4"	5/8"	30'
KIT09398	41080500	1/4"	5/8"	50'
KIT15105	51080250	5/16"	7/8"	25'
KIT09403	51080300	5/16"	7/8"	30'
KIT09404	51080500	5/16"	7/8"	50'
KIT09474	51280250	5/16"	3/4"	25'
KIT09399	51280300	5/16"	3/4"	30'
KIT15235	51280350	5/16"	3/4"	35'
KIT09400	51280500	5/16"	3/4"	50'
KIT16840	61080250	3/8"	5/8"	25'
KIT15137	61080300	3/8"	5/8"	30'
KIT15106	61080350	3/8"	5/8"	35'
KIT15138	61080400	3/8"	5/8"	40'
KIT09429	61080500	3/8"	5/8"	50'
KIT16872	61280200	3/8"	3/4"	20'
KIT09475	61280250	3/8"	3/4"	25'
KIT09405	61280300	3/8"	3/4"	30'
KIT16841	61280350	3/8"	3/4"	35'
KIT09514	61280400	3/8"	3/4"	40'
KIT09406	61280500	3/8"	3/4"	50'
KIT09476	61480250	3/8"	7/8"	25'
KIT09401	61480300	3/8"	7/8"	30'
KIT16842	61480350	3/8"	7/8"	35'
KIT12222	61480400	3/8"	7/8"	40'
KIT09402	61480500	3/8"	7/8"	50'
KIT13658	61880250	3/8"	1-1/8"	25'
KIT09407	61880300	3/8"	1-1/8"	30'
KIT09408	61880500	3/8"	1-1/8"	50'

## Line Set with 3/8" Insulation (Flare End)

Part #	Mfg #	Liquid Line	Suction Line	Length
KIT09362	61280300B3	3/8"	3/4"	30'

## Line Set with 3/8" Insulation & 90° Bends

Part #	Mfg #	Liquid Line	Suction Line	Length
KIT09294	40880151	1/4"	1/2"	15'
KIT09295	40880201	1/4"	1/2"	20'
KIT09296	40880251	1/4"	1/2"	25'
KIT09297	40880301	1/4"	1/2"	30'
KIT09298	40880401	1/4"	1/2"	40'
KIT09299	40880501	1/4"	1/2"	50'
KIT09292	41080151	1/4"	5/8"	15'
KIT09293	41080201	1/4"	5/8"	20'
KIT09262	41080251	1/4"	5/8"	25'
KIT09263	41080301	1/4"	5/8"	30'
KIT09286	41080351	1/4"	5/8"	35'
KIT09265	41080501	1/4"	5/8"	50'
KIT15208	41280301	1/4"	3/4"	30'
KIT15207	41280501	1/4"	3/4"	50'
KIT09300	51080151	5/16"	7/8"	15'
KIT09301	51080201	5/16"	7/8"	20'
KIT09302	51080251	5/16"	7/8"	25'
KIT09303	51080301	5/16"	7/8"	30'
KIT09619	51080351	5/16"	7/8"	35'
KIT09304	51080401	5/16"	7/8"	40'
KIT09278	51080501	5/16"	7/8"	50'
KIT09267	51280201	5/16"	3/4"	20'
KIT09268	51280251	5/16"	3/4"	25'
KIT09269	51280301	5/16"	3/4"	30'
KIT09290	51280351	5/16"	3/4"	35'
KIT09270	51280401	5/16"	3/4"	40'
KIT09271	51280501	5/16"	3/4"	50'
KIT15205	60880301	3/8"	1/2"	30'
KIT09440	61080251	3/8"	5/8"	25'
KIT14780	61080301	3/8"	5/8"	30'
KIT09287	61080351	3/8"	5/8"	35'
KIT09288	61080501	3/8"	5/8"	50'
KIT09305	61280201	3/8"	3/4"	20'
KIT09280	61280251	3/8"	3/4"	25'
KIT09281	61280301	3/8"	3/4"	30'
KIT09285	38343835	3/8"	3/4"	35'
KIT09306	61280401	3/8"	3/4"	40'

# Line Sets

## Streamline® Std Line Sets (Continued)

### Line Set with 3/8" Insulation & 90° Bends

Part #	Mfg #	Liquid Line	Suction Line	Length
KIT09282	61280501	3/8"	3/4"	50'
KIT09483	61280601	3/8"	3/4"	60'
KIT09273	61480201	3/8"	7/8"	20'
KIT09274	61480251	3/8"	7/8"	25'
KIT09275	61480301	3/8"	7/8"	30'
KIT09289	61480351	3/8"	7/8"	35'
KIT09276	61480401	3/8"	7/8"	40'
KIT09277	61480501	3/8"	7/8"	50'
KIT09482	61480601	3/8"	7/8"	60'
KIT12258	61880251	3/8"	1-1/8"	25'
KIT09283	61880301	3/8"	1-1/8"	30'
KIT09291	61880351	3/8"	1-1/8"	35'
KIT09409	61880401	3/8"	1-1/8"	40'
KIT09284	61880501	3/8"	1-1/8"	50'

### Line Set with 1/2" Insulation

Part #	Mfg #	Liquid Line	Suction Line	Length
KIT09601	41020350	1/4"	5/8"	35'
KIT15227	51020500	5/16"	5/8"	50'
KIT09611	51220350	5/16"	3/4"	35'
KIT09612	51220500	5/16"	3/4"	50'
KIT15056	60820500	5/16"	1-1/8"	50'
KIT09607	61020350	3/8"	5/8"	35'
KIT09608	61020500	3/8"	5/8"	50'
KIT09604	61220150	3/8"	3/4"	15'
KIT16870	61220250	3/8"	3/4"	25'
KIT16576	61220300	3/8"	3/4"	30'
KIT09605	61220350	3/8"	3/4"	35'
KIT09606	61220500	3/8"	3/4"	50'
KIT12367	61220600	3/8"	3/4"	60'
KIT16873	61420300	3/8"	7/8"	30'
KIT09609	61420350	3/8"	7/8"	35'
KIT09610	61420500	3/8"	7/8"	50'
KIT09602	61820350	3/8"	1-1/8"	35'
KIT09603	61820500	3/8"	1-1/8"	50'

### Line Set with 1/2" Insulation & 90° Bends

Part #	Mfg #	Liquid Line	Suction Line	Length
KIT02158	41020151	1/4"	5/8"	15'
KIT02159	41020201	1/4"	5/8"	20'
KIT15250	41020251	1/4"	5/8"	25'
KIT02161	41020301	1/4"	5/8"	30'
KIT02162	41020401	1/4"	5/8"	40'
KIT02163	41020501	1/4"	5/8"	50'
KIT15632	51020351	5/16"	5/8"	35'
KIT07599	51020501	5/16"	5/8"	50'
KIT02152	51220151	5/16"	3/4"	15'
KIT02153	51220201	5/16"	3/4"	20'
KIT02155	51220301	5/16"	3/4"	30'
KIT02156	51220401	5/16"	3/4"	40'
KIT02157	51220501	5/16"	3/4"	50'
KIT07603	61220301	3/8"	3/4"	30'
KIT16871	61220351	3/8"	3/4"	35'
KIT02164	61420151	3/8"	7/8"	15'
KIT02165	61420201	3/8"	7/8"	20'
KIT02166	61420251	3/8"	7/8"	25'
KIT02167	61420301	3/8"	7/8"	30'
KIT02168	61420401	3/8"	7/8"	40'
KIT02169	61420501	3/8"	7/8"	50'
KIT09591	61820501	3/8"	1-1/8"	50'

### Line Set with 3/4" Insulation

Part #	Mfg #	Liquid Line	Suction Line	Length
KIT12231	61230300	3/8"	3/4"	30'
KIT12232	61230400	3/8"	3/4"	40'
KIT09485	61230500	3/8"	3/4"	50'
KIT12233	61430300	3/8"	7/8"	30'
KIT12234	61430400	3/8"	7/8"	40'
KIT09570	61430500	3/8"	7/8"	50'
KIT12230	61830300	3/8"	1-1/8"	30'
KIT09486	61830500	3/8"	1-1/8"	50'



# Line Sets

## Streamline® Mini-Split Line Sets

### Line Set with 3/8" Insulation (Plain End)



Part #	Mfg #	Liquid Line	Suction Line	Length
KIT09338	40680150B6	1/4"	3/8"	15'
KIT09339	40680250B6	1/4"	3/8"	25'
KIT09335	40680350B6	1/4"	3/8"	35'
KIT09340	40680500B6	1/4"	3/8"	50'
KIT09341	40880250B6	1/4"	1/2"	25'
KIT09346	40880300B6	1/4"	1/2"	30'
KIT09336	40880350B6	1/4"	1/2"	35'
KIT09330	40880500B6	1/4"	1/2"	50'
KIT09331	41080150B6	1/4"	5/8"	15'
KIT09332	41080250B6	1/4"	5/8"	25'
KIT09328	41080500B6	1/4"	5/8"	50'
KIT09343	61080150B6	3/8"	5/8"	15'
KIT09344	61080250B6	3/8"	5/8"	25'
KIT09345	61080500B6	3/8"	5/8"	50'
KIT09439	61280250B6	3/8"	3/4"	25'
KIT09329	61280500B6	3/8"	3/4"	50'
KIT09365	61480500B6	3/8"	7/8"	50'

### Line Set with 3/8" Insulation (Flare End)

- Insulated liquid and suction lines
- Flare nuts, custom connections, insulation and assemblies
- Nitrogen and refrigerant-charged lines
- Resists mold and mildew
- R-410A Engineered and tested
- cUL Recognized
- 10-Year limited warranty
- Made in USA



Part #	Mfg #	Liquid Line	Suction Line	Length
KIT09312	40680150B3B6	1/4"	3/8"	15'
KIT15755	40680200B3B6	1/4"	3/8"	20'
KIT09313	40680250B3B6	1/4"	3/8"	25'
KIT09307	40680350B3B6	1/4"	3/8"	35'
KIT09314	40680500B3B6	1/4"	3/8"	50'
KIT16881	40880150B3B6	1/4"	1/2"	15'
KIT15773	40880200B3B6	1/4"	1/2"	20'
KIT09315	40880250B3B6	1/4"	1/2"	25'
KIT09308	40880350B3B6	1/4"	1/2"	35'
KIT09317	40880500B3B6	1/4"	1/2"	50'
KIT09318	41080150B3B6	1/4"	5/8"	15'
KIT09319	41080250B3B6	1/4"	5/8"	25'
KIT09620	41080350B3B6	1/4"	5/8"	35'
KIT09309	41080500B3B6	1/4"	5/8"	50'
KIT09310	41280500B3B6	1/4"	3/4"	50'
KIT09320	61080150B3B6	3/8"	5/8"	15'
KIT09321	61080250B3B6	3/8"	5/8"	25'
KIT09621	61080350B3B6	3/8"	5/8"	35'
KIT09322	61080500B3B6	3/8"	5/8"	50'
KIT09311	61280500B3B6	3/8"	3/4"	50'



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# Line Sets

## Line Set with 1/2" Insulation (Flare End)



Part #	Mfg #	Liquid Line	Suction Line	Length
KIT16423	40620250B3B6	1/4"	3/8"	25'
KIT16875	40620300B3B6	1/4"	3/8"	30'
KIT16424	40620350B3B6	1/4"	3/8"	35'
KIT15228	40620500B3B6	1/4"	3/8"	50'
KIT16425	40820250B3B6	1/4"	1/2"	25'
KIT16426	40820350B3B6	1/4"	1/2"	35'
KIT15229	40820500B3B6	1/4"	1/2"	50'
KIT16427	41020250B3B6	1/4"	5/8"	25'
KIT16428	41020350B3B6	1/4"	5/8"	35'
KIT15230	41020500B3B6	1/4"	5/8"	50'
KIT15818	61020150B3B6	3/8"	5/8"	15'
KIT15819	61020250B3B6	3/8"	5/8"	25'
KIT15820	61020350B3B6	3/8"	5/8"	35'
KIT15231	61020500B3B6	3/8"	5/8"	50'

## Line Set with 1/2" Dual Tube Insulation (Flare End)



Part #	Mfg #	Liquid Line	Suction Line	Length
KIT16877	40620500B3B8	1/4"	3/8"	50'

## Streamline® Mini-Split Line Sets with Power or Control Cable & Flare Fittings

- 14-4 Cable
- Stranded bare copper THHN conductors
- Sunlight-resistant
- RoHS Compliant, black PVC jacket
- 600V
- Increased flexibility
- Direct burial listed by UL
- Flare fittings:
  - Fabricated from brass forgings or drawn brass rod
  - Smooth interior finish provides unrestricted flow and pressure drop
  - R-410A Rated
- Insulation:
  - Closed-cell construction for thermal conductivity, preventing mold and mildew, and fire resistance
  - Energy efficient
  - 25/50 Rating
  - UL Listed



## Line Set with 1/2" Insulation

Part #	Mfg #	Liquid Line	Suction Line	Length
KIT16874	40620250M144	1/4"	3/8"	25'
KIT16878	40620500M144	1/4"	3/8"	50'
KIT16879	40820250M144	1/4"	1/2"	25'
KIT16880	40820500M144	1/4"	1/2"	50'
KIT16882	61020500M144	3/8"	5/8"	50'





# Line Sets

## Streamline® DuraGuard™ Line Sets

- Tear resistant outer layer
- UV Resistant
- Numbered every foot for easy measurement
- Mold and mildew resistant
- Increased condensation control
- Meets 25/50 flame and smoke rating per ASTM E84
- 10-Year warranty
- Made in USA



### DuraGuard™ Mini-Split Line Set with 1/2" Insulation (Plain End)

Part #	Mfg #	Liquid Line	Suction Line	Length
KIT16916	40670500B6	1/4"	3/8"	50'
KIT16917	40870500B6	1/4"	1/2"	50'
KIT16915	61070500B6	3/8"	5/8"	50'

### DuraGuard™ Line Set with 1/2" Insulation & Suction Line Only (Plain End)

Part #	Mfg #	Liquid Line	Suction Line	Length
KIT16922	00470500	-	1/4"	50'
KIT16923	00670500	-	3/8"	50'
KIT16924	00870500	-	1/2"	50'
KIT16925	01070500	-	5/8"	50'
KIT16926	01270820	-	3/4"	82'
KIT16927	01470820	-	7/8"	82'
KIT16928	00471640	-	1/4"	164'
KIT16929	00671640	-	3/8"	164'
KIT16930	00871640	-	1/2"	164'
KIT16931	01071640	-	5/8"	164'

## Refrigerant Lines



### White Pipe Pre-Insulated Refrigerant Line

- Polyethylene closed cell foam
- R-Value: 4.0 to 3.0



Part #	Mfg #	Liquid Line	Suction Line	Length
PIP02037	WP1214-50	1/4"	1/2"	50'
PIP02043	WP1214-164	1/4"	1/2"	164'
PIP02038	WP1238-50	3/8"	1/2"	50'
PIP02044	WP1238-164	3/8"	1/2"	164'
PIP02039	WP1212-50	1/2"	1/2"	50'
PIP02045	WP1212-164	1/2"	1/2"	164'
PIP02040	WP1258-50	5/8"	1/2"	50'
PIP02046	WP1258-164	5/8"	1/2"	164'
PIP02041	WP1234-50	3/4"	1/2"	50'
PIP02047	WP1234-82	3/4"	1/2"	82'
PIP02042	WP1278-50	7/8"	1/2"	50'
PIP02048	WP1278-82	7/8"	1/2"	82'



Don't see what you are looking for? We carry thousands of other items. Check with your local parts center.

# Compressors

## Alliance Compressors

### SPE Series Compressor

Part #	Mfg #	Electrical	Nom MBTUH	Stub Tube Conn (ID) Dischg, Suc	MCC	Dimensions		Net Wt
						Foot Print	Unit Ht	
COM11203	SPE061B1BPZ	208/230-1-60	61	1/2", 7/8"	45A	7.5"	18"	90 lbs
COM11204	SPE061B1RPZ	208/230-1-60	61	Rot	45A	7.5"	18"	90 lbs
COM11217	SPE061B3BPZ	200/230-3-60	61	1/2", 7/8"	27A	7.5"	18"	84 lbs
COM11218	SPE061B3RPZ	200/230-3-60	61	Rot	27A	7.5"	18"	84 lbs
COM11234	SPE061B4BPZ	460-3-60	61	1/2", 7/8"	12.8A	7.5"	18"	84 lbs
COM11235	SPE061B4RPZ	460-3-60	61	Rot	12.8A	7.5"	18"	84 lbs
COM11249	SPE061B7BPZ	575-3-60	61	1/2", 7/8"	11A	7.5"	18"	84 lbs
COM11250	SPE061B7RPZ	575-3-60	61	Rot	11A	7.5"	18"	84 lbs

### SSA Series Compressor

Part #	Mfg #	Electrical	Nom MBTUH	Stub Tube Conn (ID) Dischg, Suc	MCC	Dimensions		Net Wt
						Foot Print	Unit Ht	
COM09769	SSA072C3BPZ	200/230-3-60	72	1/2", 7/8"	36.2A	7.5"	18.16"	88 lbs
COM09657	SSA072C4BPZ	460-3-60	72	1/2", 7/8"	17.5A	7.5"	18.16"	88 lbs
COM08846	SSA083C3BPZ	200/230-3-60	83	1/2", 7/8"	39A	7.5"	18.16"	87 lbs
COM08847	SSA083C4BPZ	460-3-60	83	1/2", 7/8"	19A	7.5"	18.16"	87 lbs

### SSE Series Compressor

Part #	Mfg #	Electrical	Nom MBTUH	Stub Tube Conn (ID) Dischg, Suc	MCC	Dimensions		Net Wt
						Foot Print	Unit Ht	
COM11220	SSE068B3BPZ	200/230-3-60	68	1/2", 7/8"	29A	7.5"	18"	86 lbs
COM11221	SSE068B3RPZ	200/230-3-60	68	Rot	29A	7.5"	18"	86 lbs
COM08244	SSE068B4BPZ	460-3-60	68	1/2", 7/8"	14A	7.5"	18"	86 lbs
COM11236	SSE068B4RPZ	460-3-60	68	Rot	14A	7.5"	18"	86 lbs
COM11251	SSE068B7BPZ	575-3-60	68	1/2", 7/8"	11.5A	7.5"	18"	85 lbs
COM11252	SSE068B7RPZ	575-3-60	68	Rot	11.5A	7.5"	18"	85 lbs
COM08726	SSE072B3BPZ	200/230-3-60	72	1/2", 7/8"	29A	7.5"	18.16"	85 lbs
COM11222	SSE072B3RPZ	200/230-3-60	72	Rot	29A	7.5"	18.16"	85 lbs
COM07176	SSE072B4BPZ	460-3-60	72	1/2", 7/8"	14A	7.5"	18.16"	85 lbs
COM07271	SSE072B4RPZ	460-3-60	72	Rot	14A	7.5"	18.16"	85 lbs
COM11253	SSE072B7BPZ	575-3-60	72	1/2", 7/8"	11.5A	7.5"	18.16"	86 lbs
COM11254	SSE072B7RPZ	575-3-60	72	Rot	11.5A	7.5"	18.16"	86 lbs
COM11223	SSE081B3BPZ	200/230-3-60	81	3/4", 7/8"	35A	7.5"	18.2"	86 lbs
COM07188	SSE081B4BPZ	460-3-60	81	3/4", 7/8"	17A	7.5"	18.2"	86 lbs
COM11237	SSE081B4RPZ	460-3-60	81	Rot	17A	7.5"	18.2"	86 lbs
COM11255	SSE081B7BPZ	575-3-60	81	3/4", 7/8"	13A	7.5"	18.2"	86 lbs



# Compressors

## SXA Series Compressor

Part #	Mfg #	Electrical	Nom MBTUH	Stub Tube Conn (ID) Dischg, Suc	MCC	Dimensions		Net Wt
						Foot Print	Unit Ht	
COM10057	SXA020C1BPA	208/230-1-60	20	1/2", 7/8"	21A	7.5"	16.02"	47.4 lbs
COM10776	SXA024C1BPA	208/230-1-60	24	1/2", 7/8"	20A	7.5"	16.02"	48.3 lbs
COM10044	SXA025C1BPA	208/230-1-60	25	1/2", 7/8"	22A	7.5"	16.02"	48.4 lbs
COM10267	SXA025C1RPA	208/230-1-60	25	Rot	22A	7.5"	16.02"	48.4 lbs
COM10046	SXA025C3BPA	200/230-3-60	25	1/2", 7/8"	13.9A	7.5"	16.02"	47.1 lbs
COM10047	SXA025C4BPA	460-3-60	25	1/2", 7/8"	6.5A	7.5"	16.02"	46.8 lbs
COM10032	SXA031C1BPA	208/230-1-60	31	1/2", 7/8"	26A	7.5"	16.02"	49.6 lbs
COM08919	SXA031C1RPA	208/230-1-60	31	Rot	26A	7.5"	16.02"	49.6 lbs
COM10033	SXA031C3BPA	200/230-3-60	31	1/2", 7/8"	16.3A	7.5"	16.02"	48.1 lbs
COM10268	SXA031C3RPA	200/230-3-60	31	Rot	16.3A	7.5"	16.02"	48.1 lbs
COM10034	SXA031C4BPA	460-3-60	31	1/2", 7/8"	9A	7.5"	16.02"	49.4 lbs
COM10269	SXA031C4RPA	460-3-60	31	Rot	9A	7.5"	16.02"	49.4 lbs
COM10065	SXA034C1BPA	208/230-1-60	34	1/2", 7/8"	28A	7.5"	17.17"	71.2 lbs
COM09537	SXA034C1RPA	208/230-1-60	34	Rot	28A	7.5"	17.17"	71.2 lbs
COM09755	SXA038C1BPA	208/230-1-60	38	1/2", 7/8"	31A	7.5"	17.17"	72 lbs
COM08968	SXA038C1RPA	208/230-1-60	38	Rot	31A	7.5"	17.17"	72 lbs
COM09782	SXA038C3BPA	200/230-3-60	38	1/2", 7/8"	21.2A	7.5"	17.17"	67 lbs
COM10007	SXA038C3RPA	200/230-3-60	38	Rot	21.2A	7.5"	17.17"	67 lbs
COM09783	SXA038C4BPA	460-3-60	38	1/2", 7/8"	9.5A	7.5"	17.17"	67 lbs
COM09756	SXA042C1BPA	208/230-1-60	42	1/2", 7/8"	34A	7.5"	17.17"	72.9 lbs
COM08970	SXA042C1RPA	208/230-1-60	42	Rot	34A	7.5"	17.17"	72.9 lbs
COM10275	SXA042C3BPA	200/230-3-60	42	1/2", 7/8"	21.4A	7.5"	17.17"	67 lbs
COM10008	SXA042C3RPA	200/230-3-60	42	Rot	21.4A	7.5"	17.17"	67 lbs
COM09704	SXA042C4BPA	460-3-60	42	1/2", 7/8"	9.7A	7.5"	17.17"	67 lbs
COM10276	SXA042C4RPA	460-3-60	42	Rot	9.7A	7.5"	17.17"	67 lbs
COM10289	SXA049C1BPA	208/230-1-60	49	1/2", 7/8"	39A	7.5"	17.17"	75.8 lbs
COM09696	SXA049C1RPA	208/230-1-60	49	Rot	39A	7.5"	17.17"	75.8 lbs
COM10210	SXA049C3BPA	200/230-3-60	49	1/2", 7/8"	24.8A	7.5"	17.17"	72.8 lbs
COM10211	SXA049C4BPA	460-3-60	49	1/2", 7/8"	11A	7.5"	17.17"	72.9 lbs
COM09757	SXA054C1BPA	208/230-1-60	54	1/2", 7/8"	41A	7.5"	17.17"	75.6 lbs
COM08809	SXA054C1RPA	208/230-1-60	54	Rot	41A	7.5"	17.17"	75.6 lbs
COM10052	SXA054C3BPA	200/230-3-60	54	1/2", 7/8"	24.4A	7.5"	17.17"	71.6 lbs
COM09012	SXA054C3RPA	200/230-3-60	54	Rot	24.4A	7.5"	17.17"	71.6 lbs
COM10053	SXA054C4BPA	460-3-60	54	1/2", 7/8"	12.1A	7.5"	17.17"	71.4 lbs
COM09013	SXA054C4RPA	460-3-60	54	Rot	12.1A	7.5"	17.17"	71.4 lbs
COM10280	SXA057C1RPA	208/230-1-60	57	Rot	44.2A	7.5"	17.59"	75.6 lbs
COM10281	SXA057C3BPA	200/230-3-60	57	1/2", 7/8"	30A	7.5"	17.75"	75.6 lbs
COM10282	SXA057C4BPA	460-3-60	57	1/2", 7/8"	13.6A	7.5"	17.75"	75.6 lbs



# Compressors

## SXE Series Compressor

Part #	Mfg #	Electrical	Nom MBTUH	Stub Tube Conn (ID) Dischg, Suc	MCC	Dimensions		Net Wt
						Foot Print	Unit Ht	
COM11186	SXE021B1BPZ	208/230-1-60	21	1/2", 7/8"	16.8A	7.5"	16.08"	46.9 lbs
COM11187	SXE021B1RPZ	208/230-1-60	21	Rot	16.8A	7.5"	16.08"	46.9 lbs
COM11188	SXE025B1BPZ	208/230-1-60	25	1/2", 7/8"	21A	7.5"	16.08"	50.1 lbs
COM11189	SXE025B1RPZ	208/230-1-60	25	Rot	21A	7.5"	16.08"	50.1 lbs
COM11190	SXE028B1RPZ	208/230-1-60	28	Rot	22A	7.5"	16.08"	49.6 lbs
COM11205	SXE028B3RPZ	200/230-3-60	28	Rot	15.5A	7.5"	16.08"	49.6 lbs
COM11224	SXE028B4RPZ	460-3-60	28	Rot	8A	7.5"	16.08"	49.6 lbs
COM11191	SXE032B1BPZ	208/230-1-60	32	1/2", 7/8"	24A	7.5"	16.08"	49.9 lbs
COM11192	SXE032B1RPZ	208/230-1-60	32	Rot	24A	7.5"	16.08"	49.9 lbs
COM11206	SXE032B3BPZ	200/230-3-60	32	1/2", 7/8"	16.8A	7.5"	16.08"	49.1 lbs
COM11207	SXE032B3RPZ	200/230-3-60	32	Rot	16.8A	7.5"	16.08"	49.1 lbs
COM11225	SXE032B4BPZ	460-3-60	32	1/2", 7/8"	9A	7.5"	16.08"	49.4 lbs
COM11226	SXE032B4RPZ	460-3-60	32	Rot	9A	7.5"	16.08"	49.4 lbs
COM11238	SXE032B7BPZ	575-3-60	32	1/2", 7/8"	6.5A	7.5"	16.08"	47.8 lbs
COM11239	SXE032B7RPZ	575-3-60	32	Rot	6.5A	7.5"	16.08"	47.8 lbs
COM11193	SXE038B1BPZ	208/230-1-60	38	1/2", 7/8"	30A	7.5"	17.17"	64.9 lbs
COM11194	SXE038B1RPZ	208/230-1-60	38	Rot	30A	7.5"	17.17"	64.9 lbs
COM11209	SXE038B3RPZ	200/230-3-60	38	1/2", 7/8"	19A	7.5"	17.17"	60.5 lbs
COM11227	SXE038B4RPZ	460-3-60	38	Rot	9A	7.5"	17.17"	60.7 lbs
COM11240	SXE038B7BPZ	575-3-60	38	1/2", 7/8"	6.7A	7.5"	17.17"	63.6 lbs
COM11241	SXE038B7RPZ	575-3-60	38	Rot	6.7A	7.5"	17.17"	63.6 lbs
COM11196	SXE042B1BPZ	208/230-1-60	42	1/2", 7/8"	31A	7.5"	17.17"	68.3 lbs
COM11197	SXE042B1RPZ	208/230-1-60	42	Rot	31A	7.5"	17.17"	68.3 lbs
COM11210	SXE042B3BPZ	200/230-3-60	42	1/2", 7/8"	20A	7.5"	17.17"	61 lbs
COM11211	SXE042B3RPZ	200/230-3-60	42	Rot	20A	7.5"	17.17"	61 lbs
COM10720	SXE042B4BPZ	460-3-60	42	1/2", 7/8"	9A	7.5"	17.17"	60.8 lbs
COM11228	SXE042B4RPZ	460-3-60	42	Rot	9A	7.5"	17.17"	60.8 lbs
COM11242	SXE042B7BPZ	575-3-60	42	1/2", 7/8"	7.4A	7.5"	17.17"	61.5 lbs
COM11199	SXE048B1BPZ	208/230-1-60	48	1/2", 7/8"	34A	7.5"	17.17"	70.9 lbs
COM11200	SXE048B1RPZ	208/230-1-60	48	Rot	34A	7.5"	17.17"	70.9 lbs
COM11213	SXE048B3BPZ	200/230-3-60	48	1/2", 7/8"	24A	7.5"	17.17"	69.1 lbs
COM11214	SXE048B3RPZ	200/230-3-60	48	Rot	24A	7.5"	17.17"	69.1 lbs
COM10606	SXE048B4BPZ	460-3-60	48	1/2", 7/8"	11A	7.5"	17.17"	64.2 lbs
COM11231	SXE048B4RPZ	460-3-60	48	Rot	11A	7.5"	17.17"	64.2 lbs
COM11243	SXE048B7BPZ	575-3-60	48	1/2", 7/8"	8.1A	7.5"	17.17"	64.2 lbs
COM11244	SXE048B7RPZ	575-3-60	48	Rot	8.1A	7.5"	17.17"	64.2 lbs
COM11201	SXE054B1BPZ	208/230-1-60	54	1/2", 7/8"	39.5A	7.5"	17.17"	72.5 lbs
COM11202	SXE054B1RPZ	208/230-1-60	54	Rot	39.5A	7.5"	17.17"	72.5 lbs
COM11215	SXE054B3BPZ	200/230-3-60	54	1/2", 7/8"	24A	7.5"	17.17"	68.4 lbs
COM11216	SXE054B3RPZ	200/230-3-60	54	Rot	24A	7.5"	17.17"	68.4 lbs
COM11232	SXE054B4BPZ	460-3-60	54	1/2", 7/8"	11A	7.5"	17.17"	68.3 lbs



# Compressors

## Alliance Compressors (Continued)

### SXE Series Compressor

Part #	Mfg #	Electrical	Nom MBTUH	Stub Tube Conn (ID) Dischg, Suc	MCC	Dimensions		Net Wt
						Foot Print	Unit Ht	
COM11233	SXE054B4RPZ	460-3-60	54	Rot	11A	7.5"	17.17"	68.3 lbs
COM11245	SXE054B7BPZ	575-3-60	54	1/2", 7/8"	8.2A	7.5"	17.17"	68 lbs
COM11246	SXE054B7RPZ	575-3-60	54	Rot	8.2A	7.5"	17.17"	68 lbs

## Carrier Compressors

### Remanufactured to Industry Standards



Part#	Mfg#	Electrical	HP	Cylinders	Unloading	Service Valve
COM06154	5H40	-	40 hp	6	3 Stages	-
COM06155	5H60	-	60 hp	6	4 Stages	-
COM06156	5H80	-	80 hp	6	6 Stages	-
COM06157	5H120	-	120 hp	6	8 Stages	-
COM06070	06DA8186AA1200	208/230-3-60	6.5 hp	4	None	2-Bolt 30°
COM06101	06DA8186AA0600	460-3-60	6.5 hp	4	None	2-Bolt 30°
COM06102	06DA8186AA0100	575-3-60	6.5 hp	4	None	2-Bolt 30°
COM08873	06DG5376DC3600	460-3-60	15 hp	6	Suction	-
COM08867	06DM3136AC3200	208/230-3-60	5 hp	4	None	-
COM08866	06DM3136AC3600	460-3-60	5 hp	4	None	-
COM08870	06DM3286DC3600	460-3-60	10 hp	6	None	-
COM08871	06DM5376DC3600	460-3-60	15 hp	6	None	-
COM08874	06DM8246BC3600	460-3-60	7.5 hp	6	None	-
COM08868	06DS3286BC3200	208/230-3-60	10 hp	6	1 Stage Suction	-
COM08869	06DS328613C3600	460-3-60	10 hp	6	1 Stage Suction	-
COM08826	06DS5376BC3200	208/230-3-60	15 hp	6	1 Stage Suction	-
COM08827	06DS5376BC3600	460-3-60	15 hp	6	1 Stage Suction	4-Bolt 30°
COM08872	06DS5376DC3600	460-3-60	15 hp	6	1 Stage Suction	-
COM08876	06DS8186AC3600	460-3-60	6.5 hp	4	1 Stage Suction	-
COM08875	06DS8246BC3600	208/230-3-60	7.5 hp	6	1 Stage Suction	-
COM06075	06DX328*BA0600	460-3-60	10 hp	6	1 Stage Bypass	-
COM06076	06DX328*BA1200	208/230-3-60	10 hp	6	1 Stage Bypass	-
COM06105	06DX3286BA0100	575-3-60	10 hp	6	1 Stage Bypass	-
COM06077	06DX337*BA0600	460-3-60	10 hp	6	1 Stage Bypass	-
COM06078	06DX337*BA1200	208/230-3-60	10 hp	6	1 Stage Bypass	-
COM06106	06DX3376BA0100	575-3-60	10 hp	6	1 Stage Bypass	-
COM06080	06DX5376BA0600	460-3-60	15 hp	6	1 Stage Bypass	4-Bolt 30°
COM06079	06DX537*BA1200	208/230-3-60	15 hp	6	1 Stage Bypass	-
COM06107	06DX5376BA0100	575-3-60	15 hp	6	1 Stage Bypass	-



# Compressors

## Carrier Compressors (Continued)

Part#	Mfg#	Electrical	HP	Cylinders	Unloading	Service Valve
COM06071	06DX824*AA0600	460-3-60	7.5 hp	6	1 Stage Bypass	-
COM06072	06DX824*AA1200	208/230-3-60	7.5 hp	6	1 Stage Bypass	-
COM06073	06DX824*BA0600	460-3-60	7.5 hp	6	1 Stage Bypass	-
COM06074	06DX824*BA1200	208/230-3-60	7.5 hp	6	1 Stage Bypass	-
COM06103	06DX8246AA0100	575-3-60	7.5 hp	6	1 Stage Bypass	-
COM06104	06DX8246BA0100	575-3-60	7.5 hp	6	1 Stage Bypass	-
COM06143	0ET250360	208/230-3-60 460-3-60	20 hp	4	1 Stage Suction	-
COM06147	06ET275360	208/230-3-60 460-3-60	30 hp	6	1 Stage Suction	-
COM08859	06ET299360	208/230-3-60 460-3-60	40 hp	6	1 Stage Suction	-
COM06149	06E6275360	208/230-3-60	30 hp	6	Suction	-
COM08855	06E6175360	208/230/460-3-60	30 hp	6	Suction	-
COM08854	06E6175660	460-3-60	30 hp	6	Suction	-
COM08856	06E6265360	208/230/460-3-60	25 hp	6	Suction	-
COM08858	06E6275660	460-3-60	30 hp	6	Suction	-
COM08862	06E6299360	208/230/460-3-60	40 hp	6	Suction	-
COM08861	06E6299660	460-3-60	40 hp	6	Suction	-
COM08860	06E7275360	208/230/460-3-60	30 hp	6	Suction	-
COM08863	06E7299360	208/230/460-3-60	40 hp	6	Suction	-
COM08852	06EA250360	208/230/460-3-60	20 hp	4	None	-
COM08853	06EF175660	460-3-60	30 hp	6	None	-
COM08829	06EF265360	208/230/460-3-60	25 hp	6	None	-
COM08830	06EF275360	208/230/460-3-60	30 hp	6	None	-
COM08857	06EF275660	460-3-60	30 hp	6	None	-
COM06144	06ET2506*0	460-3-60	20 hp	4	1 Stage Suction	-
COM06145	06ET2653*0	208/230/460-3-60	25 hp	6	1 Stage Suction	-
COM06146	06ET2656*0	460-3-60	25 hp	6	1 Stage Suction	-
COM06148	06ET2756*0	460-3-60	30 hp	6	1 Stage Suction	-
COM06150	06ET2996*0	460-3-60	40 hp	6	1 Stage Suction	-
COM06108	06EX250160	208/230-3-60	20 hp	4	1 Stage Bypass	-
COM06081	06EX250360	208/230/460-3-60	20 hp	4	1 Stage Bypass	-
COM06082	06EX2506*0	460-3-60	20 hp	4	1 Stage Bypass	-
COM06109	06EX265160	208/230-3-60	25 hp	6	1 Stage Bypass	-
COM06083	06EX265360	208/230/460-3-60	25 hp	6	1 Stage Bypass	-
COM06084	06EX2656*0	460-3-60	25 hp	6	1 Stage Bypass	-
COM06110	06EX275160	208/230-3-60	30 hp	6	1 Stage Bypass	-
COM06085	06EX275360	208/230/460-3-60	30 hp	6	1 Stage Bypass	-
COM06086	06EX2756*0	460-3-60	30 hp	6	1 Stage Bypass	-
COM06111	06EX299160	208/230-3-60	40 hp	6	1 Stage Bypass	-
COM06087	06EX299360	208/230/460-3-60	40 hp	6	1 Stage Bypass	-
COM06088	06EX2996*0	460-3-60	40 hp	6	1 Stage Bypass	-



# Compressors

## Copeland Compressors Remanufactured to Industry Standards



Part#	Mfg#	Electrical	HP	Cylinders	Percent Unloading
COM06092	4RK2-2500-TSK	208/230-3-60 460-3-60	25 hp	4	50%
COM06096	6RK2-3500-TSK	208/230-3-60 460-3-60	35 hp	6	33%
COM08828	6RP2-3500-TSK	208/230-3-60 460-3-60	35 hp	6	66%

## Remanufactured Discus Semi-Hermetic Compressors



Part#	Mfg#	Electrical	HP	Cylinders
COM09797	3DS3F46KE-TFC	208/230-3-60	7 hp	3
COM09799	3DS3R17ME-TFD	460-3-60	15 hp	3
COM09801	3DB3F33KE-TFC	208/230-3-60	5.5 hp	3
COM09802	3DS3R17MO-TFD	460-3-60	15 hp	3
COM09803	3DS3F46KE-TFD	460-3-60	7 hp	3
COM08877	3DT3-1500-TFD	460-3-60	15 hp	3
COM09807	3DA3R10ME-TFC	208/230-3-60	8 hp	3
COM09808	3DB3R12ME-TFC	208/230-3-60	10 hp	3
COM09809	3DF3F40KE-TFC	208/230-3-60	6 hp	3
COM09810	3DA3F28KE-TFC	208/230-3-60	5 hp	3
COM09812	3DB3R12ME-TFD	460-3-60	10 hp	3
COM09813	3DS3R17MO-TFC	208/230-3-60	15 hp	3
COM09814	3DT3R17MO-TFD	460-3-60	15 hp	3
COM09817	3DF3R15ME-TFC	208/230-3-60	12.5 hp	3
COM09818	3DB3F33KE-TFD	460-3-60	5.5 hp	3
COM09804	4DS3F76KE-TSK	208/230-3-60 460-3-60	12.5 hp	4
COM09805	4DA3R12ME-TSK	208/230-3-60 460-3-60	8 hp	4
COM09806	4DP3F63KE-TSK	208/230-3-60 460-3-60	10 hp	4
COM09811	4DE3R18ME-TSK	208/230-3-60 460-3-60	15 hp	4
COM09815	4DR3R28ME-TSK	208/230-3-60 460-3-60	25 hp	4
COM09816	4DA3F47KE-TSK	208/230-3-60 460-3-60	8 hp	4
COM08501	4DB3-2200-TSK	208/230-3-60 460-3-60	18 hp	4
COM08502	4DC3-2200-TSK	208/230-3-60 460-3-60	18 hp	4



# Compressors

## Copeland Compressors Remanufactured to Industry Standards (Continued) Remanufactured DiscusSemi-Hermetic Compressors

Part#	Mfg#	Electrical	HP	Cylinders
COM08503	4DH1-2500-TSK	208/230-3-60 460-3-60	20 hp	4
COM08504	4DH3-2500-TSK	208/230-3-60 460-3-60	20 hp	4
COM08506	4DJ1-3000-TSK	208/230-3-60 460-3-60	25 hp	4
COM08507	4DJ3-3000-TSK	208/230-3-60 460-3-60	23.5 hp	4
COM08878	4DK1-2500-FSD	460-3-60	20 hp	4
COM08491	4DK1-2500-TSK	208/230-3-60 460-3-60	20 hp	4
COM08492	4DR1-3000-TSK	208/230-3-60 460-3-60	25 hp	4
COM09916	6DL3F93KE-TSK	208/230-3-60 460-3-60	15 hp	6
COM09917	6DT3F11ME-TSK	208/230-3-60 460-3-60	17 hp	6
COM08494	6DH1-3500-TSK	208/230-3-60 460-3-60	35 hp	6
COM08508	6DH3-3500-TSK	208/230-3-60 460-3-60	35 hp	6
COM08510	6DJ1-4000-TSN	230-3-60 460-3-60	40 hp	6
COM08511	6DJ3-4000-TSN	230-3-60 460-3-60	40 hp	6
COM08509	6DK3-3500-TSK	208/230-3-60 460-3-60	35 hp	6
COM08881	6DP3-3500-FSD	460-3-60	35 hp	6
COM08497	6DP3-3500-TSK	208/230-3-60 460-3-60	35 hp	6
COM08886	6DR3-4000-FSD	460-3-60	40 hp	6
COM08512	6DR3-4000-TSN	230-3-60 460-3-60	40 hp	6
COM08499	6DS1-4000-TSN	230-3-60 460-3-60	40 hp	6
COM08887	6DS3-4000-FSN	230-3-60 460-3-60	40 hp	6
COM08880	6DW3-3000-FSD	460-3-60	30 hp	6
COM08879	6DW3-3000-TSK	208/230-3-60 460-3-60	30 hp	6
COM08889	6DY3-3000-TSK	208/230-3-60 460-3-60	30 hp	6





# Compressors

## Remanufactured Copalamic Semi-Hermetic Compressors



Part#	Mfg#	Electrical	HP	Cylinders
COM06089	4RA*2000-TSK	208/230-3-60 460-3-60	20 hp	4
COM06112	4RA3-2000-TSE	575-3-60	20 hp	4
COM06090	4RE*2000-TSK	208/230-3-60 460-3-60	20 hp	4
COM06113	4RE2-2000-TSE	575-3-60	20 hp	4
COM06091	4RH*2500-TSK	208/230-3-60 460-3-60	25 hp	4
COM06114	4RH1-2500-TSE	575-3-60	25 hp	4
COM06097	4RJ*3000-TSK	208/230-3-60 460-3-60	30 hp	4
COM06116	4RJ1-3000-TSE	575-3-60	30 hp	4
COM06115	4RK2-2500-TSE	575-3-60	25 hp	4
COM06098	4RR*3000-TSK	208/230-3-60 460-3-60	30 hp	4
COM06117	4RR1-3000-TSE	575-3-60	30 hp	4
COM06093	6RA*3000-TSK	208/230-3-60 460-3-60	30 hp	6
COM06118	6RA4-3000-TSE	575-3-60	30 hp	6
COM06094	6RE*3000-TSK	208/230-3-60 460-3-60	30 hp	6
COM06119	6RE2-3000-TSE	575-3-60	30 hp	6
COM06095	6RH*3500-TSK	208/230-3-60 460-3-60	35 hp	6
COM06120	6RH1-3500-TSE	575-3-60	35 hp	6
COM06099	6RJ*4000-TSN	208/230-3-60 460-3-60	40 hp	6
COM06122	6RJ1-4000-TSE	575-3-60	40 hp	6
COM06121	6RK2-3500-TSE	575-3-60	35 hp	6
COM08882	6RK2-350A-TSK	208/230-3-60 460-3-60	35 hp	6
COM08883	6RP2-350A-TSK	575-3-60	35 hp	6
COM06100	6RR*4000-TSN	230-3-60 460-3-60	40 hp	6
COM08885	6RR2-4000-FSN	230-3-60 460-3-60	40 hp	6
COM06123	6RR2-4000-TSE	575-3-60	40 hp	6
COM08888	6RS2-4000-TSN	230-3-60 460-3-60	40 hp	6
COM08884	6RS2-400A-TSN	230-3-60 460-3-60	40 hp	6



# Compressors

## Remanufactured Refrigeration Model - Delta Reed



Part#	Mfg#	Electrical	HP	Cylinders	Percent Unloading
COM09798	3DS3-R17ME-TFC	208/230-3-60	15 hp	3	None
COM09795	4DL3-F63KE-TSK	208/230-3-60 460-3-60	15 hp	4	None
COM09796	4DT3-F76KE-TSK	208/230-3-60 460-3-60	22 hp	4	None
COM09800	4DK3-R22ME-TSK	208/230-3-60 406-3-60	25 hp	4	50%

## Remanufactured Discus® Short Heads



Part#	Mfg#	Electrical	HP	Cylinders	Percent Unloading
COM08495	6DK1-3500-TSK	208/230-3-60 460-3-60	35 hp	6	33%
COM08496	6DP1-3500-TSK	208/230-3-60 460-3-60	35 hp	6	66%
COM08498	6DR1-4000-TSN	230-3-60 460-3-60	40 hp	6	33%

## Remanufactured Discus® Tall Heads



Part#	Mfg#	Electrical	HP	Cylinders	Percent Unloading
COM08505	4DK3-2500-TSK	208/230-3-60 460-3-60	25 hp	4	50%
COM08493	4DR3-3000-TSK	208/230-3-60 460-3-60	30 hp	4	50%
COM08500	6DS3-4000-TSN	208/230-3-60 460-3-60	40 hp	6	66%

## Trane Model A Compressors Remanufactured to Trane OEM Specifications



Part #	Mfg #	MBTUH	Cylinders	Dimensions H x W x L
COM06370	A516	40 Ton	6	25.75" x 26.5" x 28.88"
COM06371	A518	50 Ton	8	25.75" x 27.5" x 30.88"



# Compressors

## Copelaweld® Hermetic Reciprocating Compressor

- 60 Hertz - no injection
- -970 Have sweat connections with terminal flag kit, no electrical components
- CR - Internal motor protector # (071-)



### CR Optima Body

#### Copelaweld CR16K6E Hermetic HVAC Compressor

- A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115
- R-407C (208/230 / 265-1-60): 15,150 BTUH (9.6 RLA / 9.0 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11336	CR16K6E-PFJ-875	265-1-60	10.23" x 9.65" x 13.19"	1/2"	3/4"	7.50" x 7.50"
COM11337	CR16K6E-PFV-875	208/230-1-60	10.23" x 9.65" x 13.19"	1/2"	3/4"	7.50" x 7.50"

#### Copelaweld CR18K6E Hermetic HVAC Compressor

- UL High Temperature Refrigeration Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/130
- R-22 (208/230-1-60): 17,000 BTUH: (10.4 RLA)
- A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115
- R-22 (265-1-60): 18,000 (9.1 RLA)
- R-22 (220/230-3-60): 17,600 (6.1 RLA)
- R-22 (380/460-3-60): 17,700 (3.0 RLA)
- R-407C (208/230 / 265-1-60): 16,250 BTUH (10.4 RLA / 9.1 RLA)
- R-407C (220/230-3-60): 16,550 BTUH (6.1 RLA)
- R-407C (380/460-3-60): 16,600 BTUH (3.0 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11339	CR18K6E-PFV-875	208/230-1-60	10.23" x 9.65" x 13.19"	1/2"	3/4"	7.50" x 7.50"
COM11338	CR18K6E-PFJ-875	265-1-60	10.23" x 9.65" x 13.19"	1/2"	3/4"	7.50" x 7.50"
COM11340	CR18K6E-TF5-875	380/460-3-60	11.38" x 9.38" x 15.88"	1/2"	7/8"	7.50" x 7.50"
COM11341	CR18K6E-TFD-875	380/460-3-60	10.23" x 9.65" x 13.12"	1/2"	3/4"	7.50" x 7.50"

#### Copelaweld CR20K6E Hermetic HVAC Compressor

- A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115
- R-407C (208/230-1-60): 17,700 BTUH (10.6 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11342	CR20K6E-PFV-875	208/230-1-60	10.23" x 9.65" x 13.19"	1/2"	3/4"	7.50" x 7.50"



# Compressors

## Copeland CR22K6E Hermetic HVAC Compressor

- **A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115**
  - R-22 (265-1-60): 22,100 (9.9 RLA)
  - R-22 (200/230 / 380/460-3-60): 22,000 (7.5 RLA / 3.9 RLA)
  - R-407C (208/230 / 265-1-60): 19,900 BTUH (10.9 RLA / 9.9 RLA)
  - R-407C (200/230 / 380/460-3-60): 19,900 (7.5 / 3.9 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11344	CR22K6E-PFV-875	208/230-1-60	10.23" x 9.65" x 13.19"	1/2"	3/4"	7.50" x 7.50"
COM11343	CR22K6E-PFJ-875	265-1-30	10.23" x 9.65" x 13.31"	1/2"	3/4"	7.50" x 7.50"
COM11345	CR22K6E-TF5-875	200/230-1-30	10.23" x 9.65" x 13.31"	1/2"	3/4"	7.50" x 7.50"
COM11346	CR22K6E-TFD-875	380/460-3-60	10.23" x 9.65" x 13.31"	1/2"	3/4"	7.50" x 7.50"

## Copeland CR24K6E Hermetic HVAC Compressor

- **UL High Temperature Refrigeration Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/130**
  - R-22 (200/230-3-60): 23,600 BTUH: (7.7 RLA)
  - A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115
  - R-22 (265-1-60): 24,500 BTUH (10.9 RLA)
  - R-22 (200/230 / 380/460-3-60): 24,000 BTUH: (7.7 RLA / 4.0 RLA)
  - R-407C (208/230 / 265-1-60): 22,600 BTUH (12.4 RLA / 10.9 RLA)
  - R-407C (200/230 / 380/460-3-60): 22,600 BTUH (7.7 RLA / 4.0 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11348	CR24K6E-PFV-875	208/230-1-60	10.23" x 9.65" x 13.44"	1/2"	5/8"	7.50" x 7.50"
COM11347	CR24K6E-PFJ-875	265-1-60	10.23" x 9.65" x 13.44"	1/2"	3/4"	7.50" x 7.50"
COM11349	CR24K6E-TF5-875	200/230-3-60	10.23" x 9.65" x 13.44"	1/2"	3/4"	7.50" x 7.50"
COM11350	CR24K6E-TFD-875	380/460-3-60	10.23" x 9.65" x 13.44"	1/2"	3/4"	7.50" x 7.50"

## Copeland CR28K6E Hermetic HVAC Compressor

- **A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115**
  - R-22 (265-1-30): 28,200 (13.9 RLA)
  - R-22 (200/230 / 460-3-60): 28,100 (10.0 RLA / 4.8 RLA)
  - R-407C (208/230 / 265-1-60): 26,100 BTUH (15.3 RLA / 13.9 RLA)
  - R-407C (200/230-3-60): 25,800 BTUH (10.0 RLA)
  - R-407C (460-3-60): 26,100 BTUH (4.8 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11352	CR28K6E-PFV-875	208/230-1-60	10.23" x 9.65" x 13.56"	1/2"	3/4"	7.50" x 7.50"
COM11351	CR28K6E-PFJ-875	265-1-60	10.23" x 9.65" x 13.56"	1/2"	3/4"	7.50" x 7.50"
COM11353	CR28K6E-TF5-875	200/230-3-60	10.23" x 9.65" x 13.56"	1/2"	3/4"	7.50" x 7.50"
COM11354	CR28K6E-TFD-875	460-3-60	10.23" x 9.65" x 13.56"	1/2"	3/4"	7.50" x 7.50"



# Compressors

## Copelaweld CR30K6E Hermetic HVAC Compressor

- **UL High Temperature - Evap/Cond/Return Gas/Liquid: 45/130**
  - R-22 (200/230-3-60): 28,250 BTUH (10.4 RLA)
  - A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115
  - R-22 (265-1-60): 30,000 BTUH (13.6 RLA)
  - R-22 (200/230 / 460-3-60): 29,800 BTUH (10.4 RLA / 4.9 RLA)
  - R-407C (208/230 / 265-1-60): 27,100 BTUH (16.0 RLA / 13.6 RLA)
  - R-407C (200/230 / 460-3-60): 27,100 BTUH (10.4 RLA / 4.9 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11356	CR30K6E-PFV-875	208/230-1-60	10.23" x 9.65" x 13.81"	1/2"	3/4"	7.50" x 7.50"
COM11355	CR30K6E-PFJ-875	265-1-60	10.23" x 9.65" x 13.81"	1/2"	3/4"	7.50" x 7.50"
COM11357	CR30K6E-TF5-875	200/230-3-60	10.23" x 9.65" x 13.81"	1/2"	3/4"	7.50" x 7.50"
COM11358	CR30K6E-TFD-875	460-3-60	10.23" x 9.65" x 13.81"	1/2"	3/4"	7.50" x 7.50"

## Copelaweld CR32K6E Hermetic HVAC Compressor

- **A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115**
  - R-22 (265-1-60): 32,000 BTUH (15.0 RLA)
  - R-22 (200/230 / 460 / 575-3-60): 31,900 BTUH (10.0 RLA / 5.1 RLA / 3.8 RLA)
  - R-407C (208/230 / 265-1-60): 29,300 BTUH (16.1 RLA / 15.0 RLA)
  - R-407C (200/230 / 460 / 575-3-60): 29,300 BTUH (10.0 RLA / 5.1 RLA / 3.8 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11360	CR32K6E-PFV-875	208/230-1-60	10.23" x 9.65" x 13.81"	1/2"	3/4"	7.50" x 7.50"
COM11359	CR32K6E-PFJ-875	265-1-60	10.23" x 9.65" x 13.81"	1/2"	3/4"	7.50" x 7.50"
COM11361	CR32K6E-TF5-875	200/230-3-60	10.23" x 9.65" x 13.81"	1/2"	3/4"	7.50" x 7.50"
COM11362	CR32K6E-TFD-875	460-3-60	10.23" x 9.65" x 13.81"	1/2"	3/4"	7.50" x 7.50"

## Copelaweld CR34K6E Hermetic HVAC Compressor

- **A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115**
  - R-407C (208/230-1-60): 31,200 BTUH (16.6 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11363	CR34K6E-PFV-875	265-1-60	10.23" x 9.65" x 14.06"	1/2"	3/4"	7.50" x 7.50"



# Compressors

## Copeland CR35K6E Hermetic HVAC Compressor



- A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115
  - R-22 (200/230 / 460-3-60 / 575-3-60): 34,900 BTUH (11.4 RLA / 4.8 RLA / 4.1 RLA)
  - R-407C (208/230-1-60): 31,900 BTUH (18.0 RLA)
  - R-407C (200/230 / 460-3-60 / 575-3-60): 31,900 BTUH (11.4 RLA / 4.8 RLA / 4.1 RLA)

Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11364	CR35K6E-PFV-875	208/230-1-60	10.23" x 9.65" x 13.56"	1/2"	3/4"	7.50" x 7.50"
COM11365	CR35K6E-TF5-875	200/230-3-60	10.23" x 9.65" x 14.06"	1/2"	3/4"	7.50" x 7.50"
COM11366	CR35K6E-TFD-875	460-3-60	10.23" x 9.65" x 14.06"	1/2"	3/4"	7.50" x 7.50"
COM11367	CR35K6E-TFE-875	575-3-60	10.23" x 9.65" x 14.06"	1/2"	3/4"	7.50" x 7.50"

## Copeland CR38K6E Hermetic HVAC Compressor



- A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115
  - R-22 (200/230 / 380/460-3-60): 37,900 BTUH (11.9 RLA / 5.9 RLA)
  - R-407C (208/230-1-60): 35,000 BTUH (19.0 RLA)
  - R-407C (200/230 / 380/460-3-60): 35,000 BTUH (11.9 RLA / 5.9 RLA)

Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11368	CR38K6E-PFV-875	208/230-1-60	10.23" x 9.65" x 14.31"	1/2"	3/4"	7.50" x 7.50"
COM11369	CR38K6E-TF5-875	200/230-3-60	10.23" x 9.65" x 14.31"	1/2"	3/4"	7.50" x 7.50"
COM11370	CR38K6E-TFD-875	380/460-3-60	10.23" x 9.65" x 14.31"	1/2"	3/4"	7.50" x 7.50"

## Copeland CR42K6E Hermetic HVAC Compressor



- A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115
  - R-22 (200/230 / 460 / 575-3-60): 41,700 BTUH (14.0 RLA / 6.2 RLA / 5.2 RLA)
  - R-407C (208/230-1-60): 39,500 BTUH (20.4 RLA)
  - R-407C (200/230 / 460 / 575-3-60): 39,500 BTUH (14.0 RLA / 6.4 RLA / 5.2 RLA)

Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11371	CR42K6E-PFV-875	208/230-1-60	10.23" x 9.65" x 14.56"	1/2"	3/4"	7.50" x 7.50"
COM11372	CR42K6E-TF5-875	200/230-3-60	10.23" x 9.65" x 14.56"	1/2"	3/4"	7.50" x 7.50"
COM11373	CR42K6E-TFD-875	460-3-60	10.23" x 9.65" x 14.56"	1/2"	3/4"	7.50" x 7.50"
COM11374	CR42K6E-TFE-875	575-3-60	10.23" x 9.65" x 14.56"	1/2"	3/4"	7.50" x 7.50"



# Compressors

## Copelaweld CR47KQE Hermetic HVAC Compressor

- **High Temperature Refrigeration Conditions - Evap/Cond: 45/130/65/130**
  - R-22 (380/460-3-60): 46,000 BTUH (8.2 RLA)
- **UL High Temperature Refrigeration Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/130**
  - R-22 (200/230-3-60): 43,700 BTUH (16.1 RLA)
  - R-22 (380/460-3-60): 44,000 BTUH (8.2 RLA)
  - A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115
  - R-22 (200/230 / 380/460-3-60): 47,200 BTUH (16.1 RLA / 8.2 RLA)
  - R-407C (208/230-1-60): 34,800 BTUH (24.6 RLA)
  - R-407C (200/230-3-60): 43,900 BTUH (16.1 RLA)
  - R-407C (380/460-3-60): 44,100 BTUH (8.2 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11375	CR47KQE-PFV-970	208/230-1-60	10.38" x 9.09" x 14.81"	1/2"	7/8"	7.50" x 7.50"
COM11376	CR47KQE-TF5-970	200/230-3-60	10.38" x 9.09" x 14.81"	1/2"	7/8"	7.50" x 7.50"
COM11377	CR47KQE-TFD-970	380/460-3-60	10.38" x 9.09" x 14.81"	1/2"	7/8"	7.50" x 7.50"

## Copelaweld CR53KQE Hermetic HVAC Compressor

- **High Temperature Refrigeration Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/130**
  - R-22 (200/230-3-60): 48,900 BTUH (18.2 RLA)
  - R-22 (380/460-3-60): 48,800 BTUH (9.1 RLA)
- **UL High Temperature Refrigeration Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/130**
  - R-22 (208/230-1-60): 52,250 BTUH (28.9 RLA)
  - R-22 (380/460-3-60): 51,500 BTUH (9.1 RLA)
  - A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115
  - R-22 (200/230 / 380/460-3-60): 53,000 BTUH (18.2 RLA / 9.1 RLA)
  - R-407C (208/230-1-60): 49,900 BTUH (28.9 RLA)
  - R-407C (200/230-3-60): 46,700 BTUH (18.2 RLA)
  - R-407C (380/460-3-60): 49,400 BTUH (9.1 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11378	CR53KQE-PFV-970	208/230-1-60	10.62" x 9.22" x 14.81"	1/2"	7/8"	7.50" x 7.50"
COM11379	CR53KQE-TF5-970	200/230-3-60	10.62" x 9.22" x 14.81"	1/2"	7/8"	7.50" x 7.50"
COM11380	CR53KQE-TFD-970	380/460-3-60	10.62" x 9.22" x 14.81"	1/2"	7/8"	7.50" x 7.50"



# Compressors

## CR Body

### Copelaweld CRNQ-050E Hermetic HVAC Compressor

- **High Temperature Refrigeration Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/130**
  - R-22 (200/230 / 380/460-3-60): 58,500 BTUH (21.4 RLA / 9.6 RLA)
  - A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115
  - R-22 (200/230 / 380/460-3-60): 61,500 BTUH (21.4 RLA / 9.6 RLA)
  - R-407C (208/230-1-60): 59,600 BTUH (34.3 RLA)
  - R-407C (200/230 / 380/460-3-60): 57,000 BTUH (21.4 RLA / 9.6 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11381	CRNQ-050E-PFV-970	208/230-1-60	11.38" x 9.38" x 16.13"	1/2"	7/8"	7.50" x 7.50"
COM11382	CRNQ-050E-TF5-970	200/230-3-60	11.38" x 9.38" x 15.88"	1/2"	7/8"	7.50" x 7.50"
COM11383	CRNQ-050E-TFD-970	380/460-3-60	11.38" x 9.38" x 16.13"	1/2"	7/8"	7.50" x 7.50"

### Copelaweld CRPQ-045E Hermetic HVAC Compressor

- **High Temperature Refrigeration Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/130**
  - R-22 (200/230 / 380/460-3-60): 54,600 BTUH (19.6 RLA / 10.4 RLA)
  - A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115
  - R-22 (200/230 / 380/460-3-60): 57,000 BTUH (19.6 RLA / 10.4 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11384	CRPQ-045E-PFV-970	208/230-1-60	11.38" x 9.38" x 15.88"	1/2"	7/8"	7.50" x 7.50"
COM11385	CRPQ-045E-TF5-970	200/230-3-60	11.38" x 9.38" x 15.88"	1/2"	7/8"	7.50" x 7.50"
COM11386	CRPQ-045E-TFD-970	380/460-3-60	11.38" x 9.38" x 15.88"	1/2"	7/8"	7.50" x 7.50"

## Compliant Scroll® Air Conditioning Compressors

- 60 Hertz
- Internal motor protector
- Stub/Sweat connections standard; RL: Rotalock™ connections

### ZP Body

#### ZP20K5E Compliant Scroll Air Conditioning Compressor

- **A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115**
  - R-410A (208/230-1-60): 20,000 BTUH - (15.0 RLA)
  - R-410A (200/230-3-60 / 460-3-60): 20,000 BTUH - (7.9 RLA / 3.9 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM09572	ZP20K5E-PFV-830	208/230-1-60	9.56" x 9.56" x 15.27"	1/2"	3/4"	7.50" x 7.50"
COM10624	ZP20K5E-TF5-830	200/230-3-60	9.56" x 9.56" x 15.27"	1/2"	3/4"	7.50" x 7.50"
COM10617	ZP20K5E-TFD-830	460-3-60	9.56" x 9.56" x 15.27"	1/2"	3/4"	7.50" x 7.50"





# Compressors

## ZP24K5E Compliant Scroll Air Conditioning Compressor

- A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115  
 - R-22 (208/230-1-60): 24,000 BTUH - (14.3 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM09574	ZP24K5E-PFV-830	208/230-1-60	9.56" x 9.56" x 15.27"	1/2"	3/4"	7.50" x 7.50"

## ZP25K5E Compliant Scroll Air Conditioning Compressor

- A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115  
 - R-410A (208/230-1-60): 25,200 BTUH - (15.7 RLA)  
 R-410A (200/230-3-60 / 460-3-60): 25,200 BTUH - (9.9 RLA / 4.6 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM10608	ZP25K5E-PFV-830	208/230-1-60	9.56" x 9.56" x 15.27"	1/2"	3/4"	7.50" x 7.50"
COM10613	ZP25K5E-TF5-830	200/230-3-60	9.56" x 9.56" x 15.27"	1/2"	3/4"	7.50" x 7.50"
COM10607	ZP25K5E-TFD-830	460-3-60	9.56" x 9.56" x 15.27"	1/2"	3/4"	7.50" x 7.50"

## ZP31K5E Compliant Scroll Air Conditioning Compressor

- A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115  
 - R-410A (208/230-1-60): 31,100 BTUH - (18.6 RLA)  
 R-410A (200/230 / 460-3-60): 31,200 BTUH - (11.6 RLA / 6.4 RLA)



PFV

TF

Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM10612	ZP31K5E-PFV-830	208/230-1-60	9.56" x 9.56" x 15.27"	1/2"	3/4"	7.50" x 7.50"
COM10618	ZP31K5E-TF5-830	200/230-3-60	9.56" x 9.56" x 15.27"	1/2"	3/4"	7.50" x 7.50"
COM10605	ZP31K5E-TFD-830	460-3-60	9.56" x 9.56" x 15.27"	1/2"	3/4"	7.50" x 7.50"



# Compressors

## ZP34K5E Compliant Scroll Air Conditioning Compressor

- **A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115**
  - R-410A (208/230-1-60): 34,500 BTUH - (20.0 RLA)
  - R-410A (200/230 / 460-3-60) 34,600 BTUH - (14.7 RLA / 6.6 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM09580	ZP34K5E-PFV-830	208/230-1-60	9.56" x 9.56" x 16.94"	1/2"	7/8"	7.50" x 7.50"
COM09581	ZP34K5E-TF5-830	200/230-3-60	9.56" x 9.56" x 16.94"	1/2"	7/8"	7.50" x 7.50"
COM09582	ZP34K5E-TFD-830	460-3-60	9.56" x 9.56" x 16.94"	1/2"	7/8"	7.50" x 7.50"

## ZP38K5E Compliant Scroll Air Conditioning Compressor

- **A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115**
  - R-410A (208/230-1-60): 37,500 BTUH - (22.1 RLA)
  - R-410A (200/230-3-60): 38,000 BTUH - (15.1 RLA)
  - R-410A (460-3-60): 38,100 BTUH - (6.8 RLA)



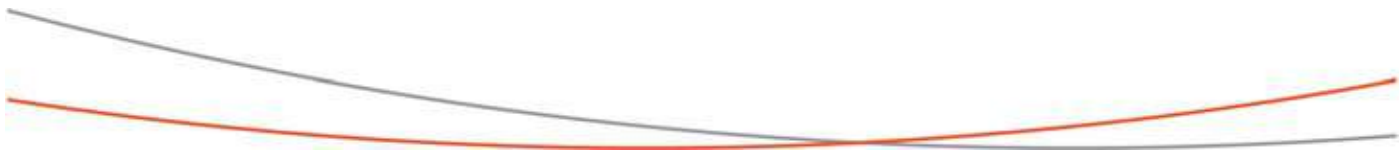
Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11573	ZP38K5E-PFV-830	208/230-1-60	9.56" x 9.56" x 16.94"	1/2"	7/8"	7.50" x 7.50"
COM11577	ZP38K5E-TF5-830	200/230-3-60	9.56" x 9.56" x 16.94"	1/2"	7/8"	7.50" x 7.50"
COM11582	ZP38K5E-TFD-830	460-3-60	9.56" x 9.56" x 16.94"	1/2"	7/8"	7.50" x 7.50"

## ZP42K5E Compliant Scroll Air Conditioning Compressor

- **A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115**
  - R-410A (208/230-1-60): 42,000 BTUH - (24.3 RLA)
  - R-410A (200/230-3-60): 42,200 BTUH - (15.3 RLA)
  - R-410A (460-3-60): 41,900 BTUH - (6.9 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11574	ZP42K5E-PFV-830	208/230-1-60	9.56" x 9.56" x 16.94"	1/2"	7/8"	7.50" x 7.50"
COM11578	ZP42K5E-TF5-830	200/230-3-60	9.56" x 9.56" x 16.94"	1/2"	7/8"	7.50" x 7.50"
COM11583	ZP42K5E-TFD-830	460-3-60	9.56" x 9.56" x 16.94"	1/2"	7/8"	7.50" x 7.50"



# Compressors

## ZP49K5E Compliant Scroll Air Conditioning Compressor

- A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115
  - R-410A (208/230-1-60): 49,400 BTUH - (27.9 RLA)
  - R-410A (200/230-3-60): 49,700 BTUH - (17.7 RLA)
  - R-410A (460-3-60): 50,000 BTUH - (7.9 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11575	ZP49K5E-PFV-830	208/230-1-60	9.56" x 9.56" x 16.94"	1/2"	7/8"	7.50" x 7.50"
COM11579	ZP49K5E-TF5-830	200/230-3-60	9.56" x 9.56" x 16.94"	1/2"	7/8"	7.50" x 7.50"
COM11584	ZP49K5E-TFD-830	460-3-60	9.56" x 9.56" x 16.94"	1/2"	7/8"	7.50" x 7.50"

## ZP54K5E Compliant Scroll Air Conditioning Compressor

- A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115
  - R-410A (208/230-1-60): 54,000 BTUH - (29.3 RLA)
  - R-410A (200/230 / 460-3-60): 54,300 BTUH - (17.4 RLA / 8.6 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM10609	ZP54K5E-PFV-830	208/230-1-60	9.56" x 9.56" x 16.94"	1/2"	7/8"	7.50" x 7.50"
COM10603	ZP54K5E-TF5-830	200/230-3-60	9.56" x 9.56" x 16.94"	1/2"	7/8"	7.50" x 7.50"
COM10610	ZP54K5E-TFD-830	460-3-60	9.56" x 9.56" x 16.94"	1/2"	7/8"	7.50" x 7.50"

## ZP57K5E Compliant Scroll Air Conditioning Compressor

- A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115
  - R-410A (208/230-1-60): 57,000 BTUH - (31.6 RLA)
  - R-410A (200/230 / 460-3-60): 57,500 BTUH - (21.4 RLA / 9.7 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11576	ZP57K5E-PFV-930	208/230-1-60	9.56" x 9.56" x 17.36"	1/2"	7/8"	7.50" x 7.50"
COM10723	ZP57K5E-TF5-830	200/230-3-60	9.56" x 9.56" x 17.36"	1/2"	7/8"	7.50" x 7.50"
COM10595	ZP57K5E-TFD-830	460-3-60	9.56" x 9.56" x 17.36"	1/2"	7/8"	7.50" x 7.50"



# Compressors

## ZP72KCE Compliant Scroll Air Conditioning Compressor

- **A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115**  
 - R-410A (200/230 / 460-3-60): 72,000 BTUH - (25.9 RLA / 12.5 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11580	ZP72KCE-TF5-950	200/230-3-60	9.69" x 9.69" x 17.91"	1/2"	7/8"	7.50" x 7.50"
COM11585	ZP72KCE-TFD-950	460-3-60	9.69" x 9.69" x 17.91"	1/2"	7/8"	7.50" x 7.50"

## ZP83KCE Compliant Scroll Air Conditioning Compressor

- **A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115**  
 - R-410A (200/230 / 460-3-60): 83,000 BTUH - (27.9 RLA / 13.6 RLA)



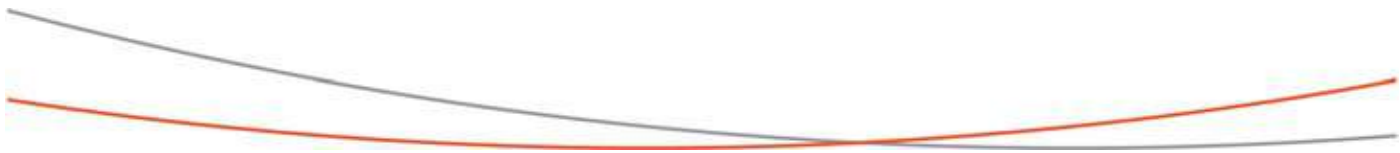
Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM09081	ZP83KCE-TF5-950	200/230-3-60	9.69" x 9.69" x 17.91"	1/2"	7/8"	7.50" x 7.50"
COM09082	ZP83KCE-TFD-950	460-3-60	9.69" x 9.69" x 17.91"	1/2"	7/8"	7.50" x 7.50"

## ZP90KCE Compliant Scroll Air Conditioning Compressor

- **A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115**  
 - R-410A (200/230 / 460-3-60): 90,500 BTUH - (32.9 RLA / 16.4 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11581	ZP90KCE-TF5-950	200/230-3-60	10.38" x 11.23" x 18.75"	7/8"	1-1/8"	7.50" x 7.50"
COM08991	ZP90KCE-TFD-950	460-3-60	10.38" x 11.23" x 18.75"	7/8"	1-1/8"	7.50" x 7.50"



# Compressors

## ZP103KCE Compliant Scroll Air Conditioning Compressor

- A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115  
 - R-410A (200/230 / 460-3-60): 105,000 BTUH - (33.6 RLA / 18.6 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM08840	ZP103KCE-TF5-950	200/230-3-60	10.38" x 11.23" x 21.00"	7/8"	1-3/8"	7.50" x 7.50"
COM08841	ZP103KCE-TFD-950	460-3-60	10.38" x 11.23" x 21.00"	7/8"	1-3/8"	7.50" x 7.50"

## ZP120KCE Compliant Scroll Air Conditioning Compressor

- A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115  
 - R-410A (200/230 / 460-3-60): 123,000 BTUH - (37.1 RLA / 20.0 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM08831	ZP120KCE-TF5-950	200/230-3-60	10.38" x 11.23" x 21.00"	7/8"	1-3/8"	7.50" x 7.50"
COM08844	ZP120KCE-TFD-950	460-3-60	10.38" x 11.23" x 21.00"	7/8"	1-3/8"	7.50" x 7.50"

## ZP137KCE Compliant Scroll Air Conditioning Compressor

- A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115  
 - R-410A (200/230-3-60): 137,000 BTUH - (53.6 RLA)  
 - R-410A (460-3-60): 135,000 BTUH - (20.7 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM08849	ZP137KCE-TF5-950	200/230-3-60	10.38" x 11.23" x 21.00"	7/8"	1-3/8"	7.50" x 7.50"
COM08850	ZP137KCE-TFD-950	460-3-60	10.38" x 11.23" x 21.00"	7/8"	1-3/8"	7.50" x 7.50"



# Compressors

## ZP182KCE Compliant Scroll Air Conditioning Compressor

- A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115  
 - R-410A (460-3-60): 183,000 BTUH - (30.0 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11482	ZP182KCE-TED-965	460-3-60	12.93" x 11.73" x 22.21"	1-1/4"RL	1-3/4"RL	7.50" x 7.50"

## ZP385KCE Compliant Scroll Air Conditioning Compressor

- A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115  
 - R-410A (208/230 / 460-3-60): 385,000 BTUH - (122.1 RLA / 60.7 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM10882	ZP385KCE-TEC-966	208/230-3-60	17.60" x 16.80" x 28.50"	1-3/4"RL	2-1/4"RL	10.5" x 10.5"
COM11538	ZP385KCE-TED-966	460-3-60	17.60" x 16.80" x 28.50"	1-3/4"RL	2-1/4"RL	10.5" x 10.5"

## ZR Body

### ZR11M3E Compliant Scroll Air Conditioning Compressor

- A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115  
 - R-22 (208/230 / 460-3-60): 108,000 BTUH - (33.3 RLA / 17.0 RLA)  
 - R-134a (208/230 / 460-3-60): 73,600 BTUH - (33.3 RLA / 17.0 RLA)  
 - R-407C (208/230 / 460-3-60): 105,000 BTUH - (38.2 RLA / 18.6 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11445	ZR11M3E-TWC-961	208/230-3-60	12.57" x 14.06" x 21.17"	1-1/4"RL	1-3/4"RL	8.65" x 8.65"
COM11446	ZR11M3E-TWD-961	460-3-60	12.57" x 14.06" x 21.17"	1-1/4"RL	1-3/4"RL	8.65" x 8.65"



# Compressors

## ZR12M3E Compliant Scroll Air Conditioning Compressor

- **A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115**
  - R-22 (208/230 / 460-3-60): 125,000 BTUH - (36.4 RLA / 18.4 RLA)
  - R-134a (208/230 / 460-3-60): 85,000 BTUH - (36.4 RLA / 18.4 RLA)
  - R-407C (208/230 / 460-3-60): 122,000 BTUH - (41.1 RLA / 22.1 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11447	ZR12M3E-TWC-961	208/230-3-60	12.57" x 14.06" x 21.17"	1-1/4"RL	1-3/4"RL	8.65" x 8.65"
COM11448	ZR12M3E-TWD-961	460-3-60	12.57" x 14.06" x 21.17"	1-1/4"RL	1-3/4"RL	8.65" x 8.65"

## ZR16K5E Compliant Scroll Air Conditioning Compressor

- **A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115**
  - R-407C (208/230-1-60): 14,650 BTUH - (9.3 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11572	ZR16K5E-PFV-800	208/230-1-60	9.50" x 9.50" x 15.86"	1/2"	3/4"	7.50" x 7.50"

## ZR16M3E Compliant Scroll Air Conditioning Compressor

- **A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115**
  - R-22 (208/230 / 460-3-60): 154,000 BTUH - (48.9 RLA / 27.2 RLA)
  - R-134a (208/230 / 460-3-60): 105,000 BTUH - (48.9 RLA / 27.2 RLA)
  - R-407C (208/230 / 460-3-60): 149,000 BTUH - (48.9 RLA / 27.2 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11449	ZR16M3E-TWC-961	208/230-3-60	12.57" x 14.06" x 21.47"	1-1/4"RL	1-3/4"RL	8.65" x 8.65"
COM11450	ZR16M3E-TWD-961	460-3-60	12.57" x 14.06" x 21.47"	1-1/4"RL	1-3/4"RL	8.65" x 8.65"



# Compressors

## ZR18K5E Compliant Scroll Air Conditioning Compressor

- A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115  
 - R-407C (208/230-1-60): 17,300 BTUH - (10.7 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11262	ZR18K5E-PFV-800	208/230-1-60	9.50" x 9.50" x 15.86"	1/2"	3/4"	7.50" x 7.50"

## ZR19M3E Compliant Scroll Air Conditioning Compressor

- A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115  
 - R-134a (208/230 / 460-3-60): 126,000 BTUH - (55.0 RLA / 32.1 RLA)  
 - R-407C (208/230 / 460-3-60): 185,000 BTUH - (55.0 RLA / 32.1 RLA)



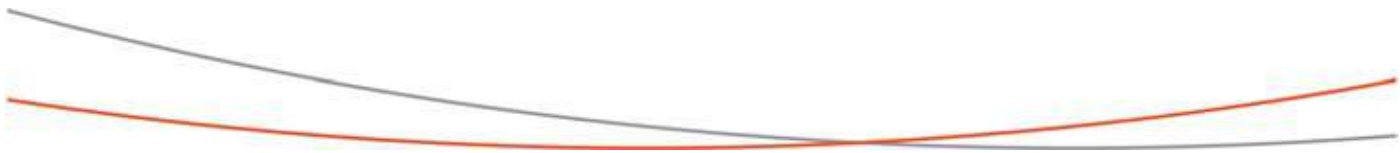
Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11451	ZR19M3E-TWC-961	208/230-3-60	12.63" x 13.75" x 23.30"	1-3/4"RL	2-1/4"RL	8.65" x 8.65"
COM11485	ZR19M3E-TWD-961	460-3-60	12.63" x 13.75" x 23.30"	1-3/4"RL	2-1/4"RL	8.65" x 8.65"

## ZR21K5E Compliant Scroll Air Conditioning Compressor

- A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115  
 - R-407C (208/230-1-60): 20,200 BTUH - (12.0 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11263	ZR21K5E-PFV-800	208/230-1-60	9.50" x 9.50" x 15.86"	1/2"	3/4"	7.50" x 7.50"





# Compressors

## ZR25K5E Compliant Scroll Air Conditioning Compressor

- **A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115**
  - R-22 (200/230 / 460-3-60): 25,300 BTUH - (8.9 RLA / 4.6 RLA)
  - R-407C (208/230-1-60): 24,300 BTUH - (15.0 RLA)
  - R-407C (200/230-3-60 / 460-3-60): 24,400 BTUH - (8.9 RLA / 4.6 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11165	ZR25K5E-PFV-800	208/230-1-60	9.50" x 9.50" x 15.86"	1/2"	3/4"	7.50" x 7.50"
COM11294	ZR25K5E-TF5-800	200/230-3-60	9.50" x 9.50" x 15.86"	1/2"	3/4"	7.50" x 7.50"
COM11309	ZR25K5E-TFD-800	460-3-60	9.50" x 9.50" x 15.86"	1/2"	3/4"	7.50" x 7.50"

## ZR28K5E Compliant Scroll Air Conditioning Compressor

- **A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115**
  - R-22 (200/230 / 460-3-60): 28,400 BTUH - (11.1 RLA / 5.7 RLA)
  - R-407C (208/230-1-60) 27,300 BTUH - (15.7 RLA)
  - R-407C (200/230 / 460-3-60) 27,400 BTUH - (11.1 RLA / 5.7 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11264	ZR28K5E-PFV-800	208/230-1-60	9.50" x 9.50" x 15.86"	1/2"	3/4"	7.50" x 7.50"
COM11295	ZR28K5E-TF5-800	200/230-3-60	9.50" x 9.50" x 15.86"	1/2"	3/4"	7.50" x 7.50"
COM11310	ZR28K5E-TFD-800	460-3-60	9.50" x 9.50" x 15.86"	1/2"	3/4"	7.50" x 7.50"

## ZR32K5E Compliant Scroll Air Conditioning Compressor

- **A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115**
  - R-22 (200/230 / 460-3-60): 32,600 BTUH - (12.0 RLA / 6.4 RLA)
  - R-407C (208/230-1-60): 31,300 BTUH - (17.1 RLA)
  - R-407C (200/230 / 460-3-60): 31,400 BTUH - (12.0 RLA / 6.4 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11166	ZR32K5E-PFV-800	208/230-1-60	9.50" x 9.50" x 15.86"	1/2"	3/4"	7.50" x 7.50"
COM11296	ZR32K5E-TF5-800	200/230-3-60	9.50" x 9.50" x 15.86"	1/2"	3/4"	7.50" x 7.50"
COM11311	ZR32K5E-TFD-800	460-3-60	9.50" x 9.50" x 15.86"	1/2"	3/4"	7.50" x 7.50"



# Compressors

## ZR38K5E Compliant Scroll Air Conditioning Compressor

- **A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115**
  - R-22 (200/230 / 460-3-60): 38,000 BTUH - (13.6 RLA / 6.4 RLA)
  - R-407C (208/230-1-60): 36,600 BTUH - (21.4 RLA)
  - R-407C (200/230 / 460-3-60): 36,900 BTUH - (13.6 RLA / 6.4 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11167	ZR38K5E-PFV-800	208/230-1-60	9.69" x 9.69" x 16.94"	1/2"	7/8"	7.50" x 7.50"
COM11297	ZR38K5E-TF5-800	200/230-3-60	9.69" x 9.69" x 19.94"	1/2"	7/8"	7.50" x 7.50"
COM11312	ZR38K5E-TFD-800	460-3-60	9.69" x 9.69" x 19.94"	1/2"	7/8"	7.50" x 7.50"

## ZR42K5E Compliant Scroll Air Conditioning Compressor

- **A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115**
  - R-22 (200/230 / 460-3-60): 42,200 BTUH - (14.3 RLA / 6.4 RLA)
  - R-407C (208/230-1-60): 40,800 BTUH - (22.1 RLA)
  - R-407C (200/230 / 460 / 575-3-60): 41,400 BTUH - (14.3 RLA / 6.4 RLA / 5.3 RLA)



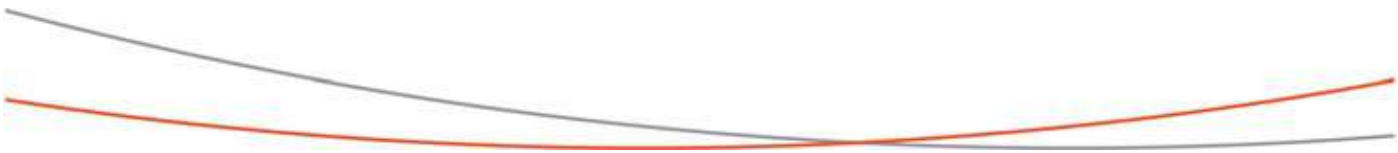
Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11168	ZR42K5E-PFV-800	208/230-1-60	9.69" x 9.69" x 19.94"	1/2"	7/8"	7.50" x 7.50"
COM11298	ZR42K5E-TF5-800	200/230-3-60	9.69" x 9.69" x 19.94"	1/2"	7/8"	7.50" x 7.50"
COM11313	ZR42K5E-TFD-800	460-3-60	9.69" x 9.69" x 19.94"	1/2"	7/8"	7.50" x 7.50"
COM11324	ZR42K5E-TFE-800	575-3-60	9.69" x 9.69" x 19.94"	1/2"	7/8"	7.50" x 7.50"

## ZR48K5E Compliant Scroll Air Conditioning Compressor

- **A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115**
  - R-22 (200/230 / 460-3-60): 48,200 BTUH - (17.1 RLA / 7.9 RLA)
  - R-407C (208/230-1-60): 46,200 BTUH - (24.3 RLA)
  - R-407C (200/230 / 460 / 575-3-60): 46,800 BTUH - (17.1 RLA / 7.9 RLA / 5.8 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11169	ZR48K5E-PFV-800	208/230-1-60	9.69" x 9.69" x 16.94"	1/2"	7/8"	7.50" x 7.50"
COM11172	ZR48K5E-TF5-800	200/230-3-60	9.69" x 9.69" x 16.94"	1/2"	7/8"	7.50" x 7.50"
COM11177	ZR48K5E-TFD-800	460-3-60	9.69" x 9.69" x 16.94"	1/2"	7/8"	7.50" x 7.50"
COM11325	ZR48K5E-TFE-800	575-3-60	9.69" x 9.69" x 16.94"	1/2"	7/8"	7.50" x 7.50"



# Compressors

## ZR54K5E Compliant Scroll Air Conditioning Compressor

- A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115
  - R-22 (200/230 / 460-3-60): 53,500 BTUH - (17.1 RLA / 7.9 RLA)
  - R-407C (208/230-1-60): 50,100 BTUH - (28.2 RLA)
  - R-407C (200/230 / 460 / 575-3-60): 52,200 BTUH - (17.1 RLA / 7.9 RLA / 5.9 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11290	ZR54K5E-PFV-800	208/230-1-60	9.69" x 9.69" x 16.94"	1/2"	7/8"	7.50" x 7.50"
COM11299	ZR54K5E-TF5-800	200/230-3-60	9.69" x 9.69" x 16.94"	1/2"	7/8"	7.50" x 7.50"
COM10632	ZR54K5E-TFD-800	460-3-60	9.69" x 9.69" x 16.94"	1/2"	7/8"	7.50" x 7.50"
COM11326	ZR54K5E-TFE-800	575-3-60	9.69" x 9.69" x 16.94"	1/2"	7/8"	7.50" x 7.50"

## ZR57K3E Compliant Scroll Air Conditioning Compressor

- A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115
  - R-22 (200/230 / 460 / 575-3-60): 58,500 BTUH - (19.3 RLA / 9.1 RLA / 7.9 RLA)
  - R-407C (208/230-1-60): 55,500 BTUH - (32.1 RLA)
  - R-407C (200/230 / 460 / 575-3-60): 54,900 BTUH - (19.3 RLA / 9.1 RLA / 7.9 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11170	ZR57K3E-PFV-930	208/230-1-60	9.69" x 9.69" x 17.75"	1/2"	7/8"	7.50" x 7.50"
COM11173	ZR57K3E-TF5-930	200/230-3-60	9.69" x 9.69" x 17.24"	1/2"	7/8"	7.50" x 7.50"
COM11178	ZR57K3E-TFD-930	460-3-60	9.69" x 9.69" x 17.24"	1/2"	7/8"	7.50" x 7.50"
COM11327	ZR57K3E-TFE-930	575-3-60	9.69" x 9.69" x 17.24"	1/2"	7/8"	7.50" x 7.50"

## ZR61K3E Compliant Scroll Air Conditioning Compressor

- A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115
  - R-22 (200/230 / 460 / 575-3-60): 62,000 BTUH - (19.3 RLA / 9.1 RLA / 7.9 RLA)
  - R-407C (208/230-1-60): 59,400 BTUH - (32.1 RLA)
  - R-407C (200/230 / 460 / 575-3-60): 58,700 BTUH - (19.3 RLA / 9.1 RLA / 7.9 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11171	ZR61K3E-PFV-930	208/230-1-60	9.69" x 9.69" x 17.24"	1/2"	7/8"	7.50" x 7.50"
COM11174	ZR61K3E-TF5-930	200/230-3-60	9.69" x 9.69" x 17.24"	1/2"	7/8"	7.50" x 7.50"
COM11179	ZR61K3E-TFD-930	460-3-60	9.69" x 9.69" x 17.24"	1/2"	7/8"	7.50" x 7.50"
COM11328	ZR61K3E-TFE-930	575-3-60	9.69" x 9.69" x 17.24"	1/2"	7/8"	7.50" x 7.50"



# Compressors

## ZR68KCE Compliant Scroll Air Conditioning Compressor



- **A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115**
  - R-22 (200/230 / 460 / 575-3-60): 70,000 BTUH - (20.7 RLA / 10.0 RLA / 8.2 RLA)
  - R-134a (208/230-1-60): 46,900 BTUH - (32.1 RLA)
  - R-134a (460 / 575-3-60): 47,200 BTUH - (10 RLA / 8.2 RLA)
  - R-407C (208/230-1-60): 65,800 BTUH - (32.1 RLA)
  - R-407C (200/230 / 460 / 575-3-60): 68,600 BTUH - (20.7 RLA / 10.0 RLA / 8.2 RLA)

Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11293	ZR68KCE-PFV-950	208/230-1-60	9.69" x 9.69" x 17.75"	1/2"	7/8"	7.50" x 7.50"
COM08728	ZR68KCE-TF5-930	200/230-3-60	9.69" x 9.69" x 17.75"	1/2"	7/8"	7.50" x 7.50"
COM11180	ZR68KCE-TFD-930	460-3-60	9.69" x 9.69" x 17.75"	1/2"	7/8"	7.50" x 7.50"
COM11329	ZR68KCE-TFE-930	575-3-60	9.69" x 9.69" x 17.75"	1/2"	7/8"	7.50" x 7.50"

## ZR72KCE Compliant Scroll Air Conditioning Compressor



- **A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115**
  - R-22 (200/230 / 460 / 575-3-60): 73,500 BTUH - (20.7 RLA / 10 RLA / 8.2 RLA)
  - R-134a (200/230 / 575-3-60): 49,400 BTUH - (20.7 RLA / 8.2 RLA)
  - R-134a (460-3-60): 49,000 BTUH - (10.0 RLA)
  - R-407C (200/230 / 460 / 575-3-60): 72,300 BTUH - (20.7 RLA / 10.0 RLA / 8.2 RLA)

Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11175	ZR72KCE-TF5-950	200/230-3-60	9.69" x 9.69" x 17.75"	1/2"	7/8"	7.50" x 7.50"
COM11181	ZR72KCE-TFD-950	460-3-60	9.69" x 9.69" x 17.75"	1/2"	7/8"	7.50" x 7.50"
COM11330	ZR72KCE-TFE-930	575-3-60	9.69" x 9.69" x 17.75"	1/2"	7/8"	7.50" x 7.50"

## ZR81KCE Compliant Scroll Air Conditioning Compressor



- **A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115**
  - R-22 (200/230 / 460 / 575-3-60): 82,000 BTUH - (25.0 RLA / 12.1 RLA / 9.3 RLA)
  - R-134a (200/230 / 575-3-60 ): 54,500 BTUH - (25.0 RLA / 9.3 RLA)
  - R-134a (460-3-60): 55,000 BTUH - (12.1 RLA)
  - R-407C (200/230): 78,600 BTUH (25.0 RLA)
  - R-407C (460-3-60 ): 78,400 BTUH - (12.1 RLA)
  - R-407C (575-3-60): 79,200 BTUH - (9.3 RLA)

Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11586	ZR81KCE-TF5-950	200/230-3-60	9.69" x 9.69" x 17.75"	3/4"	7/8"	7.50" x 7.50"
COM07364	ZR81KCE-TFD-950	460-3-60	9.69" x 9.69" x 17.75"	3/4"	7/8"	7.50" x 7.50"
COM11331	ZR81KCE-TFE-950	575-3-60	9.69" x 9.69" x 17.75"	3/4"	7/8"	7.50" x 7.50"



# Compressors

## ZR84KCE Compliant Scroll Air Conditioning Compressor



- **A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115**
  - R-134a (200/230 / 460-3-60) 55,400 BTUH - (26.8 RLA / 12.9 RLA)
  - R-407C (200/230 / 460-3-60) 81,500 BTUH - (28.6 RLA / 14.3 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11303	ZR84KCE-TF5-950	200/230-3-60	10.38" x 11.23" x 18.75"	7/8"	1-1/8"	7.50" x 7.50"
COM10923	ZR84KCE-TFD-950	460-3-60	10.38" x 11.23" x 18.75"	7/8"	1-1/8"	7.50" x 7.50"

## ZR94KCE Compliant Scroll Air Conditioning Compressor



- **A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115**
  - R-134a (200/230 / 460 / 575-3-60): 64,000 BTUH - (28.2 RLA / 12.9 RLA / 11.4 RLA)
  - R-407C (200/230 / 460 / 575-3-60): 94,000 BTUH - (32.1 RLA / 16.4 RLA / 12.0 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11176	ZR94KCE-TF5-950	200/230-3-60	10.38" x 11.23" x 18.75"	7/8"	1-1/8"	7.50" x 7.50"
COM11182	ZR94KCE-TFD-950	460-3-60	10.38" x 11.23" x 18.75"	7/8"	1-1/8"	7.50" x 7.50"
COM11332	ZR94KCE-TFE-950	575-3-60	10.38" x 11.23" x 18.75"	7/8"	1-1/8"	7.50" x 7.50"

## ZR108KCE Compliant Scroll Air Conditioning Compressor



- **A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115**
  - R-134a (200/230 / 460-3-60 / 575-3-60): 72,100 BTUH - (31.4 RLA / 15.7 RLA / 12.5 RLA)
  - R-407C (200/230 / 460-3-60 / 575-3-60 ): 106,000 BTUH - (33.6 RLA / 17.3 RLA / 13.5 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM08725	ZR108KCE-TF5-950	200/230-3-60	10.38" x 11.23" x 21.00"	7/8"	1-3/8"	7.50" x 7.50"
COM11317	ZR108KCE-TFD-950	460-3-60	10.38" x 11.23" x 21.00"	7/8"	1-3/8"	7.50" x 7.50"
COM11333	ZR108KCE-TFE-950	575-3-60	10.38" x 11.23" x 21.00"	7/8"	1-3/8"	7.50" x 7.50"



# Compressors

## ZR125KCE Compliant Scroll Air Conditioning Compressor

- **A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115**
  - R-134a (200/230 / 460 / 575-3-60): 85,000 BTUH - (39.3 RLA / 20.0 RLA / 12.9 RLA)
  - R-407C (200/230 / 460 / 575-3-60): 125,000 BTUH - (41.4 RLA / 19.2 RLA / 13.8 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM08727	ZR125KCE-TF5-950	200/230-3-60	10.38" x 11.23" x 21.00"	7/8"	1-3/8"	7.50" x 7.50"
COM08734	ZR125KCE-TFD-950	460-3-60	10.38" x 11.23" x 21.00"	7/8"	1-3/8"	7.50" x 7.50"
COM11334	ZR125KCE-TFE-950	575-3-60	10.38" x 11.23" x 21.00"	7/8"	1-3/8"	7.50" x 7.50"

## ZR144KCE Compliant Scroll Air Conditioning Compressor

- **A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115**
  - R-134a (200/230-3-60): 96,900 BTUH - (43.9 RLA)
  - R-134a (460-3-60) 96,400 - (17.5 RLA)
  - R-134a (575-3-60) 96,000 - (14.6 RLA)
  - R-407C (200/230 / 460 / 575-3-60 ): 142,000 BTUH - (47.1 RLA / 20.7 RLA / 15.9 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11304	ZR144KCE-TF5-950	200/230-3-60	10.38" x 11.23" x 21.00"	7/8"	1-3/8"	7.50" x 7.50"
COM11183	ZR144KCE-TFD-950	460-3-60	10.38" x 11.23" x 21.00"	7/8"	1-3/8"	7.50" x 7.50"
COM11335	ZR144KCE-TFE-950	575-3-60	10.38" x 11.23" x 21.00"	7/8"	1-3/8"	7.50" x 7.50"

## ZR250KCE Compliant Scroll Air Conditioning Compressor

- **A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115**
  - R-22 (208/230 / 460-3-60): 250,000 BTUH - (81.4 RLA / 33.6 RLA)
  - R-134a (208/230 / 460-3-60): 166,000 BTUH - (81.4 RLA / 33.6 RLA)
  - R-407C (208/230 / 460-3-60): 240,000 BTUH - (81.4 RLA / 37.9 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11486	ZR250KCE-TEC-951	208/230-3-60	16.80" x 14.80" x 28.60"	1-3/8"	1-5/8"	10.5" x 10.5"
COM11487	ZR250KCE-TED-951	460-3-60	16.80" x 14.80" x 28.60"	1-3/8"	1-5/8"	10.5" x 10.5"



# Compressors

## ZR300KCE Compliant Scroll Air Conditioning Compressor

- A/C Conditions - Evap/Cond/Return Gas/Liquid: 45/130/65/115
  - R-134a (208/230 / 460-3-60): 194,000 BTUH - (81.4 RLA / 39.3 RLA)
  - R-407C (208/230 / 460-3-60): 293,000 BTUH - (100.0 RLA / 48.6 RLA)



Part #	Mfg #	Electrical	Max Dimensions L x W x H	Stub Tube Conn Discharge	Stub Tube Conn Suction	Mntg Dim L x W
COM11488	ZR300KCE-TEC-965	208/230-3-60	17.60" x 16.80" x 28.50"	1-3/4"RL	2-19/32"RL	10.5" x 10.5"
COM11489	ZR300KCE-TED-965	460-3-60	17.60" x 16.80" x 28.50"	1-3/4"RL	2-19/32"RL	10.5" x 10.5"

## Scroll Compressors

### SM Series Universal OEM Replacement Scroll Compressor

- R-22/R-417A-160SZ Refrigerant
- Scroll, mineral oil
- Internal thermostat, external protector needed
- CE Certified
- UL Listed



Part #	Mfg #	Electrical	MBTUH	Stub Tube Conn (ID) Dischg, Suc	MCC	Dimensions		Net Wt
						Foot Print	Unit Ht	
COM11161	SM084-4VI	460-3-60	84	3/4", 1-1/8"	17A	11.2" x 11.2"	20"	141 lbs
COM10205	SM090-3VI	200/230-3-60	90	3/4", 1-1/8"	35A	11.2" x 11.2"	20"	143 lbs
COM09276	SM090-4VI	460-3-60	90	3/4", 1-1/8"	18.5A	11.2" x 11.2"	20"	143 lbs
COM11158	SM100-3VI	200/230-3-60	94	3/4", 1-1/8"	38A	11.2" x 11.2"	20"	143 lbs
COM11162	SM100-4VI	460-3-60	94	3/4", 1-1/8"	19A	11.2" x 11.2"	20"	143 lbs
COM11159	SM110-3VI	200/230-3-60	108	7/8", 1-3/8"	45A	11.2" x 11.2"	22"	161 lbs
COM11163	SM110-4VI	460-3-60	108	7/8", 1-3/8"	22A	11.2" x 11.2"	22"	161 lbs
COM08952	SM115-3QAI	200/230-3-60	115	7/8", 1-3/8"	52A*	14.5" x 11.2"	22.8"	172 lbs
COM08953	SM115-4QAI	460-3-60	115	7/8", 1-3/8"	25A*	14.5" x 11.2"	22.8"	172 lbs
COM11160	SM120-3VI	200/230-3-60	125	7/8", 1-3/8"	50A	11.2" x 11.2"	22"	161 lbs
COM11164	SM120-4VI	460-3-60	125	7/8", 1-3/8"	29A	11.2" x 11.2"	22"	161 lbs
COM08954	SM125-3QAI	200/230-3-60	126	7/8", 1-3/8"	52A*	14.5" x 11.2"	22.8"	172 lbs
COM08955	SM125-4QAI	460-3-60	126	7/8", 1-3/8"	25A*	14.5" x 11.2"	22.8"	172 lbs
COM09320	SM160-3CBI	200/230-3-60	163	1-1/8", 1-5/8"	61A*	14.5" x 11.2"	24.8"	198 lbs
COM09639	SM160-4CBI	460-3-60	163	1-1/8", 1-5/8"	29A*	14.5" x 11.2"	24.8"	198 lbs
COM08956	SM175-3QAI	200/230-3-60	174	1-1/8", 1-5/8"	75A*	14.6" x 13.6"	26.7"	220 lbs
COM08957	SM175-4QAI	460-3-60	174	1-1/8", 1-5/8"	35A*	14.6" x 13.6"	26.7"	220 lbs
COM08958	SM185-3QAI	200/230-3-60	189	1-1/8", 1-5/8"	75A*	14.6" x 13.6"	26.7"	220 lbs
COM08959	SM185-4QAI	460-3-60	189	1-1/8", 1-5/8"	35A*	14.6" x 13.6"	26.7"	220 lbs

\*MMT Rating







# Compressors

## Scroll Compressors



Part #	Electrical	Tons	Nom BTUH	Connections Dischg, Suction	Dimensions	
					Diameter	Footprint
SFCOM072-230-2MSN0C	230-3-60	6	71,780	5/8", 1-1/8"	8.4"	8.5" x 8.5"
SFCOM084-230-2MSN0C	230-3-60	7	87,300	5/8", 1-1/8"	8.4"	8.5" x 8.5"
SFCOM096-230-2MSN0C	230-3-60	8	97,000	7/8", 1-3/8"	9"	8.5" x 8.5"
SFCOM108-230-2MSN0C	230-3-60	9	113,975	7/8", 1-3/8"	9"	8.5" x 8.5"
SFCOM110-230-2MSN0A	230-3-60	9	113,975	7/8", 1-3/8"	10"	8.5" x 12"
SFCOM120-230-2MSN0C	230-3-60	10	121,250	7/8", 1-3/8"	9"	8.5" x 8.5"
SFCOM125-230-2MSN0A	230-3-60	10	121,250	7/8", 1-3/8"	10"	8.5" x 12"
SFCOM144-230-2MSN0A	230-3-60	12.5	148,895	1-1/8", 1-5/8"	12.5"	8.5" x 12"
SFCOM168-230-2MSN0A	230-3-60	14	168,780	1-1/8", 1-5/8"	12.5"	8.5" x 12"
SFCOM180-230-2MSN0A	230-3-60	15	179,450	1-1/8", 1-5/8"	12.5"	8.5" x 12"
SFCOM072-460-2MSN0C	460-3-60	6	71,780	5/8", 1-1/8"	8.4"	8.5" x 8.5"
SFCOM084-460-2MSN0C	460-3-60	7	87,300	5/8", 1-1/8"	8.4"	8.5" x 8.5"
SFCOM096-460-2MSN0C	460-3-60	8	97,000	7/8", 1-3/8"	9"	8.5" x 8.5"
SFCOM108-460-2MSN0C	460-3-60	9	113,975	7/8", 1-3/8"	9"	8.5" x 8.5"
SFCOM110-460-2MSN0A	460-3-60	9	113,975	7/8", 1-3/8"	10"	8.5" x 12"
SFCOM120-460-2MSN0C	460-3-60	10	121,250	7/8", 1-3/8"	9"	8.5" x 8.5"
SFCOM125-460-2MSN0A	460-3-60	10	121,250	7/8", 1-3/8"	10"	8.5" x 12"
SFCOM144-460-2MSN0A	460-3-60	12.5	148,895	1-1/8", 1-5/8"	12.5"	8.5" x 12"
SFCOM168-460-2MSN0A	460-3-60	14	168,780	1-1/8", 1-5/8"	12.5"	8.5" x 12"
SFCOM180-460-2MSN0A	460-3-60	15	179,450	1-1/8", 1-5/8"	12.5"	8.5" x 12"
SFCOM072-575-2MSN0C	575-3-60	6	71,780	5/8", 1-1/8"	8.4"	8.5" x 8.5"
SFCOM084-575-2MSN0C	575-3-60	7	87,300	5/8", 1-1/8"	8.4"	8.5" x 8.5"
SFCOM096-575-2MSN0C	575-3-60	8	97,000	7/8", 1-3/8"	9"	8.5" x 8.5"
SFCOM108-575-2MSN0C	575-3-60	9	113,975	7/8", 1-3/8"	9"	8.5" x 8.5"
SFCOM110-575-2MSN0A	575-3-60	9	113,975	7/8", 1-3/8"	10"	8.5" x 12"
SFCOM120-575-2MSN0C	575-3-60	10	121,250	7/8", 1-3/8"	9"	8.5" x 8.5"
SFCOM125-575-2MSN0A	575-3-60	10	121,250	7/8", 1-3/8"	10"	8.5" x 12"
SFCOM144-575-2MSN0A	575-3-60	12.5	148,895	1-1/8", 1-5/8"	12.5"	8.5" x 12"
SFCOM168-575-2MSN0A	575-3-60	14	168,780	1-1/8", 1-5/8"	12.5"	8.5" x 12"
SFCOM180-575-2MSN0A	575-3-60	15	179,450	1-1/8", 1-5/8"	12.5"	8.5" x 12"



# Compressors

## Reciprocating Compressors

### MT Series R-22 Reciprocating Compressor

- For medium or high-temperature applications
- Refrigerant: R-22 or R417A with a polyester lubricant (optional)
- Service temperature: 122° to -31°F
- Service pressure: 267 psig
- CE Certified
- UL Listed



### Single 1-Cylinder Compressor

Part #	Mfg #	Electrical	Nom MBTUH	Stub Tube Conn (ID) Dischg, Suc	MCC	Dimensions		Net Wt
						Foot Print	Unit Ht	
COM11387	MT18-1VI	208/230-1-60	18	3/8", 1/2"	13A	8.82"	14.1"	48.5 lbs
COM11396	MT18-3VI	200/230-3-60	18	3/8", 1/2"	9A	8.82"	14.1"	48.5 lbs
COM11407	MT18-4VI	460-3-60	18	3/8", 1/2"	5A	8.82"	14.1"	48.5 lbs
COM11388	MT22-1VI	208/230-1-60	22	1/2", 5/8"	17A	8.82"	14.1"	51 lbs
COM11397	MT22-3VI	200/230-3-60	22	1/2", 5/8"	11A	8.82"	14.1"	51 lbs
COM11408	MT22-4VI	460-3-60	22	1/2", 5/8"	6A	8.82"	14.1"	51 lbs
COM11389	MT28-1VI	208/230-1-60	28	1/2", 5/8"	25A	8.82"	14.1"	51 lbs
COM11398	MT28-3VI	200/230-3-60	28	1/2", 5/8"	16A	8.82"	14.1"	51 lbs
COM09898	MT28-4VI	460-3-60	28	1/2", 5/8"	7.5A	8.82"	14.1"	51 lbs
COM11390	MT32-1VI	208/230-1-60	32	1/2", 5/8"	26.5A	8.82"	14.1"	55 lbs
COM11399	MT32-3VI	200/230-3-60	32	1/2", 5/8"	18A	8.82"	14.1"	55 lbs
COM11409	MT32-4VI	460-3-60	32	1/2", 5/8"	8A	8.82"	14.1"	55 lbs
COM10005	MT36-1VI	208/230-1-60	36	1/2", 5/8"	30A	8.82"	14.1"	57 lbs
COM11400	MT36-3VI	200/230-3-60	36	1/2", 5/8"	17A	8.82"	14.1"	57 lbs
COM11410	MT36-4VI	460-3-60	36	1/2", 5/8"	9A	8.82"	14.1"	57 lbs
COM11391	MT40-1VI	208/230-1-60	40	1/2", 5/8"	34A	8.82"	14.1"	60 lbs
COM11401	MT40-3VI	200/230-3-60	40	1/2", 5/8"	22A	8.82"	14.1"	60 lbs
COM10018	MT40-4VI	460-3-60	40	1/2", 5/8"	10A	8.82"	14.1"	60 lbs



# Compressors

## Single 2-Cylinder Compressor

Part #	Mfg #	Electrical	Nom MBTUH	Stub Tube Conn (ID) Dischg, Suc	MCC	Dimensions		Net Wt
						Foot Print	Unit Ht	
COM11392	MT44-1VI	208/230-1-60	44	3/4", 7/8"	31A	11.34"	16.26"	79.4 lbs
COM11402	MT44-3VI	200/230-3-60	44	3/4", 7/8"	22A	11.34"	16.26"	79.4 lbs
COM11411	MT44-4VI	460-3-60	44	3/4", 7/8"	11.5A	11.34"	16.26"	79.4 lbs
COM11393	MT50-1VI	208/230-1-60	50	3/4", 7/8"	36A	11.34"	16.26"	81.6 lbs
COM11403	MT50-3VI	200/230-3-60	50	3/4", 7/8"	25A	11.34"	16.26"	81.6 lbs
COM11412	MT50-4VI	460-3-60	50	3/4", 7/8"	12A	11.34"	16.26"	81.6 lbs
COM11394	MT56-1VI	208/230-1-60	56	3/4", 7/8"	42.5A	11.34"	16.26"	83.8 lbs
COM11404	MT56-3VI	200/230-3-60	56	3/4", 7/8"	24A	11.34"	16.26"	83.8 lbs
COM11413	MT56-4VI	460-3-60	56	3/4", 7/8"	12.5A	11.34"	16.26"	83.8 lbs
COM11395	MT64-1VI	208/230-1-60	64	3/4", 7/8"	46A	11.34"	16.26"	86 lbs
COM09974	MT64-3VI	200/230-3-60	64	3/4", 7/8"	29A	11.34"	16.26"	86 lbs
COM09544	MT64-4VI	460-3-60	64	3/4", 7/8"	13.5A	11.34"	16.26"	86 lbs
COM10293	MT72-3VI	200/230-3-60	72	3/4", 7/8"	30A	11.34"	16.26"	92.6 lbs
COM11414	MT72-4VI	460-3-60	72	3/4", 7/8"	17.5A	11.34"	16.26"	92.6 lbs
COM09322	MT80-3VI	200/230-3-60	80	3/4", 1-1/8"	36A	11.34"	16.26"	92.6 lbs
COM10206	MT80-4VI	460-3-60	80	3/4", 1-1/8"	18.5A	11.34"	16.26"	92.6 lbs

## Single 4-Cylinder Compressor

Part #	Mfg #	Electrical	Nom MBTUH	Stub Tube Conn (ID) Dischg, Suc	MCC	Dimensions		Net Wt
						Foot Print	Unit Ht	
COM11405	MT100-3VI	200/230-3-60	100	3/4", 1-1/8"	43A	13.86"	21.25"	139 lbs
COM09874	MT100-4VI	460-3-60	100	3/4", 1-1/8"	22A	13.86"	21.25"	139 lbs
COM09965	MT125-3VI	200/230-3-60	125	3/4", 1-1/8"	54A	13.86"	21.25"	148 lbs
COM09284	MT125-4VI	460-3-60	125	3/4", 1-1/8"	27A	13.86"	21.25"	148 lbs
COM09313	MT144-3VI	200/230-3-60	144	3/4", 1-1/8"	64A	13.86"	21.25"	152 lbs
COM11415	MT144-4VI	460-3-60	144	3/4", 1-1/8"	36A	13.86"	21.25"	152 lbs
COM11406	MT160-3VI	200/230-3-60	160	3/4", 1-1/8"	70A	13.86"	21.25"	157 lbs
COM09891	MT160-4VI	460-3-60	160	3/4", 1-1/8"	36A	13.86"	21.25"	157 lbs



# Compressors

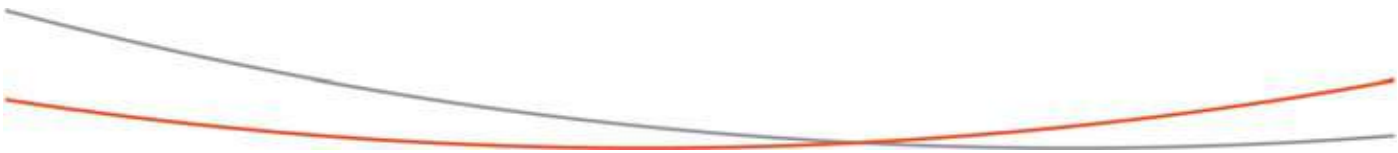
## MTZ Series Multi-Refrigerant Reciprocating Compressor

- For medium or high temperature applications with refrigerants: R134a, R407A, R407C, R407F
- For medium temperature applications with refrigerants: R404A, R507A
- Service temperature: 122° to -31°F
- Service pressure: 267 psig
- CE Certified
- UL Certified



## Single 1-Cylinder Compressor

Part #	Mfg #	Electrical	Nom MBTUH	Stub Tube Conn (ID) Dischg, Suc	MCC	Dimensions		Net Wt
						Foot Print	Unit Ht	
COM11416	MTZ18-1VI	208/230-1-60	18	3/8", 1/2"	13A	8.82"	14.1"	48.5 lbs
COM11424	MTZ18-3VI	200/230-3-60	18	3/8", 1/2"	9A	8.82"	14.1"	48.5 lbs
COM11438	MTZ18-4VI	460-3-60	18	3/8", 1/2"	5A	8.82"	14.1"	48.5 lbs
COM11417	MTZ22-1VI	208/230-1-60	22	1/2", 5/8"	17A	8.82"	14.1"	51 lbs
COM10298	MTZ22-3VI	200/230-3-60	22	1/2", 5/8"	11A	8.82"	14.1"	51 lbs
COM09693	MTZ22-4VI	460-3-60	22	1/2", 5/8"	6A	8.82"	14.1"	51 lbs
COM09638	MTZ28-1VI	208/230-1-60	28	1/2", 5/8"	25A	8.82"	14.1"	51 lbs
COM11425	MTZ28-3VI	200/230-3-60	28	1/2", 5/8"	16A	8.82"	14.1"	51 lbs
COM09777	MTZ28-4VI	460-3-60	28	1/2", 5/8"	7.5A	8.82"	14.1"	51 lbs
COM11418	MTZ32-1VI	208/230-1-60	32	1/2", 5/8"	26.5A	8.82"	14.1"	55 lbs
COM11426	MTZ32-3VI	200/230-3-60	32	1/2", 5/8"	18A	8.82"	14.1"	55 lbs
COM11439	MTZ32-4VI	460-3-60	32	1/2", 5/8"	8A	8.82"	14.1"	55 lbs
COM11419	MTZ36-1VI	208/230-1-60	36	1/2", 5/8"	30A	8.82"	14.1"	57 lbs
COM11427	MTZ36-3VI	200/230-3-60	36	1/2", 5/8"	17A	8.82"	14.1"	57 lbs
COM11440	MTZ36-4VI	460-3-60	36	1/2", 5/8"	9A	8.82"	14.1"	57 lbs
COM09339	MTZ40-1VI	208/230-1-60	40	1/2", 5/8"	34A	8.82"	14.1"	60 lbs
COM11428	MTZ40-3VI	200/230-3-60	40	1/2", 5/8"	22A	8.82"	14.1"	60 lbs
COM09838	MTZ40-4VI	460-3-60	40	1/2", 5/8"	10A	8.82"	14.1"	60 lbs



# Compressors

## Single 2-Cylinder Compressor

Part #	Mfg #	Electrical	Nom MBTUH	Stub Tube Conn (ID) Dischg, Suc	MCC	Dimensions		Net Wt
						Foot Print	Unit Ht	
COM11420	MTZ44-1VI	208/230-1-60	44	3/4", 7/8"	31A	11.34"	16.26"	79.4 lbs
COM11429	MTZ44-3VI	200/230-3-60	44	3/4", 7/8"	22A	11.34"	16.26"	79.4 lbs
COM11441	MTZ44-4VI	460-3-60	44	3/4", 7/8"	11.5A	11.34"	16.26"	79.4 lbs
COM11421	MTZ50-1VI	208/230-1-60	50	3/4", 7/8"	36A	11.34"	16.26"	81.6 lbs
COM11430	MTZ50-3VI	200/230-3-60	50	3/4", 7/8"	25A	11.34"	16.26"	81.6 lbs
COM09828	MTZ50-4VI	460-3-60	50	3/4", 7/8"	12A	11.34"	16.26"	81.6 lbs
COM11422	MTZ56-1VI	208/230-1-60	56	3/4", 7/8"	42.5A	11.34"	16.26"	83.8 lbs
COM11431	MTZ56-3VI	200/230-3-60	56	3/4", 7/8"	24A	11.34"	16.26"	83.8 lbs
COM09880	MTZ56-4VI	460-3-60	56	3/4", 7/8"	12.5A	11.34"	16.26"	83.8 lbs
COM11423	MTZ64-1VI	208/230-1-60	64	3/4", 7/8"	46A	11.34"	16.26"	86 lbs
COM11432	MTZ64-3VI	200/230-3-60	64	3/4", 7/8"	29A	11.34"	16.26"	86 lbs
COM09543	MTZ64-4VI	460-3-60	64	3/4", 7/8"	13.5A	11.34"	16.26"	86 lbs
COM11433	MTZ72-3VI	200/230-3-60	72	3/4", 7/8"	30A	11.34"	16.26"	92.6 lbs
COM11442	MTZ72-4VI	460-3-60	72	3/4", 7/8"	17.5A	11.34"	16.26"	92.6 lbs
COM11434	MTZ80-3VI	200/230-3-60	80	3/4", 1-1/8"	36A	11.34"	16.26"	92.6 lbs
COM09780	MTZ80-4VI	460-3-60	80	3/4", 1-1/8"	18.5A	11.34"	16.26"	92.6 lbs

## Single 4-Cylinder Compressor

Part #	Mfg #	Electrical	Nom MBTUH	Stub Tube Conn (ID) Dischg, Suc	MCC	Dimensions		Net Wt
						Foot Print	Unit Ht	
COM11435	MTZ100-3VI	200/230-3-60	100	3/4", 1-1/8"	43A	13.86"	21.25"	139 lbs
COM11443	MTZ100-4VI	460-3-60	100	3/4", 1-1/8"	22A	13.86"	21.25"	139 lbs
COM09542	MTZ125-3VI	200/230-3-60	125	3/4", 1-1/8"	54A	13.86"	21.25"	148 lbs
COM09987	MTZ125-4VI	460-3-60	125	3/4", 1-1/8"	27A	13.86"	21.25"	148 lbs
COM11436	MTZ144-3VI	200/230-3-60	144	3/4", 1-1/8"	64A	13.86"	21.25"	152 lbs
COM11444	MTZ144-4VI	460-3-60	144	3/4", 1-1/8"	36A	13.86"	21.25"	152 lbs
COM11437	MTZ160-3VI	200/230-3-60	160	3/4", 1-1/8"	70A	13.86"	21.25"	157 lbs
COM09975	MTZ160-4VI	460-3-60	160	3/4", 1-1/8"	36A	13.86"	21.25"	157 lbs





# System Protectors

## Mufflers

### APD Pulsation Dampener - Muffler

- Reduces noise and vibration on the compressor discharge lines
- Compact size
- Full flow fittings
- Solid copper connections
- Corrosion resistant epoxy powder paint finish
- Rugged steel shells for vibration and shock resistance
- Maximum working pressure: 680 psig
- Operating range: -40° to +250°F
- UL Listed: SA5760
- cUL Listed



		Reference #	Connection	Diameter	O/A Length	
MFL00806	APD164S	APD 164 S	1/2" ODF	2.64"	6.25"	
MFL00803	060119	APD 165 S-B	5/8" ODF	2.63"	6.56"	With Baffles
MFL00822	056989	APD 309 S	1-1/8" ODF	3.13"	10.25"	

## Moisture Indicators

### HMI - Hermetic Moisture Indicator

- 3% Relative humidity indication compared to 10% paper indicators
- Single indicator for all common refrigerants
- Accurate color calibration at low ppm levels and higher temperatures
- Wide angle viewing/high visibility window for ease of monitoring
- All brass corrosion resistant body
- Solid copper fittings
- Maximum working pressure: 680 psig
- UL Listed
- cUL Listed



Part #	Mfg #	Reference #	Connection Size	Series
GLS00878	065391	HMI-1MM2	1/4" SAE	M Flr x M Flr
GLS00880	065393	HMI-1MM4	1/2" SAE	M Flr x M Flr
GLS00881	065394	HMI-1MM5	5/8" SAE	M Flr x M Flr
GLS00934	065395	HMI-1MM6	3/4" SAE	M Flr x M Flr
GLS00889	065405	HMI-1TT2	1/4" ODF	Swt x Swt
GLS00890	065406	HMI-1TT3	3/8" ODF	Swt x Swt
GLS00891	065407	HMI-1TT4	1/2" ODF	Swt x Swt



Don't see what you are looking for? We carry thousands of other items. Check with your local parts center.

# System Protectors

## AMI - Moisture Liquid Indicator

- Single indicator for all common refrigerants including R-410A
- Accurate color calibration at low ppm levels and higher temperatures
- Wide angle viewing
- Take-Apart design for easy repair
- Solid copper connections
- Maximum working pressure: 650 psig
- UL Listed
- cUL Listed



Part #	Mfg #	Reference #	Connection Size	Series
GLS00125	048811	AMI-1SS2	1/4" ODF	Swt x Swt
GLS00126	048812	AMI-1SS3	3/8" ODF	Swt x Swt
GLS00837	042771	AMI-1TT3	3/8" ODF	Swt x Swt Extended Ends
GLS00838	022302	AMI-1TT4	1/2" ODF	Swt x Swt Extended Ends
GLS00839	031136	AMI-1TT5	5/8" ODF	Swt x Swt Extended Ends
GLS00840	031357	AMI-1TT7	7/8" ODF	Swt x Swt Extended Ends
GLS00944	031578	AMI-1TT9	1-1/8" ODF	Swt x Swt Extended Ends
GLS00194	022303	AMI-2S11	1-3/8" ODM	Bushing Style
GLS00198	028388	AMI-2S13	1-5/8" ODM	Bushing Style
GLS00199	031219	AMI-2S17	2-1/8" ODM	Bushing Style

## Moisture Indicator Replacement Parts



Part #	Mfg #	Reference #	Description
KIT06235	020877	PS1525-2	O-Ring for Moisture Indicator, OMB





# System Protectors

## A-AS Suction Accumulators

- Protects compressor from liquid slugging
- Used with CFC, HCFC and HFC refrigerants
- Fusible plug on larger diameter units
- Solid copper connections
- Inlet deflector directs refrigerant flow to prevent internal splashing and aid in collection of refrigerant oil
- Evaporator temperature range: -40° to 40°F
- Maximum working pressure: 300 psig
- Fusible plug temperature: 430°F
- UL Listed
- cUL Listed



Part #	Mfg #	Reference #	Connection	Diameter	Height
ACC00120	060819	*A-AS-384	1/2" Nom	3"	8"
ACC00126	060967	A-AS-464	1/2" Nom	4"	6"
ACC00121	060963	*A-AS-3105	5/8" Nom	3"	10"
ACC00124	060964	*A-AS-3145	5/8" Nom	3"	15"
ACC00127	060821	A-AS-465	5/8" Nom	4"	6"
ACC00122	060812	*A-AS-3125	5/8" Nom	3"	12"
ACC00128	060966	A-AS-4105	5/8" Nom	4"	10"
ACC00123	060813	*A-AS-3126	3/4" Nom	3"	12"
ACC00125	060965	*A-AS-3146	3/4" Nom	3"	14"
ACC00130	060824	A-AS-596	3/4" Nom	5"	9"
ACC00132	060822	A-AS-5126	3/4" Nom	5"	12"
ACC00131	060818	A-AS-597	7/8" Nom	5"	9"
ACC00133	060823	A-AS-5127	7/8" Nom	5"	12"
ACC00134	060814	A-AS-5137	7/8" Nom	5"	13"
ACC00138	060825	A-AS-6117	7/8" Nom	6"	11"
ACC00139	060826	A-AS-6137	7/8" Nom	6"	13"
ACC00135	060815	A-AS 5139	1-1/8" Nom	5"	13"
ACC00136	060817	A-AS 5179	1-1/8" Nom	5"	17"
ACC00140	060968	A-AS-6139	1-1/8" Nom	6"	13"
ACC00137	060816	A-AS-51711	1-3/8" Nom	5"	17"
ACC00142	060969	A-AS-61713	1-5/8" Nom	6"	17"
ACC00141	060827	A-AS-61411	1-3/8" Nom	6"	14"
ACC00143	060828	A-AS-62013	1-5/8" Nom	6"	20"
ACC00144	060970	A-AS-62513	1-5/8" Nom	6"	25"

\* Not supplied with a fusible plug



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# System Protectors

## Filter-Driers

### ASF Suction Line Filter-Drier

- Designed to protect the compressor from dirt and all solid contaminants
- Solid copper connections
- Corrosion resistant epoxy paint finish
- Suffix: V = Single access valve  
VV = Dual access valve
- Maximum working pressure 500 psig
- Filtration: 40 micron
- UL Listed
- cUL Listed



Part #	Mfg #	Reference #	Connection	Diameter	O/A Length
FLR05795	049177	ASF 28S3-VV	3/8" ODF	2.63"	5.59"
FLR05796	049182	ASF 45S7-VV	7/8" ODF	3.69"	7.94"
FLR05797	049183	ASF 50S9-VV	1-1/8" ODF	5.0"	8.84"
FLR07124	016773	ASF 64S9	2-1/8" ODF	3.63"	8.84"
FLR05987	063113	ASF 64S17-V	2-1/8" ODF	5.0"	11.75"
FLR06378	049184	ASF 75S11-VV	1-3/8" ODF	5.0"	12.25"
DHY01027	049185	ASF 75S13-VV	1-5/8" ODF	5.0"	12.16"

### ALF Liquid Line Filter-Drier

- For recovery, recycle and reclaim usage
- Used for protecting solenoid and expansion valve parts from debris
- Filtering media that maximizes removal of finer particles
- Maximum working pressure: 680 psig
- Filtration: 40 micron
- UL Listed
- cUL Listed



Part #	Mfg #	Reference #	Connection	Diameter *	O/A Length
FLR03843	056618	ALF-032S	1/4" ODF	1.63"	3.88"
FLR03842	057193	ALF-032MF	1/4" SAE M x SAE Fem	1.63"	4.00"
FLR03844	057213	ALF-0323S	1/4" x 3/8" ODF	1.63"	3.93"
FLR03845	057140	ALF-033S	3/8" ODF	1.63"	4.00"
FLR03846	056645	ALF-034S	1/2" ODF	1.63"	4.13"

\* Does not include weld bead



# System Protectors

## Emerson Builder's Series Filter-Drier

- Economical system protection for A/C applications
- ODF Solid copper connections for easy installation
- Solid core construction
- Filtration: 40 micron
- Maximum working pressure: 680 psig



Part #	Mfg #	Reference #	Type	Water Capacity Drops R-22 @ 125°F	Acid Capacity mg POE	Nom Tonnage R-22	Nom Tonnage R-410A
BSL053S	066122	BSL-053S	Liquid Line	36	1,200	4.9	4.8
BSL083S	066123	BSL-083S	Liquid Line	51	1,500	4.6	4.5
BSL163S	066125	BSL-163S	Liquid Line	70	1,865	5.3	5.2
BSS165S	066126	BSS-165S	Suction Line	72	6,440	3.4	3.5
BSS166S	066127	BSS-166S	Suction Line	72	6,440	4.1	4.2
BSS167S	066128	BSS-167S	Suction Line	72	6,440	4.1	4.2
BSS307S	066129	BSS-307S	Suction Line	111	15,680	5.9	6.0
BSB083S	066130	BSB-083S	Bi-Flow	154	700	5.1	5.1
BSB163S	066131	BSB-163S	Bi-Flow	223	1,450	5.2	5.1

## Filter-Driers

### EK Liquid Line Filter-Drier

- Premium compacted bead filter-drier with 20 micron outlet pad
- Universal replacement for CFC, HCFC and HFC refrigerants including R-12, R-134a, R-22, R-404A, R-407C, R-410A, R-500, R-502 and R-507
- Filtration first for more effective use of surface area of desiccant
- Corrosion resistant epoxy powder paint finish
- Copeland™ brand products approved for POE oils
- Shock resistant steel shell construction
- Solid copper connections
- Maximum working pressure: 680 psig
- Filtration: 20 micron
- UL Listed; cUL Listed



Part #	Mfg #	Reference #	Connection	Diameter	O/A Length
EK-032	060009	EK-032	1/4" SAE	1.75"	4.38"
EK-032S	060012	EK-032S	1/4" ODF	1.75"	3.83"
EK-032FM	060011	EK-032FM	1/4" FxM	1.75"	3.92"
EK-032MF	060010	EK-032MF	1/4" MxF	1.75"	3.92"
EK-033	060013	EK-033	3/8" SAE	1.75"	4.69"
EK-033S	060014	EK-033S	3/8" ODF	1.75"	4.03"
EK-052	047601	EK-052	1/4" SAE	2.64"	4.83"
EK-052MF	057013	EK-052MF	1/4" MxF	2.64"	4.37"
EK-0525S	063978	EK-0525S	5/16" ODF	2.64"	4.20"
EK-052S	047602	EK-052S	1/4" ODF	2.64"	4.15"
EK-053	047603	EK-053	3/8" SAE	2.64"	5.14"



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# System Protectors

## Filter-Driers (Continued)

### EK Liquid Line Filter-Drier

Part #	Mfg #	Reference #	Connection	Diameter	O/A Length
EK-053S	047604	EK-053S	3/8" ODF	2.64"	4.48"
EK-082	047605	EK-082	1/4" SAE	2.64"	5.64"
EK-082S	047606	EK-082S	1/4" ODF	2.64"	4.96"
EK-0825S	049551	EK-0825S	5/16" ODF	2.64"	5.38"
EK-083MF	056906	EK-083MF	3/8" MxF	2.64"	5.70"
EK-083	047607	EK-083	3/8" SAE	2.64"	5.95"
EK-083S	047608	EK-083S	3/8" ODF	2.64"	5.29"
EK-084	047609	EK-084	1/2" SAE	2.64"	6.17"
EK-084S	047610	EK-084S	1/2" ODF	2.64"	5.33"
EK-0162	047611	EK-162	1/4" SAE	2.64"	6.58"
EK-0162S	047612	EK-162S	1/4" ODF	2.64"	5.90"
EK-01625S	056045	EK-1625S	5/16" ODF	2.64"	5.95"
EK-0163	047613	EK-163	3/8" SAE	2.64"	6.89"
EK-0163S	047614	EK-163S	3/8" ODF	2.64"	6.24"
EK-0164	047615	EK-164	1/2" SAE	2.64"	7.11"
EK-0164S	047616	EK-164S	1/2" ODF	2.64"	6.33"
EK-0165	047617	EK-165	5/8" SAE	2.64"	7.57"
EK-0165S	047618	EK-165S	5/8" ODF	2.64"	6.55"
EK-0167S	047619	EK-167S	7/8" ODF	2.64"	7.13"
EK-0303	048210	EK-303	3/8" SAE	3.14"	9.66"
EK-0303S	048211	EK-303S	3/8" ODF	3.14"	9.0"
EK-0304	048212	EK-304	1/2" SAE	3.14"	9.88"
EK-0304S	048213	EK-304S	1/2" ODF	3.14"	9.13"
EK-0305	048214	EK-305	5/8" SAE	3.14"	10.31"
EK-0305S	048215	EK-305S	5/8" ODF	3.14"	9.31"
EK-0306S	048216	EK-306S	3/4" ODF	3.14"	9.69"
EK-0307S	048217	EK-307S	7/8" ODF	3.14"	9.904"
EK-0309S	048218	EK-309S	1-1/8" ODF	3.14"	10.25"
EK-0413	048219	EK-413	3/8" SAE	3.64"	9.79"
EK-0414	048220	EK-414	1/2" SAE	3.64"	10.01"
EK-0414S	048221	EK-414S	1/2" ODF	3.64"	9.23"
EK-0415	048222	EK-415	5/8" SAE	3.64"	10.47"
EK-0415S	048223	EK-415S	5/8" ODF	3.64"	9.45"
EK-0417S	048224	EK-417S	7/8" ODF	3.64"	10.03"
EK-0419S	048225	EK-419S	1-1/8" ODF	3.64"	10.39"
EK-0757S	048228	EK-757S	7/8" ODF	3.64"	15.25"
EK-0759S	048229	EK-759S	1-1/8" ODF	3.64"	15.88"



# System Protectors

## EK Contractor's Choice Dual Access Valve Filter-Drier

- R-410A System protector
- Extended solid copper connections
- Dual access valves for faster and easier system diagnosis
- Incorporates all the internal features of the premium EK
- Maximum working pressure: 680 psig
- Filtration: 20 micron
- UL Listed; cUL Listed



Part #	Mfg #	Reference #	Connection
EK-032S-VV	063908	EK 032S VV	1/4" ODF
EK-052S-VV	065966	EK 052S VV	1/4" ODF
EK-053S-VV	065963	EK 053S VV	3/8" ODF
EK-083S-VV	065964	EK 083S VV	3/8" ODF
EK-163S-VV	065965	EK 163S VV	3/8" ODF

## EK Cap Tube Liquid Line Filter-Drier

- Schrader valve on the inlet side acts as a maintenance and charging port
- Outlet is designed to accept capillary tubing without the need for crimping
- Extended solid copper 1/4 ODF connection inlet by cap tube
- Incorporates all the internal features of the premium EK
- Filtration: 20 micron
- Maximum working pressure: 680 psig
- UL Listed; cUL Listed



Part #	Mfg #	Reference #	Size
EK-032SV-CAP	063208	EK 032SV CAP	3 cu in
EK-052SV-CAP	065846	EK 052SV CAP	5 cu in



# System Protectors

## BFK Bi-Directional Heat Pump Filter-Drier

- Solid core, bi-directional, liquid line filter-drier for heat pump applications for use with CFC, HCFC and HFC refrigerants including R-410A
- Internal check valves allow flow and filtration in either direction, eliminating need for external check valves
- High moisture and acid removal capacity
- Corrosion resistant epoxy powder paint finish
- Copeland™ brand products approved for POE oils
- Filtration: 40 micron
- UL Listed; cUL Listed



Part #	Mfg #	Reference #	Connection	Diameter	O/A Length
BFK-052	062300	BFK-052	1/4" SAE	2.64"	4.84"
BFK-052S	062425	BFK-052S	1/4" ODF	2.64"	4.44"
BFK-053	062254	BFK-053	3/8" SAE	2.64"	5.15"
BFK-053S	062255	BFK-053S	3/8" ODF	2.64"	4.49"
BFK-0825S	058597	BFK-0825S	5/16" ODF	2.64"	5.02"
BFK-083	043321	BFK-083	3/8" SAE	2.64"	5.96"
BFK-083S	043323	BFK-083-S	3/8" ODF	2.64"	5.31"
BFK-084	043325	BFK-084	1/2" SAE	2.64"	6.16"
BFK-084S	043327	BFK-084-S	1/2" ODF	2.64"	5.40"
BFK-085	043728	BFK-085	5/8" SAE	2.64"	6.64"
BFK-085S	043730	BFK-085S	5/8" ODF	2.64"	5.70"
BFK-163	043330	BFK-163	3/8" SAE	3.14"	6.824"
BFK-163S	043333	BFK-163-S	3/8" ODF	3.14"	6.17"
BFK-164	043335	BFK-164	1/2" SAE	3.14"	7.04"
BFK-164S	043337	BFK-164-S	1/2" ODF	3.14"	6.26"
BFK-165	043732	BFK-165	5/8" SAE	3.14"	7.50"
BFK-165S	043734	BFK-165S	5/8" ODF	3.14"	6.48"
BFK-167S	058589	BFK-167S	7/8" ODF	3.14"	7.06"
BFK-303	063076	BFK-303	3/8" SAE	3.14"	9.674"
BFK-303S	063077	BFK-303S	3/8" ODF	3.14"	9.01"
BFK-304	063078	BFK-304	1/2" SAE	3.15"	9.84"
BFK-304S	063079	BFK-304S	1/2" ODF	3.14"	9.05"
BFK-305	063080	BFK-305	5/8" SAE	3.14"	10.35"
BFK-305S	063081	BFK-305S	5/8" ODF	3.14"	9.32"
BFK-306	063082	BFK-306	3/4" SAE	3.14"	10.67"
BFK-306S	063083	BFK-306S	3/4" ODF	3.14"	9.74"
BFK-307S	063084	BFK-307S	7/8" ODF	3.14"	9.91"
BFK-309S	063451	BFK-309S	1-1/8" ODF	3.14"	10.27"



# System Protectors

## ASK-HH Charcoal Blend Dual Access Valve Suction Line Filter-Drier

- Solid core activated carbon blend for contaminant and wax
- Use with CFC, HCFC and HFC refrigerants
- Dual access valves
- Corrosion resistant epoxy powder paint finish
- Solid copper fittings
- Maximum working pressure: 500 psig
- Filtration: 40 micron
- UL Listed; cUL Listed



Part #	Mfg #	Reference #	Connection	Diameter	O/A Length
ASK-165-VV-HH	056508	ASK165S-VV-HH	5/8" ODF	3.14"	6.38"
ASK-166-VV-HH	056509	ASK166S-VV-HH	3/4" ODF	3.14"	6.75"
ASK-167-VV-HH	056510	ASK167S-VV-HH	7/8" ODF	3.14"	6.94"
ASK-306-VV-HH	056511	ASK306S-VV-HH	3/4" ODF	3.14"	9.69"
ASK-307-VV-HH	056512	ASK307S-VV-HH	7/8" ODF	3.14"	9.88"
ASK-309-VV-HH	056513	ASK309S-VV-HH	1-1/8" ODF	3.14"	10.19"

## Filter Cores

- Universal replacement cores for use with ADKS and STAT shells and similar competitive Take-Apart type filter-drier shells
- Suitable for R-410A
- May not be used for BTAS
- Exceptional acid capacities for normal system protection, or to effectively clean up following a compressor burnout
- Activated carbon blend for soluble contaminant and wax removal (W-HH Series)
- Interchangeable with competitive products



Part #	Mfg #	Reference #	Refrigerant	Function
D-48	059541	D-48	CFC, HFC	High Acid Removal
H-48	059542	H-48	CFC, HCFC	High Acid & Water Removal
W-48-HH	061235	W-48-HH	CFC, HCFC, HFC	Burnout Cleanup
UK-48	061617	UK-48	CFC, HCFC, HFC	Hi Capacity Universal Replacement
H-100	089338	H-100	CFC, HCFC	High Acid & Water Removal
HX-48	062549	HX-48	CFC, HCFC, HFC	Highest Water Removal
UK-100	062424	UK-100	CFC, HCFC, HFC	Universal Replacement
W-100-HH	043582	W-100-HH	CFC, HCFC, HFC	Burnout Cleanup
F-48	089559	F-48	CFC, HCFC, HFC	Filter (Suction Only)
F-48R	047664	F-48R	CFC, HCFC, HFC	Filter (Suction Only) Reverse Flow
F-100	095762	F-100	CFC, HCFC, HFC	Filter (Suction Only)
RH-48	061237	RH-48	CFC, HCFC	Reclaimer Core
RW-48	061238	RW-48	CFC, HCFC	Cleanup

# System Protectors

## Oil Controls

### OMB Adapter for Copeland Scroll Compressors



Part #	Mfg #	Reference #	Description
KIT12262	065668	KS-30376	OMB-ACA Adapter - (3/4" x 14 NPTF)
KIT12261	065667	KS-30375	OMB-ACB Adapter - (1-1/8" x 12 UNF)

### A-W/A-F Oil Separator

- Used for multiple compressor racks in supermarkets and air conditioning systems for use with HCFCs, HFCs and their lubricants
- Hermetic welded or accessible bolted flange construction
- Solid copper connections
- Corrosion resistant epoxy powder paint
- Maximum working pressure: 450 psi
- UL Listed; cUL Listed



Part #	Mfg #	Reference #	Connection	Style	Style Number	Shell OD	Length
CNT04656	060933	A-W55824	1/2" ODF	Welded	1	4"	10.75"
SEP00098	060931	A-W58877	7/8" ODF	Welded	1	4"	15.0"
CNT03773	060979	A-W569213	1-5/8" ODF	Welded	1	6"	19.0"
SEP00068	060875	A-F579213	1-5/8" ODF	Flanged	2	6"	20.31"

## Oil Filters

### AOF High Efficiency Oil Filter

- Compatible with R-410A
- Compatible with all oils
- Highly recommended for scroll compressors
- Corrosion resistant epoxy powder paint finish
- 3/8" SAE Connections for easy installation in oil lines
- High debris capacity with low pressure drop
- 100% Efficient to 4 micron particles, 99% efficient to 3 micron particles
- Maximum working pressure: 680 psig
- UL/cUL File number: SA3124



Part #	Mfg #	Reference #	Description
FLR05984	064952	AOF303	3/8" SAE Oil Filter





# System Protectors

## Condenser Covers

- Engineered to give outdoor units complete weather protection
- Durable molded PVC vent attached to a custom-made air conditioner cover
- UV Protection
- Anti-cold crack
- Fire retardant
- Mildew and fungus free
- 10-Year warranty

### American Standard Condenser Cover



Part #	Fits Unit Size
COV03662	26" x 29" x 26"
COV03663	29" x 29" x 26"
COV03664	33" x 29" x 26"
COV04123	29" x 33" x 30"
COV03665	33" x 33" x 30"
COV03666	37" x 33" x 30"
COV03668	33" x 37" x 34"
COV03669	37" x 37" x 34"
COV03670	41" x 37" x 34"
COV04011	45" x 37" x 34"
COV04375	29" x 37" x 34"
COV04160	28-3/4" x 25 1/2" x 23-1/4"
COV04161	28-3/4" x 29-1/4" x 28-1/2"
COV05006	40-1/2" x 33" x 30"

## Trane Condenser Cover



Part #	Fits Unit Size
COV03509	26" x 29" x 26"
COV03510	29" x 29" x 26"
COV04158	28-3/4" x 25-1/2" x 23-1/4"
COV04159	28-3/4" x 29-1/4" x 28-1/2"
COV04205	29" x 37" x 34"
COV04122	29" x 33" x 30"
COV03512	33" x 29" x 26"
COV03513	33" x 33" x 30"
COV03514	37" x 33" x 30"
COV03516	33" x 37" x 34"
COV03517	40" x 33" x 30"
COV03518	44" x 33" x 30"
COV03520	42" x 37" x 34"
COV03521	46" x 37" x 34"
COV03522	50" x 37" x 34"
COV03623	41" x 37" x 34"
COV03745	37" x 37" x 34"
COV03523	54" x 37" x 34"
COV04010	45" x 37" x 34"
COV04978	40-1/2" x 33" x 30"

# Valves

## Shut-Off Valves

### ACK Check Valve

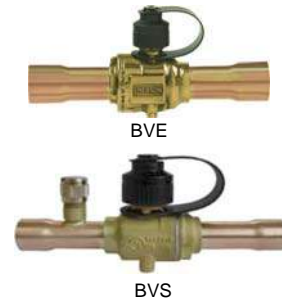
- Normally closed magnetic check valves that prevents reverse refrigerant flow
- Built-in 30 mesh stainless steel strainer
- Can be installed in any position



Part #	Mfg #	Reference #	Connection
VAL08168	064985	ACK-4	1/4" ODF
VAL08169	064986	ACK-6	3/8" ODF
VAL08170	064987	ACK-8	1/2" ODF
VAL08171	064988	ACK-10	5/8" ODF
VAL08172	064989	ACK-12	3/4" ODF
VAL08173	064990	ACK-14	7/8" ODF
VAL08174	064991	ACK-18	1-1/8" ODF
VAL08175	064992	ACK-22	1-3/8" ODF
VAL08176	064993	ACK-26	1-5/8" ODF
VAL08177	064994	ACK-34	2-1/8" ODF
VAL08178	064995	ACK-42	2-5/8" ODF

### BV Refrigeration Ball Valve

- Forged brass body
- Compatible with HCFC and HFC refrigerants and lubricants including R-410A and CO<sub>2</sub>
- Compact, lightweight, hermetic design
- Full flow design (minimal pressure drop)
- Bi-directional flow characteristics
- Valve stem cap retained by strap attached to main body
- UL/cUL File number SA5312



#### Full Port BVE Ball Valve less Schrader Valve

Part #	Mfg #	Reference #	Connection	OAL
VAL09747	806732	BVE-038	3/8" ODF	4.72"
VAL09748	806734	BVE-012	1/2" ODF	5.00"
VAL09749	806736	BVE-058	5/8" ODF	5.00"
VAL09751	806738	BVE-078	7/8" ODF	6.18"
VAL09752	806739	BVE-118	1-1/8" ODF	6.65"
VAL09753	806741	BVE-138	1-3/8" ODF	9.09"
VAL09754	806742	BVE-158	1-5/8" ODF	10.91"

#### Full Port BVS Ball Valve with Schrader Valve

Part #	Mfg #	Reference #	Connecton	OAL
VAL09759	806752	BVS-038	3/8" ODF	4.72"
VAL09760	806754	BVS-012	1/2" ODF	5.00"
VAL09761	806756	BVS-058	5/8" ODF	5.00"
VAL09763	806758	BVS-078	7/8" ODF	6.18"
VAL09764	806759	BVS-118	1-1/8" ODF	6.65"
VAL09765	806761	BVS-138	1-3/8" ODF	9.09"
VAL09766	806762	BVS-158	1-5/8" ODF	10.91"



# Valves

## Solenoid Valves

### 500RB Solenoid Valve - 2-Way Normally Open for Refrigerant Service

- One coil fits all valve sizes
- Can be positioned in remote locations
- Low pressure differential for full opening
- PTFE O-Ring for superior external sealing
- Maximum fluid temperature: 250°F
- Maximum working pressure: 500 psig
- MOPD: 275 psig
- UL Listed
- cUL Listed: MP604
- NOTE: This valve requires a DM, MM or ASC2-Type coil assembly  
ASC2-Type Coil requires cable assembly (PCN:059261)



### Nomenclature example: 500RB 4T3 VLC

500R	B	4	T	3	VLC
Valve Series	Design Series	Port Size (in 1/16")	Connection Type F = SAE T = ODF (copper extended fittings) P = NPTF S = ODF inlet/ODM outlet	Connection Size (in 1/8")	Coil*

\* NOTE: Valves are shipped without the solenoid coils (VLC = Valve Less Coil). See coil assemblies for availability.

### Standard Valve

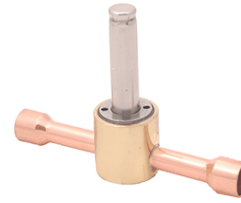
Part #	Mfg #	Reference #	Port Size	Connection
VAL07669	063306	500RB4T3VLC	1/4"	3/8" ODF Copper Ext Ends



# Valves

## 100RB Solenoid Valve - 2-Way Normally Closed Direct-Acting for Refrigerant Service

- One coil fits all valve sizes
- Extended ends for easy installation (standard)
- PTFE O-Ring for superior external sealing
- Maximum fluid temperature: 250°F
- Maximum working pressure: 500 psig
- MOPD: 300 psig
- UL/cUL file number: MP604



## Nomenclature example: 100RB 2F2 VLC

100R	B	2	F	2	VLC
Valve Series	Design Series	Port Size (in 1/16")	Connection Type F = SAE S = ODF P = NPTF	Connection Size (in 1/8")	Coil*

\*NOTE: Valves are shipped without the solenoid coils (VLC = Valve Less Coil). For available coil assemblies, see page 84.

### Standard Valve

Part #	Mfg #	Reference #	Port Size	Connection
VAL04122	047503	100RB2S2	7/64"	1/4" ODF
VAL02395	047504	100RB2S3	7/64"	3/8" ODF
VAL02396	047505	100RB2S4	7/64"	1/2" ODF
VAL02397	047500	100RB2F2	7/64"	1/4" SAE

### 100RB Parts

Part #	Mfg #	Reference #	Description
KIT04959	049191	KS-30112	Solenoid Repair Kit



# Valves

## 200RB Solenoid Valve - 2-Way Normally Closed Pilot-Operated for Refrigerant Service

- One coil fits all valve sizes
- Extended ends for easy installation (standard)
- PTFE O-Ring for superior external sealing
- Maximum fluid temperature: 250°F
- Maximum working pressure: 500 psig
- MOPD: 300 psig
- UL Listed
- cUL Listed: MP604



### Nomenclature example: 200RB 4T3M VLC

200R	B	4	T	3	M	VLC
Valve Series	Design Series	Port Size (in 1/16")	Connection Type F = SAE S = ODF P = NPTF T = Copper Extended Ends	Connection Size (in 1/8")	M = manual stem T = mounting stud (optional)	Coil*

\*NOTE: Valves are shipped without the solenoid coils (VLC = Valve Less Coil). For available coil assemblies, see page 84.

### Standard Valve

Part #	Mfg #	Reference #	Port Size	Connection	Note:
VAL05175	047540	200RB6S5VLC	3/8"	5/8" ODF	
VAL05126	053105	200RB2T2VLC	1/8"	1/4" ODF Copper Ext Ends	
VAL05128	053106	200RB2T3VLC	1/8"	3/8" ODF Copper Ext Ends	
VAL07894	062611	200RB2F3VLC	1/8"	3/8" SAE	
VAL05180	009689	200RB3T3VLC	3/16"	3/8" ODF Copper Ext Ends	
VAL05136	049692	200RB3T4VLC	3/16"	1/2" ODF Copper Ext Ends	
VAL05133	052727	200RB3F4VLC	3/16"	1/2" SAE	
VAL05137	047506	200RB4F3VLC	1/4"	3/8" SAE	
VAL05144	047511	200RB4S3VLC	1/4"	3/8" ODF x 1/2" ODM	
VAL05181	009690	200RB3T3VLC	1/4"	3/8" ODF Copper Ext Ends	
VAL05147	047516	200RB4S4VLC	1/4"	1/2" ODF x 5/8" ODM	
VAL05152	047519	200RB5F4VLC	5/16"	1/2" SAE	
VAL05157	047524	200RB5S4VLC	5/16"	1/2" ODF x 5/8" ODM	
VAL05162	057206	200RB5T4VLC	5/16"	1/2" ODF Copper Ext Ends	
VAL05183	009692	200RB3T3VLC	5/16"	1/2" ODF Copper Ext Ends	
VAL05154	059729	200RB5F5VLC	5/16"	5/8" SAE	
VAL05184	009693	200RB3T3VLC	5/16"	5/8" ODF Copper Ext Ends	
VAL02403	059730	200RB5T5VLC	5/16"	5/8" ODF Copper Ext Ends	
VAL08357	200RB15T5	200RB15T5VLC	5/16"	5/8" ODF Copper Ext Ends	Bi-Flow Valve
VAL05160	049201	200RB5S5VLC	5/16"	5/8" SAE	
VAL05172	047537	200RB6S4VLC	3/8"	1/2" ODF x 5/8" ODM	
VAL05168	059732	200RB5F5VLC	3/8"	5/8" SAE	
VAL05185	009694	200RB3T3VLC	3/8"	5/8" ODF Copper Ext Ends	
VAL05131	052726	200RB3F3VLC	3/8"	3/8" SAE	
VAL07769	064062	200RB7T4VLC	7/16"	1/2" ODF Copper Ext Ends	
VAL07770	064063	200RB7T5VLC	7/16"	5/8" ODF Copper Ext Ends	
VAL07771	064282	200RB7T7VLC	7/16"	7/8" ODF Copper Ext Ends	

# Valves

## Mounting Stud

Part #	Mfg #	Reference #	Port Size	Connection
VAL05129	054170	200RB2T3TVLC	1/8"	3/8" ODF Copper Ext Ends
VAL05127	053236	200RB2T2TVLC	1/8"	1/4" ODF Copper Ext Ends
VAL05132	056438	200RB3F3TVLC	3/16"	3/8" SAE
VAL05135	049585	200RB3T3TVLC	3/16"	3/8" ODF Copper Ext Ends
VAL05134	055855	200RB3T3TVLC	3/16"	1/2" SAE
VAL02401	047508	200RB4F3TVLC	1/4"	3/8" SAE
VAL05140	047513	200RB4S3TVLC	1/4"	3/8" ODF x 1/2" ODM
VAL05146	047515	200RB4S4TVLC	1/4"	1/2" ODF x 5/8" ODM
VAL02400	049163	200RB4T4TVLC	1/4"	1/2" ODF Copper Ext Ends
VAL05161	054323	200RB5T3TVLC	5/16"	3/8" ODF Copper Ext Ends
VAL02404	047521	200RB5F4TVLC	5/16"	1/2" SAE
VAL02405	047523	200RB5F5TVLC	5/16"	5/8" SAE
VAL05156	047526	200RB5S4TVLC	5/16"	1/2" ODF x 5/8" ODM
VAL05159	047528	200RB5S5TVLC	5/16"	5/8" ODF
VAL02402	049164	200RB5T4TVLC	5/16"	1/2" ODF Copper Ext Ends
VAL05165	049165	200RB5T5TVLC	5/16"	5/8" ODF Copper Ext Ends
VAL02409	047534	200RB6F5TVLC	3/8"	5/8" SAE
VAL05174	047542	200RB6S5TVLC	3/8"	5/8" ODF
VAL02406	047546	200RB6T4TVLC	3/8"	1/2" ODF Copper Ext Ends
VAL07774	064769	200RB9T9TVLC	9/16"	1-1/8" ODF Copper Ext Ends

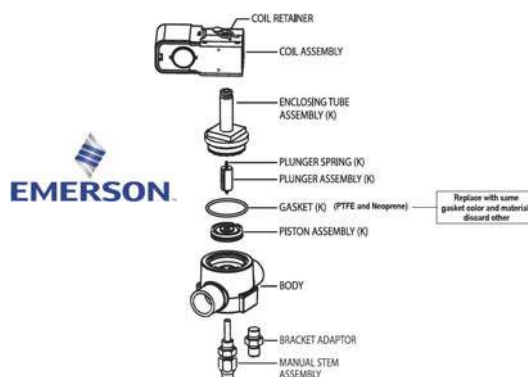
## Manual Stem

Part #	Mfg #	Reference #	Port Size	Connection
VAL05138	047507	200RB4F3MVLC	1/4"	3/8" SAE
VAL05139	047512	200RB4S3MVLC	1/4"	3/8" ODF x 1/2" ODM
VAL05145	047514	200RB4S4TVLC	1/4"	1/2" ODF x 5/8" ODM
VAL05149	049187	200RB4T4MVLC	1/4"	1/2" ODF Copper Ext Ends
VAL05151	047520	200RB5F4MVLC	5/16"	1/2" SAE
VAL05155	047525	200RB5S4MVLC	5/16"	1/2" ODF x 5/8" ODM
VAL05158	047527	200RB5S5MVLC	5/16"	5/8" ODF
VAL05163	049188	200RB5T4MVLC	5/16"	1/2" ODF Copper Ext Ends
VAL05164	049189	200RB5T5MVLC	5/16"	5/8" ODF Copper Ext Ends
VAL05169	047533	200RB6F5MVLC	3/8"	5/8" SAE
VAL05171	047538	200RB6S4MVLC	3/8"	1/2" SAE
VAL05173	047541	200RB6S5MVLC	3/8"	5/8" ODF
VAL05176	047545	200RB6T4MVLC	3/8"	1/2" ODF Copper Ext Ends
VAL05178	047547	200RB6T5MVLC	3/8"	5/8" ODF Copper Ext Ends
VAL05167	047530	200RB6F4MVLC	3/8"	1/2" SAE
VAL07777	064267	200RB7T5MVLC	7/16"	5/8" ODF Copper Ext Ends
VAL07778	064283	200RB7T7MVLC	7/16"	7/8" ODF Copper Ext Ends
VAL07779	064763	200RB9T5MVLC	9/16"	5/8" ODF
VAL07780	064765	200RB9T7MVLC	9/16"	7/8" ODF
VAL07781	064768	200RB9T9MVLC	9/16"	1-1/8" ODF



# Valves

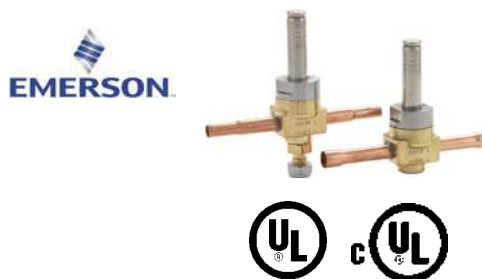
## 200RB Valve Kit



Part #	Mfg #	Reference #	Description
KIT08290	064262	KG00002	Gasket Kit for 200/500RB7
KIT08291	064830	KG00003	Gasket Kit for 200/500RB9
KIT08292	064833	KG00004	Gasket Kit for 200/500RB12
KIT08288	064831	KS30361	Manual Opening Kit for 200RB7
KIT08289	064832	KS30364	Manual Opening Kit for 200RB12
KIT08287	064826	KS30365	Parts Kit for 200RB12
KIT08285	064263	KS30354	Complete Valve Kit for 200RB7
KIT08286	064825	KS30362	Complete Valve Kit for 200RB9
KIT06344	049190	KG10025	Gasket Kit for 200RB, Contains (12) Pieces - Each of PTFE and Neoprene O-Rings

## 200RD Solenoid Valve - 2-Way Normally Closed Pilot-Operated for Refrigerant Service

- Suitable for all refrigerants including R-410A
- One coil fits all valve sizes
- Extended ends for easy installation (standard)
- PTFE O-Ring for superior external sealing
- Maximum fluid temperature: 250°F
- Maximum working pressure: 680 psig
- MOPD: 550 psig
- UL Listed
- cUL file number: MP604



## Nomenclature example: 200RD 4T3M VLC

200R	D	4	T	3	M	VLC
Valve Series	Design Series	Port Size (in 1/16")	Connection Type T = Copper Extended Ends	Connection Size (in 1/8")	M = manual stem T = mounting stud (optional)	Coil*

\*NOTE: Valves are shipped without the solenoid coils (VLC = Valve Less Coil). See available coil assemblies.

## Standard Valve

Part #	Mfg #	Reference #	Port Size	Connection
VAL10071	066163	200RD4T3VLC	1/4"	3/8" ODF Copper Ext Ends



Don't see what you are looking for? We carry thousands of other items. Check with your local parts center.

# Valves

## Mounting Stud

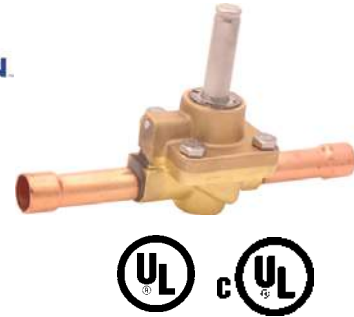
Part #	Mfg #	Reference #	Port Size	Connection
VAL10060	066180	200RD2T3TVLC	1/8"	3/8" ODF Copper Ext Ends

## Manual Stem

Part #	Mfg #	Reference #	Port Size	Connection
VAL10063	066203	200RD3T3MVLC	3/16"	3/8" ODF Copper Ext Ends
VAL10072	066206	200RD4T4MVLC	1/4"	1/2" ODF Copper Ext Ends
VAL10084	066210	200RD5T5MVLC	5/16"	5/8" ODF Copper Ext Ends
VAL10091	066212	200RD6T5MVLC	3/8"	5/8" ODF Copper Ext Ends

## 240RA Solenoid Valve - 2-Way Normally Closed for Refrigerant Service

- Can be brazed into the line without disassembly
- One coil fits all valve sizes
- Extended ends for easy installation (standard)
- PTFE Diaphragm for high temperature applications
- Mounting stud models can be field converted to manual stem
- Maximum fluid temperature: 250°F
- Maximum working pressure: 500 psig
- MOPD: 300 psig
- UL Listed
- cUL Listed: MP604

## Nomenclature example: 240RA8T5M VLC

240R	A**	8	T	5	M	VLC
Valve Series	Design Series	Port Size (in 1/16")	Connection Type T = copper extended ends	Connection Size (in 1/8")	M = manual stem T = mounting stud (optional)	Coil*

\* NOTE: Valves are shipped without the solenoid coils (VLC = Valve Less Coil). For available coil assemblies, see page 84.

\*\*NOTE: Letter "H" is no longer used since all 240RA valves now contain the high temperature diaphragm for hot gas.

## Standard Valve

Part #	Mfg #	Reference #	Port Size	Connection
VAL05199	060374	240RA8T5	1/2"	5/8" ODF Copper Ext Ends
VAL05201	060375	240RA8T7	1/2"	7/8" ODF Copper Ext Ends
VAL05203	060376	240RA9T5	9/16"	5/8" ODF Copper Ext Ends
VAL05205	060377	240RA9T7VLC	9/16"	7/8" ODF Copper Ext Ends
VAL05207	060378	240RA12T5VLC	3/4"	5/8" ODF Copper Ext Ends
VAL05186	060379	240RA12T7VLC	3/4"	7/8" ODF Copper Ext Ends
VAL05187	060380	240RA12T9MVLC	3/4"	1-1/8" ODF Copper Ext Ends
VAL05191	060381	240RA16T9MVLC	1"	1-1/8" ODF Copper Ext Ends
VAL05196	060385	240RA20T17	1-1/4"	2-1/8" ODF Copper Ext Ends



# Valves

## Mounting Stud

Part #	Mfg #	Reference #	Port Size	Connection
VAL02414	044861	240RA9T9TVLC	9/16"	1-1/8" ODF Copper Ext Ends
VAL02416	043959	240RA12T9TVLC	3/4"	1-1/8" ODF Copper Ext Ends
VAL02418	044428	240RA16T11TVLC	1"	1-3/8" ODF Copper Ext Ends
VAL02420	047747	240RA20T13TVLC	1-1/4"	1-5/8" ODF Copper Ext Ends
VAL02421	054297	240RA20T17TVLC	1-1/4"	2-1/8" ODF Copper Ext Ends

## Manual Stem

Part #	Mfg #	Reference #	Port Size	Connection
VAL05198	040845	240RA8T5MVLC	1/2"	5/8" ODF Copper Ext Ends
VAL05200	045753	240RA8T7MVLC	1/2"	7/8" ODF Copper Ext Ends
VAL05202	040847	240RA9T5MVLC	9/16"	5/8" ODF Copper Ext Ends
VAL05206	045752	240RA9T9MVLC	9/16"	1-1/8" ODF Copper Ext Ends
VAL05909	040849	240RA12T7MVLC	3/4"	7/8" ODF Copper Ext Ends
VAL05910	045549	240RA12T9MVLC	3/4"	1-1/8" ODF Copper Ext Ends
VAL05190	042548	240RA16T9MVLC	1"	1-1/8" ODF Copper Ext Ends
VAL05188	044788	240RA16T11MVLC	1"	1-3/8" ODF Copper Ext Ends
VAL05192	046636	240RA20T11MVLC	1-1/4"	1-3/8" ODF Copper Ext Ends
VAL05194	046637	240RA20T13MVLC	1-1/4"	1-5/8" ODF Copper Ext Ends
VAL05195	046638	240RA20T17MVLC	1-1/4"	2-1/8" ODF Copper Ext Ends

## 240RA Solenoid Valve Repair Kit

Part #	Mfg #	Reference #	Description
KIT04979	060626	KS30321	Complete Kit for 240RA8
KIT04983	060630	KS30325	Complete Kit for 240RA20
KIT04963	044657	KS30066	Manual Opener Kit for 240RA8
KIT04965	044491	KS30068	Manual Opener Kit for 240RA16
KIT04969	047723	KS30098	Manual Opener Kit for 240RA20
KIT05054	054356	KG10028	Gasket Kit for All 240RA Valves

## Water Valve for Ice Machine Application

- Normally closed, EBS coil, 1/4" spade
- Totally serviceable
- Mounting bracket standard
- 50/60Hz



Part #	Mfg #	Reference #	Description
VAL08510	062403	207CB EBS	120V/50-60Hz (1-3)
VAL08511	062404	207CB EBS	208-240V/50-60Hz (1-3)



Don't see what you are looking for? We carry thousands of other items. Check with your local parts center.

# Valves

## 214CB Repair Parts Kit

Part #	Mfg #	Reference #	Description
KIT05031	035074	K-1112	214CB Buna-N Seat Solenoid Valve Repair Kit

## 540RA 2-Way Normally Open for Refrigerant Service Solenoid Valve

- One coil fits all valve sizes
- Can be brazed into line without disassembly
- Low pressure differential for full opening
- PTFE Diaphragm
- Maximum fluid temperature: 250°F
- Maximum working pressure: 500 psig
- MOPD: 250 psig
- UL Listed
- cUL Listed: MP604



## Nomenclature example: 540RA 8T5 VLC

540R	A	8	T	5	VLC
<b>Valve Series</b>	<b>Design Series</b>	<b>Port Size</b> (in 1/16")	<b>Connection Type</b> T = copper extended ends	<b>Connection Size</b> (in 1/8")	<b>Coil*</b>

\* NOTE: Valves are shipped without the solenoid coils (VLC = Valve Less Coil). See coil assemblies for availability.

## Standard Valve

Part #	Mfg #	Reference #	Port Size	Connection
VAL05249	060392	540RA8T5VLC	1/2"	5/8" ODF Copper Ext Ends
VAL05255	060395	540RA9T7VLC	9/16"	7/8" ODF Copper Ext Ends
VAL05235	060397	540RA12T7VLC	3/4"	7/8" ODF Copper Ext Ends
VAL05237	060398	540RA12T9VLC	3/4"	1-1/8" ODF Copper Ext Ends
VAL05241	060399	540RA16T9VLC	1"	1-1/8" ODF Copper Ext Ends
VAL05245	060402	540RA20T13VLC	1-1/4"	1-5/8" ODF Copper Ext Ends

## Mounting Stud

Part #	Mfg #	Reference #	Port Size	Connection
VAL05248	046265	540RA8T5TVLC	1/2"	5/8" ODF Copper Ext Ends
VAL05254	046268	540RA9T7TVLC	9/16"	7/8" ODF Copper Ext Ends
VAL05240	046270	540RA16T9TVLC	1"	1-1/8" ODF Copper Ext Ends

## Parts Kit for 540RA

Part #	Mfg #	Reference #	Description
KIT04986	060633	KS-30328	Parts Kit for 540RA 8
KIT04987	060634	KS-30329	Parts Kit for 540RA 9
KIT04988	060635	KS-30330	Parts Kit for 540RA 12
KIT04989	060636	KS-30331	Parts Kit for 540RA 16
KIT04990	060637	KS30332	Repair Kit for 540RA 20



# Valves

## Solenoid Coils

- One coil fits all valve sizes
- Space-saving designs
- Coil windings are insulated to provide water, shock and vibration protection

### AMF Open Frame Leads

- 12W



Part #	Mfg #	Volts	Hertz
COL09630	057546	120V	50/60Hz
COL09629	057539	24V	50/60Hz
COL09633	057540	208-220/208-240V	50/60Hz
COL09631	057533	277V	50/60Hz
COL09632	057534	480V	50/60Hz

### AMG Junction Box Coil with 6" Leads - Standard

- 12W



Part #	Mfg #	Volts	Hertz
COL03779	057341	24V	50/60Hz
COL03780	057331	120V	50/60Hz
COL03781	057342	208-220/208-240V	50/60Hz
COL09637	057528	277V	60Hz
COL15627	057527	480V	50/60Hz
COL09634	057521	12VDC	
COL09635	057523	24VDC	

### AHG Junction Box Coil with 6" Leads - High Temp

- 12W



Part #	Mfg #	Volts	Hertz
COL09650	057669	24V	50/60Hz
COL09651	057673	120V	50/60Hz
COL09649	057671	208-220/208-240V	50/60Hz

### AMC 1/2" Conduit Coil with 18" Leads

- 12W



Part #	Mfg #	Volts	Hertz
COL09468	057598	120V	50/60Hz
COL05347	057596	12VDC	-



## Valves

**AMS Open Frame Coil with 1/4" Spades**

- 12W



Part #	Mfg #	Volts	Hertz
COL09641	057603	24V	50/60Hz
COL09640	057531	208-220/208-240V	50/60Hz
COL09642	057714	277V	60Hz

**DMG Junction Box Coil with 6" Leads**

- 7W



Part #	Mfg #	Volts	Hertz
COL09647	055129	24V	50/60Hz
COL09648	054762	120V	50/60Hz
COL09646	054764	208-220/208-240V	50/60Hz

**DMS Open Frame Coil with 1/4" Spades**

- 7W



Part #	Mfg #	Volts	Hertz
COL00763	062013	24V	50/60Hz

**ASC2-DIN Coil**

- Requires ASC2 female connector (PCN 059261)



Part #	Mfg #	Volts	Hertz
COL11850	062462	120V	50/60Hz
COL01038	064375	24VDC	-

**AHC 1/2" Conduit Coil with 18" Leads**

- 12W
- Class H



Part #	Mfg #	Volts	Hertz
COL09653	057741	208-220/208-240V	50/60Hz

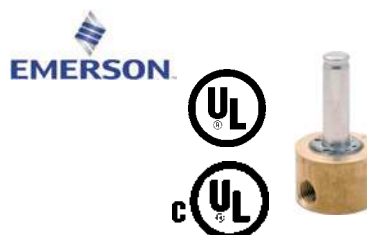


# Valves

## Industrial Solenoid Valves

### 204CD Industrial Solenoid Unidirectional Normally Closed 1/4" NPT Valve

- Air, water or steam applications
- Stainless steel enclosing tubes
- Repair kits available
- Order coil separately
- Maximum working pressure: 500 psi
- Standard voltages: 24V, 120V, 208-240V @ 50-60Hz
- UL Listed
- cUL Listed: MP604



Part #	Mfg #	Reference #	Pipe Size	Orifice	Body Type	Seal	Recommended Coil
VAL03218	030733	204CD1/4B1/8B	1/4"	1/8"	Brass General Purpose	Buna-N	AMC

#### Repair Kit

Part #	Mfg #	Reference #	Description
KIT05029	021105	K-1072	Buna-N Seat 204CD Valve Repair Kit
KIT05030	021107	K-1077	Rulon Seat 204CD Valve Repair Kit

### 210CA Industrial Solenoid 2-Way Normally Closed Pilot-Operated Valve

- Unique captive diaphragm and seal
- Superior life with stainless steel enclosing tube
- Repair kits available
- Order coil separately
- Maximum working pressure: 300 psi, 250 psi on 1" only
- Standard voltages: 24V, 120V, 208-240V @ 50-60Hz
- UL Listed
- cUL Listed: MP604



Part #	Mfg #	Reference #	Pipe Size	Orifice	Body Type	Seal	Recommended Coil
VAL05677	030620	210CA1/2B5/8B	1/2"	5/8"	Brass General Purpose	Buna-N	AMG
VAL05678	030621	210CA3/4B3/4B	3/4"	3/4"	Brass General Purpose	Buna-N	AMG

#### Repair Kit

Part #	Mfg #	Reference #	Description
KIT05043	028964	K-1155	Repair Kit for 3/8" & 1/2" 210CA w/Buna-N
KIT05048	045072	K-1231	Repair Kit for 3/4" 210CA w/Buna-N
KIT05046	038934	K-1177	Repair Kit for 1" 210CA w/Buna-N

### 211CA Valve Repair Kit

Part #	Mfg #	Reference #	Description
KIT05044	034357	K-1157	Repair Kit for 211CA w/Buna-N
KIT05045	039879	K-1158	Repair Kit for 211CA w/Ethylene Propylene



# Valves

## 222CB Industrial Solenoid 2-Way Normally Closed

- Air, water and steam applications
- Forged brass body with large wrench flats
- Repair kits available
- Order coil separately
- Maximum working pressure: 300 psi
- Minimum operating pressure differential: 5 psi
- Standard voltages: 24V, 120V, 208-240V @ 50-60Hz
- UL Listed
- cUL Listed: MP604



Part #	Mfg #	Reference #	Pipe Size	Orifice	Body Type	Seal	Recommended Coil
VAL05671	039917	222CB1/2B1/2B	1/2"	1/2"	Brass General Purpose	Buna-N	AMG
VAL05672	028192	222CB3/4B3/4B	3/4"	3/4"	Brass General Purpose	Buna-N	AMG
VAL05673	039931	222CB1B1B	1"	1"	Brass General Purpose	Buna-N	AMG
VAL07787	039918	222CB1-1/4B1-1/4B	1-1/4"	1-1/4"	Brass General Purpose	Buna-N	AMG
VAL05666	037958	222CB1/2B1/2T	1/2"	1/2"	Brass Stem	Rulon w/Ethylene Propylene	AHG
VAL05670	040582	222CB1-1/2B1-1/2T	1-1/2"	1-1/2"	Brass Stem	Rulon w/Ethylene Propylene	AHG

### Repair Kit

Part #	Mfg #	Reference #	Description
KIT05033	030765	K-1116	3/8" & 1/2" Buna-N Seat 222CB Valve Repair Kit
KIT05034	029235	K-1118	3/8" & 1/2" Rulon Seat 222CB Valve Repair Kit
KIT05035	037558	K-1120	3/4" Buna-N Seat 222CB Valve Repair Kit
KIT05036	021109	K-1122	3/4" Rulon Seat 222CB Valve Repair Kit
KIT05037	028955	K-1124	1" Buna-N Seat 222CB Valve Repair Kit
KIT05038	034178	K-1126	1" Rulon Seat 222CB Valve Repair Kit
KIT05039	031349	K-1128	1-1/4" Buna-N Seat 222CB Valve Repair Kit
KIT05040	034047	K-1130	1-1/4" Rulon Seat 222CB Valve Repair Kit
KIT05041	028956	K-1132	1-1/2" Buna-N Seat 222CB Valve Repair Kit



# Valves

## A-Series Thermal Expansion Valves

- A-Series is used for heat pump, air conditioning, food services and commercial applications
- Hermetic, leak-free compact construction
- Stainless steel power element
- Options
  - ZW195 charge available for R-410A systems
  - Adjustable or non-adjustable superheat
  - SAE or ODF connections standard – Chatleff or Aeroquip are available
  - External or internal equalizer
  - Internal check valve allows reverse flow for heat pump applications, eliminating the need for external piping and external check valve
  - Bleed type pressure equalization to accommodate PSC type compressors
  - Pressure limiting charges (MOP) available
- Maximum working pressure: 700 psig
- UL/cUL File number: SA5312



## AA Adjustable ODF External Equalizer - Straight-Thru Body

Part #	Mfg #	Reference #	Nom Capacity Tons	Refrig	Charge Code	Capillary Tube Length	Inlet x Outlet Connections
VAL08515	065687	AAE12SZ	0.5	R-404A	Low Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL08516	065183	AAE1SZ	1.0	R-404A	Low Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL08517	065697	AAE11/2SZ	1.5	R-404A	Low Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL08635	059616	AAEB2HCA	2.0	R-22	Heat Pump	30"	3/8" x 1/2" ODF Straight-thru
VAL09181	013938	AAE21/2HAA	2.5	R-22	Wide Range	30"	Chatleff
VAL08659	059603	AAEB3HCA	3.0	R-22	Heat Pump	30"	3/8" x 1/2" ODF Straight-thru
VAL08238	065579	AAE3ZW195	3.0	R-410A	A/C Medium Temp	30"	3/8" x 1/2" ODF Straight-thru
VAL08736	059605	AAE4HCA	4.0	R-22	Heat Pump	30"	3/8" x 1/2" ODF Straight-thru
VAL08550	062088	AAE5HW10045	5.0	R-22	MOP	5'	3/8" x 5/8" ODF Straight-thru
VAL08737	059607	AAEB5HCA	5.0	R-404A	Heat Pump	30"	1/2" x 1/2" ODF Straight-Thru
VAL08239	065580	AAE5ZW19545	5.0	R-410A	A/C Medium Temp	30"	1/2" x 5/8" ODF Straight-thru

## AA Adjustable ODF External Equalizer- Straight-Thru Body w/Check Valve

- Reverse flow bypass application

Part #	Mfg #	Reference #	Nom Capacity Tons	Refrig	Charge Code	Capillary Tube Length	Inlet x Outlet Connections
VAL08600	063676	AACEBHCA	2.0	R-22	Heat Pump	30"	3/8" x 1/2" ODF Straight-thru
VAL08601	063808	AACE21/2HCA	2.5	R-22	Heat Pump	30"	1/2" x 1/2" ODF Straight-thru
VAL07065	064102	AACE21/2HAA	2.5	R-22	Wide Range	30"	3/8" x 1/2" ODF Straight-thru
VAL07067	014091	AACE21/2HAA	2.5	R-22	Wide Range	30"	Chatleff
VAL09104	065873	AACE3ZW195	3.0	R-410A	A/C Medium Temp	30"	3/8" x 1/2" ODF Straight-thru
VAL08523	065581	AACE3ZW195	3.0	R-410A	A/C Medium Temp	-	3/8" x 1/2" ODF Straight-thru
VAL08602	064429	AACE4HCA	4.0	R-22	Heat Pump	30"	3/8" x 5/8" ODF Straight-thru
VAL07066	064103	AACE5HAA	5.0	R-22	Wide Range	30"	3/8" x 1/2" ODF Straight-thru
VAL07068	014092	AACE5HAA	5.0	R-22	Wide Range	30"	Chatleff
VAL09106	065875	AACE5ZW195	5.0	R-410A	A/C Medium Temp	5'	1/2" x 5/8" ODF Straight-thru
VAL08524	065582	AACE5ZW195	5.0	R-410A	A/C Medium Temp	5'	1/2" x 5/8" ODF Straight-thru



# Valves

## ACP(E) Automatic Thermal Expansion Valves

- Designed for small cooling units where the heat load is reasonably constant
- Ideal for room air conditioners, domestic refrigerators, drink dispensers, food dispensers, ice cream cabinets, bottle coolers, home freezers, ice cube makers, ice cream freezers and milk coolers applications requiring angle configuration SAE connections
- Friction-free floating design
- Can be used as a small capacity hot gas bypass valve
- Fully adjustable from 0-80 psig (factory setting 40 psig)
- Wrench flats on inlets and outlets
- Options:
  - Internal or external equalizer
  - SAE or ODF Connections
- Maximum working pressure: 500 psig
- UL/cUL File number: SA5312



## ACP(E) Automatic Internal Equalizer

Part #	Mfg #	Reference #	Port Diameter	Inlet x Outlet Connections
REG00227	046838	ACP1IE	0.05"	1/4" x 3/8"-1/2" SAE Angle
REG00226	047680	ACP1IE	0.05"	1/4" x 3/8" ODF Angle
REG00228	047651	ACP2IE	0.06"	1/4" x 3/8" ODF Angle
REG00231	046840	ACP3IE	0.10"	1/4" x 3/8"-1/2" SAE Angle
REG00233	047101	ACP4IE	0.11"	1/4" x 3/8" SAE Angle
REG00236	047284	ACP5IE	0.13"	1/4" x 3/8" ODF Angle
REG00240	047653	ACP6IE	0.14"	1/4" x 3/8" SAE Angle
REG00237	053374	ACP5IE	0.13"	3/8" x 3/8" ODF Angle
REG00242	047285	ACP7IE	0.17"	3/8" x 3/8"-1/2" SAE Angle
REG00241	047654	ACP7IE	0.17"	3/8" x 1/2" ODF Angle
REG00243	047655	ACP8IE	0.20"	3/8" x 1/2" SAE Angle
REG00246	047658	ACP9IE	0.23"	3/8" x 3/8"-1/2" SAE Angle





# Valves

## AFA(E) Series Thermal Expansion Valves

- AFA-Series is used for air conditioning and commercial refrigeration applications requiring angle configuration SAE connections
- External superheat adjustment
- Stainless steel power element
- Replaceable inlet strainer
- Compact design for applications requiring stable and accurate control over wide load and evaporator temperature ranges
- Options:
  - External or internal equalizer
- Maximum working pressure: 700 psig
- UL/cUL File number: SA5312



## AFA Adjustable SAE Internal Equalizer - Angle Body

Part #	Mfg #	Reference #	Nom Capacity Tons	Refrig	Charge Code	Capillary Tube Length	Inlet x Outlet Connections
VAL06833	057047	AFA1/4FC	0.25	R-12	Medium Temp	30"	1/4" x 3/8"-1/2" SAE Angle
VAL06836	057261	AFA1/4HC	0.25	R-22	Medium Temp	30"	1/4" x 3/8"-1/2" SAE Angle
VAL08513	057607	AFA1/4MC	0.25	R-134a	Medium Temp	30"	1/4" x 3/8"-1/2" SAE Angle
VAL06834	057028	AFA1/2FC	0.5	R-12	Medium Temp	30"	1/4" x 3/8"-1/2" SAE Angle
VAL06837	057260	AFA1/2HC	0.5	R-22	Medium Temp	30"	1/4" x 3/8"-1/2" SAE Angle
VAL08514	057606	AFA1/2MC	0.5	R-134a	Medium Temp	30"	1/4" x 3/8"-1/2" SAE Angle
VAL08339	054232	AFA11/2HC	1.5	R-22	Medium Temp	5'	3/8" x 3/8"-1/2" SAE Angle

## AFAE Adjustable SAE External Equalizer - Angle Body

Part #	Mfg #	Reference #	Nom Capacity Tons	Refrig	Charge Code	Capillary Tube Length	Inlet x Outlet Connections
VAL08340	054247	AFAE11/2HC	1.5	R-22	Medium Temp	5'	3/8" x 3/8"-1/2" SAE Angle



# Valves

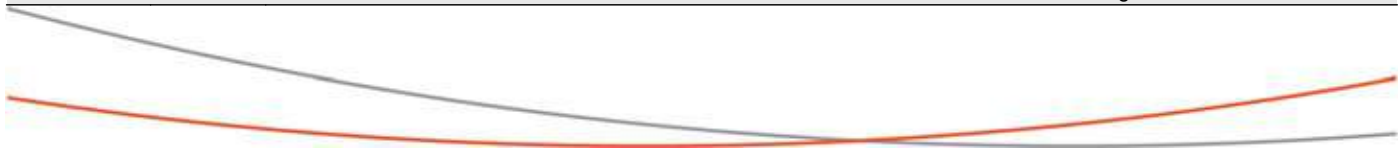
## HF Series Balanced Port Thermal Expansion Valves

- Two body sizes provide capacities from 1/4 to 20 tons
- Stainless steel replaceable power element
- Bi-flow capability up to 5-1/2 tons R-22 allows one valve to control the superheat in both cooling and heating modes for packaged unit heat pump applications
- Individual components can be ordered separately (HFK)
- Finished valves can be ordered ready for installation
- Pre-packaged HFK service kits available
- Options:
  - ODF or SAE connections
  - Straight-through or angle flow configurations
  - Removable inlet strainer (ODF only)
  - Internal or external equalizer
- 5' Capillary tube length standard
- Maximum working pressure: 450 psig



## HF Adjustable SAE Internal Equalizer

Part #	Mfg #	Reference #	Nom Capacity Tons	Refrig	Charge Code	Capillary Tube Length	Inlet x Outlet Connections
VAL05307	009811	HF1/4FC	0.25	R-12	Medium Temp	5'	1/4" x 1/2" SAE Angle
VAL05308	054134	HF1/4FC	0.25	R-12	Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05312	054921	HF1/4HC	0.25	R-22	A/C Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05315	059304	HF1/4RC	0.25	R-502	Medium Temp	5'	1/4" x 1/2" SAE Angle
VAL05316	054137	HF1/4RC	0.25	R-502	Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05317	054962	HF1/4RW	0.25	R-502	MOP	5'	3/8" x 1/2" SAE Angle
VAL05318	054369	HF1/4RZ	0.25	R-502	Low Temp	5'	3/8" x 1/2" SAE Angle
VAL05311	058430	HF1/4HC	0.25	R-22	Medium Temp	5'	1/4" x 1/2" SAE Angle
VAL05302	054362	HF1/2HW	0.5	R-22	MOP	5'	3/8" x 1/2" SAE Angle
VAL05303	054364	HF1/2HZ	0.5	R-22	Low Temp	5'	3/8" x 1/2" SAE Angle
VAL05296	009810	HF1/2FC	0.5	R-12	Medium Temp	5'	1/4" x 1/2" SAE Angle
VAL05297	054892	HF1/2FC	0.5	R-12	Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05298	054894	HF1/2FW	0.5	R-12	MOP	5'	3/8" x 1/2" SAE Angle
VAL05301	054135	HF1/2HC	0.5	R-22	A/C Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05300	009812	HF1/2HC	0.5	R-22	A/C Medium Temp	5'	1/4" x 1/2" SAE Angle
VAL05304	054964	HF1/2RC	0.5	R-502	Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05305	054966	HF1/2RW	0.5	R-502	MOP	5'	3/8" x 1/2" SAE Angle
VAL05306	054965	HF1/2RZ	0.5	R-502	Low Temp	5'	3/8" x 1/2" SAE Angle
VAL07984	057619	HF1FC	1.0	R-12	Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05290	054927	HF1HC	1.0	R-22	A/C Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05292	054928	HF1HZ	1.0	R-22	Low Temp	5'	3/8" x 1/2" SAE Angle
VAL05293	054976	HF1RC	1.0	R-502	Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05287	054905	HF1RC	1.0	R-502	Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05295	054977	HF1RZ	1.0	R-502	Low Temp	5'	3/8" x 1/2" SAE Angle
VAL05294	054978	HF1RW45	1.0	R-502	MOP	5'	3/8" x 1/2" SAE Angle
VAL05325	054914	HF11/2FC	1.5	R-12	Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05328	054933	HF11/2HC	1.5	R-22	A/C Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05331	054984	HF11/2RW	1.5	R-502	MOP	5'	3/8" x 1/2" SAE Angle



# Valves

## HF Series Balanced Port Thermal Expansion Valves (Continued)

### HF Adjustable SAE Internal Equalizer

Part #	Mfg #	Reference #	Nom Capacity Tons	Refrig	Charge Code	Capillary Tube Length	Inlet x Outlet Connections
VAL05333	054986	HF11/2RZ	1.5	R-502	Low Temp	5'	3/8" x 1/2" SAE Angle
VAL05334	053060	HF2FC	2.0	R-12	Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05337	054939	HF2HC	2.0	R-22	Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05340	053061	HF2RC	2.0	R-502	Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05343	054947	HF21/2HC	2.5	R-22	Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05346	053316	HF3HC	3.0	R-22	A/C Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05601	053915	HFS3HC	3.0	R-22	A/C Medium Temp	5'	3/8" x 1/2" SAE Straight-thru
VAL05350	055936	HF31/2RC	3.5	R-502	A/C Medium Temp	5'	3/8" x 1/2" SAE Angle

### HFS Adjustable ODF Solder Internal Equalizer

Part #	Mfg #	Reference #	Nom Capacity Tons	Refrig	Charge Code	Capillary Tube Length	Inlet x Outlet Connections
VAL05584	055633	HFS1/4HC	0.25	R-22	A/C Medium Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL05583	055493	HFS1/4HC	0.25	R-22	A/C Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05585	055490	HFS1/4RC	0.25	R-502	Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05588	055792	HFS1/4RZ	0.25	R-502	Low Temp	5'	1/4" x 3/8" ODF Straight-thru
VAL05574	056063	HFS1/2FC	0.5	R-12	A/C Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05576	054136	HFS1/2HC	0.5	R-22	A/C Medium Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL05575	054723	HFS1/2HC	0.5	R-22	A/C Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05578	056014	HFS1/2RW	0.5	R-502	MOP	5'	3/8" x 1/2" ODF Straight-thru
VAL05580	056008	HFS1/2RZ	0.5	R-502	Low Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL05579	055874	HFS1/2RZ	0.5	R-502	Low Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL05568	055702	HFS1HC	1.0	R-22	Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05573	055875	HFS1RZ	1.0	R-502	Low Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL05590	055969	HFS11/2HC	1.5	R-22	A/C Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05591	056018	HFS11/2HC	1.5	R-22	A/C Medium Temp	5'	3/8" x 1/2" ODF Straight-thru

### HFSC Adjustable ODF Solder Internal Equalizer with Removable Inlet Strainer - Angle

Part #	Mfg #	Reference #	Nom Capacity Tons	Refrig	Charge Code	Capillary Tube Length	Inlet x Outlet Connections
VAL05617	057467	HFSC1/4HC	0.25	R-22	A/C Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05620	057487	HFSC1/4RC	0.25	R-502	A/C Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05622	057484	HFSC1/4RZ	0.25	R-502	Low Temp	5'	3/8" x 1/2" ODF Angle
VAL05610	057293	HFSC1/2HC	0.5	R-22	Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05612	057482	HFSC1/2HZ	0.5	R-22	Low Temp	5'	3/8" x 1/2" ODF Angle
VAL05613	057488	HFSC1/2RC	0.5	R-502	Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05615	057485	HFSC1/2RZ	0.5	R-502	Low Temp	5'	3/8" x 1/2" ODF Angle
VAL05608	057486	HFSC1RZ	1.0	R-502	Low Temp	5'	3/8" x 1/2" ODF Angle
VAL05603	057468	HFSC1HC	1.0	R-22	A/C Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05630	057470	HFSC2HC	2.0	R-22	A/C Medium Temp	5'	3/8" x 1/2" ODF Angle



# Valves

## HFE Adjustable SAE External Equalizer

Part #	Mfg #	Reference #	Nom Capacity Tons	Refrig	Charge Code	Capillary Tube Length	Inlet x Outlet Connections
VAL05373	054360	HFE1/4FC	0.25	R-12	Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05376	054924	HFE1/4HC	0.25	R-22	Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05378	054925	HFE1/4HZ	0.25	R-22	Low Temp	5'	3/8" x 1/2" SAE Angle
VAL05380	054963	HFE1/4RW	0.25	R-502	MOP	5'	3/8" x 1/2" SAE Angle
VAL05381	054370	HFE1/4RZ	0.25	R-502	Low Temp	5'	3/8" x 1/2" SAE Angle
VAL05368	054365	HFE1/4RC	0.25	R-502	Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05379	054366	HFE1/4HZ	0.5	R-22	Low Temp	5'	3/8" x 1/2" SAE Angle
VAL05362	009955	HFE1/2FC	0.5	R-12	Medium Temp	5'	1/4" x 1/2" SAE Angle
VAL05363	054895	HFE1/2FC	0.5	R-12	Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05366	054361	HFE1/2HC	0.5	R-22	A/C Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05369	054967	HFE1/2RC	0.5	R-502	Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05370	054969	HFE1/2RW	0.5	R-502	MOP	5'	3/8" x 1/2" SAE Angle
VAL05355	054910	HFE1FZ	1.0	R-12	Low Temp	5'	3/8" x 1/2" SAE Angle
VAL05352	054909	HFE1FC	1.0	R-12	Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05356	054930	HFE1HC	1.0	R-22	A/C Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05358	054931	HFE1HZ	1.0	R-22	Low Temp	5'	3/8" x 1/2" SAE Angle
VAL05357	054932	HFE1HW	1.0	R-22	MOP	5'	3/8" x 1/2" SAE 30° Angle
VAL05360	054981	HFE1RW45	1.0	R-502	MOP	5'	3/8" x 1/2" SAE 30° Angle
VAL05359	054979	HFE1RC	1.0	R-502	Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05361	054980	HFE1RZ	1.0	R-502	Low Temp	5'	3/8" x 1/2" SAE Angle
VAL05388	054917	HFE11/2FC	1.5	R-12	Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05392	054936	HFE11/2HC	1.5	R-22	A/C Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05394	054937	HFE11/2HZ	1.5	R-22	Low Temp	5'	3/8" x 1/2" SAE Angle
VAL05395	054988	HFE11/2RC	1.5	R-502	Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05397	054989	HFE11/2RZ	1.5	R-502	Low Temp	5'	3/8" x 1/2" SAE Angle
VAL05396	054990	HFE11/2RW45	1.5	R-502	MOP	5'	3/8" x 1/2" SAE 30° Angle
VAL05398	053069	HFE2FC	2.0	R-12	Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05401	054942	HFE2HC	2.0	R-22	A/C Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05403	054943	HFE2HZ	2.0	R-22	Low Temp	5'	3/8" x 1/2" SAE Angle
VAL05404	053070	HFE2RC	2.0	R-502	Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05406	053071	HFE2RZ	2.0	R-502	Low Temp	5'	3/8" x 1/2" SAE Angle
VAL05405	054992	HFE2RW	2.0	R-502	MOP	5'	3/8" x 1/2" SAE Angle
VAL05407	054950	HFE21/2HC	2.5	R-22	A/C Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05410	053191	HFE3HZ	3.0	R-22	A/C Low Temp	5'	3/8" x 1/2" SAE Angle
VAL05411	053317	HFE3HC	3.0	R-22	A/C Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05413	054138	HFE31/2FC	3.5	R-12	Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05416	054142	HFE31/2RC	3.5	R-502	Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05417	054993	HFE31/2RW	3.5	R-502	MOP	5'	3/8" x 1/2" SAE Angle
VAL05418	054145	HFE31/2RZ	3.5	R-502	Low Temp	5'	3/8" x 1/2" SAE Angle
VAL05419	054140	HFE51/2HC	5.5	R-22	A/C Medium Temp	5'	3/8" x 1/2" SAE Angle
VAL05421	054777	HFE51/2HZ	5.5	R-22	Low Temp	5'	3/8" x 1/2" SAE Angle



# Valves

## HFES Adjustable ODF Solder External Equalizer

Part #	Mfg #	Reference #	Nom Capacity Tons	Refrig	Charge Code	Capillary Tube Length	Inlet x Outlet Connections
VAL05449	055927	HFES1/4HC	0.25	R-22	A/C Medium Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL05454	055092	HFES1/4RC	0.25	R-502	A/C Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05456	055491	HFES1/4RZ	0.25	R-502	Low Temp	5'	3/8" x 1/2" ODF Angle
VAL05437	056021	HFES1/2FC	0.5	R-12	Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05438	055827	HFES1/2HC	0.5	R-22	A/C Medium Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL05439	054838	HFES1/2HC	0.5	R-22	A/C Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL08518	065735	HFES1/2SZ	0.5	R-404A	Low Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL05446	056024	HFES1/2RZ	0.5	R-502	Low Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL05447	055497	HFES1/2RZ	0.5	R-502	Low Temp	5'	3/8" x 1/2" ODF Angle
VAL05444	055996	HFES1/2RW45	0.5	R-502	MOP 45 psi	5'	3/8" x 1/2" ODF 30° Angle
VAL05443	055992	HFES1/2RC	0.5	R-502	Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05422	055993	HFES1FC	1.0	R-12	Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05423	055708	HFES1HC	1.0	R-22	A/C Medium Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL05424	055494	HFES1HC	1.0	R-22	A/C Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL07962	058546	HFES1MC	1.0	R-134a	Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL08519	064289	HFES1SZ	1.0	R-404A	Low Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL05431	056029	HFES1RC	1.0	R-502	Medium Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL05430	054983	HFES1RC	1.0	R-502	Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05432	055948	HFES1RW45	1.0	R-502	MOP	5'	3/8" x 1/2" ODF Straight-thru
VAL05435	055496	HFES1RZ	1.0	R-502	Low Temp	5'	3/8" x 1/2" ODF Angle
VAL05459	055994	HFES11/2FC	1.5	R-12	Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05461	055863	HFES11/2HC	1.5	R-22	A/C Medium Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL05460	055495	HFES11/2HC	1.5	R-22	A/C Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL08520	064290	HFES11/2SZ	1.5	R-404A	Low Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL05465	055657	HFES11/2RC	1.5	R-502	Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05466	056031	HFES11/2RC	1.5	R-502	Medium Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL05468	055878	HFES11/2RZ	1.5	R-502	Low Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL05469	055498	HFES11/2RZ	1.5	R-502	Low Temp	5'	3/8" x 1/2" ODF Angle
VAL05467	056032	HFES11/2RW45	1.5	R-502	MOP	5'	3/8" x 1/2" ODF Straight-thru
VAL05476	054946	HFES2HC	2.0	R-22	Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05475	055706	HFES2HC	2.0	R-22	A/C Medium Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL08521	065739	HFES2SZ	2.0	R-404A	Low Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL05483	054768	HFES2RC	2.0	R-502	Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05482	053270	HFES2RC	2.0	R-502	Medium Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL05486	054844	HFES2RZ	2.0	R-502	Low Temp	5'	3/8" x 1/2" ODF Angle
VAL06502	055947	HFES2RW	2.0	R-502	MOP	5'	3/8" x 1/2" ODF Straight-thru
VAL05485	053271	HFES2RZ	2.0	R-502	Low Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL05489	056042	HFES21/2HC	2.5	R-22	A/C Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05488	055931	HFES21/2HC	2.5	R-22	A/C Medium Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL05490	053916	HFES3HC	2.5	R-22	A/C Medium Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL05492	054756	HFES3HC	3.0	R-22	A/C Medium Temp	5'	3/8" x 1/2" ODF Angle



# Valves

## HF Series Balanced Port Thermal Expansion Valves (Continued)

### HFES Adjustable ODF Solder External Equalizer

Part #	Mfg #	Reference #	Nom Capacity Tons	Refrig	Charge Code	Capillary Tube Length	Inlet x Outlet Connections
VAL05500	054143	HFES31/2RC	3.5	R-502	Medium Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL05499	054783	HFES31/2RC	3.5	R-502	Medium Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL05505	054784	HFES31/2RZ	3.5	R-502	Low Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL05504	054785	HFES31/2RZ	3.5	R-502	Low Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL05512	054780	HFES51/2HZ	5.5	R-22	Low Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL05508	054141	HFES51/2HC	5.5	R-22	A/C Medium Temp	5'	3/8" x 1/2" ODF Straight-thru
VAL08484	057378	HFES51/2HCA	5.5	R-22	Heat Pump	5'	1/2" x 5/8" ODF Straight-thru
VAL07098	055187	HFES51/2HC	5.5	R-22	A/C Medium Temp	5'	1/2" x 7/8" ODF Straight-thru
VAL05510	054779	HFES51/2HC	5.5	R-22	A/C Medium Temp	5'	5/8" x 7/8" ODF Straight-thru
VAL05507	054778	HFES51/2HC	5.5	R-22	A/C Medium Temp	5'	1/2" x 5/8" ODF Angle
VAL07373	057903	HFES6MC	6.0	R-134a	A/C Medium Temp	5'	5/8" x 7/8" ODF Straight-thru
VAL04911	056818	HFES8HCA	8.0	R-22	Heat Pump	5'	1/2" x 7/8" ODF Straight-thru
VAL05516	056819	HFES8HCA	8.0	R-22	Heat Pump	5'	5/8" x 1-1/8" ODF Straight-thru
VAL07375	058681	HFES11MC	11.0	R-134a	Medium Temp	10'	7/8 x 1-1/8" ODF Straight-thru
VAL07374	064000	HFES14MC	14.0	R-134a	Medium Temp	10'	7/8" x 1-3/8" ODF Straight-thru
VAL05471	056823	HFES15HCA	15.0	R-22	Heat Pump	5'	5/8" x 7/8" ODF Straight-thru
VAL05487	058490	HFES20HCA	20.0	R-22	Heat Pump	5'	7/8" x 1-1/8" ODF Straight-thru

### HFESC Adjustable ODF Solder External Equalizer with Removable Inlet Strainer - Angle

Part #	Mfg #	Reference #	Nom Capacity Tons	Refrig	Charge Code	Capillary Tube Length	Inlet x Outlet Connections
VAL05534	057409	HFESC1/4HC	0.25	R-22	A/C Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05536	057428	HFESC1/4HZ	0.25	R-22	Low Temp	5'	3/8" x 1/2" ODF Angle
VAL05538	057442	HFESC1/4RW	0.25	R-502	MOP	5'	3/8" x 1/2" ODF Angle
VAL05525	057397	HFESC1/2FC	0.5	R-12	Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05527	057291	HFESC1/2HC	0.5	R-22	A/C Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05528	057414	HFESC1/2HW	0.5	R-22	MOP	5'	3/8" x 1/2" ODF Angle
VAL05529	057429	HFESC1/2HZ	0.5	R-22	Low Temp	5'	3/8" x 1/2" ODF Angle
VAL05530	057437	HFESC1/2RC	0.5	R-502	Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05531	057455	HFESC1/2RZ	0.5	R-502	Low Temp	5'	3/8" x 1/2" ODF Angle
VAL05517	057398	HFESC1FC	1.0	R-12	Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05520	057416	HFESC1HW	1.0	R-22	MOP	5'	3/8" x 1/2" ODF Angle
VAL05521	057430	HFESC1HZ	1.0	R-22	Low Temp	5'	3/8" x 1/2" ODF Angle
VAL05523	057446	HFESC1RW45	1.0	R-502	MOP	5'	3/8" x 1/2" ODF Angle
VAL05519	057410	HFESC1HC	1.0	R-22	A/C Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05522	057438	HFESC1RC	1.0	R-502	Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05524	057456	HFESC1RZ	1.0	R-502	Low Temp	5'	3/8" x 1/2" ODF Angle
VAL05541	057399	HFESC1-1/2FC	1.5	R-12	Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05540	057292	HFESC11/2HC	1.5	R-22	A/C Medium Temp	5'	3/8" x 1/2" ODF Angle



# Valves

## HF Series Balanced Port Thermal Expansion Valves (Continued)

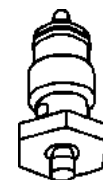
### HFESC Adjustable ODF Solder External Equalizer with Removable Inlet Strainer - Angle

Part #	Mfg #	Reference #	Nom Capacity Tons	Refrig	Charge Code	Capillary Tube Length	Inlet x Outlet Connections
VAL05542	057419	HFESC11/2HW	1.5	R-22	MOP	5'	3/8" x 1/2" ODF Angle
VAL05543	057321	HFESC11/2HZ	1.5	R-22	Low Temp	5'	3/8" x 1/2" ODF Angle
VAL05544	057439	HFESC11/2RC	1.5	R-502	Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05545	057448	HFESC11/2RW	1.5	R-502	MOP	5'	3/8" x 1/2" ODF Angle
VAL05546	057322	HFESC11/2RZ	1.5	R-502	Low Temp	5'	3/8" x 1/2" ODF Angle
VAL05549	057294	HFESC2HC	2.0	R-22	A/C Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05551	057433	HFESC2HZ	2.0	R-22	Low Temp	5'	3/8" x 1/2" ODF Angle
VAL05552	057440	HFESC2RC	2.0	R-502	Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05553	057457	HFESC2RZ	2.0	R-502	Low Temp	5'	3/8" x 1/2" ODF Angle
VAL05554	057411	HFESC21/2HC	2.5	R-22	A/C Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05556	057434	HFESC21/2HC	2.5	R-22	Low Temp	5'	3/8" x 1/2" ODF Angle
VAL05561	057441	HFESC21/2RC	3.5	R-502	Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05562	057453	HFESC21/2RW	3.5	R-502	MOP	5'	3/8" x 1/2" ODF Angle
VAL05557	057412	HFESC3HC	3.0	R-22	A/C Medium Temp	5'	3/8" x 1/2" ODF Angle
VAL05563	057458	HFESC31/2RZ	3.5	R-502	Low Temp	5'	3/8" x 1/2" ODF Angle
VAL05565	057781	HFESC51/2HC	5.5	R-22	A/C Medium Temp	5'	3/8" x 1/2" ODF Angle

## HF/HFK Components

### HFK Part - Cage Kit

- Includes:
  - Cage
  - Insertion tool
  - ID Clips



Part #	Mfg #	Reference #	Cage Code	R-22 Tons
VAL09102	064871	KT-20299-3	3	1.5
VAL09103	064872	KT-20299-4	4	2.0
VAL09105	064874	KT-20299-6	6	3.0

### HFSC/HFESC Replacement Part

Part #	Mfg #	Reference #	Description
KIT04955	057686	KT-20264	Kit Includes Seal Cap, Gasket O-Ring, Screen, Spring for HFSC/HFESC Only



# Valves

## LCL Take-Apart DeSuperheating Expansion Valves

- Liquid injection valve used in conjunction with hot gas bypass to prevent excessive suction line superheat
- Can be used for interstage cooling in compound systems
- Stainless steel power element eliminates corrosion and prevents valve failure
- Options:
  - Interchangeable, replaceable cages
  - External superheat adjustment
  - Interchangeable body flanges
  - Interchangeable power assemblies
- 5' Capillary tube length standard
- Attaches to TCL flanges
- Maximum working pressure: 450 psig



## LCL Take-Apart Valve less Flange - Internal Equalizer SAE

Part #	Mfg #	Reference #	Nom Capacity Tons	Refrig	Capillary Tube Length	Replaces
VAL05847	022018	LCL1A	1.0	R-22, R-404, R-507	5'	LA(E)S 1/2
VAL05848	022017	LCL1B	1.0	R-134a, R-22, R-404A, R-507	5'	LA(E)S 1/2
VAL05850	022005	LCL2A	2.0	R-22, R-404, R-507	5'	LA(E)S 1
VAL05851	021996	LCL2B	2.0	R-134a, R-22, R-404A, R-507	5'	LA(E)S 1
VAL05852	045527	LCL2C	2.0	R-134a, R-22, R-404A, R-507	5'	LA(E)S 1
VAL05853	055093	LCL3A	3.0	R-22, R-404A, R-507	5'	LA(E)S 2
VAL05854	021987	LCL3B	3.0	R-134a, R-22, R-404A, R-507	5'	LA(E)S 2

## LCL Take-Apart Valve less Flange - External Equalizer 1/4" SAE

Part #	Mfg #	Reference #	Nom Capacity Tons	Refrig	Capillary Tube Length	Replaces
VAL05859	055096	LCLE1A	1.0	R-22, R-404A, R-507	5'	-
VAL05861	022003	LCLE2A	2.0	R-22, R-404A, R-507	5'	-
VAL05862	021997	LCLE2B	2.0	R-134a, R-22, R-404A, R-507	5'	-
VAL05863	021991	LCLE3A	3.0	R-22, R-404A, R-507	5'	-
VAL05864	021985	LCLE3B	3.0	R-134a, R-22, R-404A, R-507	5'	-
VAL05865	055097	LCLE4C	4.0	R-134a, R-22, R-404A, R-507	5'	-





# Valves

## TRAE Thermal Expansion Valves

- Large capacity valve for chiller, heat pump, refrigeration and air conditioning applications
- Suitable for bi-flow applications
- Integral body with straight-through connections
- Balanced port design improves valve operation and stability over wide loads and evaporator temperature range
- Solid copper connections
- External superheat adjustment
- Maximum working pressure: 450 psig



### TRAE External 1/4" SAE Equalizer

Part #	Mfg #	Reference #	Nom Capacity Tons	Refrig	Charge Code	Capillary Tube Length	Inlet x Outlet Connections
VAL07767	061866	TRAE70HC	70.0	R-22	A/C Medium Temp	10'	1-1/8" x 1-3/8" ODF Straight-thru
VAL07766	061865	TRAE60HC	60.0	R-22	A/C Medium Temp	10'	1-1/8" x 1-3/8" ODF Straight-thru
VAL07765	061700	TRAE50HC	50.0	R-22	A/C Medium Temp	10'	1-1/8" x 1-3/8" ODF Straight-thru
VAL02393	061867	TRAE70HW	70.0	R-22	MOP	10'	1-1/8" x 1-3/8" ODF Straight-thru

## TRAE+ Thermal Expansion Valves

- Large capacity valve for chiller, heat pump, refrigeration and air conditioning applications
- Suitable for bi-flow applications
- Integral body with straight-through connections
- Balanced port design improves valve operation and stability over wide loads and evaporator temperature range
- Solid copper connections
- In addition to the standard features of the TRAE, the TRAE+ includes:
  - Replaceable stainless steel power element
  - Fully interchangeable cage assembly
  - Square body
  - Double balanced port design, which provides stable and accurate control over wide loads and evaporator temperature ranges
  - Permanent inlet strainer and external adjustments are standard
- Options: cages
- External superheat adjustment
- Maximum working pressure: 450 psig



### TRAE+ External 1/4" SAE Equalizer

Part #	Mfg #	Reference #	Nom Capacity Tons	Refrig	Charge Code	Capillary Tube Length	Inlet x Outlet Connections
VAL02381	062718	TRAE+10HC	10.0	R-22	A/C Medium Temp	5'	5/8" x 7/8" ODF Straight-thru
VAL06618	063554	TRAE+10HCA	10.0	R-22	Heat Pump	10'	7/8" x 1-1/8" ODF Straight-thru
VAL06607	063510	TRAE+15HCA	15.0	R-22	Heat Pump	10'	5/8" x 7/8" ODF Straight-thru
VAL06619	062722	TRAE+15HCA	15.0	R-22	Heat Pump	10'	7/8" x 1-1/8" ODF Straight-thru
VAL09396	062725	TRAE+20HCA	20.0	R-22	Heat Pump	10'	7/8" x 1-1/8" ODF Straight-thru
VAL07376	015223	TRAE+22MC	22.0	R-134a	Medium Temp	10'	7/8" x 1-1/8" ODF Straight-thru
VAL06597	062728	TRAE+30HC	30.0	R-22	A/C Medium Temp	10'	1-1/8" x 1-3/8" ODF Straight-thru
VAL08522	062730	TRAE+30HCA	30.0	R-22	Heat Pump	10'	1-1/8" x 1-3/8" ODF Straight-thru
VAL06615	062734	TRAE+40HCA	40.0	R-22	Heat Pump	10'	1-1/8" x 1-3/8" ODF Straight-thru



# Valves

## TRAE+ Series Cage Replacement Kit

- Cage kits include cage and cage removal wrench (KT-20294)

Part #	Mfg #	Reference #	Nom Tons R-22	Nom Tons R-12/R-134A	Nom Tons R-507/R-404A/R-504
KIT07318	063387	KT-20289	10	9	8
KIT07319	063388	KT-20290	15	13	12
KIT07320	063389	KT-20291	20	14	14
KIT07321	063390	KT-20292	30	22	20
KIT07322	063391	KT-30293	40	30	30

## TRAE+ Cage Wrench Kit for all Tonnages

Part #	Mfg #	Reference #	Description
KIT07323	063392	KT-20294	Cage Wrench Kit for TRAE+ All Tonnages

## TFE Series R-410A Thermal Expansion Valves

- Designed for large tonnage heat pump, air conditioning and commercial refrigeration applications
- Replaceable power element
- External superheat adjustment
- Balanced port construction compensates for changes in operating pressures due to varying ambient, or widely varying evaporator loads
- Bi-directional control capacity
- External equalizer



## TFES Thermostatic Expansion Valve

- ZAA for R-410A Systems
- Maximum working pressure: 630 psig

Part #	Mfg #	Reference #	Nom Capacity Tons	Refrig	Charge Code	Capillary Tube Length	Inlet x Outlet Connections
VAL10128	066148	TFES12ZAA	12.0	R-410A	Wide Range	10'	7/8" ODF x 1-1/8" ODF
VAL10130	066151	TFES16ZAA	16.0	R-410A	Wide Range	10'	7/8" ODF x 1-1/8" ODF
VAL10132	066154	TFES20ZAA	20.0	R-410A	Wide Range	10'	7/8" ODF x 1-1/8" ODF



# Valves

## T-Series Take-Apart Thermal Expansion Valves

- Take-Apart construction for easy field service
- Ideal for original equipment and field replacements in air conditioning, heat pump and refrigeration applications
- External superheat adjustment
- Bi-flow capability
- Stainless steel power assembly up to 18 ton
- Options:
  - Interchangeable, replaceable cages
  - 1/4 to 100 Tons capacity
  - Interchangeable body flanges for any connection you need
  - Interchangeable power heads for refrigerants listed
- Maximum working pressure: 450 psig
- Torque bolts 300 in lb



## T-Series Large Capacity Body Flange - 22 to 100 tons

Part #	Mfg #	Reference #	Inlet	Outlet	Valve Type	Configuration
FLG00571	044984	B504	5/8" ODF or 7/8" ODM	7/8" ODF or 1-1/8" ODM	TJLE	Angle

## T-Series External Adjustable Valve less Flange

- Single port
- Bi-flow capacity



Part #	Mfg #	Reference #	Nom Capacity Tons	Refrig	Charge Code	Capillary Tube Length
VAL05694	060765	TCLE1/4FC	0.25	R-12	Medium Temp	5'
VAL05687	060768	TCLE1/2HC	0.5	R-22	Medium Temp	5'
VAL05690	054413	TCLE1/2FC	0.5	R-12	Medium Temp	5'
VAL05682	052940	TCLE1FC	1.0	R-12	Medium Temp	5'
VAL08895	062884	TCLE1HC	1.0	R-22	Medium Temp	5'
VAL05697	052941	TCLE2FC	2.0	R-12	Medium Temp	5'
VAL05704	052942	TCLE3FC	3.0	R-12	Medium Temp	5'
VAL05706	055501	TCLE3RC	3.0	R-502	Medium Temp	5'
VAL05708	052943	TCLE4FC	4.0	R-12	Medium Temp	5'
VAL05710	052944	TCLE612FC	6.5	R-12	Medium Temp	5'
VAL05711	052945	TCLE712FC	7.5	R-12	Medium Temp	5'
VAL05738	055104	TJLE8FC	8.0	R-12	Medium Temp	5'
VAL03017	054404	TCLE10HC	10.0	R-22	Medium Temp	5'
VAL05735	060855	TJLE11HC	11.0	R-22	Medium Temp	5'
VAL05739	055105	TJRE11FC	11.0	R-12	Medium Temp	5'
VAL08910	060854	TCLE12HC	12.0	R-22	Medium Temp	5'
VAL05736	060856	TJLE14HW	14.0	R-22	MOP 55 psi	5'
VAL05714	060788	TER14RC	14.0	R-502	Medium Temp	10'
VAL05719	055109	TER20FC	20.0	R-12	Medium Temp	10'

\* Dunham-Bush, Customer Part Number VAL-454-2



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# Valves

## T-Series Double Port Valve less Flange

- Externally equalized
- Balanced for low load conditions

Part #	Mfg #	Reference #	Nom Capacity Tons	Refrig	Charge Code	Capillary Tube Length
VAL05723	055111	TER25FC	25.0	R-12	Medium Temp	10'
VAL00339	061678	TIR55HW	55.0	R-22	MOP	10'

## TLE-Series Thermal Expansion Valves

- Take-Apart construction for easy field service
- Designed for air conditioning, heat pumps, transportation and commercial refrigeration
- TLE valves do not have external superheat adjustment
- Bi-flow capability for heat pump applications (external equalizer required)
- Stainless steel power element
- Interchangeable body flanges for any connection you need
- Options:
  - Interchangeable, replaceable cages and flanges
- Maximum working pressure: 450 psig
- Torque bolts 300 in lb



### TLE Series 90° Angle Valves

Part #	Mfg #	Reference #	Inlet Connection	Outlet Connection	Valve Configuration
FLG00241	057153	C500-5	3/8" SAE	5/8" SAE	Angle
FLG00242	056294	C500-6	1/2" SAE	5/8" SAE	Angle
FLG00245	065748	C501-5	3/8" ODF	5/8" ODF	Angle

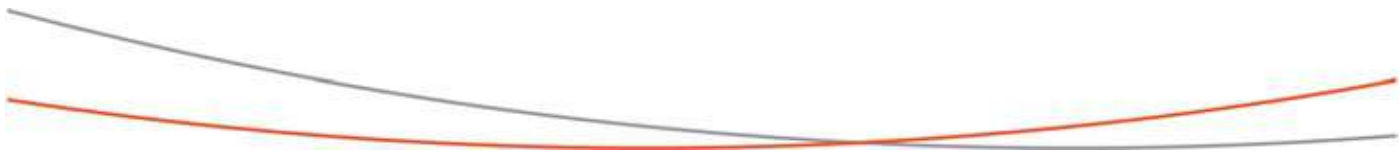
## Thermostatic Expansion Valves

### EBS Series Thermostatic Expansion Valve

- Balanced port design
- Removable power element
- Field adjustable superheat
- 5' Capillary tube



Part #	Mfg #	Cap Range	Inlet Connection	Outlet Connection
163525P	163525P	11	5/8"	7/8"
163557P	163557P	8	5/8"	7/8"
163592P	163592P	20	7/8"	1-3/8"
163628P	163628P	15	7/8"	1-1/8"



# Valves

## ECE Series Thermostatic Expansion Valve

- *Balanced port design*
- *Removable power element*
- *Field adjustable superheat*
- *5' Capillary tube*



Part #	Mfg #	Cap Range	Inlet Connection	Outlet Connection
168736P	168736P	5 - 8	5/8"	7/8"
168799P	168799P	8.5 - 12.5	5/8"	7/8"
168803P	168803P	13 - 15	5/8"	7/8"

## H Series Thermostatic Expansion Valve

- *Extremely durable powerhead assembly*
- *Brass body with solid copper fittings*
- *Brass and stainless steel internal parts*
- *1/4" Flare external EQ connection*



Part #	Mfg #	Cap Range	Inlet Connection	Outlet Connection
HCAE-3-ZX200	040771-01	3	3/8"	1/2"
HCAE-5-ZX200	040772-01	5	3/8"	5/8"

## HC Series R-22/R-407C Thermostatic Expansion Valve



Part #	Mfg #	Cap Range	Inlet Connection	Outlet Connection
HCAE-3-VX100	HCAE-3-VX100	3	3/8"	1/2"
HCAE-5-VX100	HCAE-5-VX100	5	3/8"	5/8"

## S-Series Thermostatic Expansion Valve

- *Extended ODF connections*
- *Balanced port design*
- *5' Capillary tube*
- *Removable power element*
- *Field adjustable superheat*
- *1/4" ODF external equalizer*
- *Weight: 1.0 lbs / 0.45 kg*



Part #	Mfg #	Cap Range	Inlet Connection	Outlet Connection
4020616	040206-16	5 - 8	1/2"	7/8"
4020620	040206-20	5 - 8	5/8"	7/8"



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# Valves

## SCE Series Thermostatic Expansion Valve

- 5' Capillary tube
- Removable power element
- Removable power element
- Removable inlet strainer
- Field adjustable superheat
- 1/4" ODF external equalizer
- Weight: 1.0 lbs / 0.45 kg



Part #	Mfg #	Cap Range	Inlet Connection	Outlet Connection
SCE-AA-VW	040406-13	.33 - .5	3/8"	1/2"

## Valve Bodies



Part #	Mfg #	Series	Inlet Connection	Outlet Connection
C-AA 2X4	040500-01	C-AA	1/4"	1/2"
C-A 3X4	040500-02	C-A	3/8"	1/2"
CE-AA 2X4	040500-03	CE-AA	1/4"	1/2"
CE-A 3X4	040500-04	CE-A	3/8"	1/2"
CE-B 3X4	040500-05	CE-B	3/8"	1/2"
CE-C 3X4	040500-06	CE-C	3/8"	1/2"
SC-AA 3X4	040501-01	SC-AA	3/8"	1/2"
SC-A-3X4	040501-02	SC-A	3/8"	1/2"
SCE-AA 3X4	040501-03	SCE-AA	3/8"	1/2"
SCE-A 3X4	040501-04	SCE-A	3/8"	1/2"
SCE-B 3X4	040501-05	SCE-B	3/8"	1/2"
SCE-C 3X4	040501-06	SCE-C	3/8"	1/2"
EC-AA 3X4	040502-01	EC-AA	3/8"	1/2"
EC-A 3X4	040502-02	EC-A	3/8"	1/2"
ECE-AA 3X4	040502-03	ECE-AA	3/8"	1/2"
ECE-A 3X4	040502-04	ECE-A	3/8"	1/2"
ECE-B 4X5	040502-05	ECE-B	1/2"	5/8"
ECE-C 4X7	040502-06	ECE-C	1/2"	7/8"
ECE-D 5X7	040502-07	ECE-D	5/8"	7/8"

## Thermostatic Expansion Valve Kit

- For A/C and heat pump, R-22/R-407C, and R-410A applications



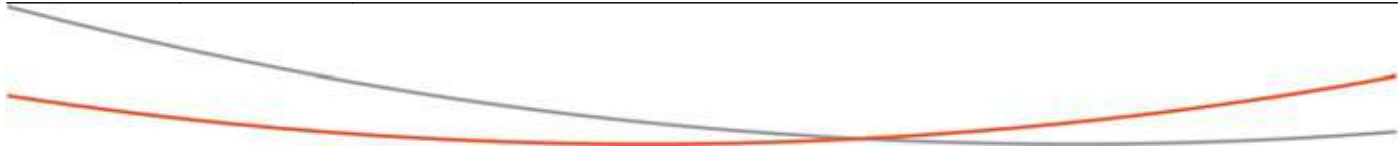
Part #	Mfg #	Description
PARKERTXVKIT	TXV KIT	TXV Kit

## General Purpose Solenoid Valves

### Valve Tool Kit



Part #	Mfg #	Description
KIT09452	76754	Solenoid Valve Repair Kit



# Valves

## Type S Thermostatic Expansion Valves

- Externally adjustable brass bar body
- Designed for both air conditioning and refrigeration systems
- Replaceable thermostatic element
- Permanent 12 mesh strainer
- Applications include:
  - Air Conditioning
  - Commercial Refrigeration "C" (+50°F to -10°F)
  - Low Temperature Refrigeration "Z" (0°F to -40°F)
  - MOP Maximum Operating Pressure charges available (0°F to -40°F)



### Type S TEV - Externally Equalized Straight-Thru Body

Part #	Mfg #	Model #	Nom Capacity (Tons)	Refrig	Charge Code Application	Element Size	Capillary Tube Length	Inlet x Outlet Connections
VAL00962	129789	SVE-5-CP100	5	R-22	A/C	83	5'	1/2" x 7/8" x 1/4" ODF

## OEM Type Valves



### Solenoid Valve

Part #	Mfg #	Description
VAL04496	3284-05017	Solenoid Valve, 3/8" ODS x 3/8" ODS , 120V 50/60Hz, Normally Closed, 500 psig
VAL08431	3505-00-A	Solenoid Valve, 3/8" ODS x 3/8" ODS , 120V 50/60Hz Normally Closed 500 psig, E6s130 less Coil
VAL06558	3508-43003	Solenoid Valve, 5/8" ODM x 5/8" ODS 120V 50/50Hz, Includes Solenoid Coil

### R-22 Expansion Valve



Part #	Mfg #	Description
VAL06385	150945-032	Expansion Valve, 5 Ton, 1/2" ODS Inlet x 5/8" ODS Outlet, Capillary Tube
VAL04471	150995-020	Thermostatic Expansion Valve, 2.5 Ton, 3/8" ID Inlet x 1/2" ID Outlet, Brazed, 500 psi
VAL07613	150995-059	Expansion Valve, 2.5 Ton, 1/2" ODS x 3/8" ODS, Non-bleed, Superheat Setting: 52/48 psig, 1/4" ODF External Equalizer, Capillary Tube: 30.0"
VAL07612	150997-086	Expansion Valve, 3 Ton, 1/2" ODS x 3/8" ODS, Non-bleed, Superheat Setting: 52/48 psig, 1/4" ODF External Equalizer, Capillary Tube: 30.0"
VAL08754	953079-003	Expansion Valve, 1.637" OD x 2.125" OD
VAL05106	BP15-44	Thermostatic Expansion Valve, 1.5 Ton, 500 psi



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# Valves

## BI R-22 Small Brass Body Expansion Valve



- Straight-through connection
- Models made after 1994 use a replaceable number 43 element
- Use with R-22 small capacity air conditioning and heat pump systems

Part #	Mfg #	Description
VAL05105	BIVE-1 1/2-GA-44	Thermostatic Expansion Valve, 1.5 Ton, 500 psi
VAL02977	BIVE-2.5-GA	Expansion Valve
VAL02976	BIVE-2-GA	Expansion Valve
VAL02918	BIVE-2-GA-BP/15	Expansion Valve
VAL05053	BIVE-2-GA-BP15-44	Expansion Valve, 2 Ton, 15% Bleed Port, 48/44 psig (9°F)
VAL02917	BIVE-3-CP100	Expansion Valve, 3 Ton, 3/8" ODF Inlet x 1/2" ODF Outlet
VAL01902	BIVE-4-CP100	Expansion Valve, 4 Ton, 3/8" x 5/8" ODF, 30" Cap, 1/4" ODF Equalizer, VCP100 Charge, 46 psig Setting
VAL02916	BIVE-4-CP100	Expansion Valve, 4 Ton, 3/8" Inlet x 1/2" Outlet
VAL02822	BIVE-4-GA	Expansion Valve, 4 Ton, 1/2" x 5/8" ODF, 30" Cap, 1/4" ODF Equalizer, VGA Charge, 48 psig Setting
VAL05034	BIVE-5-GA-BP15-44	Expansion Valve, 5 Ton

## BI R-22 Small Brass Body Expansion Valve with Mechanical Fittings



- 5/8"-20 Mechanical fittings
- Superheat setting
- 0.125" OD x 20" Long external equalizer
- Straight-through connection
- Models made after 1994 use a replaceable number 43 element
- Use with R-22 small capacity air conditioning and heat pump systems

Part #	Mfg #	Description
VAL08619	BIVE-4-GA	Thermostatic Expansion Valve, 4 Ton, Non-bleed Port, 48/44 psig (9°F)
VAL08620	BIVE-5-GA	Thermostatic Expansion Valve, 5 Ton, Non-bleed Port, 52/48 psig (6°F)





# Valves



## BBI R-22 Small Brass Body Expansion Valve

- *Balanced port construction*
- *Models after 1994 use a replaceable number 43 element*
- *Use with R-22 small capacity air conditioning and heat pump systems*

Part #	Mfg #	Description
VAL08742	BBIVE-3-GA	Expansion Valve, 3 Ton, 3/8" Inlet x 1/2" Outlet, 54.5/50.5 psig
VAL08705	BBIVE-3-VGA	Expansion Valve, 3 Ton, 3/8" Inlet x 1/2" Outlet, 51/47 psig
VAL08706	BBIVE-6-VGA	Expansion Valve, 6 Ton, 3/8" Inlet x 1/2" Outlet, 52/48 psig
VAL09314	BBIZE-1-1/2-GA,B15	Expansion Valve, 2 Ton, 1-1/2"
VAL10582	BBIZE12-1/2-ZGA BP15	Thermostatic Expansion Valve, 12.5 Ton, 15% Bleed
VAL10583	BBIZE15-ZGA BP15	Thermostatic Expansion Valve, 15 Ton, 15% Bleed
VAL09313	BBIZE-1-GA,B15	Expansion Valve, 1 Ton, 1/2" x 3/4"
VAL09311	BBIZE-1-GA,BP15	Expansion Valve, 1 Ton, 1/2" x 3/4"
VAL09373	BBIZE-2-ZGA,BP15	Expansion Valve, 2 Ton
VAL09318	BBIZE-3-GA-B15	Expansion Valve, 3.5 Ton
VAL09319	BBIZE-3-GA-B15	Expansion Valve, 3.5 Ton
VAL09375	BBIZE-4-GA-B15	Expansion Valve, 4 Ton
VAL09374	BBIZE-4-ZGA,BP15	Expansion Valve, 4 Ton
VAL09316	BBIZE-5-GA,B15	Expansion Valve, 5 Ton
VAL09317	BBIZE-5-GA,B15/151331-062	Expansion Valve, 5 Ton
VAL09315	BBIZE-5-ZGA,BP/15	Expansion Valve, 5 Ton
VAL10580	BBIZE6-ZGA BP15	Thermostatic Expansion Valve, 6 Ton, 15% Bleed
VAL10581	BBIZE 8-ZGA BP15	Thermostatic Expansion Valve, 8 Ton, 15% Bleed

## BBI R-410A Small Brass Body Expansion Valve

- *Balanced port construction*
- *Models after 1994 use a replaceable number 43 element*
- *Use with R-410A small capacity air conditioning and heat pump systems*



Part #	Mfg #	Description
VAL10486	BBIZE-12.5-GA	Expansion Valve, 12.5 Ton, 0.63" Inlet x 1.13" Outlet

## BBI R-410A Small Brass Body Expansion Valve with Mechanical Fittings

- *5/8"-20 Mechanical fittings*
- *Superheat setting*
- *0.125" OD x 20" Long external equalizer*
- *Balanced port construction*
- *Models after 1994 use a replaceable number 43 element*
- *Use with R-410A small capacity air conditioning and heat pump systems*



Part #	Mfg #	Description
VAL08665	BBIZE-2-GA(D34232P05)	Thermostatic Expansion Valve, 2 Ton, Non-bleed Port, 87/83 psig (9°F), ga Bulb Charge
VAL08679	BBIZE-GA-3 (D342329P07)	Thermostatic Expansion Valve, 3 Ton, Non-bleed Port, 95/91 psig (5°F), ga Bulb Charge



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## Valves

### CBI R-22 Small Brass Body Expansion Valve with Check Valve

- Superheat setting
- Straight-through connection
- Internal check valve
- Models made after 1994 use a replaceable number 43 element
- Use with R-22 small capacity air conditioning and heat pump systems



Part #	Mfg #	Description
VAL07112	CBIVE-5-GA (52/48 PSIG)	Thermostatic Expansion Valve, 5 Ton, 3/8" ID Inlet x 1/2" ID Outlet, 52/48 psig (6°F)
VAL07113	CBIVE-6-GA 3STRX4 ODF	Thermostatic Expansion Valve, 6 Ton, 3/8" ID Inlet x 1/2" ID Outlet, 48/44 psig (9°F)

### CBI R-22 Small Brass Body Expansion Valve with Check Valve & Mechanical Fittings

- 5/8"-20 Mechanical fittings
- Superheat setting
- 0.125" x 20" Long external equalizer
- Straight-through connection
- Internal check valve
- Models made after 1994 use a replaceable number 43 element
- Use with R-22 small capacity air conditioning and heat pump systems



Part #	Mfg #	Description
VAL08607	CBIVE-1-1/2-GA(D342318P01	Thermostatic Expansion Valve, 1.5 Ton, Non-bleed Port, 48/44 psig (9°F)
VAL09742	CBIVE 2-GA / 150810-018	Thermostatic Expansion Valve, 2 Ton, Non-bleed Port, 48/44 psig (9°F)

### CBBI R-22 Small Brass Body Expansion Valve with Check Valve

- Balanced port construction
- Internal check valve
- Models after 1994 use a replaceable number 43 element
- Use with R-22 small capacity air conditioning and heat pump systems



Part #	Mfg #	Description
VAL05901	CBBIVE-2-CP100	Expansion Valve, 2 Ton
VAL05902	CBBIVE-3-CP100	Expansion Valve, 3 Ton
VAL08682	CBBIVE-6-VGA	Expansion Valve, 6 Ton, 3/8" Inlet x 1/2" Outlet, 53/49 psig

### CBBI R-410A Small Brass Body Expansion Valve with Check Valve

- Balanced port construction
- Internal check valve
- Models after 1994 use a replaceable number 43 element
- Use with R-410A small capacity air conditioning and heat pump systems



Part #	Mfg #	Description
VAL08844	CBBIZE-1-GA	Expansion Valve, 1 Ton, 3/8" Inlet x 1/2" Outlet, 93/89 psig



# Valves

## CBBI R-410A Small Brass Body Expansion Valve with Check Valve & Mechanical Fittings



- 5/8"-20 Mechanical fittings
- Superheat setting
- 0.125" OD x 20" Long external equalizer
- Balanced port construction
- Internal check valve
- Models after 1994 use a replaceable number 43 element
- Use with R-410A small capacity air conditioning and heat pump systems

Part #	Mfg #	Description
VAL08967	CBBIZE-2-GA-B15	Thermostatic Expansion Valve, 2 Ton, 15% Bleed Port, 85/81 psig (10°F)
VAL08968	CBBIZE-2-GA-B15	Thermostatic Expansion Valve, 2 Ton, 15% Bleed Port, 87/83 psig (9°F)
VAL09231	CBBIZE-3-GA B15	Thermostatic Expansion Valve, 3 Ton, 15% Bleed Port, 90/86 psig
VAL08971	CBBIZE-5-GA-B15	Thermostatic Expansion Valve, 5 Ton, 15% Bleed Port, 90/86 psig (7°F)
VAL09405	CBBIZE-2-GA	Thermostatic Expansion Valve, 5 Ton, 15% Bleed Port, 90/94 psig (7°F)

## CCBI R-22 Small Brass Body Expansion Valve with Check Valve



- Straight-through connection
- Internal check valve
- Models made after 1994 use a replaceable number 43 element
- Use with R-22 small capacity air conditioning and heat pump systems

Part #	Mfg #	Description
VAL08681	CCBIVE-4-VGA 45/41	Expansion Valve, 4 Ton, 3/8" Inlet x 1/2" Outlet, 45/41 psig

## Kits



Part #	Item #	Description
KIT16254	20210-000	Kit for BBIZE-5-GA/1135/40
KIT16255	20210-001	Kit for BBIZE-5-GA/1113/40
KIT16256	20210-002	Kit for BBIZE-5-GA/1113/40
KIT16257	20210-003	Kit for BBIZE-6-GA/1136/40
KIT16258	20210-004	Kit for BBIZE-6-GA/1136/40
KIT16259	20210-005	Kit for BBIZE-6-GA/1113/40
KIT16260	20210-006	Kit for BBIZE-8-GA/1135/40
KIT16261	20210-007	Kit for BBIZE-8-GA/1135/40
KIT16262	20210-008	Kit for BBIZE-8-GA/1136/40
KIT16263	20210-009	Kit for BBIZE-8-GA/1136/40
KIT16264	20210-010	Kit for BBIZE-15-GA/1135/40
KIT16265	20210-011	Kit for BBIZE-15-GA/1136/40
KIT16266	20210-012	Kit for BBIZE-15-GA/1137/40
KIT16267	20210-013	Kit for BBIZE-15-GA/1127/40



# Air Quality Controls

## Wall-Mount Transmitters

### RHP-W Series Wall-Mount Humidity/Temperature/Dew Point Transmitter

- Stylish housing is well vented to provide air flow across the sensor
- LCD Display indicates ambient temperature along with humidity or dew point
- Relative humidity range: 0 to 100%
- Temperature range: -40° to 140°F
- Dew point temperature range: -20° to 140°F



Part #	Mfg #	Accuracy	Output
SEN02019	RHP-2W11	2%	4-20mA

## Pitot Tubes

- Corrosion-resistant 304 stainless steel
- Precisely located, burr-free static pressure holes

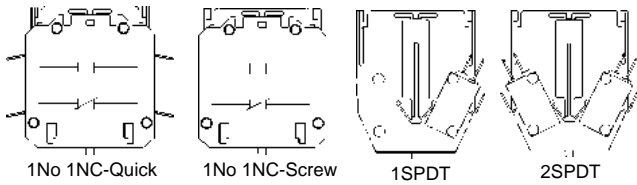


Part #	Mfg #	Diameter	Insertion Length
TUB11364	160-8	5/16"	8-5/8"
TUB11362	160-24	5/16"	24-5/8"
MTR01365	167-6	1/8"	6"



# Switches

## Auxiliary Switches



### Single Unit Interlock Auxiliary Switch with Quick Connects

- Contact configuration: 1 NO/1 NC break before make
- Termination: .250" quick connects

Part #	Mfg #	Description
SWT03534	HCCY1Z600VQ318	For 20A - 60A Contactors

### Single Unit Interlock Auxiliary Switch with Screw Terminals

- Contact configuration: 1 NO/1 NC break before make
- Termination: #6-32 screw terminals

Part #	Mfg #	Description
SWT03536	HCDY1Z600VC318	For 75A - 90A Contactors

### 1-Switch SPDT Circuit Auxiliary Switch with Quick Connects

- Contact configuration: SPDT
- Termination: .250" quick connects

Part #	Mfg #	Description
SWT03533	HCCY1C300VQ318	For 20A - 60A Contactors
SWT03572	HCDY1C300VQ318	For 75A, 90A, and 120A Contactors

### 2-Switch SPDT Circuit Auxiliary Switch with Quick Connects

- Contact configuration: (2) SPDT
- Termination: .250" quick connects

Part #	Mfg #	Description
SWT03535	HCCY2C300VQ318	For 20A - 60A Contactors
SWT03573	HCDY2C300VQ318	For 75A, 90A, and 120A Contactors



# Combustion Controls

## Thermocouples

### Universal Replacement Thermocouple

- Stainless steel element construction for prolonged life
- Each kit enclosed in plastic
- Universal adapter fittings included with each kit

White  
Rodgers



Part #	Mfg #	Description
TCP00090	H06E-18	18" Standard Thermocouple
TCP00091	H06E-24	24" Standard Thermocouple
TCP00092	H06E-30	30" Standard Thermocouple
TCP00093	H06E-36	36" Standard Thermocouple

### Q340 Universal 30mV Thermocouple

- Includes push-in clip, split nut and adapter assembly for easy pilot burner installation
- Male nut connector for Pilotstat™ safety control power units

Honeywell



Part #	Mfg #	Description
SEN00665	Q340A1090	36" Lead, 11/32" 32 Male Connector Nut

### K19 Series - "Super Slim Jim™" Universal Replacement Thermocouple

- Millivolt range: 25 - 35mV

Johnson  
Controls



Part #	Mfg #	Length	Carton Quantity
TCP00124	K19AT-36H	36"	10

### 700TC2 Thermocouple Plug Kit

- Includes:
  - (1) Type E (purple)
  - (2) Type J (black)
  - (2) Type K (yellow)
  - (1) Type T (blue)
  - (1) Type R/S (green)
- 1-Year warranty

FLUKE®



Part #	Mfg #	Description
KIT12287	700TC2	Thermocouple Plug Kit

## Pilot Gas Valves

### VR8300M4406 Dual Standing Pilot Gas Valve Power Supply

Honeywell

- 24VAC, 60Hz
- (2) Automatic valves
- First valve is solenoid operated
- Second valve is diaphragm-operated
- Natural to LP gas conversion kit included
- 200,000 BTUH



Part #	Mfg #	Inlet Connection	Outlet Connection
VR8300M4406	VR8300M4406	3/4"	3/4"

## VR Series Combination Gas Controls

- Standard features for combination gas valves include:
  - (2) Automatic valves
  - Solenoid-operated first automatic valve opens on thermostat call for heat; closes when call for heat ends.
  - Diaphragm-operated second automatic valve opens under control of regulator; closes if gas or power supply is interrupted
  - Meets codes requiring dual safety shutoff
  - Mounting: 0° to 90°, any direction from upright position of gas control knob, including vertically

### VR8215 Direct Ignition Combo Gas Control

- For use with 24VAC, 50/60Hz, single stage, direct ignition, gas fired appliances
- Capacities from 15 to 200 cfh natural gas
- Multi-poise
- 2.35" Swing radius
- Dual-redundant gas valve

Honeywell

Part #	Mfg #	Inlet Connection	Outlet Connection
VR8215S1503	VR8215S1503/U	1/2"	1/2"

# Combustion Controls

## VR8345 Universal Electronic Ignition Combo Gas Control

- Power Supply: 24VAC, 60Hz
- For use with direct spark ignition, hot surface ignition or intermittent pilot ignition in 24VAC, gas-fired appliances, with capacities from 30,000 to 415,000 BTUH
- Includes all standard features plus:
  - Manual valve, two automatic operators, pressure regulator, pilot adjustment, pilot plug and ignition adapter
  - Replaces virtually any IP, HSI or DSI gas control
  - For use with natural or manufactured gas or LP gas
  - Includes converter kit to adapt from natural gas to LP gas
  - 4" Swing radius allows easy rotation into position inside the tightest furnace vestibules
  - Clearly marked, keyed terminal block allows quick attachment wires and IP/DSI/HSI jumper
  - Internal inlet screen blocks contaminants in gas line from entering valve
  - Capacities based on 1" p.d. 30,000 BTUH minimum, 300,000 BTUH maximum

**Honeywell**



Part #	Mfg #	Inlet Connection	Outlet Connection
CNT02537	VR8345M4302	3/4"	3/4"

## Fan Blower Controls

### ICM271 Solid State Dual Function Fan Blower Control

- Replacement for OEM models including Carrier CES0110017/18 and HH84AA-x series control boards
- Designed to replace popular gas furnace centers
- Pin selectable blower delays
- High power, relay output
- Controls the circulating fan in heat pump, A/C and forced air systems
- Off delay purges ducts for residual air
- On delay allows air to reach the proper comfort level prior to energizing the fan
- Input voltage: 18 to 30VAC
- Contact ratings:
  - Normally open: 20A
  - Normally closed: 10A
- Fixed time delays:
  - Heat on: 75 seconds
  - Heat off: 105 seconds
  - Cool off: 90 seconds



**ICM CONTROLS**

Part #	Mfg #	Description
CNT03262	ICM271	Fan Blower Control

## Furnace Control Modules

### ICM281 Microprocessor-Based Furnace Control Board

- Low cost, direct replacement board for Carrier CES0110057-00,01,02
- Controls gas valve, igniter, blower motor, inducer, humidifier and air cleaner
- Functions with all 24VAC thermostats
- Designed for 100% gas shut-off in case of ignition failure
- Twinning compatible with another ICM281 board
- Reverse polarity protection
- Secondary brownout voltage protection
- Diagnostic fault codes (blinking LED) for simple troubleshooting
- Electrical:
  - Line voltage range: 98 to 132VAC @ 60Hz
  - Igniter: 5A @ 120VAC
  - Cool blower: 30A, 2 hp, 240 VAC
  - Heat: 5A, 1/2 hp, 240VAC
  - Inducer motor: 4A, FLA-8.0 LRA @ 120VAC
  - Gas valve: 1.5A @ 30VAC



**ICM CONTROLS**

Part #	Mfg #	Description
CNT05049	ICM281	Replacement for Carrier CES0110057-00

## Pressure Switches

### P100 Series Encapsulated Pressure Switch

- Encapsulated switch, dust tight
- Electrical connections are made to 48" leads
- 1/4" Female flare fitting with Schrader
- SPST Direct mounted

**Johnson Controls**



#### Electrical Ratings

Ratings VAC	120	240
AC Full Load Amps (FLA)	5.8	2.9
AC Locked Rotor Amps (LRA)	34.8	15.0

Pilot Duty – 375 VA at 120/240/277VAC; 2A at 28VAC/VDC

Part #	Mfg #	Application	Open psig	Close psig
SWT03227	P100AP-2C	Low Cutout	35	60
SWT03259	P100AP-3C	Fan Cycling	150	225
SWT03260	P100AP-4C	Fan Cycling	170	250

# Combustion Controls

## Electronic Fan Timers

### ST9120U1011 Universal Integrated Gas Combustion Blower Control

- Integrates control of all combustion blower and circulating fan operations in a gas warm-air appliance
- Replaceable fuse
- DIP Switch selectable heat and cool delay on and off times
- Diagnostic LED EAC and HUM convenience terminal connections and continuous low speed indoor air circulation are provided



**Honeywell**

Part #	Mfg #	Field Adjustable Heat Fan On Delay	Field Adjustable Heat Fan Off Delay	Field Adjustable Cool Fan On Delay	Field Adjustable Cool Fan Off Delay
TMR00231	ST9120U1011	30 or 60 Sec	60, 120, 150 or 180 Sec	4 or 30 Sec	30 or 60 Sec

## Fan Speed Controls

### P66 Series Electronic Fan Speed Control

- Soft start capability
- NEMA1 or NEMA 3R Enclosures
- One or two pressure transducers
- (2) Throttling ranges
- Built-in voltage surge protection
- Radio frequency Interference suppression
- Ground terminal screw
- Single Sensor Input



**Johnson Controls**

Part #	Mfg #	Effective Throttling Range psig (kPa) (Fixed)	Pressure Range (Adjustable)	Start Voltage % of Line	Capillary Length
CNT01209	P-66AAB-1	60 (414)	190 - 250 psi	10	60"

## Fan Safety Alarms & General Purpose Logic Circuits

- (6) Alarm inputs
- (1) Master alarm
- Mounting track included (MT212)
- UL Listed
- 1-Year warranty



**RIB**



Part #	Mfg #	AC	Power Input	Track Mount
BRD03521	RIBMNLB-6	24VAC; 50-60Hz	4A	2.75"



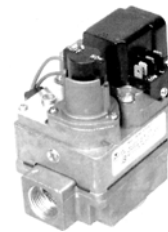


# Combustion Controls

## Gas Burner Controls

### 36C Cycle Pilot Gas Valve

- Equipped with redundant pilot solenoid main gas regulator
- Integral gas pressure switch and electrical connection on the gas valve for mercury flame sensor connection
- 24VAC, 60Hz
- Pressure rating: 1/2 psi (14.0"wc) maximum
- Includes natural gas with LP conversion kit



White  
Rodgers

Part #	Mfg #	Coil Voltage	Open	Inlet/Outlet Size	Capacity AGA Standard Gas	Side Taps
VAL08898	36C84-945	24VAC	Fast Open	3/4" x 3/4"	280,000	No
VAL09377	36C94-906	24VAC	Slow Open	3/4" x 3/4"	110,000	No

### 36C Fast Opening Gas Valve

- Valve may be mounted in any position except upside down
- Gas cock knob, pilot adjust screw and regulator adjustment are on top of control
- Easy-grip pipe boss simplifies installation
- Use with thermocouples
- Natural gas, includes LP conversion kit and reducer bushing kit
- Suffix:
  - 333 = Does not include inlet pressure tap
  - 433 = Induces inlet pressure tap
  - S1 = Single pack 1/box



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Rodgers

Part #	Mfg #	Typical Appl	Coil Voltage	Inlet/Outlet Size	Capacity AGA Standard Gas	Side Taps
VAL04922	36C03-333	Standing Pilot	24VAC, 60Hz	1/2" x 3/4"	230,000	Yes
VAL04924	36C03-433	Standing Pilot	24VAC, 60Hz	3/4" x 3/4"	280,000	Yes
VAL02476	36D13A475S1	2-Stage Relay	120VAC, 60Hz	3/4" x 3/4"	335,000	No

### 36C Step-Opening Multi-Function Combination Gas Control

- Combines the functions of 3-position manual valve, main gas valve, pressure regulator and 100% shut-off automatic pilot
- Valve may be mounted in any position except upside down
- Pilot gas outlet located at outlet end accepts a 1/4" pilot line connection
- Suitable for all domestic heating gases
- Pressure rating: 1/2 lb per square inch
- Operator: relay

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Rodgers

Part #	Mfg #	Coil Voltage	Gas	Inlet/Outlet	Regulator	Line Interrupter	Step
VAL02870	36C04 222S1	24VAC, 60Hz	NG	1/2" x 1/2"	Yes	Yes	Regulated



# Combustion Controls

White  
Rodgers

## 36G/36J Single-Stage Combination Gas Valve

- Designed for direct spark (DSI) and hot surface (HSI) ignition
- Control can be mounted in any position
- Equipped with:
  - Redundant and main solenoid valve
  - Pressure regulator
  - 2-Position on/off switch for regulation and electrical shut-off of the solenoid valves
  - Slow opening pressure regulator
- Suffix: S1 = single pack 1/box

Part #	Mfg #	Coil Voltage	Open	Inlet/Outlet Size	Capacity AGA Standard Gas
VAL07731	36G22-209S1	24VAC, 50/60Hz	Fast Open	1/2" x 1/2"	140,000
VAL07973	36G22-213	24VAC, 50/60Hz	Fast Open	1/2" x 1/2"	140,000
VAL08710	36G22-223	24VAC, 50/60Hz	Fast Open	1/2" x 1/2"	140,000
VAL07732	36G24-205S1	24VAC, 50/60Hz	Slow Open	1/2" x 1/2"	140,000
VAL09028	36J22-209	24VAC, 50/60Hz	Fast Open	1/2" x 1/2"	140,000
VAL09029	36J24-205	24VAC, 50/60Hz	Slow Open	1/2" x 1/2"	140,000
VAL09030	36J54-201	24VAC, 50/60Hz	2-Stage, Non Direct Vent	1/2" x 1/2"	140,000
VAL09031	36J54-202	24VAC, 50/60Hz	2-Stage, Direct Vent	1/2" x 1/2"	140,000
VAL09034	36J54-209	24VAC, 50/60Hz	2-Stage	1/2" x 1/2"	140,000

## 36H Combination Gas Control Valve

- For use with intermittent ignition systems
- Electrical shut-off
- Quick-connect terminals (1/4")
- Adjustable regulator
- Natural gas, includes LP conversion kit



36H32-423

White  
Rodgers

Part #	Mfg #	Coil Voltage	Inlet/Outlet Size	Capacity AGA Standard Gas	Opening Characteristic
VAL08843	36H32-423	24VAC, 50/60Hz	3/4" x 3/4"	300,000	Fast Open
VAL08750	36H54-486	24VAC, 50/60Hz	3/4" x 3/4"	300,000	2-Stage, Fast Open
VAL08897	36H64-463	24VAC, 50/60Hz	3/4" x 3/4"	300,000	2-Stage, Fast Open

## Gas Valve Adapter Kit

- Includes: (2) wires, fitting, and installer's guide

White  
Rodgers

Part #	Mfg #	Description
KIT09419	F0026 018700	For Replacement of White-Rodgers E & F Series Gas Valves and with New G Series

## LP Conversion Kit



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Rodgers

Part #	Mfg #	Description
KIT01402	F92-0656	LP to Natural Gas Conversion Kit for 36C/D/E/F/G Gas Valves w/2.5" - 5.0"wc Range
KIT02851	F92-0659	NG to Regulated LP Gas Conversion Kit for 36C/D/E/F/G Gas Valves w/7.5" - 12.0"wc Range



# Combustion Controls

## Integrated Furnace Controls

### 50A51 Integrated 2-Stage Control

- Single pack



Part #	Mfg #	Description
CNT02184	50A51 495S1	Integrated Hot Surface Ignition Control

### 50A55 Universal Silicon Carbide Integrated Furnace Control

- Replaces 50A5X-XXX controls
- For gas-fired forced-air furnaces with integrated furnace control module with a silicon carbide igniter
- Fused to protect low voltage system transformers
- Adjustable blower relay
- Includes:
  - Flash code diagnostics
  - Mounting hole template



Part #	Mfg #	Prepurge	Delay Heat ON	Delay Heat OFF	Delay Cool ON	Delay Cool OFF
CNT03740	50A55-843	30 Sec	30/45	60/90/120/180	5	45/90

### 50M56-843 Universal Single-Stage HSI Integrated Furnace Control Kit

- Replaces virtually all single-stage carbide and nitride HSI systems
- 3-Fan speeds
- System diagnosis, with fault recall
- Cover label displays diagnostic table
- Red LED light-used for diagnostic flash codes
- Low voltage-fuse protection-3A replaceable automotive type
- 7"H x 5.25"W x 1.25"D
- Includes (12) quick-select/quick connect wiring harnesses, 21D64-2 universal nitride igniter kit



Part #	Mfg #	Input Voltage	Operating Temp Range	Valve Relay Load Rating	Mounting
CNT06054	50M56U-843	25VAC	-40° - 176°F	1.5A @ 25VAC 50/60Hz	Surface Mount Multi-Poise

## Furnace Control



Part #	Mfg #	Description
MOD01393	50C70495S1	Gas Ignition Module
CNT06568	50C6849501	Integrated Furnace Control, Variable Speed

Controls

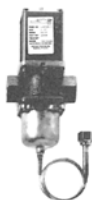


# Commercial Controls

## Water Regulating Valves

### V46 Series Pressure Actuated Water Regulating Valve

- No close fitting or sliding parts in water passages
- Minimizes chatter or water hammer
- Refrigerant adjustment is not affected by water pressure
- Range spring does not come in contact with cooling water
- 3/8", 1/2", 3/4" Valves may be disassembled and reassembled without detaching from the refrigeration system or without pumping down
- Threaded inlet and outlet
- All-range service
- Opening point range: 70 - 260 psig
- Pressure element style: 30" cap, 1/4" flare nut
- For use with:
  - Ice machines
  - Ice cream machines
  - Computer room air conditioning units
  - Refrigeration cases



### Commercial Type, Standard Flow - Non Corrosive Refrigerant

Part #	Mfg #	Pipe Size (NPT)
VAL03610	V46AC-1	3/4" NPT

### Refrigeration Modulating Water Valve

- 2-Way temperature actuated valve
- Can be used for heating applications
- Valve opens at increasing bulb temperature
- Pressure balanced valve design
- Angled body style



Part #	Mfg #	Size	Range in °C
VAL00592	V47AB-24	1/2"	24°C

## Economizer Logic Modules

### W7220 JADE™ Economizer Logic Module

- Input from DVC CO2 sensor provides optimum ventilation based on occupancy
- 24VAC; Operates between -40° to 150°F
- LCD Display
- Includes discharge or mixed air sensor to control mixing dampers



Part #	Mfg #	Description
CNT06555	W7220A1000	Economizer Logic Module

### YL7220 Y-Pak Economizer Logic Module

- 7220A Input: W7220A1000 logic module, C7250A1001 OAT and MAT sensors and MS7503A2030 DCA OA
- 7220S Input: W7220A1000 logic module, C7400S1000 OAE sensor, C7250A1001 MAT sensor and MS7503A2030 DCA OA
- 24VAC
- Temperature operating range: -40° to 150°F



Part #	Mfg #	Description
KIT16172	YL7220AJ3105	Y Pack, (2) Dry Bulb Sensors with Communicating 44 lb-in Actuator
KIT16173	YL7220SJ3103	Y Pack, Enthalpy Sensors with Communicating 27 lb-in Actuator

### Duct Mounting Kit For Economizer Sensors

- For sensors C7400A200X, C7600A200X, C7400S and C7600S



Part #	Mfg #	Description
KIT16174	50053060-001	Duct Mounting Kit For Sensors, 5 Kits Per Unit Box



# Commercial Controls

## Commercial Temperature Sensors

### C7250 Electronic 20k Temperature Sensor

- For sensing mixed or discharge air in roof top packaged air conditioning
- Operating temperature range: -40° to 257°F
- Dimensions: 4.25"H x 2.17"W x .81"D

**Honeywell**



Part #	Mfg #	Description
SEN01945	C7250A1001	For Use with W7220 Economizer Controller

### C7400 Enthalpy Sensor

- Senses temperature and humidity within 5% accuracy
- For use in outdoor air intakes of HVAC rooftop
- Operating temperature range: -40° to 150°F

**Honeywell**



Part #	Mfg #	Description
SEN01944	C7400S1000	Enthalpy Sensor for use with W7220



# Commercial Controls

## Damper Actuators

### Fire and Smoke Fast Acting 2-Position Damper Actuator

- SPST, 2-position control signal
- Spring return, Direct-coupled
- Operates in smoke control systems requiring UL555S ratings up to 350°F
- 15-Second spring return timing
- Die-cast aluminum housing design allows flush mounting to damper and eliminates need for limit switches to reduce power consumption
- (3) Conduit openings



**Honeywell**

Part #	Mfg #	Actuator	Torque Rating	Supply Voltage	Spring Direction	Frequency
ACT00554	MS4120F1006	Damper	175 lb-in	120VAC	By Orientation	60Hz
ACT00555	MS4120F1204	Damper	175 lb-in	120VAC	By Orientation	60Hz
ACT00429	MS4309F1005	Damper	80 lb-in	120VAC	CCW	60Hz
ACT00556	MS4620F1005	Damper	175 lb-in	230VAC	By Orientation	50Hz/60Hz
ACT00557	MS4620F1203	Damper	175 lb-in	230VAC	By Orientation	50Hz/60Hz
ACT00551	MS4709F1014	Damper	80 lb-in	230VAC	CW	50Hz
ACT00552	MS4809F1012	Damper	80 lb-in	230VAC	CCW	50Hz
ACT00506	MS8120F1002	Damper	175 lb-in	24VAC	By Orientation	50Hz/60Hz
ACT00558	MS8120F1200	Damper	175 lb-in	24VAC	By Orientation	50Hz/60Hz
ACT00533	MS8209F1003	Damper	80 lb-in	24VAC	CW	50Hz/60Hz
ACT00553	MS8309F1001	Damper	80 lb-in	24VAC	CCW	50Hz/60Hz

### ML4115 Commercial Fire and Smoke, Fast-Acting, 2-Position Actuator - 30 lb-in

- Spring return direct-coupled actuators for on and off damper control with integral junction box
- Accepts on and off signal from SPST controller
- Designed to operate reliably in smoke control systems
- 95° Angle of rotation
- Die-cast aluminum housing
- Mounts to 3/8" or 1/2" round or square shaft
- 150 lb-in Maximum stall torque
- Timing: 25 Second max drive at 60Hz; 18 second nom driving at 60Hz



**Honeywell**

Part #	Mfg #	Description	Rotation to Open	Notes:
ACT00547	ML4115A1009	120VAC +/-10%, 2-Position SPST	CW	Includes Ground Screw
ACT00517	ML4115B1008	120VAC +/-10%, 2-Position SPST	CCW	Includes Ground Screw



## Commercial Controls

### MS3105 Zelix Sylk-Enable Damper Actuator

- Only communicating actuator to work with JADE
- Brushless DC submotor with electronic stall protection
- UL Listed (cUL), CE compliant and plenum rated per UL873
- For use in HVAC systems
- Direct-coupled
- 25-Second spring return



Honeywell

Part #	Mfg #	Actuator	Torque Rating	Supply Voltage	Spring Direction	Frequency
ACT00682	MS3103J1030	Damper	27 lb-in	24VAC/DC	By Orientation	50Hz/60Hz
ACT00683	MS3105J3030	Damper	44 lb-in	24VAC/DC	By Orientation	50Hz/60Hz
ACT00684	MS3105J3130	Damper	44 lb-in	24VAC/DC	By Orientation	50Hz/60Hz

### Direct-Coupled Actuators

#### MS4209 Spring Return, Direct-Coupled Actuator

- For on and off damper control with integral junction box
- Accepts on and off signal from single-pole, single-throw (SPST) controller
- Designed to operate reliably in smoke control systems requiring UL
- UL555S up to 350°F
- 15-Second spring return timing
- 95° Angle of rotation
- Die-cast aluminum housing
- 80 lb-in Rated torque, 80 lb-in spring return torque, 240 lb-in maximum stall torque
- 80 lb-in Minimum driving torque at 350°F



Honeywell

Part #	Mfg #	Description
ACT00550	MS4209F1007	Replaces MI4105B1009, 120VAC +10%, -15%, CCW

### Electric Actuators

#### M9106 Electric Non-Spring Return Actuator

- Used to position balancing, control, round and zone dampers in typical HVAC applications or to position blades in a VAV box
- Direct-mount, operates on 24VAC or VDC power
- Rotation range: adjustable from 30° to 90°, CW or CCW
- No auxiliary switches



Johnson Controls

Part #	Mfg #	Torque
CNT03665	M9106-AGA-2NT2	53 in-lb



# Commercial Controls

## M9220 Electric Spring Return Actuator

- Controls dampers and valves in HVAC systems
- Direct-mount, operate on 24VAC or VDC power
- Bi-directional, return-to-normal spring return
- Electronic stall detection
- Manual override



Part #	Mfg #	Torque	Features
ACT00528	M9220-HGA-3	177 in-lb	Proportional Control With Adjustable Zero & Span

## VA7010 Electric Valve Actuator

- Provide 2-position (open/closed) control
- Easily field mounted onto VG5000 series forged brass valves
- Manual position mode with lever
- Ambient operating temp: 35° to 122°F



Part #	Mfg #	Description
ACT00461	VA-7010-8001	24VAC Electric On/Off Actuator, 7VA

## Temperature Controls

### Remote Temperature Control

- Provide positive control of refrigeration applications where remote control is desired
- Hydraulic action element
- Adjustable element
- Temperature dial evenly calibrated in °F and °C
- Dustproof steel case with top and bottom knockouts
- Easy to wire screw terminals
- Bulb mounting clamp included with all models
- Bulb size: 5-1/4" x 3/8"



Part #	Mfg #	Temp Range	Differential	Switching	Capillary Length
CNT01677	1609-101	-30° to +90°F	Adj 3.5° - 40°F	Close on Rise	5'





# Commercial Controls

## Temperature Controls

### A11 Series Low Temperature Cutout Control

- Snap-acting switch
- External temperature scale
- Easy set point adjustment with top or bottom access
- Ambient temperature of control: 0° to 140°F
- Maximum element temperature: 250°F
- For use with:
  - Low temp cutout for coils and/or pipe liquid sensing



#### Electrical Ratings

Motor Ratings VAC	120	208	240
AC Full Load Amps	16.0	9.2	8.0
AC Locked Rotor Amps	96.0	55.2	48.0
Non-Inductive or Resistance Load Amp (not lamp loads)	16.0	9.2	8.0

Pilot Duty - 125VA, 24 to 277VAC

Part #	Mfg #	Switch Action	Range °F	Diff °F	Bulb & Capillary	Range Adjuster
THT02102	A11A-1C	SPST, Open Low	35° - 45°F	Manual Reset	20' of 1/8" Tubing, 4' Cap	Screwdriver Slot

### A19 Series Temperature Control

- Constant differential through the entire range
- Compact enclosure
- Variety of sensing element styles
- Unaffected by cross ambient conditions
- Suitable for temperature control in heating, ventilating, and refrigeration



#### Wide Range Adjustable Differential

#### Electrical Ratings

Motor Ratings VAC	120	208	240
AC Full Load Amps	16.0	9.2	8.0
AC Locked Rotor Amps	96.0	55.2	48.0
Non-Inductive Amps	22 A, 120 to 277VAC		

Pilot Duty - 125VA, 24 to 600VAC

Part #	Mfg #	Switch Action	Range °F	Diff °F	Bulb & Capillary	Range Adjuster
CNT05185	A19ABA-40C	SPST, Open Low	-30° - 100°F	3° - 12°F	3/8" x 4", 6' Cap	Screwdriver Slot
THT02342	A19ABC-24C	SPDT	-30° - 100°F	3° - 12°F	3/8" x 4", 8' Cap	Convertible

#### Fixed Differential

#### Electrical Ratings

Motor Ratings VAC	120	208	240
AC Full Load Amps	6.0	3.4	3.0
AC Locked Rotor Amps	36.0	20.4	18.0
Non-Inductive Amps	10 A, 24 to 277VAC		

Pilot Duty - 125VA, 24 to 277VAC



Part #	Mfg #	Switch Action	Range °F	Diff °F	Bulb & Capillary	Range Adjuster
CNT01648	A19AAF-12	SPDT	25° - 225°F	3-1/2°F	3/8" x 3", 10' Cap	Screwdriver Slot



# Commercial Controls

## Manual Reset

Electrical Ratings

Motor Ratings VAC	120	208	240
AC Full Load Amps	16.0	9.2	8.0
AC Locked Rotor Amps	96.0	55.2	48.0
Non-Inductive Amps	16.0	9.2	8.0

Pilot Duty - 125VA, 24 to 600VAC



Part #	Mfg #	Switch Action	Range °F	Diff °F	Bulb & Capillary	Range Adjuster
CNT02239	A19ACA-14	SPST, Open Low	-30° - 100°F	Manual Reset	3/8" x 4", 6' Cap	Screwdriver Slot

## A19 Series - Coiled Bulb Space Thermostat

- Wide temperature range
- Maximum bulb temperature: 140°F (60°C)
- NEMA 1 enclosure
- 1-3/8" x 2-1/4" Coiled bulb
- For use with:
  - Return air or space temperature sensing



## Cooling

Electrical Ratings

Motor Ratings VAC	120	208	240
AC Full Load Amps	16.0	9.2	8.0
AC Locked Rotor Amps	96.0	55.2	48.0
Non-Inductive Amps	22 A, 120 to 277VAC		

Pilot Duty - 125VA, 24 to 600VAC

Part #	Mfg #	Switch Action	Range °F	Diff °F	Bulb & Capillary	Range Adjuster
CNT05222	A19BBC-2C	SPDT	-30° - 100°F	3° to 12°F	1-3/8" x 2-1/4" Coiled	Convertible



# Commercial Controls

## A419 Series - Electronic Temperature Control with Display

- Single-stage SPDT output relay
- Displays temperature and other function status
- Set point range: -30° to 212°F
- Allows the user to quickly change set point, differential, and other functions
- Lockable front-panel touchpad
- High-impact thermoplastic
- For use with:
  - Boiler control
  - Pump control for cooling towers
  - Compressor lockout (disables the compressor when temperature exceeds limits)
  - Condenser fan cycling
  - Space and return air temperature
- Includes A99 Sensor



### Electrical Ratings

Applied Voltage	120V N.O. (N.C.)	208V N.O. (N.C.)	240V N.O. (N.C.)
Horsepower	1 (1/4)	1 (1/3)	1 (1/2)
Full Load Amps	16.0 (5.8)	9.2 (4.0)	8.0 (4.9)
Locked Rotor Amps	96.0 (34.8)	55.2 (24)	48.0 (29.4)
Non-Inductive Amps	15.0 (10)	10.0 (10)	10.0 (10)

Pilot Duty - 125VA (N.O. contacts) @ 24 to 240VAC; 125VA (N.C. contacts) @ 120 to 240VAC; 50VA (N.C. contacts) @ 24VAC

Part #	Mfg #	Switch Action	Range °F	Diff °F	Bulb & Capillary	Range Adjuster
CNT05227	A419ABC-1C	SPDT	-30° - 212°F	1° - 30°F	0.5" x 2", 78" Cap	-



# Contactors

## Contactors

### Emerson SureSwitch™ Relay

- Universal electronic upgrade for mechanical compressor contactors
- Replaces the function of a contactor and short-cycle timer
- Fits in the space of a traditional mechanical contactor
- 5x Contactor life
- Sealed to keep out ant and debris
- Microprocessor-controlled sealed compressor switching
- Compressor protected from brownouts and short cycling
- 5-Year warranty



Part #	Mfg #	Line Voltage	Amps (FLA)	Pole Input
49P11-843	49P11-843	240VAC 50/60Hz	30A	1 or 1.5

### HCC Definite Purpose Contactors



#### 1-Pole Contactor with Screw Termination

Part #	Mfg #	Poles	Amps	Volts
CTR02579	HCCY1XQ02AA318	1	30A	24V
CTR02574	HCCY1XQ04AA318	1	40A	24V

#### 2-Pole Contactor

Part #	Mfg #	Poles	Amps	Volts
CTR02613	HCCY3AQ04EH318	2	40A	24V

#### 2-Pole Contactor with Box Lug Termination

Part #	Mfg #	Poles	Amps	Volts
CTR02597	HCCY2XQ04GG318	2	40A	24V
CTR02636	HCCY2XT04GG318	2	40A	120V
CTR02637	HCCY2XU04GG318	2	40A	208/240V

### 2-Pole Contactor with Screw Termination

Part #	Mfg #	Poles	Amps	Volts
CTR02573	HCCY2XQ02AA318	2	30A	24V
CTR02589	HCCY2XT02AA318	2	30A	120V
CTR02595	HCCY2XU02AA318	2	30A	208/240V
CTR02594	HCCY2XV02AA318	2	30A	277V
CTR02576	HCCY2XQ04AA318	2	40A	24V
CTR02600	HCCY2XT04AA318	2	40A	120V

### 3-Pole Contactor

Part #	Mfg #	Poles	Amps	Volts
CTR02623	HCDY3XT12JS318	3	120A	120V

### 3-Pole Contactor with Box Lug Termination

Part #	Mfg #	Poles	Amps	Volts
CTR02601	HCCY3XQ02CJ318	3	30A	24V
CTR02607	HCCY3XT02CJ318	3	30A	120V
CTR02577	HCCY3XQ04CJ318	3	40A	24V
CTR02578	HCCY3XT04CJ318	3	40A	120V
CTR02585	HCCY3XU04CJ318	3	40A	208/240V
CTR02590	HCCY3XQ05CJ318	3	50A	24V
CTR02588	HCCY3XT05CJ318	3	50A	120V
CTR02602	HCCY3XU05CJ318	3	50A	208/240V
CTR02581	HCCY3XQ06CJ318	3	60A	24V
CTR02582	HCCY3XT06CJ318	3	60A	120V
CTR02584	HCCY3XU06CJ318	3	60A	208/240V
CTR02591	HCDY3XQ07JS318	3	75A	24V
CTR02583	HCDY3XT07JS318	3	75A	120V
CTR02587	HCCY3XT09JS318	3	90A	120V

### Reverse 3-Pole Contactor

- 2 Contactors connected by mechanical interlock

Part #	Mfg #	Poles	Amps	Volts
CTR02629	HCCY3XQ04TS318RA	3	40A	24V

### 3-Pole Contactor with Screw Termination

Part #	Mfg #	Poles	Amps	Volts
CTR02575	HCCY3XQ02AT318	3	30A	24V
CTR02580	HCCY3XT02AT318	3	30A	120V
CTR02586	HCCY3XU02AT318	3	30A	208/240V
CTR02593	HCCY3XQ04AT318	3	40A	24V
CTR02592	HCCY3XT05AT318	3	50A	120V
CTR02606	HCCY3XQ06AT318	3	60A	24V

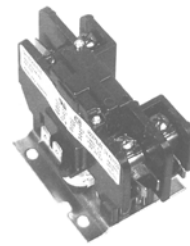
# Contactors

## Contactors

### Single-Pole Definite Purpose Contactor (30A thru 40A)

#### WR/RBM Type 121

- Straight-through wiring, replaces 1-1/2 pole devices used primarily in residential central air conditioning
- Class B coils
- Temperature range: -40° to 150°F
- Made of close grain cast iron with lacquer finish



White  
Rodgers

Part #	Mfg #	Amps	Voltage AC	Res DC OHMS	Current MA	Nominal VA	Max Inrush VA
CTR01097	94-388	30A	24VAC	7.6	340	8.2	40

### 2-Pole Definite Purpose Contactor (30A thru 40A)

#### WR/RBM Type 122

- Low VA coil for cooler operation and increased life
- Universal mounting bracket fits existing mounting holes
- Double break contacts ensure positive make and break
- Screw terminals or pressure connectors and double 1/4" quick connect provided on all models for easy installation
- Temperature range: -40° to 150°F



30 Amp Models



40 Amp Models (with Cover)

White  
Rodgers

Part #	Mfg #	Amps	Voltage AC	Res DC OHMS	Current MA	Nominal VA
CTR01091	90-244	30A	24VAC	11	250	6
CTR01094	90-247	40A	24VAC	11	250	6

### Universal Upgrade for Mechanical Compressor Contactors

White  
Rodgers

Part #	Mfg #	Description
KIT06839	21D02475	Ignition Control Adapter Kit- Includes Adapter Board, (2) Wire Harnesses, and Instruction Sheet



# Current Sensors

## Current Sensors

### Enclosed Solid Core Sensor

- 10A Relay
- Adjustable 1.25 - 150A



Part #	Mfg #	Amp Range	Threshold	Relays	Contacts	Motor
RLY02552	RIBXLCRA	10 - 30A	Adjustable	1	SPDT	1/3 hp

### Enclosed Split Core Switching AC Current Sensor

- Solid state SPST switch
- Output: 30VAC/DC, 4A maximum
- Temperature derating: 1 Amp up to 50°C, 0.5 Amp up to 60°C
- Maximum sense voltage: 600VAC
- Removable mounting tab provided for mounting
- Wire clamp locks against the load wire, securing the unit in place
- UL Listed, UL916, UL864, cUL, CE, RoHS



Part #	Mfg #	Amp Range	Threshold	Relays	Output
SEN01261	RIBXGA	.75 - 150A	Adjustable	SPST	Wht/Yel 16" 18 AWG Wire Leads
SEN01264	RIBXGTFL	.75 - 150A	Fixed, .75A	SPST	Terminal Strip, Accepts #14-22 AWG Wire

### Low Voltage Enclosed Solid Core AC Switching Current Sensor

- Solid state SPST switch
- Output: 30VAC/DC, 4A maximum
- Max sense voltage: 600VAC
- Removable mounting tab provided for mounting
- Wire clamp locks against the load wire, securing the unit in place
- UL Listed, UL916, UL864, cUL, CE, RoHS



RIBXKF, RIBXKTF, RIBXKTA

Part #	Mfg #	Amp Range	Threshold	Relays	Output
SEN01206	RIBXKF	25 - 150A	Fixed, .25A	SPST	Wht/Yel 16" 18 AWG Wire Leads
SEN01249	RIBXKTF	.25 - 150A	Fixed, .25A	SPST	Terminal Strip, Accepts #14-22 AWG Wire
SEN01343	RIBXKTA	.50 - 150A	Adjustable	SPST	Terminal Strip, Accepts #14-22 AWG Wire

### Low Voltage Enclosed Split Core Switching AC Current Sensor

- Solid state SPST switch
- Output: 30VAC/DC, 4A maximum
- Maximum sense voltage: 600VAC
- UL Listed, UL916, UL864, cUL, CE, RoHS
- Removable mounting tab provided for mounting
- Wire clamp locks against the load wire, securing the unit in place



RIBXGTA



Part #	Mfg #	Amp Range	Threshold	Relays	Output
SEN01260	RIBXGTF	.35 - 150A	Fixed, .35A	SPST	Terminal Strip, Accepts # 14-22 AWG Wire
SEN01265	RIBXGTA	.75 - 150A	Adjustable	SPST	Terminal Strip, Accepts #14-22 AWG Wire



# Current Sensors

## Panel Style Current Sensor with Relay

- Packaged to save installer time, trouble and expense of buying separate components (relay, LED indicator, socket, mounting rail, transient protection, and housing)



RIBX24BA  
RIBX24BF



RIBX24SBA



RIBX24SBF



Part #	Mfg #	Amp Range	Threshold	Relays	Contacts	Motor	Coil Voltage
RLY02550	RIBX24BA	.50 - 20A	Adjustable	1	SPDT	2 hp	24VAC
RLY02551	RIBX24SBA	.50 - 20A	Adjustable	1	SPST	2 hp	24VAC
RLY02664	RIBX24BF	.50 - 20A	Fixed, .50A	1	SPDT	2 hp	24VAC
RLY02666	RIBX24SBF	.50 - 20A	Fixed, .50A	1	SPDT	2 hp	24VAC
RLY03341	RIBHX24BF	.25 - 20A	Fixed, .25A	1	SPST-N/O	2 hp	

## Motor Protection Controls

### ICM401 3-Phase Voltage Monitor

- Low cost 3-phase protection for single side
- Monitors for phase reversal, phase loss, unbalance % as a function of input voltage
- Bright LED indicators for on and fault
- Voltage: 190 to 600VAC
- Frequency: 50/60Hz
- Control: 18 - 30VAC
- Output:
  - SPDT Relay
  - Normally open: 10A



Part #	Mfg #	Description
MON00004	ICM401	3-Phase Voltage Monitor

Controls



# Defrost Controls

## Defrost Controls

### Defrost Timer

- Replacement for Trane® 21C142827G01, CNT1152 and CNT1642 controls
- 18 - 30VAC
- Low cost, time and temperature defrost
- Time and temperature terminate
- Test pins reduce test times by 256X
- Frequency: 50/60Hz
- Outdoor fan relay output: 1/2A
- Defrost time: fixed 10 minutes
- Intervals between defrost: pin-selectable 50/70/90 minutes



Part #	Mfg #	Description
CNT03264	ICM316	240VAC Strip Heat, Reversing Valve





# Flow Controls

## Flow Switches

### V6 Series Flotect® Mini-Size Flow Switch

- Pipe size: 1/2" to 2"
- Explosion proof
- High pressure rating:
  - 1,000 psig with brass body
  - 2,000 psig with stainless steel body
- 3/4" NPT
- CSA Approved

**Dwyer**  
Manufacturing Excellence  
Since 1922



Part #	Mfg #	Material	Switch
SWT00235	V6EPB-B-S-2-B-CSA	SPDT	Brass



# Igniters

## Igniters

### Glowfly™ Universal Hot Surface Igniter

- Uses a 120V silicon nitride igniter design with long life and high resistance to damage or burn out
- Kit includes specially designed silicon nitride igniter and six different bracket configurations to increase universal application
- Clear instructions and application templates are provided
- Replaces over 110 different models
- 3-Year warranty

**Honeywell**



Part #	Mfg #	Description
IGN00143	Q3200U1004	Glowfly Universal Hot Surface Igniter Kit
IGN00144	Q3200U2002	Glowfly Universal Hot Surface Igniter Kit, Service Pack of (6) Kits

## Ignition Pilot Modules

### S8610U Universal Intermittent Pilot Module

- Provides electronic control of most intermittent pilot ignition systems used on gas-fired furnaces, boilers and other heating appliances
- For use in systems with combination igniter-sensor (single rod or dual rod sense)
- 100% Pilot gas shut-off and lockout on loss of pilot flame
- Includes relay contacts for use with any intermittent pilot gas control string with maximum 1.0A pilot or 2.0A main valve rating
- Honeywell VR8204, VR8304 or VR8345M combination gas control recommended
- Includes spark cable adapters to allow field replacement of both Honeywell and competitive controls without replacing existing spark cable
- Includes damper connection and automatic vent damper plug



**Honeywell**

Part #	Mfg #	Description
MOD01605	S8610U3009	NG or LP Gas, 90 Second Trial for Ignition, 6 Minute Wait, Continuous Retry (Replaces S8610U1003)

### S9200U Hot Surface Ignition Control

- Universal hot surface ignition integrated furnace control
- Controls a standard induction-type circulating fan motor
- Can be used with conventional thermostats and the EnviraCOM™ enable VisionPRO IAQ and FocusPRO
- Main burner ignition using a 120V hot surface igniter
- Flame rectification circuit to monitor flame presence
- Monitors system pressure switch, high temperature limit, and rollout functions



**Honeywell**

Part #	Mfg #	Description
CNT05101	S9200U1000	Universal Integrated Furnace Control

### Y8610U Universal Retrofit Intermittent Pilot Gas Burner Ignition System

- Complete kit for converting conventional standing pilot systems to intermittent pilot systems
- For use with 24VAC gas-fired atmospheric furnaces, boiler and heating appliances
- Includes:
  - Intermittent pilot module (S8610U)
  - Dual valve combination gas control (VR8304M) or dual valve combination gas control (VR8204A)
  - Igniter sensor (392431)
  - Ignition cable (394800-30)
  - Natural to LP gas conversion kit (393691)
  - Wiring harness
  - 3/4" Straight flange kit (393690-14)
  - Reducer adapters for gas control with VR8304M
  - Installation hardware



**Honeywell**

Part #	Mfg #	Description
KIT15022	Y8610U6006	Y-pack Containing S8610U3009 & VR8304M with 1/2" x 3/4" Inlet/Outlet, Flange Kit, LP Conversion Kit
KIT15134	Y8610U4001	Y-pack Containing S8610U3009 & VR8204A2142 with 1/2" x 1/2" Inlet/Outlet, Flange Kit, LP Conversion Kit

# Igniters

## Pilot Burners

### Igniter Flame Rod Assembly

- Use with SV9500, SV9600
- Field replacement for Q3450/Q3480 hot surface pilot burner



Part #	Mfg #	Description
PIT00207	Q3400A1024	30" Lead Length

### Q314 Pilot Burner

- Non-primary aerated, insert orifice-type, for main burner ignition with Q340 or Q390 thermocouple for Pilotstat safety control operation
- Use with Q313 Thermopile generator for 750mV powerpile applications
- Includes natural gas and LP orifice
- Compression fitting size: 1/4"
- Special mounting bracket with screws for converting "B" bracket to "A"



Part #	Mfg #	Description
Q314U1001	Q314U1001	Universal Pilot, BCR-18 Orifice, Single Adjustable Left, Right, and Center

### Q345A Pilot Burner

- Non-primary aerated combination pilot burner and igniter
- Use with S86, S860 S8610 or S8670 in intermittent pilot systems
- Includes pilot burner with bracket, ceramic insulated Kanthal flame rod/spark igniter and ground strap
- Compression fitting size: 1/4"



Part #	Mfg #	Description
Q345U1005	Q345U1005	Universal Pilot For Intermittent Pilot Applications with Target Style Hood

## Flame Sensors

### C554 Cadmium Sulfide Flame Detector

- Photoconductive flame sensing device for sequencing oil burner systems



Part #	Mfg #	Description
SEN00739	C554A1463	60" Lead, A/B/E/J/P Type & Oil Line Mounting Bracket Included

## Igniters

### Silicon Carbide Hot Surface Igniter

- Works with 15, 17, or 45 second HSI systems
- AGA Design certified & CGA certified
- Electrical connection: receptacle with 0.93 male pins, tab on left
- Lead length: 5.25"



Part #	Mfg #	Description
IGN00058	767A-357	250°F Lead Insulation Temperature Rating

### Universal Nitride Hot Surface Igniter Upgrade Kit

- No need to replace existing module
- Replaces most silicon carbide igniters
- No power module needed
- Super tough nitride igniter construction
- For gas-fired forced-air furnaces, water heaters and boilers
- Kits include nitride igniter, universal mounting bracket, mounting adapter bracket, cross reference, nitride upgrade furnace label, fasteners and instructions



Part #	Mfg #	Description
IGN00134	21D64-2	120V Nitride Universal Igniter Upgrade Kit

## Ignition Pilot Modules

### Ignition Module for Hot Surface Ignition Systems

- For direct ignition and burner supervision in gas furnaces boiler and water heaters
- Electrical rating: 18 - 30VAC, 50/60Hz, 0.2A
- Ambient operating range: -40° to 175°F (-40° to 79°C)
- Retries: 3



Part #	Mfg #	Description
CNT03776	50E47-843	45 Second Warm-Up Time, 30 Second Prepurge Time

# Igniters

## Ignition Control



Part #	Mfg #	Description
KIT08282	21D70-495	Ignition Control Module Kit, Includes Ignition Control Module, Adapter Board, Wiring Harness, & Instruction Sheet
CNT03457	50N2495B1	Integrated Direct Spark Ignition Module
CNT05159	50V60-507 90	Integrated Furnace Control less Cover
KIT09163	F0115 015500B1	Integrated Ignition Wire Harness
CNT04717	50N02475S1	Standalone Dual-Stage Gas Ignition Control Module

## Universal Non-Integrated Hot Surface Ignition Module



- Silicon carbide igniter
- For gas-fired non-integrated forced-air furnaces and boilers
- Direct and indirect flame sense
- Six program keys, color-coded timing label, double-sided foam back tape, and mounting hardware included
- Valve relay load rating: 25VAC, 1.5A maximum
- Igniter relay load rating: 120VAC, 6.0A maximum
- 4.13"H x 4.13"W x 1.5"D

Part #	Mfg #	Description
CNT03794	50E47-843	Universal Ignition Module

## Mercury Flame Sensors

### Plug-In Mercury Flame Sensor in Cycle Pilot Applications

- For proving pilot flame and controlling main valve in cycle pilot applications
- Designed to fit with various OEM applications
- Maximum temperature: 1,450°F at bulb tip
- Element length: 48"
- Bulb style: #20



Part #	Mfg #	Description
SEN00432	3098-156	Replaces Style #17 or #18, Adapter Ftgs Included



# Oil Heat Controls

## Oil Primary Controls

### R7284 Electronic Oil Primary

- Selectable valve and blower delays
- 2-Line LCD display
- Interrupted and intermittent ignition



**Honeywell**

Part #	Mfg #	Description
CNT06397	R7284U1004	15-Second Safety Switch, Main Burner Junction Box Mounting

### R8184G Protectorelay® Oil Burner Control

- Provides automatic, non-recycling control of an intermittent ignition oil burner system
- Low volt terminals, line volt lead wire connections and screw
- Intermittent ignition, safety switch
- 120V 60 Cycle or 110V 50 cycle
- Mount on 4" x 4" junction box or direct mount on burner housing
- With LED for lockout indication and manual trip lever on safety switch to assure burner shutdown during servicing
- C554 Cadmium sulfide flame detector and 24VAC thermostat required

**Honeywell**



Part #	Mfg #	Description
RLY02091	R8184G4009	45-Second Safety Switch

Controls



# Pressure Controls

## Differential Pressure Transmitters

### Series 616 Differential Pressure Transmitter

- For use with air and non-combustible, compatible gases
- Accuracy: +/- 0.25% full scale
- Span and zero controls for fine tuning and minor re-calibration



Part #	Mfg #	Range	Max Pressure
TRM00048	616-4	0 - 20"wc	11 psig

### Series MS Magnesense® Differential Pressure Transmitter

- Field selectable English or metric ranges
- 3/16" ID Tubing
- Adjustable dampening of output signal
- Ability to select a square root output for use with pitot tubes and other similar flow sensors
- Output: 4-20 mA



Part #	Mfg #	Description
MS-021	MS-021	+/- 0.1", 0.25", 0.5"wc
MS-111	MS-111	1", 2", 5"wc
MS-112	MS-112	1", 2", 5"wc with Duct Mount Static Pressure Probe
GAG01294	MS-121	0.1", 0.25", 0.5"wc

## Pressure Switches

### ADPS HVAC Differential Pressure Switch

- For air and other non-combustible gases
- SPDT with 1/2" NPT Connections
- Temperature range: -4°F to 185°F
- Dual scale field adjustable set point knob
- Designed for pressure, vacuum and differential pressures



Part #	Mfg #	Description
ADPS-03-1-N	ADPS-03-1-N	0.20" - 2.00"wc
ADPS-06-1-N	ADPS-06-1-N	2.0" - 10.00"wc
KIT15856	A-481	Installation Kit with (2) plastic Static Pressure Tips and 7' PVC Tubing

## Differential Pressure Transmitters

### Series 605 Magnehelic® Differential Pressure Indicating Transmitter

- For use with air and non-combustible, compatible gases
- Span and zero controls for fine tuning and minor re-calibration



Part #	Mfg #	Range	Max Pressure
GAG01148	605-2	0 - 2.0"wc	2 psi
GAG01280	605-125PA	0 - 125 Pa	25 psi
GAG01160	605-500PA	0 - 500 Pa	2 psi
GAG01167	605-1.5kPA	0 - 1,500 Pa	2 psi

### Series 616 Differential Pressure Transmitter

- For use with air and non-combustible, compatible gases
- Accuracy: ±0.25% full scale
- Span and zero controls for fine tuning and minor re-calibration



Part #	Mfg #	Range	Max Pressure
TRM00057	616-2	0 - 6"wc	5 psi
TRM00045	616-3	0 - 10"wc	5 psi

### Series 636 Fixed Range Pressure Transmitter

- For use with liquid, gas or vapor
- Accuracy: ±0.30% full scale
- NEMA 4 Explosion-proof enclosure
- CSA Approved



Part #	Mfg #	Range	Max Pressure
TRM00043	636-2	0 - 100 psi	300 psi



# Pressure Controls

## Pressure Switches

### 1630 Series Large Diaphragm Pressure Switch

- For air and non-combustible, compatible gases
- Temperature range: -30° to 110°F
- Pressure limits: 10 psig continuous, 25 psig surge
- 1/8" FNPT
- SPDT



Part #	Mfg #	Range wc	Approx Dead Band	
			Min	Max
SWT02823	1638-0	.05" - .25"wc	.04	.05

### 1640 Series Differential Pressure Switch

- For air and non-combustible, compatible gases
- Temperature range: -30° to 110°F
- 1/8" FNPT
- SPDT



Part #	Mfg #	Range wc	Approx Dead Band	
			Min	Max
SWT01879	1640-0	.01" - 0.2"wc	.01	.03
SWT01880	1640-1	0.2" - 1.0"wc	.02	.06
SWT02824	1640-2	1.0" - 4.0"wc	.03	.12

### 1800 Series Low Differential Pressure Switch

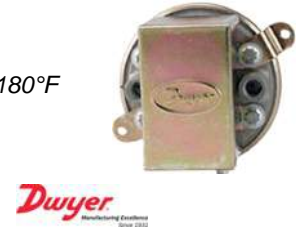
- For general industrial service
- Repetitive accuracy: ±2%
- Temperature range: -30° to 180°F
- Pressure limits: 10 psig continuous, 25 psig surge
- 1/8" FNPT
- SPDT



Part #	Mfg #	Range wc	Approx Dead Band	
			Min	Max
SWT02825	1823-0	.15" - 0.5"wc	.06	.06
SWT02826	1823-00	.07" - .22"wc	.05	.05
SWT02827	1823-1	0.3" - 1.0"wc	.08	.08
SWT02828	1823-2	0.5" - 2.0"wc	.10	.12
SWT02829	1823-5	1.5" - 5.0"wc	.14	.28

### 1900 Series Compact Low Differential Pressure Switch

- Repetitive accuracy: ±3%
- Temperature range: -30° to 180°F
- 1/8" FNPT
- SPDT
- Suffix:
  - G - Gold contact switch



Part #	Mfg #	Range wc	Approx Dead Band	
			Min	Max
SWT00606	1910-0	0.15" - 0.55"wc	0.10	0.10
SWT01160	1910-00	0.07" - 0.15"wc	0.04	0.04
SWT02830	1910-1	0.40" - 1.6"wc	0.15	0.16
SWT00980	G1910-1	0.40" - 1.6"wc	0.15	0.16
SWT01371	1910-10	3.0" - 11.75"wc	0.40	0.40
SWT03586	1910-20	4.0" - 20.0"wc	0.40	0.50

### 1900-R-MR Duct Pressure Monitor

- Includes:
  - Pressure switch with reset snap switch (1900)
  - Duct pressure sensor
  - Tubing adapters



Part #	Mfg #	Range
KIT03980	1900-5-MR	1.4" - 5.5"wc

### DA Series Mercoid Bourdon Tube Pressure Switch

- Pressure ranges to 8,000 psi (551.6 bar)
- Visible calibrated dial
- On/off indication
- Adjustable or fixed deadband
- SPDT snap-action
- External switch set point adjustments
- Minimum deadband is obtainable at any point in the range
- UL Listed
- CSA Approved
- DAF Models FM approved



Part #	Mfg #	Description
CNT00539	DA-7031-153	5 - 100"wc 3.75 psi Brass -6
SWT03340	DAF-7081-15	10 - 300 psi Stainless Steel 3-9K



# Pressure Controls

## DP Series Double Bellows Differential Pressure Switch

- Visible set points
- Temperature range: -10° to 180°F
- Snap switch
- Adjustable or fixed dead band
- Maximum pressure: 300 psi
- Brass bellows



Part #	Mfg #	Range
SWT02920	DPA-7033-15 3-64	0 - 30 psid

## H3 Series Differential Pressure Switch

- Weatherproof and explosion-proof
- Stainless steel pressure chamber
- SPDT Snap-action switch
- Internal screw set point adjustment
- Maximum pressure: 1,500 psi
- Stainless steel bellows



Part #	Mfg #	Range
SWT01282	H3S-2SL	0.5 - 15 psid

## MDS Series Miniature Pressure Switch

- For air or compatible fluids on "high" side
- SPST Normally open
- Temperature range: 40° to 150°F



Part #	Mfg #	Set Point
SWT03562	MDS-0	0.5"wc

## Accessory Kits

### A-432 Portable Carrying Case Kit

- Combine carrying case with any Magnehelic® gauge of standard range, except high pressure connection
- Includes:
  - 9' of 3/16" ID Rubber tubing
  - Stand-hang bracket
  - Terminal tube with holder



Part #	Mfg #	Description
KIT09647	A-434	Portable Accessory Kit

### A602 Air Filter Kit

- Accessory package for using switch without a gauge
- Includes:
  - (2) Pressure tips with integral compression fittings
  - (2) 5' Lengths of 1/4" aluminum tubing
  - (2) 1/8" NPT to 1/4" Tubing compression fittings



Part #	Mfg #	Description
KIT09668	A-602	Air Filter Kit

### Model 920 Smoke Gage Kit

- Quickly balance maximum CO<sub>2</sub> and minimum smoke for clean efficient combustion



Part #	Mfg #	Description
KIT12065	920	Smoke Gage Kit

### Gas Pressure Kit

- Includes:
  - (1) Slack Tube® Manometer (1211-16)
  - (1) Plastic carrying case
  - (1) 3/4 oz Bottle Fluorescent green color concentrate with wetting agent
  - (2) 1/8" Pipe thread rubber tubing adapters
  - (1) 1/8" - 1/4" Pipe thread bushing
  - (1) 3/16" x 3' Rubber tubing
  - (1) Rubber tubing adapter to fit standard 7/16" diameter spud



Part #	Mfg #	Description
KIT09644	1212	Gas Pressure Kit





# Pressure Controls

## Parts & Accessories



### Static Pressure Sensors

Part #	Mfg #	Description
SEN01275	A-301	Static Pressure Tip, for 1/4" Metal Tubing Connection
TIP00171	A-301-C	Static Pressure Tip, for 1/4" Metal Tubing Connection w/12" Insertion Depth
SEN01276	A-302	Static Pressure Tip, For 3/6" and 1/8" ID Rubber or Plastic Tubing
X14080481	A-303	Static Pressure Tip, 3" Insertion 030
X14080481	A-305	Static Pressure Tip for Low Resistance Application
FTG01022	A-307	Static Pressure Fitting, 1/4" Metal Tubing Connection
FTG01023	A-308	Static Pressure Fitting, 3/16" and 1/8" Plastic or Rubber Tubing
VAL08310	A-310-A	3-Way Vent Valve 1/8" NPT to 1/4" Metal Tubing
CON01272	A-315	Gauge Connector, Shut-Off Type for 3/16" Rubber Tubing
FTG01141	A-344	Brass Terminal Tube 1/4" Diameter x 8"L
SEN02023	A-420A	Static Pressure Pickup for Roof or Outside Mount Pressure Connection is Barbed Brass Ftg
SEN01986	A-489	Static Pressure Tip w/Flange 4" Stainless Steel

### Gauge Oil



Part #	Mfg #	Description
OIL00156	A-101	3/4 oz Red Gauge Oil Dispenser Bottle
OIL00157	A-102	3/4 oz Red Gauge Oil

## Mounting Bracket



Part #	Mfg #	Description
BRK03880	A-300	Flush Mount for Magnehelic® Gauge
FLG01114	A-345	1/8" FNPT Flange Mounting
MNT02259	A-353	Flat Style Magnetic Flowmeter Mount
PLT03904	A-368	Aluminum Surface Mounting Plate for Magnehelic® Gage
BRK03439	A-389	Mounting Bracket 16 Gauge Steel for 1800 Series Pressure Switch
MNT02240	A-399	Duct Pressure Mounting Kit

## Tubing



Part #	Mfg #	Description
TUB11284	A-201	3/6" Rubber Tubing for 475
TUB11345	A-221	1/8" ID x 3/16" OD Clear Flexible Vinyl Tubing
KIT09646	A-604	Tubing Kit

## Fittings



Part #	Mfg #	Description
PLG00033	A-331	Vent Plug, 1/8" NPT
ADP01103	A-339	Brass Adapter, 1/8" NPT to 3/16" Tubing
TEE00957	A-342	Plastic Nylon Tee for 3/16" ID Rubber or 1/4" Plastic Tubing
ELL01137	A2004-1	Nylon Elbow, 1/8" x 1/4" FPT

## Case



Part #	Mfg #	Description
HDL00954	A-402A	Carrying Case for 475 Manometer

## Color Concentrate



Part #	Mfg #	Description
CHM00641	A-126	1 oz Bottle Fluorescent Green with Wetting Agent

## Chart



Part #	Mfg #	Description
TOL02245	A-532	Air Velocity Calculator Slide Chart

Controls



Don't see what you are looking for? We carry thousands of other items. Check with your local parts center.

# Pressure Controls

## Gauges

### Magnehelic® Differential Pressure Gauge

- Ambient temperature range: 20° to 140°F
- Rated total pressure: -20" Hg to 15 psi
- 4" Dial
- Accuracy: ±2%
- Die cast aluminum housing
- Relief plug opens at approximately 25 psi
- 1/8" NPT Female high and low pressure taps, duplicated (1) pair of side and (1) pair of back connections
- May be used with Hydrogen when pressure is less than 35 psi with buna-N diaphragm



Part #	Mfg #	Range	Notes
GAG00987	2000-00	0 - 0.25"wc	-
GAG00888	2000-0	0 - 0.50"wc	-
GAG01289	2000-50MM	0 - 50 mmwc	-
GAG01157	2000-60PA	0 - 60 Pa	-
GAG01290	2000-100MM	0 - 100 mmwc	-
GAG01295	2001-ASF	0 - 1.0"wc	Adjustable Signal Flag
GAG00140	2001-LT	0 - 1.0"wc	Low Temp
GAG01284	2002-IC	0 - 2.0"wc	Impregnated Case
GAG01004	2002-LT	0 - 2.0"wc	Low Temp
GAG01044	2002D	0 - 2.0"wc	English/Metric
GAG00898	2003	0 - 3.0"wc	-
GAG01296	2003-ASF	0 - 3.0"wc	Adjustable Signal Flag
GAG00897	2004	0 - 4.0"wc	-
GAG00928	2005	0 - 5.0"wc	-
GAG00993	2006	0 - 6.0"wc	-
GAG01039	2008	0 - 8.0"wc	-
GAG01040	2010	0 - 10.0"wc	-
GAG00988	2015	0 - 15"wc	-
GAG01133	2015-BUNA	0 - 15"wc	Buna-N Diaphragm
GAG01143	2030	0 - 30"wc	-
GAG01037	2300-0	0.25" - 0 - 0.25"wc	
GAG01032	2301	0.5" - 0 - 0.5"wc	
GAG00999	2302	1" - 0 - 1"wc	
GAG01000	2304	2" - 0 - 2"wc	
GAG01001	2310	5" - 0 - 5"wc	

### Magnehelic® Dual Scale Air Velocity Differential Pressure Gauge

- Pressure range: 0 to 10"wc
- Rated total pressure: -20" Hg to 15 psi
- Accuracy: ±2%
- For use with pilot tube



Part #	Mfg #	Range	Velocity
GAG01034	2000-0AV	0 - 0.50"wc	500 - 2,800 FPM
GAG01137	2001AV	0 - 1.0"wc	500 - 4,000 FPM
GAG01002	2002AV	0 - 2.0"wc	1,000 - 5,600 FPM
GAG01036	2010AV	0 - 10"wc	2,000 - 12,500 FPM

### Series DPGW Digital Pressure Gauge

- For air and compatible gases
- Accuracy: ±1%
- Digital pushbutton zero
- Can also be used to monitor compatible liquids



Part #	Mfg #	Pressure Range
GAG01293	DPGW-08	0 - 100 psi

### Series A3000 Photohelic® Pressure Switch & Gauge

- For air and non-combustible, compatible gases
- Temperature range: 20° to 120°F
- Pressure ranges: 0 to 0.25"wc up to 30 psi, or single positive pressure to 6000 psig
- 1/8" FPT
- Gauge unaffected by switch operation
- Lo-limit and hi-limit control
- Each set point includes (2) form C relays
- LT Suffix = low temperature
- 120VAC Power requirement



Part #	Mfg #	Range
GAG00998	A3000-00	0 - .25"wc
GAG01114	A3002-LT	0 - 2.0"wc
GAG00994	A3003	0 - 3.0"wc



# Pressure Controls

## Series 3000MR/3000MRS Photohelic® Pressure Switch & Gauge

- For air and non-combustible, compatible gases
- Temperature range: 20° to 120°F
- Pressure ranges: 0 to 0.25"wc up to 25 psi
- 1/8" FPT
- Gauge unaffected by switch operation
- Lo-limit and hi-limit control
- Each set point includes (1) form C relay
- 24VDC Power requirement

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Part #	Mfg #	Range
GAG01043	3002-MR	0 - 2.0"wc
GAG01165	3003-MRS	0 - 3.0"wc

## Series 3000SGT Photohelic® Pressure Switch & Gauge with Integral Transmitter

- For air and non-combustible, compatible gases
- Temperature range: 20° to 120°F
- Pressure range: 0 to 0.5"wc up to 10 psi
- 1/8" FPT
- Each set point includes (2) form C relays
- 120VAC Power requirement

**Dwyer**  
Manufacturing Excellence Since 1922



Part #	Mfg #	Range
GAG01062	3001SGT	0 - 1.0"wc
GAG01063	3002SGT	0 - 2.0"wc
GAG01070	3003SGT	0 - 3.0"wc

## Series 43000 Capsu-Photohelic® Pressure Switch & Gauge

- For compatible gases and liquids
- Brass case option required for water based liquids
- Temperature range: 20° to 120°F
- Pressure ranges: 0 to 0.5"wc up to 500 psi
- 1/4" FPT
- Each setpoint includes (2) form C relays
- Brass case
- 120VAC Power requirement

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Part #	Mfg #	Range
GAG01091	43205B	0 - 5 psid
GAG01092	43210B	0 - 10 psid
GAG01060	43215B	0 - 15 psid
GAG01051	43220B	0 - 20 psid

## Series DH/DHII Digihelic® Differential Pressure Controller

- For air and non-combustible, compatible gases
- Temperature range: 32° to 140°F
- Pressure range: 0 to 2.5"wc up to 100"wc 9 psi
- 1/8" FPT
- 100 to 240VAC or 24VDC Power requirement
- Includes (2) SPDT Relays

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Part #	Mfg #	Range
SEN01611	DH-006	0 - 5"wc
MOD02124	DHII-007	0 - 10"wc

## Head Pressure Controls

### Head Pressure Control Sensor Probe for Optional Heat Pump Bypass Control

- For use with ICM325HN, ICM326HN, ICM327HN, ICM330, and ICM333

**ICM**  
CONTROLS



Part #	Mfg #	Description
SEN00864	ICM379	79", 70° - 100°F (21° - 38°C)

# Pressure Controls

## Pressure Controls

### P32A Sensitive Pressure Air Flow Switch

- Easy-to-read set point scale
- Versatile mounting
- Dust-tight SPDT snap switch
- Ambient temperature: -40° to 167°F
- High pressure connectors are metal, 1/8" FNPT inside, 1/2" NPSM outside for mounting
- Low pressure connectors are molded, 1/8" FNPT
- Adjustable set point
- Used to sense air flow in ducts
- Maximum over-pressure at either connection: 1 psig
- Includes:
  - Mounting bracket
  - Side plate



Part #	Mfg #	Connection	Range	Sensitivity
SWT01999	P32DV-1C	6"	0.15 to 12 in wc	.07 in wc

### Lube Oil Pressure Cutout Control with Time Delay

- Universal mounting wiring
- Trip-free manual reset
- Ambient compensated time delay
- Non-corrosive refrigerants
- Maximum allowable overrun pressure: 425 psig
- Time delay relay not field replaceable
- For use with:
  - Semi-hermetic compressors



Part #	Mfg #	Time Delay	Circuit Heater VAC	Factory Setting PSIG (kPa)	Pressure Connection
CNT03062	P45NCA-12C	120 Sec	120/240	9 (Fixed)	36" Cap, 1/4" Flare Nut

### P70 Series - Single Pole Low Pressure Control

- Full adjustability through all pressure ranges
- Minimum differential
- Includes a universal mounting bracket
- For use with:
  - Air conditioning and refrigeration applications
  - Controls of air, water, and oil pressure



"All Range" for R-12, R-22, R134A, R-500, R-502 (R)

Part #	Mfg #	Switch Action	Range PSIG	Max Over-Diff PSI	Limited pressure PSIG	Knob Adj	Pressure Connection
CNT05253	P70AB-2C	SPST Open Low	20 - 100	7 - 50	325	Cut Out*	36" Cap, 1/4" Flr Nut

\* Supplied, but not assembled



# Pressure Controls

## P70 Series - Single Pole High Pressure Control

- Full adjustability, minimum differential
- Long life contact structure, no bounce on make
- Manual reset models are "trip-free"
- For use with:
  - Air conditioning and refrigeration
  - Controls of air, water, and oil pressure
- Includes a universal mounting bracket



### Condenser Fan Cycling Controls for R-12, R-22, R134A, R-500, R-502 (R)

Part #	Mfg #	Switch Action	Range PSIG	Max Over-Diff PSI	Limited pressure PSIG	Knob Adj	Pressure Connection
CNT05249	P70AA-118C	SPST Open Low	100 - 400	35 - 200	475	None	36" Cap, 1/4" Flr Nut

### Models for High Pressure Non-Corrosive Refrigerants: R-12, R-22, R134A, R-500, R-502 (R)

Part #	Mfg #	Switch Action	Range PSIG	Max Over-Diff PSI	Limited pressure PSIG	Knob Adj	Pressure Connection
CNT01162	P70AA-2C	SPST Open Low	0 - 150	10 - 70	325	None	36" Cap, 1/4" Flr Nut
CNT06209	P70DA-400C	SPST Opens High	200 - 610	L/O Manual Reset	690	None	36" Cap, 1/4" Flr Ftg

## P70 Series - Single Pole Dual Pressure Control

- Full adjustability
  - Minimum differential
  - Manual reset models are "trip-free"
  - Includes a universal mounting bracket
  - Pressure connector: 36" capillary with 1/4" flare nut
- "All Range" for R-12, R-22, R134A, R-500, R-502 (R)**
- SPST Switch action



Part #	Mfg #	Low Pressure Range PSIG	Low Pressure Diff PSIG	High Pressure Range PSIG	High Pressure Diff PSIG	Pressure Connection
CNT05258	P70LB-1C	20 - 100	6 - 50	100 - 500	Fixed Approx 65	36" Cap, 1/4" Flr Nut
CNT05260	P70MA-1C	20 - 100	6 - 50	100 - 500	Lockout Manual Reset	36" Cap, 1/4" Flr Nut



# Pressure Controls

## P74 Series Differential Pressure Control

- Differential setting changed without removing cover
- Field proven Pennswitch with completely enclosed contact mechanism
- Includes a universal mounting bracket
- For use with:
  - Differential pressure sensing on chillers or water cooled condensers
  - Lube oil failure cutout for refrigeration compressors
  - Positioning M100 series motor actuated valves
  - Prove pump operation



### Electrical Ratings

Motor Ratings VAC	120	208	240	277
AC Full Load Amps	6.0	3.4	8.0	-
AC Locked Rotor Amps	36.0	20.4	48.0	-
Non-Inductive or Resistance Load Amps (not lamp loads)	10.0	10.0	10.0	10.0

Pilot Duty - 125VA, 120 to 277VAC

### Brass Bellows

Part #	Mfg #	Switch Action	Range PSIG	Diff PSI	Pressure Connections
CNT03605	P74EA-8C	SPDT	2 - 26 Adj	3.5 Fixed	36" Cap, 1/4" Flare Nut



# Relays

## Relays

### LonWorks® Enclosed Relay

- Twisted-pair FT-10 network enclosed
- (1) Discrete output and input
- Override switch



Part #	Mfg #	AC/DC	AC	Relays	Contacts	Motor
RLY03060	RIBTW2401SB-LN	24VAC/DC	120VAC	1	SPST	2 hp
RLY03236	RIBTW24SB-LNT2	24VAC/DC	-	1	SPST	2 hp
RLY03058	RIBTW2401B-LN	24VAC/DC	120VAC	1	SPDT	2 hp

### Pilot Series Enclosed Relay

- Packaged to save installer time, trouble and expense of buying separate components (relay, LED indicator, socket, mounting rail, transient protection, and housing)
- 10A Resistive
- UL Listed
- cUL Listed



Part #	Mfg #	AC/DC	AC	Relays	Contacts	Motor
RLY02547	RIBU1C	10 - 30VAC/DC	120VAC	1	SPDT	1/3 hp
RLY02548	RIBU1S	10 - 30VAC/DC	120VAC	1	SPST	1/3 hp
RLY02549	RIBU2C	10 - 30VAC/DC	120VAC	2	SPDT	1/3 hp
RLY02561	RIBH1C	10 - 30VAC/DC	208 - 277VAC	1	SPDT	1/3 hp
RLY02542	RIB2401D	24VAC/DC	120VAC	1	DPDT	1/2 hp
RLY03152	RIB2421C	24VAC/DC	120 - 277VAC	1	SPDT	1 hp

### Pilot Series Track Mount Relay

- 15A Resistive
- Rated at 10 or 15A
- UL Listed
- cUL Listed



Part #	Mfg #	AC/DC	AC	Relays	Contacts	Motor
RLY02590	RIBMU1C	10 - 30VAC/DC	120VAC	1	SPDT	1/3 hp
RLY02598	RIBMU1SC	10 - 30VAC/DC	120VAC	1	SPDT	1/3 hp



# Relays

## Pilot Series, T Style Relay

- 10A Resistive
- UL Listed
- cUL Listed



Part #	Mfg #	AC/DC	AC	Relays	Contacts	Motor
RLY02573	RIBTU1C	10 - 30VAC/DC	120VAC	1	SPDT	1/3 hp

## Power Series Enclosed Relay

- Packaged to save installer time, trouble and expense of buying separate components (relay, LED indicator, socket, mounting rail, transient protection, and housing)
- 20A Contact rating
- UL Listed
- cUL Listed



Part #	Mfg #	AC/DC	AC	Relays	Contacts	Motor
RLY02541	RIB2401B	24VAC/DC	120VAC	1	SPDT	2 hp
RLY02543	RIB2401SB	24VAC/DC	120VAC	1	SPST	2 hp
RLY02544	RIB24P	24VAC/DC	-	1	DPDT	3 hp
RLY02618	RIB2402B	24VAC/DC	208-277VAC	1	SPDT	2 hp
RLY02620	RIB01P	120VAC	-	1	DPDT	3 hp
RLY03231	RIB2421B	24VAC/DC	120-277VAC	1	SPDT	2 hp

## Power Series T-Style Relay

- Rated at 20A or 30A
- Packaged to save time and expense (relay, LED indicator, socket, mounting rail, transient protection, and housing)
- Enclosed relay
- Hi/low separation



Part #	Mfg #	AC/DC	AC	Relays	Contacts	Motor
RLY02642	RIBT24P	24VAC/DC	-	1	DPDT	7.5 hp

## Time Delay Relays



Part #	Mfg #	Description
RLY00585	AMS-AB1702	24VAC, 300 Sec
RLY00527	BLR115A11X420	115VAC, 420 Sec, Solid State, SPDT
RLY01611	HMPS00C2X600-A H1101	24VAC, 600 Sec





# Relays

## Time Delay Relays For AC & HP Applications

- For A/C and HP applications in Trane air handlers
- UL Approved horsepower: 3/4 hp
- Pilot duty pole minimum: 3VA at 24VAC, maximum: 25V at 24VA
- Input: 24VAC nominal
- Total power consumption: 0.5VA (relay de-energized), 4.0VA (relay energized)



Part #	Mfg #	Contact Ratings	FLA	RLA	Resistive
RLY02807	57T01-001B1	25VA @24VAC Power/Pilot Pole, 2-Sec On-Delay	7A	36A	Includes PC Board
RLY03081	57T02-001B1	25VA @24VAC Power/Pilot Pole, 2-Sec On/45-Sec Off Delay	7A	36A	Includes PC Board

## Time Delay Relay



Part #	Mfg #	Description
RLY03167	D155079P01	Time Delay Relay

## Delay Timers

### ICM205 Delay On Break Timer

- 4-Terminal
- Brownout protection
- Compressor lockout/anti-short cycle timer
- Helps prevent scroll compressor reversal
- Input:
  - Voltage: 18 to 30VAC
  - 1.5A
  - 15A Inrush
  - Time delay: 5-minute fixed
- UL 873 Recognized as compressor controller



Part #	Mfg #	Description
TMR00163	ICM205	5 Minute Timer



# Relays

## Relays

### Heavy-Duty WR/RBM Type 184 Enclosed Fan Relay

- Heavy-duty, general purpose, totally enclosed
- Operates in any position, plugs into receptacles
- For air conditioning, heating, appliances, fan control, general purpose switching
- Mechanical life (no load): 1,000,000 operations, 30/minute
- Frequency: 50/60Hz
- Temperature range: -40° to 150°F
- SPNO/SPNC - Isolated contacts
- SPDT - Single-pole double throw

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Rodgers

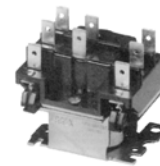


Part #	Mfg #	Type	Coil Voltage (50/60Hz)	DC Res	Nom Current MA	Nom VA Sealed	Inrush VA
RLY02764	90-360	SPNO	24V	77	125	3	4
RLY01730	90-370	SPDT	24V	77	125	3	4
RLY01718	90-380	SPNO/SPNC	24V	77	125	3	4
RLY01719	90-382	SPNO/SPNC	120V	2,000	25	3	4

### Two-Pole WR/RBM Type 91 Switching Relay

- 2-Pole double throw semi-enclosed relay
- For power or pilot duty, for vending machines, appliances, fan controls, heating and air conditioning applications, and general purpose switching
- Mechanical life (no load): 750,000 operations
- Frequency: 50/60Hz
- Fits receptacles
- Temperature range: -40° to 130°F

White  
Rodgers



Part #	Mfg #	Coil Voltage (50/60Hz)	Switching	Terminals 1-2-3	Terminals 4-5-6	DC Res	Nom Current MA
RLY01710	90-341	115/120V	DPDT	Power	Power	400	66
RLY01711	90-342	208/240V	DPDT	Power	Power	1415	38

### WR/RBM Type 84 Enclosed Fan Relay

- Totally enclosed
- Used for switching single or 2-speed fan motors, solenoids, relays resistive loads and general purpose switching
- Mechanical life (no load): 1,000,000 operations, 60/minute
- Frequency: 50/60Hz
- Temperature range: -40° to 150°F
- SPNO - Single-pole normally open
- SPDT - Single-pole double throw

White  
Rodgers



Part #	Mfg #	Type	Coil Voltage (50/60Hz)	DC Res	Nom Current MA	Nom VA Sealed	Inrush VA
RLY01703	90-290Q	SPNO	24V	90	125	3	4
RLY01706	90-293Q	SPDT	24V	90	125	3	4



# Smoke Detectors

## Notification Appliances

### SpectrAlert® Advance Mini-Horn

- Wall-mount
- Provides primary and secondary signaling for fire and security applications
- Features (2) volume settings, high or low, as well as temporal or non-temporal tones
- Compatible with 12V or 24V systems and System Sensor synchronization protocol
- UL Listed
- FM Approved
- California State Fire Marshall Listed



MHR



MHW



Part #	Mfg #	Color	Location	Features
TRM00052	MHR	Red	Indoor	(2) Volume Settings
TRM00053	MHW	White	Indoor	(2) Volume Settings

### SpectrAlert® Advance Wall-Mount Horn Strobe

- Intended for full building and property notification
- Standard candela
- Produces a loud sound and strobe to notify occupants to evacuate building
- Compatible with 12V or 24V systems
- Marked "FIRE" unless otherwise noted
- Models with "K" suffix are outdoor products listed to UL 1638 and UL 464, with an operating temperature of -40° to 151°F (-40° to 66°C)
- NEMA 4 Rating
- Includes:
  - Universal mounting plate with preliminary snap-in feature
  - (11) Field-selectable candela settings
  - Rotary switches to select horn tone and volume settings
- UL Listed
- FM Approved
- California State Fire Marshall Listed



P2R, P4R



P4WK



Part #	Mfg #	Color	Location	Wiring
TRM00051	P4R	Red	Indoor	4-Wire
SEN02252	P4WK	White	Outdoor	4-Wire

Controls



# Smoke Detectors

## SpectrAlert® Advance Plain Wall-Mount Horn Strobe

- Plug-in design, tamper-resistant
- Standard candela
- Horn rated at 88+ dBA at 16V
- Mounting plate shorting spring checks wiring continuity before device installation
- Compatible with existing SpectrAlert® products and System Sensor synchronization protocol
- Includes universal mounting plate
- UL Listed
- FM Approved
- California State Fire Marshall Listed



### Plain Wall-Mount Horn Strobe

Part #	Mfg #	Color	Location	Wiring
SEN02251	P4W-P	White	Indoor	4-Wire

## Fire Sprinkler Monitoring Products

### Control Valve Supervisory Switch

- NEMA 3R Enclosure rating when mounted with the actuator vertically
- UL and ULC Listed
- FM Approved



Part #	Mfg #	Description
SWT03701	OSY2	(2) SPDT Tamper / Outside Screw & Yoke Valves

## Smoke Detectors

### Model 2151 Photoelectric Detector

- Standby current: 120  $\mu$ A maximum
- Dimensions: 2.0" height; 4.1" diameter in B401 base; 6.1" diameter in B110LP base
- Air velocity rating: 3,000 fpm maximum
- Flame-retardant Noryl plastic construction
- Operating temperature: 32° to 120°F (0° to 49°C)
- UL Listed
- FM Approved
- California State Fire Marshall Listed



Part #	Mfg #	Description
SEN01009	2151	Low-Profile Photoelectric Detector



# Smoke Detectors

## D2 Series InnovairFlex™ 2-Wire Photoelectric Duct Smoke Detector

- Photoelectric, integrated low-flow technology
- Plug-in sensor
- Patented sampling tube installs from front or back with no tools
- Backward compatibility
- Dimensions:
  - 7.75"L x 9"W x 2.5"D Square
  - 14.38"L x 5"W x 2.5"D Rectangular
- Weight: 1.8 lbs
- Operating humidity range: 0% to 95% relative humidity, non-condensing
- Strip and clamp terminal connections suitable for 12-18 AWG wiring
- Air velocity rating: 100 ft/min to 4,000 ft/min
- UL Listed
- FM Approved
- California State Fire Marshall Listed



Part #	Mfg #	Description
SEN01758	D2	Duct Smoke Detector, Conventional, 2-Wire, Photoelectric

## D4 Series InnovairFlex™ 4-Wire Photoelectric Duct Smoke Detector

- Photoelectric, integrated low-flow technology
- Interconnect feature for multi-fan shutdown
- Field selectable settings
- Plug-in sensor
- Patented sampling tube installs from front or back with no tools
- High-contrast terminal designations
- Built-in short circuit protection from operator wiring errors
- Backward compatibility
- Dimensions:
  - 7.75"L x 9"W x 2.5"D Square
  - 14.38"L x 5"W x 2.5"D Rectangular
- Weight: 2.5 lbs
- Operating humidity range: 0% to 95% relative humidity, non-condensing
- Strip and clamp terminal connections suitable for 12-18 AWG wiring
- Air velocity rating: 100 ft/min to 4,000 ft/min
- (2) DPDT Form-C relay contacts
- (1) Easy-access test/reset button
- UL Listed
- FM Approved
- California State Fire Marshall Listed



D4120



D4S



D4P120



Part #	Mfg #	Operating Temp Range	Storage Temp Range	Power Supply Voltage
SEN01639	D4120	-4° - 158°F	-22° - 158°F	20 - 29VDC
656412980700	D4S	-4° - 158°F	-22° - 158°F	24VAC, 50 - 60Hz
656412980800	D4P120	-40° - 158°F	-40° - 158°F	120VAC, 50 - 60Hz

Controls



# Smoke Detectors

## D4120W InnovairFlex™ Watertight 4-Wire Photoelectric Duct Smoke Detector with Enclosure

- Photoelectric, integrated low-flow technology
- Interconnect feature for multi-fan shutdown
- Field selectable settings
- Dimensions:
  - 7.75"L x 9"W x 2.5"D Square
  - 14.38"L x 5"W x 2.5"D Rectangular
- Weight: 2.5 lbs
- Open humidity range: 0% to 95% relative humidity, non-condensing
- Flexible enough to fit configurations from square to rectangular
- Air velocity rating: 100 ft/min to 4,000 ft/min
- (2) DPDT Form-C relay contacts
- (1) Easy-access test/reset button
- UL Listed
- FM Approved
- California State Fire Marshall Listed



Part #	Mfg #	Operating Temp Range	Storage Temp Range	Power Supply Voltage
SEN01663	D4120W	-4° - 158°F	-22° - 158°F	20 - 29 VDC

## Remote Testing Appliances

### APA151 Piezo Annunciator

- For use with System Sensor® 4-wire conventional duct smoke detector applications without a system control panel
- Red LED indicates alarm status, green LED to indicate power status
- Dimensions: 4.6"H x 2.9"W x 0.45"D
- Voltage range: 16 to 33VDC
- Provides an audible alarm signal
- Operating temperature range: 32° to 120°F
- UL Listed
- FM Approved
- California State Fire Marshall Listed



Part #	Mfg #	Description
SEN00917	APA151	Remote Annunciator with Piezo Alarm

### RTS Series Remote Test Station

- Tests duct detectors from a more convenient location
- LED's illuminate red for alarm
- 14 to 18 AWG
- UL Listed
- FM Approved



RTS151



RTS151KEY



Part #	Mfg #	Description
SEN00919	RTS151	Remote Test Station 10mA Maximum LED Alarm with Test Magnet
SEN00920	RTS151KEY	RTS151 Remote Test Station with Test Magnet and (2) Keys

# Smoke Detectors

## Multi-Signaling Accessory

- Designed for use with InnovairFlex™ 4-wire conventional duct smoke detectors
- Features (2) bicolored LEDs that indicate the sensor status of up to (2) connected duct smoke detectors
- Provisions for single- or double-gang box mount
- LED Status indications include:
  - Standby (green blink)
  - Trouble (amber)
  - Maintenance (amber blink)
  - Alarm (red)
- UL and ULC Listed
- FM Approved
- California State Fire Marshall Listed



RTS2



RTS2-AOS



Part #	Mfg #	Description
CNT06346	RTS2	Multi-Signaling Accessory
CNT06053	RTS2-AOS	Multi-Signaling Accessory with Add On Strobe
CNT06052	AOS	Add-On Strobe

## Smoke Detector Accessories

### InnovairFlex™ Smoke Detector Sensor



Part #	Mfg #	Description
SEN02001	2D51	Low-Profile Duct Photo Sensor for D4P120 B210LP Pendant Mount

### Mounting Base for Smoke Detectors

- Enables quick and secure detector plug-in
- Sounder bases are compliant with UL 464 and UL 268
- Support for 12 - 24 AWG
- Multiple accessory options

### Mounting Base for 100 Series Detectors

- Compatible with square and octagonal standard 100 series detectors
- Relative humidity range: 10% to 93%, non-condensing
- Operating voltage: 120VAC Nominal
- External supply voltage: 120VAC
- UL Listed



B114LP



B114LPBT



Part #	Mfg #	Description
BAS01792	B114LP	Smoke Detector Base, 4-Wire 120VAC Form A&C Relays, For Use With 2151
BAS02164	B114LPBT	Smoke Detector Base, 4-Wire 24VAC/DC Form A&C Relays, For Use With 2151



# Smoke Detectors

## Mounting Base for 200 Series Detectors

- Compatible with square and octagonal standard 200 series detectors
- Relative humidity range: 10% to 93%, non-condensing
- Operating voltage: 15 to 32VDC
- External supply voltage: 16 to 33VDC
- UL Listed
- FM Approved
- California State Fire Marshall Listed



Part #	Mfg #	Description
BAS02381	B210LP	Detector Base, 6.1" Flanged Plug-In, For Use With 2D51

## Sampling Tube



Part #	Mfg #	Description
TUB12394	DST1	Metal Sampling Tube Duct Widths up to 1'
TUB12395	DST-1.5	Metal Sampling Tube Duct Widths 1' to 2'
TUB12396	DST3	Metal Sampling Tube Duct Widths 2' to 4'
TUB12397	DST-5	Metal Sampling Tube Duct Widths 4' to 8'
TUB12398	DST10	Metal Sampling Tube Duct Widths 8' to 12'
TUB12559	T80-0003-001	Tube Exhaust 4"

## Smoke Detector Parts



ETX



Part #	Mfg #	Description
TUB12463	ETX	1' Steel Exhaust Tube
FLR03648	F36-09-11	Replacement Air Filters, 2/Pk





## Notes



# Smoke Detectors

## Smoke Detectors

### RT-3000 Duct Smoke Detector

- Weathertight NEMA 4X rating, corrosion resistant
- 180° Visibility for indicators with cover on
- Patented cover tether retains the one-piece cover at unit
- Flashing LED on detector head
- Compatible with building automation and fire alarm systems
- Interconnect up to 30 units for common function
- Two sets of 10A form "C" alarm contacts
- One set of 10A form "C" trouble contacts
- One set of 10A form "A" alarm contacts and one set of 7A form "B" trouble contacts for FACU interface



### SM-501 Duct Smoke Detector

- For high temperature applications
- Interconnect up to 30 units for common functions
- Rugged steel back box with clear cover
- Compatible with the WP-1 weatherproof enclosure
- Easy retro-fit/upgrade of existing RW series detectors
- Clear cover fitted with 4 captive screws
- Large terminal connection screws
- Interchangeable "plug-in" photoelectric or ionization heads
- Easy mounting without cover removal
- Advanced detector head design yields internal dust filtering with no additional screens or filters to clean
- Two sets of 10A form "C" alarm contacts
- One set of 10A form "C" trouble contacts
- UL, cUL, CSFM and MEA Listed compact size



Part #	Mfg #	Description
SEN01786	RT-3000-P	Outdoor Photoelectric: 230VAC, 115VAC, 24VAC, 24VDC

### SL-2000 Duct Smoke Detector

- Low-flow technology: both ionization and photoelectric models listed for velocities between 100 - 4,000ft/min
- Operating voltages: 230VAC, 115VAC, 24VAC, 24VDC
- Interconnect up to 30 units for common functions
- Patent pending "test port valve" allows for aerosol smoke testing without cover removal
- Instantaneous cover removal trouble indication
- Staggered terminal blocks for easier wiring
- True front loading sampling tubes
- Flashing LED on detector head indicates normal operation
- Magnet test capability (magnet included)
- More wiring space than competitive models
- Footprint allows retro-fit in many applications without additional drilling
- Over 15 remote accessories available
- Compatible with the WP-2000 weatherproof enclosure
- Reset switch is also an alarm test switch - competitive models require a magnet or cover removal



Part #	Mfg #	Description
SEN01837	SM-501-N	Ionization: 230VAC, 115VAC, 24VAC, 24VDC



Part #	Mfg #	Description
SEN01783	SL-2000-N	4-Wire Ionization
SEN01784	SL-2000-P	4-Wire Photoelectric



# Smoke Detectors

## Smoke Detector Accessories

### Advanced Remote Accessories

- Available as single gang remote indicator/control, or with the addition of a double gang strobe assembly
- Tri-color visual indication of detector pilot, trouble, and alarm conditions
- Lever-operated quick-connect "no-tools" terminal block
- Port for plugging in the optional strobe assembly

### MSR-50 Series Advanced Remote Accessories

- MSR-50RK Provides a key-operated detector test and reset function



Part #	Mfg #	Description
PLT04562	MSR-50RK/R	Remote Controller with Key-Operated Detector Test & Red Face Plate
PLT04563	MSR-50RKA/R	Remote Controller, Double Gang with Key-Operated Detector Test, Enhanced Audio Sounder, & Red Face Plate
PLT04564	MSR-50RKAV/R/C	Remote Controller, Double Gang with Key-Operated Detector Test, Audio Visual Combination, Red Face Plate, & Clear Lens
PLT04565	MSR-50RM/R	Remote Controller with Hidden Magnet Test, Pushbutton Reset & Red Face Plate
PLT04566	MSR-50RMA/R	Remote Controller, Double Gang with Hidden Magnet Test, Pushbutton Reset, Enhanced Audio Sounder, & Red Face Plate
PLT04567	MSR-50RMAV/R/C	Remote Controller, Double Gang with Hidden Magnet Test, Pushbutton Reset, Audio Visual Combination, Red Face Plate, & Clear Lens

### MSR- 100 Series Advanced Remote Accessories

- Key operated detector test and reset function
- Buzzer silence function, with silenced indication and "ring back" following condition correction
- Selectable audible indication of alarm, trouble, or both



Part #	Mfg #	Description
PLT04835	MSR-100R/R	Remote Controller, Single Gang, Key-Operated Test & Red Face Plate
PLT04640	MSR-100RAV/W/C	Remote Controller, Double Gang with Enhanced Sounder & Strobe Assembly, White Face Plate & Opaque Lens

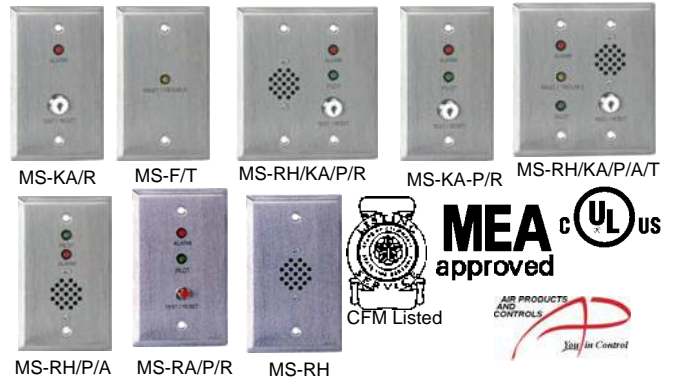
### MSR-AV Terminal Series Single-Gang AV Notification Device

- Private mode audible and visual alarm notification
- Polarized terminal blocks for 24VDC connection



Part #	Mfg #	Description
PLT04781	MSR-AV/T/W/O	Audio Visual Combo Sounder with LED Strobe, White Plate, Opaque Lens

### MS Series Remote Accessories

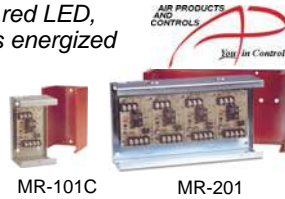


Part #	Mfg #	Description
ALM00011	MS-KA/R	Remote Alarm LED (Red) & Key-Operated Test/ Reset Switch
ALM00015	MS-RH/KA/P/R	Remote Alarm Horn, Alarm LED (Red), Pilot Led (Green) & Key-Operated Test/Reset Switch
ALM00012	MS-KA-P/R	Remote Alarm LED (Red), Pilot LED (Green) & Key-Operated Test/Reset Switch
ALM00014	MS-RH/P/A	Remote Alarm Horn, Alarm LED (Red) & Pilot LED (Green)
ALM00016	MS-RH-KA/P/A/T	Remote Alarm Horn, Alarm LED (Red), Trouble Led (Yellow), Pilot LED (Green) & Key-Operated Test/Reset Switch
ALM00010	MS-RA/P/R	Remote Alarm Pilot LED (Green) Alarm LED (Red) Push Button Test/Reset
ALM00013	MS-RH	Buzzer

# Smoke Detectors

## Multi-Voltage Control Relay

- Ideal for applications where local contacts are required for system status, remote contacts for control of electrical loads and general purpose switching
- A single relay may be energized from a voltage source of 24VDC, 24VAC, 120VAC, 230VAC
- Each relay position contains a red LED, which indicates the relay coil is energized
- 10A Resistive contacts
- DC Polarized
- 0.16 Contact horsepower



Part #	Mfg #	Description
RLY03525	MR-101C	SPDT, Gray, 1-Position
RLY03511	MR-201/C	DPDT, Gray, 1-Position
RLY03512	MR-201/C/R	DPDT, Red, 1-Position

## Replacement Head For Smoke Detector

- Ionization model listed for velocities between 0-2,000 ft/min
- Photoelectric model listed for velocities between 0-3,000 ft/min
- Listed for high-temperature applications



Part #	Mfg #	Description
CNT06101	55000-225APO	Ionization Replacement Smoke Detector Head
CNT06102	55000-328APO	Photoelectric Replacement Smoke Detector Head

## Sampling Tube for SL-2000 & RT-3000 Series



Part #	Mfg #	For Duct Widths:
TUB13067	Fastube	(3) Pieces of 2' Sampling Tube

## Test Gas

- Standard test gas with spray nozzle
- Includes nozzle for test port



Part #	Mfg #	Description
TOL03385	TG-2000	For SL- & RT-Series

## Carbon Monoxide Alarms

- Easy access to test/reset button
- 85 dBs Horn
- UL Listed
- CSA Approved



Part #	Mfg #	Description
SEN02075	CD-9000-C	Battery Operated
SEN02423	CD-9000-D	Battery Operated

## Carbon Monoxide Detectors

### SL-710 Carbon Monoxide Duct Detector Kit

- Provides early detection of carbon monoxide in air moving through the HVAC duct supply, return, or both in commercial, industrial, or residential applications
- Can detect four levels of carbon monoxide
- Will shut down the AHU to prevent the spread of harmful gas to occupied space in the event that dangerous levels of CO are detected
- Included MSR-50CO remote accessory can be used to provide audible and visual alarm indication
- 6-Year life in normal environmental conditions



Part #	Mfg #	Description
SEN01949	SL-701	Carbon Monoxide Detector Kit

## Carbon Dioxide Sensors

### Duct Mount CO2 Sensor

- Non-Dispersion-Infrared (NDIR) technology used to measure carbon dioxide gas
- SPST Relay output
- Automatic Background Calibration (ABC) algorithm based on long-term evaluation reduces required typical zero-drift check

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Part #	Mfg #	Description
SEN01782	C7232B1030	Duct Mount Co2 Sensor less Display, (1) Relay Output

# Temperature Controls

## Temperature Switches

### TCS Series Thermocouple Temperature Switch

- Measurement range: 32° to 999°F (0° to 700°C) Type J, 32° to 999°F (0° to 999°C) Type K or S Thermocouple
- SPDT Relay output
- Temperature limits:
  - Ambient: 32° to 158°F
  - Storage: -4° to 176°F



Part #	Mfg #	Supply	Scale	Input
SWT02885	TCS-4010	110VAC	°F	Type J, K, or S
SWT02886	TCS-4011	110VAC	°C	Type J, K, or S
SWT02887	TCS-5010	110VAC	°F	Type J, K, or S

### THC Series Temperature & Humidity Switch

- Measurement range: -58° to 30°F
- (4) SPST Relay outputs
- Temperature limits:
  - Ambient: 32° to 158°F
  - Storage: -4° to 176°F



Part #	Mfg #	Supply	Scale
SWT03377	THC-10	110VAC	°F
SWT03378	THC-20	230VAC	°F



# Notes

Controls



# Thermostats

## Touchscreen Series Thermostats

### Touchscreen Residential Thermostat

- Switchable programmable or non-programmable
- Easy to read display
- Dual fuel compatible
- Independently adjustable timers and deadbands for all stages of heating and cooling
- Passcode security for screen lock and setpoint limits
- Simple-stat operation
- Programmable fan
- Outdoor sensor ready
- Choice of English, Spanish, and French
- Customizable screensaver and wallpaper
- Weather forecast display when connected to Skyport
- Home/away feature
- Supply air alert



Part #	Description	Used With
SFTHR742	4 Heat/2 Cool	Gas, Electric, & Heat Pumps
SFTHRSH742	4 Heat/2 Cool with Humidity Control	Gas, Electric, & Heat Pumps

### Touchscreen Commercial Programmable Thermostat

- Time period programming with occupied/unoccupied periods
- 365-Day holiday scheduler
- Independently adjustable timers and deadbands for all stages of heating and cooling
- Multi-level passcode security for screen lock and setpoint limits
- Fan purge
- Outdoor or remote temperature sensing
- Override functionality
- Smart recovery
- Choice of English, Spanish, and French
- Customizable screensaver and wallpaper
- Weather forecast display when connected to Skyport
- Supply air alert



Part #	Description	Used With
SFTHCTS742	7-Day 4 Heat/2 Cool	Gas, Electric, & Heat Pumps
SFTHCTSH742	7-Day 4 Heat/2 Cool with Humidity Control	Gas, Electric, & Heat Pumps



# Thermostats

## Premier Series Residential Thermostats

- Easy to read backlit display
- Adjustable backlight intensity
- Customizable scrolling marquee with English, Spanish, and French language support
- Auxiliary heat indicator
- Outdoor sensor ready
- Accepts RF module for wireless remote sensors
- Wall plate available (model SFTHAPWP)
- USB Programmer compatible
- Customizable service alerts and error messages
- Switchable manual or auto-changeover
- Morning, day, evening, and night time periods
- Wireless accessories
- Service filter and UV lamp replacement reminders
- Random start
- Dual units (F or C)
- Input or condensate overflow sensor



## SFTHRKPH742 Residential Programmable Thermostat

- Dual fuel compatible
- Remote sensor ready
- Controls humidification, dehumidification, and reheat
- Programmable output for free cooling, ventilation, and more

Part #	Description
SFTHRP742	1, 5/2, or 7-Day 4 Heat/2 Cool

## SFTHRP742 Residential Programmable Thermostat

- Remote sensor ready

Part #	Description
SFTHRP742	1, 5/2, or 7-Day 4 Heat/2 Cool

## SFTHRP121 Residential Thermostat

- Automatic or manual changeover

Part #	Description
SFTHRP121	1-Day or Non-Prog 2 Heat/1 Cool





# Thermostats

## Premier Series Commercial Thermostats

- Easy to read backlit display
- Adjustable backlight intensity
- Customizable scrolling marquee with English, Spanish, and French language support
- Auxiliary heat indicator
- Outdoor sensor ready
- Accepts RF module for wireless remote sensors
- Wall plate available (model SFTHAPWP)
- USB Programmer compatible
- Customizable service alerts and error messages
- Switchable manual or auto-changeover
- Wireless accessories
- Service filter and UV lamp replacement reminders
- Random start
- Dual units (F or C)
- Input for condensate overflow sensor



## SFTHCPH742 Commercial Programmable Thermostat

- (3) Occupied time periods
- Remote sensor ready
- Setpoint limiting
- Light activation equipped
- Economizer control
- Preoccupancy fan purge
- Programmable output for free cooling, ventilation, and more

Part #	Description
SFTHCPH742	4 Heat/2 Cool

## SFTHCP742 Commercial Programmable Thermostat

- (3) Occupied time periods
- Setpoint limiting

Part #	Description
SFTHCP742	4 Heat/2 Cool

## SFTHCPH022 Commercial Non-Programmable Thermostat

- Controls humidification, dehumidification, and reheat
- Setpoint limiting
- Remote sensor ready

Part #	Description
SFTHCPH022	Non-Prog 2 Heat/2 Cool



# Thermostats

## Value Series Residential Thermostats

- Easy to read digital display
- Battery or system powered
- Sleek styling and white color



### SFTHRV011 Residential Non-Programmable Thermostat

- Compatible with 2,3, or 4-wire systems
- RC and RH Terminals

Part #	Description	Used With
SFTHRV011	Non-Prog 1 Heat/1 Cool	Gas/Electric, Heat Pumps, & Hydronic Heat

### SFTHRV5211 Residential Programmable Thermostat

- Compatible with 2,3, or 4 wire systems
- RC and RH terminals

Part #	Description	Used With
SFTHRV5211	5/2Day 1 Heat/1 Cool	Gas/Electric, Heat Pumps, Electric & Hydronic Heat

### SFTHRVHP021 Residential Non-Programmable Thermostat

- Compatible with 4-wire systems

Part #	Description	Used With
SFTHRVHP021	Non-Prog 2 Heat/1 Cool	Heat Pumps

### SFTHRVHP5221 Residential Programmable Thermostat

- Compatible with 4-wire systems

Part #	Description	Used With
SFTHRVHP5221	5/2 Day 2 Heat/1 Cool	Heat Pumps

## Thermostat Accessories

### Add-A-Wire™

- Easy to install
- Easier than running new wire
- Add a second Add-A-Wire to allow 5 wires to work like 7 wires



Part #	Description
SFTHAADDWIRE	Add-a-Wire™ for Touchscreen or Premier Thermostats



# Thermostats

## Skyport Wi-Fi Key

- Using the mobile app on virtually any mobile device, users can control their energy usage and reduce energy costs
- Allows thermostat access over the internet
- 802.11 b/g Wireless Lan, Wi-Fi compatible



Part #	Description
SFTHATSWIFI	WiFi Internet Access Module for Thermostats

## Sensor



Part #	Description
SFTHATSSSEN	Indoor/Outdoor Temperature Sensor for Touchscreen Thermostats
SFTHAPSENRF	Wireless Indoor/Outdoor Temperature Sensor for Touchscreen Thermostats

## Lock Ring



Part #	Description
SFTHAPLOCK	Lock Ring for Premier Series

## USB Programmer



Part #	Description
SFTHAPUSB	USB Easy Programmer for Premier Thermostats

Controls



# Thermostats

## Wall Plate



Part #	Description
SFTHATSWP	Wall Plate for Touchscreen Thermostats
SFTHAPWP	Wall Plate for Premier Series
SFTHAVWP	Wall Plate for Value Series

## T8775 The Digital Round® Electronic Non-Programmable Thermostats

- Attractive styling complements any decor
- Large easy-to-read display
- Backlit display
- Setpoint temperature held permanently in memory in the event of power failure
- Powered through heating-cooling system controls
- 24VAC Gas or oil
- System and fan switches on the T8775C model
- Manual changeover from heat to cool on T8775C model
- Easy installation and set up
- Easily configurable by the use of DIP switches
- Fahrenheit or Celsius temperature
- Selectable heating cycle rates (1, 3, 6, 9 CPH) for a variety of applications
- Cooling cycle rate is fixed at 3 CPH (standard compressor setting)
- Minimum off-time for the compressor in the cooling mode
- Decorative cover plate is available to cover marks on the wall or to mount thermostat to an electrical box
- Premier White®

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T8775A

T8775C

Part #	Mfg #	Stages	Terminals	Notes
THT02598	T8775A1009	1-Stage Heat Only	R,Rc,W,Y,G,O,B	Gas or Oil; 2-Wire
THT02475	T8775C1005	1 Heat/1 Cool Heat Pump	R,Rc,W,Y,G,O,B	No Aux Heat, Manual Changeover



# Thermostats

## FocusPRO® 5000 Non-Programmable Digital Thermostats

- Electronic control of 24VAC, heating and cooling systems or 750mV heating systems
- Clear, backlight display
- Precise comfort control +/- 1°F of your set temperature
- Temperature control range stops
- Soft-key, simplified controls
- Battery door flips out without disassembling thermostat
- Automatic/manual selectable changeover
- Dual-powered, battery or hardwired
- Built-in compressor protection: minimum-off timer protects compressor from restarting too early after a shutdown
- Temperature range:
  - Heat: 40° to 90°F
  - Cool: 50° to 99°F
- Dimensions: 3-7/16"H x 4-1/2"W x 1-5/16"D
- Premier White®

Honeywell



Part #	Mfg #	Stages	Terminals
THT02487	TH5110D1006	1 Heat/1 Cool	R,Rc,C,W(O/B),Y,G

## FocusPRO® 6000 5+2 or 5+1+1 Day Programmable Digital Thermostats

- Selectable to 5-1-1 (weekdays, Saturday, Sunday) or 5-2 (weekdays, weekend) programmable thermostat
- Large, clear, backlit display - easy to read in various lighting conditions
- Precise comfort control (+/- 1 F) - maintains consistent comfort to the highest level of accuracy
- Simplified programming and operation
- Battery door flips out without disassembling thermostat
- Built-in, pull-out instruction manual
- Adaptive Intelligent Recovery™ Ensures programmed temperature is reached by programmed time
- Temperature range stops to prevent user from setting temperature too high or too low
- Temperature range:
  - Heat: 40° to 90°F
  - Cool: 50° to 99°F
- Dimensions: 3-9/16"H x 5-13/16"W x 1-1/2"D
- Premier White®
- 5-Year warranty

Honeywell



Part #	Mfg #	Stages	Terminals
THT02512	TH6110D1021	1 Heat/1 Cool	Rc,R,W(O/B),C,Y,G
THT02626	TH6320U1000	2H/2C Conv, 3H/2C Heat Pump	Rc,R,W(O/B),W2(AUX/E),Y,Y2,G,L,C

Controls



# Thermostats

## PRO® 3000 Basic Non-Programmable Digital Thermostats

- Electronic control of 24VAC, heating and cooling systems or 750mV heating systems
- Digital backlight display
- Precise comfort control (+/-1°F)
- Easy slide switches allow selection of heat or cool mode and fan operation
- Manual changeover
- Dual-powered, battery or hardwired
- Temperature range:
  - Heat: 40° to 90°F
  - Cool: 50° to 99°F
- Dimensions: 3-13/16"H x 5-3/8"W x 1-1/4"D
- Premier White®

**Honeywell**



Part #	Mfg #	Stages	Terminals	Notes
THT02576	TH3210D1004	2 Heat/1 Cool	R,Y,AUX,E,G,O,B,L,C	Conv Heat Pump

## PRO® 4000 5+2 Day Programmable Digital Thermostats

- Electronic control of 24VAC, heating and cooling systems or 750mV heating systems
- Weekday/weekend programming to fit your lifestyle
- Clear, backlight display
- Precise comfort control +/- 1°F of your set temperature
- Easy slide switches allow selection of heat or cool mode, and fan operation
- Dual-powered, battery or hardwired
- Manual changeover
- Built-in, pull-out instruction manual
- Adaptive Intelligent Recovery™ Ensures programmed temperature is reached by programmed time
- Temperature range:
  - Heat: 40° to 90°F
  - Cool: 50° to 99°F
- Dimensions: 3-13/16"H x 5-3/8"W x 1-1/4"D
- Premier White®

**Honeywell**



Part #	Mfg #	Stages	Terminals
THT02577	TH4110D1007	1 Heat/1 Cool	Rc,R,W,Y,G,O,B,C



# Thermostats

## Prestige® HD IAQ 2-Wire Color Touchscreen 7-Day Programmable Thermostat System

- RedLINK™ wireless communication
- Up to 4 heat/2 cool heat pump or 3 heat/2 cool conventional
- Selectable for residential or light commercial use
- Control heating, cooling and IAQ equipment with only 2 wires at the thermostat
- High definition color touchscreen thermostat
- (3) Assignable outputs to control humidification, dehumidification, and ventilation
- (4) Sensor inputs for wired sensors or dry contact devices
- Works with the Equipment Interface Module and RedLINK® accessories including the RedLINK® Internet Gateway, Portable Comfort Control, Wireless Outdoor Sensor and Wireless Indoor Sensor
- Selectable residential or light commercial applications
- Meets commercial code and is title 24 compliant
- Light commercial language (occupied and unoccupied), schedule holidays and custom events, remote setback, economizer and time of day
- Control heating, cooling and IAQ equipment with only (2) wires at the thermostat
- Heating, cooling and IAQ equipment wires to the Equipment Interface Module
- Smart Schedule programs in seconds for any lifestyle
- Patented interview based programming and installer setup
- Delta T alerts and diagnostics informs customers when their system is not performing as expected with instructions to contact the dealer
- All Prestige® IAQ kits come standard with a return and discharge air temperature sensor to measure Delta T
- Keeps a searchable history of alerts and setting changes to the thermostat to determine if there is a system malfunction or if the issue was caused by user error
- Keeps a history of heating and cooling performance
- Customizable service reminders
- USB Port for transferring installer setup, customizable reminders, custom events and holidays to multiple thermostats
- USB Port for adding the dealer's full color business logo on the screen
- Automatic or manual selectable changeover
- Tri-lingual - English, French and Spanish display options
- Hardwire
- Thermostat terminals: R, C then RedLINK™ to Equipment Interface Module
- Kit terminals: R, RC, RH, C, W-O/B, W2-AUX1, W3-AUX2, Y, Y2, G, A-L/A, U1, U1, U2, U2, U3, U3, S1, S1, S2, S2, S3, S3, S4, S4, A, B, C, D
- Thermostat dimensions: 3-15/16"H x 6-7/8"W x 1-1/2"D
- Display: 8.06 square inch
- Arctic White
- 5-Year warranty

**Honeywell**



THX9421R5021WW Shown



YTHX9421R5085WW Shown

Controls

Part #	Mfg #	Description
YTHX9421R5101WW	YTHX9421R5101 WW/U	Kit: THX9421R5021WW Prestige® IAQ 2-Wire Thermostat, THM5421R1021 Equipment Interface Module, 37089R1013 Wireless Outdoor Sensor and (2) Duct Sensors, White Front, White Side



# Thermostats

## VisionPRO® 8000 Touchscreen 7-Day Programmable Thermostat with RedLINK™ Technology

**Honeywell**



- Thermostat works standalone or with the THM5421R1021 Equipment Interface Module or with the THM4000R1000 TrueZONE® Wireless Adapter
- Works with the RedLINK™ accessories
- RedLINK™ wireless communication
- Smart Schedule programs in seconds, no manual needed
- Patented interview based programming and installer setup
- Selectable for residential and light commercial applications meets commercial code and is title 24 compliant
- Light commercial - commercial language (occupied and unoccupied), schedule holidays and custom events, remote setback (requires THM5421R1021 Equipment Interface Module), economizer and time of day
- Alerts and user interactions log, keeps a searchable history of alerts and setting changes to the thermostat to determine if there is a system malfunction or if the issue was caused by a user error, viewable on a computer after you download them from the thermostat to a microSD card
- Customizable service reminders
- MicroSD port for copying the installer setup, customizable reminders, custom events and holidays to multiple thermostats; adding the dealer's contact information on the screen
- Automatic or manual selectable changeover
- Dual-powered: battery or hardwired (C wire)
- Meets commercial code and is title 24 compliant
- Precise temperature control: (+/- 1° F) for reliable and consistent temperature
- Multiple staging options to provide comfort or energy savings
- Setting temperature range:
  - Heat: 40° to 90°F (4.5° to 32°C)
  - Cool: 50° to 99°F (10° to 37°C)
- Dimensions: 4-5/8"H x 4-15/16"W x 1-1/8"D
- Display: 10 square inch
- Arctic White

Controls

Part #	Mfg #	Application	Terminal Designations
THT02617	TH8321R1001/U	2H/2C Conv, 3H/2C Heat Pump	R,RC,C,W(O/B),W2-AUX/E,Y,Y2,G,A-L/A,K,U1U1,S1S1*

\* Includes a set of Universal IAQ contacts to control humidification, dehumidification or ventilation





# Thermostats

## Wireless Heat & Cool Thermostats

### FocusPRO® Wireless Thermostat Kit

- Powered by RedLINK™ reliability
- Can display outdoor temperature and humidity
- Connects to internet with RedLINK™ gateway
- 1-Year battery life, 2-month low battery warning
- Includes:
  - Wireless FocusPRO®
  - 5+1+1 Programmable thermostat
  - Equipment interface module (THM5320R1000)
  - Return air sensor (C7735A1000)



Part #	Mfg #	Description
KIT15293	YTH6320R1001	Wireless FocusPRO Kit

### Wireless FocusPRO® Thermostat

- Compatible with gas, oil, electric, heat pump, forced warm air, hot water, steam or gravity
- Easily add a zone to a TrueZONE™ system without running new wires
- Powered by RedLINK™ reliability
- No interference with other wireless devices in the home
- Works with compatible RedLINK™ enabled devices
- Same great features of the FocusPRO® thermostat now wireless
- Installs in minutes
- Can display outdoor temperature and humidity (if wireless outdoor sensor is installed)
- Battery powered only
- 1-Year battery life, 2-month low battery warning
- Premier White®



Part #	Mfg #	Stages	Program
THT02753	TH6320R1004	3 Heat/2 Cool	5+1+1 or 5-2 Day Programmable

## Wireless Thermostat Accessories

### Personal Comfort Station™

- Works in both zoned and non-zoned applications
- Powered by RedLINK™ reliability
- Built in pager with an audible noise helps locate the device in the home
- Battery powered
- Touchscreen interface with backlit display
- Can display outdoor temperature and humidity



Part #	Mfg #	Description
CNT05214	REM5000R1001	Portable Comfort Station Control, RedLINK™ Enabled



# Thermostats

## RedLINK™ Internet Gateway

- Provides remote access to any RedLINK® enabled thermostat through the internet, smart phone, or tablet
- Includes 3' ethernet cable and plug-in power adapter
- Operating temperature: 32° to 120°F



**Honeywell**

Part #	Mfg #	Description
CNT06691	THM6000R1002	Up to 4 Heat/2 Cool Heat Pumps

## RedLINK™ Wireless Indoor Air Sensor

- Used to change the sensing location of the thermostat
- Works with RedLINK™ 2.0 thermostats
- Sense temperature and humidity remotely
- Control temperature and humidity in separate locations
- Humidify and dehumidify in separate locations
- Up to (6) wireless sensors per thermostat
- Dimensions: 2-7/8"H x 1-7/8"W x 15/16"D
- Operating temperature: 0° to 120°F
- Includes (2) AAA batteries and mounting hardware



**Honeywell**

Part #	Mfg #	Description
SEN01990	C7189R1004	RedLINK™ Wireless Indoor Sensor

## Wireless Outdoor Temperature Sensor

- Powered by RedLINK™ reliability
- No interference with other wireless devices in the home
- Reliable performance in all climates
- Installs in minutes
- Up to 5-years of battery life, 2-month low battery warning
- Battery warning displayed on RedLINK™ enabled thermostats
- Includes (2) AA Lithium batteries and mounting hardware



**Honeywell**

Part #	Mfg #	Description
SEN01627	C7089R1013	Wireless Outdoor Sensor, Senses Outdoor Temperature and Humidity, RedLINK™





# Thermostats

## T87K/T87N The Round® Non-Programmable Thermostats

- Mercury-free
- Provides electronic control of 24VAC heating and cooling systems
- Separate temperature setting and thermometer
- Classic twist dial
- Manual changeover
- Battery assisted power stealing
- Dimensions: 3-11/16" Dia x 1-3/4"D
- Setting temperature range: 40° to 90°F
- Premier White®

**Honeywell**



T87K1007

T87N1000

Part #	Mfg #	Stages	Terminals
THT02569	T87K1007	Heat Only	R, W, Y
THT02616	T87N1000	1 Heat/1 Cool Conv & Heat Pump	R,Rc,W,Y,G,O,B

## Commercial Proportional Thermostats

### ZonePRO® Commercial Modulating/Floating Control Thermostat

- For use with low-voltage pressure-dependent VAV applications and hydronic perimeter heating/cooling and bypass box with or without reheat
- Temperature range: 50° to 95°F
- Wall-mount
- 24VAC, 50/60Hz
- Dimensions: 4-3/4"H x 2-3/4"W x 1"D



**Honeywell**

Part #	Mfg #	Description
THT02719	TB6980A1007	ZonePRO Floating Control Thermostat, 0.5A Max @ 24VAC Output Signal, (2) Additional Outputs (1 Analog/TRIAC, 1 TRIAC)
THT02571	TB6980B1006	ZonePRO Floating Control Thermostat, 0.5A Max @ 24VAC
THT02573	TB7980A1006	ZonePRO Modulating Control Thermostat, 0 - 10 VDC or 2 - 10 VDC Output Signal, (2) Additional Outputs
THT02574	TB7980B1005	ZonePRO Modulating Control Thermostat, 0 - 10VDC



# Thermostats

## Programmable Commercial Thermostats

### MultiPRO™ 7000 7-Day Programmable Thermostat

**Honeywell**

- Large, backlit display shows the current and set temperature and time
- Real-time clock keeps time during power failures and automatically updates to daylight savings time
- Menu-driven programming
- Battery replacement reminder
- Holiday override option allows program schedule override
- Same-schedule programming
- 24VAC Electrical connection or battery
- Dimensions: 3-3/4"H x 8"W x 1-3/8"D



Part #	Mfg #	Stages	Programs	Notes
THT02768	TB7100A1000	2 Heat/1 Cool	7-Day	Heat Pump, Fan Coil & PTAC Systems

### SuitePRO® Digital Residential/Light Commercial Fan Coil Thermostat

**Honeywell**

- Manual control of system operation, fan speed, and temperature set point adjustment
- VersaSpeed™ Fan ramp algorithm automatically adjusts fan speed
- Optional freeze protection feature that turns on heat, if necessary
- Activity sensing algorithm sets back thermostat to economy mode
- Auto fan reset option sets back fan to auto mode
- Energy savings input configurable as a normally open or normally closed dry contact
- Proportional plus integral (P+I) control algorithm for precision temperature regulation
- Adjustable deadband, in auto changeover mode, for heat and cool control
- Installer setup mode allows changes of operating parameters
- EEPROM Permanently retains user settings during power loss (no batteries required)
- Capability to display temperature sensor failure for easier troubleshooting



Part #	Mfg #	Description
THT02767	TB8575A1000	3-Speed, 2 or 4 Pipe Manual/Auto Heat/Cool Changeover, Supply Voltage: 20/30VAC 50/60Hz
THT02765	TB6575A1000	3-Speed, 2 or 4 Pipe Manual/Auto Heat/Cool Changeover, Supply Voltage: 120/240VAC 50/60Hz

Controls



# Thermostats

## Commercial Remote Temperature Controls

### T775 Commercial Solid State Electronic Remote Temperature Controller

- With platinum sensor
- Set point range: -40° to 248°F
- Differential temperature: 1°F to 150°F
- Heat or cool
- 24/120/240VAC, 50/60Hz



**Honeywell**

T775A,B,M,P,R,L,U

T775S

Part #	Mfg #	Control Mode	Temp Inputs	Relay Outputs	Notes
CNT05930	T775A2009	SPDT	1	1	Replaces T775A1001
CNT05087	T775B2024	SPDT NEMA 4 Enclosure	2	4	Includes: T775-SENS-WR (1)
CNT05076	T775B2032	SPDT	2	2	Includes: 50021579-001 Sensor
CNT05077	T775B2040	SPDT	2	4	Replaces T775A1027/A1035 B1018/B1026/B1042/B1042
CNT05086	T775B2016	SPDT	2	2	Includes: T775-SENS-WR (One)
CNT05091	T775L2007	SPDT	2	4	50021579-001 (1)
CNT05078	T775M2006	Modulating-NEMA 1	2	0	50021579-001 (1)
CNT05089	T775M2014	SPDT	2	4	Includes: T775-SENS-WR(One)
CNT05088	T775M2022	SPDT	2	2	Includes: T775-SENS-WR (One)
CNT05931	T775M2030	SPDT, Modulating No Reset	2	4	50021579-001 (1) Replaces: T775E1114 T775F1022; T775F1055; T775F1089
CNT05079	T775M2048	SPDT	2	2	Replaces:T755E1015/E1023/ E1056/E1064/E1098
CNT05090	T775P2003	SPDT	3	4	50021579-001 (Three)
CNT05085	T775R2019	SPDT	2	4	Includes: 50021579-001 (Two)
CNT05084	T775R2001	SPDT	2	4	Includes: 50021579-001 (Two)
CNT05083	T775R2027	SPDT	2	2	Replaces T775J1043/J1050/J1068
CNT05081	T775R2035	SPDT	2	2	50021579-001 (2)
CNT05082	T775R2043	Reset	2	0	Replaces T755J1019/J1027/J1035
MOD01656	T775S2008	SPDT	0	4	-
CNT05092	T775U2006	Universal	2 SPDT	2 (B for reset only)	Replaces H775A1006, H775A1022, H775A1048, H775A1063, H775B1005, H775C1004, H775D1003, H775E1002

Controls



# Thermostats

## SimpleComfort® Thermostats

### SimpleComfort® Single-Stage Heat/Cool or Heat Pump Non-Programmable Thermostat



- Compatible with standard 24VAC heating/cooling systems or single-stage heat pumps
- Manual changeover
- Millivolt compatible
- Zoning system compatible
- Precise temperature sensing
- Large LCD backlit display
- Integral 5-minute anti-short cycle protection
- Compatible with gas, oil, or electric systems
- Low temperature protection



Part #	Mfg #	Stages	Programs	Notes
THT02682	SC2000L	1 Heat/1 Cool	Non-Programmable	RC, RH, W, Y, O, B, G, Battery Powered
THT02728	SC2001L	1 Heat/1 Cool	Non-Programmable	R, C, W, Y, O, B, G, Hardwired

### SimpleComfort® 2-Stage Heat Pump Non-Programmable Thermostat



- Compatible with standard 2-stage heat/single-stage cool heat pump only
- Manual changeover
- Zoning system compatible
- Precise temperature sensing
- Large LCD backlit display
- Integral 5-minute anti-short cycle protection
- Cool-off-heat emergency system switch
- Status indicator LED's



Part #	Mfg #	Stages	Programs	Notes
THT02736	SC2201L	2 Heat/1 Cool	Non-Programmable	R, C, Y1, W2, O, B, G, E, Hardwired

### SimpleComfort® 3-Stage Heat/2-Stage Cool or Heat Pump Non-Programmable Thermostat



- Compatible with standard 24VAC systems heating/cooling systems or heat pump
- Manual changeover
- Adjustable minimum/maximum setpoint
- Field temperature calibration
- Large LCD backlit display
- Status indicator LED's



Part #	Mfg #	Stages	Programs	Notes
THT02818	SC2211L	3 Heat/2 Cool	Non-Programmable	R, C, Y1, Y2, W2, W3, O, B, G, E, L, Hardwired

Controls



# Thermostats

## Pro1 Thermostats

- Separate heating and cooling swing adjustments
- Battery or 24V power
- 5-Year warranty



### T600 Thermostat Model

- Electric or gas configurable
- Separate B & O terminals
- Room temperature display
- Easy wire color coded terminal blocks
- Universal sub-base
- Mounts on wall or junction box



T601-2



T605-2

Part #	Mfg #	Stages	Programs	Description
THT03016	T601-2	1 Heat/1 Cool	Non-Programmable	Single-Stage, 2" Backlight Display
THT03017	T605-2	1 Heat/1 Cool	5+1+1	Single-Stage, 2" Backlight Display

### T631-2 Thermostat Model

- Separate B & O terminals
- Room temperature calibration adjustment
- Universal sub-base
- Mounts on wall or junction box
- Includes base module



Part #	Mfg #	Stages	Programs	Description
T631-2	T631-2	2 Heat/1 Cool	Non-Programmable	PTAC Thermostat, 2" Backlight Display





# Thermostats

## T700 Thermostat Model

- Blue backlight with glow-in-the-dark light button
- Easy access battery compartment
- Electric or gas configurable
- Simple private label badge system
- Separate B & O terminals
- Separate heating and cooling swing adjustments
- Easy wire color coded terminal blocks
- Room temperature calibration adjustment
- 5-Minute compressor delay protection
- Universal sub-base
- Mounts on wall or junction box



T701



T755/T755H/T755S



T705/T715/T725

Part #	Mfg #	Stages	Programs	Description
THT03020	T701	1 Heat/1 Cool	Non-Programmable	Single-Stage
THT03021	T705	1 Heat/1 Cool	5+1+1	Single-Stage
THT03024	T725	2 Heat/1 Cool	5+1+1	Heat Pump
T715	T715	2 Heat/2 Cool	5+1+1	Multi-Stage
T755	T755	3 Heat/2 Cool	5+1+1 or Non-Programmable	Universal
THT03026	T755H	3 Heat/2 Cool	5+1+1 or Non-Programmable	Universal, Humidity
T755S	T755S	3 Heat/2 Cool	5+1+1 or Non-Programmable	Universal, Remote Sensing
T771	T771	1 Heat or 1 Cool	Non-Programmable	Heat or Cool, Garage Thermostat



# Thermostats

## T701i WiFi Thermostat

- Control from anywhere using your computer, smartphone or tablet
- Familiar, easy Pro1® setup
- Receive active alerts such high and low temperature limits, connection status and more on your device
- 4 Square inch display
- Blue backlight
- Glow in the dark light button
- Electric or gas configurable
- Separate heating and cooling swing adjustments
- Programming optional through app
- 5-Minute compressor delay protection
- Wire color coded terminal blocks
- Universal sub-base
- Mounts on wall or junction box
- Electrical: 24V



Part #	Mfg #	Stages	Programs	Description
T701i	T701i	1 Heat/1 Cool	7 Day, 5+1+1, or Non-Programmable	Single Stage, WiFi Capable

## T800 Thermostat Model

- Blue backlight with glow-in-the-dark light button
- Easy access battery compartment
- Extra large, easy-to-read temperature display
- Electric or gas configurable
- Separate B & O terminals
- Easy wire color coded terminal blocks
- Room temperature calibration adjustment
- 5-Minute compressor delay protection
- Universal sub-base
- Mounts on wall or junction box
- Auto changeover



Part #	Mfg #	Stages	Programs	Description
THT03029	T801	1 Heat/1 Cool	Non-Programmable	Single-Stage
THT03030	T805	1 Heat/1 Cool	7 Day, 5+1+1, or Non-Programmable	Single-Stage
THT03031	T855	2 Heat/2 Cool	7-Day or 5+1+1	Universal



# Thermostats

## T855i Wi-Fi Thermostat

- Blue backlight with glow-in-the-dark light button
- 24V Power
- Keypad lockout
- Electric or gas configurable
- Simple private label badge system
- Easy wire color-coded terminal blocks
- Room temperature calibration adjustment
- 5-Minute compressor delay protection
- Universal sub-base
- Mounts on wall or junction box



Part #	Mfg #	Stages	Programs	Description
T855i	T855i	4 Heat/2 Cool	7-Day or 5+1+1	Universal, WiFi Capable

## T900 Touchscreen Thermostat Model

- Blue backlight and glow-in-the-dark light button
- Auto changeover
- Easy access battery compartment
- Electric or gas configurable
- Filter change indicator
- Simple private label badge system
- Keypad lockout
- Separate B & O terminals
- Easy wire color coded terminal blocks
- Room temperature calibration adjustment
- 5-Minute compressor delay protection
- Universal sub-base
- Mounts on wall or junction box



Part #	Mfg #	Stages	Programs	Description
THT03033	T915	2 Heat/2 Cool	7-Day, 5+1+1, or Non-Programmable	Multi-Stage
THT03034	T925	3 Heat/2 Cool	7-Day, 5+1+1, or Non-Programmable	Heat Pump
THT03035	T955	3 Heat/2 Cool	7-Day, 5+1+1 or Non-Programmable	Universal

## T631W-2 Wireless Thermostat

- Separate B & O terminals
- Room temperature calibration adjustment
- Easy wire color coded terminal blocks
- 5-Minute compressor delay protection
- Universal sub-base
- Mounts on wall or junction box
- Includes wireless base module



Part #	Mfg #	Stages	Programs	Description
THT03019	T631W-2	2 Heat/1 Cool	Non-Programmable	PTAC



Don't see what you are looking for? We carry thousands of other items. Check with your local parts center.

# Thermostats

## T955WH Wireless Touchscreen Thermostat Models

- 13" Touchscreen display with blue backlight and glow-in-the-dark light button
- Set dual fuel balance points
- Connects up to 4 indoor remotes (RZ251W)
- Connects to outdoor remotes (RZ250W)
- Automatic changeover
- Programmable fan
- Electric or gas configurable
- Heating and cooling setpoint limit
- Room temperature calibration adjustment
- 5-Minute compressor delay protection
- Mounts on junction box



Part #	Mfg #	Stages	Programs	Description
THT03037	T955WH	3 Heat/2 Cool	7-Day, 5+1+1 or Non-Programmable	Universal with Humidity Control

## 70 Series® Single-Stage Thermostats

- 24VAC Fossil fuel or electric heat or heat pump compatible
- 1.2" Square LCD backlit screen
- Selectable Celsius or Fahrenheit temperature display
- Includes B/O terminals
- Cool-off-heat system switches
- Auto-on fan switches
- Horizontal dimensions: 3.75"H x 5.1"W x 1.1"D
- Vertical dimensions: 5.3"H x 3.25"W x 1.1"D



Part #	Mfg #	System	Program Options	Additional Applications	Power Source	Terminal Designations	Description
THT02246	1F78-144	Sgl-Stg, HP	Non-Prog	mV	Battery	RC,RH,W,Y,G,O,B	Horiz
THT02358	1F78-144DPL	Sgl-Stg, HP	Non-Prog	mV	Battery	RC,RH,W,Y,G,O,B	Horiz, Dealer Private Label Program Eligible
THT02247	1F78-151	Sgl-Stg, HP	5+2	mV	Battery	RC,RH,W,Y,G,O,B	Horiz
THT02359	1F78-151DPL	Sgl-Stg, HP	5+2	mV	Battery	RC,RH,W,Y,G,O,B	Horiz, Dealer Private Label Program Eligible
THT02668	1E78-140	Heat Only	Non-Prog	mV	Battery	RH,W	Vertical
THT02489	1E78-144	Sgl-Stg, HP	Non-Prog	mV	Battery	RC,RH,W,Y,G,O,B	Vertical
THT02492	1E78-144DPL	Sgl-Stg, HP	Non-Prog	mV	Battery	RC,RH,W,Y,G,O,B	Vertical, Dealer Private Label Program Eligible
THT02490	1E78-151	Sgl-Stg, HP	5+2	mV	Battery	RC,RH,W,Y,G,O,B	Vertical



# Thermostats

## 70 Series® Staging Thermostats

- 24VAC Fossil fuel or electric heat or heat pump compatible
- 1.2" Square LCD backlit screen
- Selectable Celsius or Fahrenheit temperature display
- Includes B/O terminals
- Electronic accuracy
- Hardwired models with battery backup
- Permanent program retention during power loss

White  
Rodgers



Part #	Mfg #	System	Program Options	Additional Applications	Power Source	Terminal Designations
THT02300	1F79-111	Heat Pump	Non-Prog	2H/1C HP	Hardwire	R,C,Y,W2,G,O/B,L,E

## 80 Series® Blue 2" Thermostats

- 2" Wide LCD lighted screen
- Fossil fuel or electric heat compatible
- Dual powered, choice of battery or hardwired for all applications
- Easy push-connect color coded terminals
- Cool Savings™
- Dimensions: 3.8"H x 4.8"W x 1.5"D
- Classic white color
- 5-Year warranty

White  
Rodgers



1F86-0244



1F89-0211

Part #	Mfg #	System	Program Options	Additional Applications	Power Source	Terminal Designations	Description
THT02812	1F86-0244	1H/1C	Non-Prog	mV	Battery/Hardwire	R,C,W,Y,G,O/B	-
THT02817	1F86-0244DPL	1H/1C	Non-Prog	mV	Battery/Hardwire	R,C,W,Y,G,O/B	Dealer Private Label Program
THT02813	1F89-0211	2H/1C HP	Non-Prog	-	Battery/Hardwire	R,C,W2,Y,G,O/B,L	-
THT02808	1F89-0211DPL	2H/1C HP	Non-Prog	-	Battery/Hardwire	R,C,W2,Y,G,O/B,L	Dealer Private Label Program
THT02810	1F80-0261	1H/1C	5+1+1	mV	Battery/Hardwire	R,C,W,Y,G,O/B	-
THT02820	1F80-0261DPL	1H/1C	5+1+1	mV	Battery/Hardwire	R,C,W,Y,G,O/B	Dealer Private Label Program

Controls



# Thermostats

## 80 Series® Blue 4" Single-Stage Thermostats

- Gas, oil, electric
- Universal dual powered, choice of battery-powered or hardwired with permanent memory retention
- 4" Square blue-lit LCD display
- Configuration menu allows keypad selection of options
- Selectable energy management recovery (1F80-0471)
- Auto changeover
- Dimensions: 3.4"H x 4.4"W x 1.2"D
- Includes F61-2634 wall plate
- Classic white color
- 5-Year warranty

White  
Rodgers



Part #	Mfg #	System	Program Options	Additional Applications	Power Source	Terminal Designations	Description
THT02602	1F80-0471	1H/1C	5+1+1,5+2,0	3w Zn,mV	Battery/Hardwire	RC,RH,C,W,Y,G,O/B	-
THT02601	1F86-0471	1H/1C	Non-Prog	3w Zn,mV	Battery/Hardwire	RC,RH,C,W,Y,G,O/B	-
THT02630	1F86-0471DPL	1H/1C	Non-Prog	3w Zn,mV	Battery/Hardwire	RC,RH,C,W,Y,G,O/B	Dealer Private Label Program

## 80 Series® Blue Universal Staging Thermostats

- Universal staging provides single-stage, multi-stage 2 heat/2 cool, heat pump 3 heat/2 cool
- 4" Square blue-lit LCD display
- Auto changeover
- Universal dual powered, choice of battery-powered or hardwired with permanent memory retention
- Cool Savings™
- Power monitor
- Dimensions: 3.9"H x 5.1"W x 1.2"D
- Includes F61-2634 wall plate
- Classic white color
- 5-Year warranty

White  
Rodgers



Part #	Mfg #	System	Program Options	Power Source	Terminal Designations
THT02738	1F85-0422	2H/2C	5+1+1,5+2	Battery/Hardwire	RC,RH,C,G,W/E,W2,Y,Y2,O/B,6,L -
THT02739	1F83-0422	2H/2C	Non Prog	Battery/Hardwire	RC,RH,C,G,W/E,W2,Y,Y2,O/B,6,L -



# Thermostats

## 80 Series® Multi-Stage Thermostats

- Permanent program retention during power loss
- 1.8" Lighted display
- Soft-touch keypad
- Air filter change indicator
- Permanent memory backup
- Dimensions: 3.8"H x 6.1"W x 1.1"D
- Classic white color
- Suffix: S1 = Single pack 1/box



Part #	Mfg #	System	Program Options	Additional Applications	Power Source	Terminal Designations	Description
THT02797	1F89-211DPL*	2H/1C HP	Non-Prog	HP	Battery/Hardwire	R,C,W2,Y,G,O/B,L	Dealer Private Label Program
THT02268	1F89-211S1	2H/1C HP	Non-Prog	HP	Hardwire	R,C,W2,Y,G,O/B,L	-

\*System switches also include Em

## 80 Series® Single-Stage Thermostats

- Fossil fuel or electric heat compatible
- 2.2" Lighted display
- Dimensions: 3-3/4"H x 6"W x 1-1/4"D
- Permanent memory back-up



Part #	Mfg #	System	Program Options	Power Source	Terminal Designations	Description
THT02520	1F80-361	1H/1C	5+1+1	Battery/Hardwire	RC,RH,C,W,Y,G,O,B	-
THT02524	1F80-361DPL	1H/1C	5+1+1	Battery/Hardwire	RC,RH,C,W,Y,G,O,B	Dealer Private Label Program
THT02559	1F86-344	1H/1C	Non-Prog	Battery/Hardwire	RC,RH,C,W,Y,G,O,B	-
THT02525	1F86-344DPL	1H/1C	Non-Prog	Battery/Hardwire	RC,RH,C,W,Y,G,O,B	Dealer Private Label Program

## 80 Series® Universal Staging Thermostats

- Universal staging provides single-stage, multi-stage 2 heat/2 cool, heat pump 3 heat/2 cool
- 2.2" Lighted display
- Automatic changeover
- Permanent program retention during power loss
- Configuration menu allows keypad selection of options
- Gas, oil, electric
- Dimensions: 6.1"H x 3.8"W x 1.1"D
- Classic white color
- Energy Star® rated



Part #	Mfg #	System	Program Options	Power Source	Terminal Designations
THT02432	1F85-277	Universal	7-Day,5+1+1,0	Battery/Hardwire	R,C,E/W1,W2,G,Y1,Y2,O,B,L



Don't see what you are looking for? We carry thousands of other items. Check with your local parts center.

# Thermostats

## 90 Series® Blue 6" Easy Reader Thermostats

- Universal staging provides single-stage, multi-stage up to 2 heat/2 cool, heat pump 4 heat/2 cool
- Programming provides choice of 7-day or non-program, installer selectable
- Large 6" square blue-lit LDC display with easy to read character size
- Large one-button/one-function keys
- Hardwired or battery powered with power stealing assist, permanent memory
- 3-Wire zone valve
- Energy management recovery
- Daylight savings adjustment
- Dual fuel capable with Smart Fuel™ Logic program (no outdoor sensor required)
- Dimensions: 4.2"H x 6.4"W x 1.7"D
- Classic white
- Energy Star® Rated

White  
Rodgers



Part #	Mfg #	System	Program Options	Power Source	Terminal Designations
THT02795	1F95EZ-0671	4H/2C	Universal	Battery/Hardwire	RC,RH,C,W/E,W2,Y,Y2,G,O/B,6,L

## 90 Series® Blue Touchscreen Thermostats

- Universal staging provides single-stage, multi-stage 2 heat/2 cool, heat pump 3 heat/2 cool
- Universal programming provides choice of 7-day, 5+1+1 or non-programmable, installer selectable
- Large 12" square blue-lit touch-screen display
- Audible feedback
- Universal dual powered, choice of battery-powered or hardwired with battery back-up
- Energy management recovery
- Total or partial key pad lockout selectable
- Permanent memory backup
- Gas, oil, electric, millivolt
- Remote sensing indoor/outdoor
- Programmable fan
- Circulator fan cycling
- Auto daylight savings options
- Dual-fuel heat pump control (1F95-1277)
- Patented cool savings
- Enhanced security settings
- 3-Wire zone valve
- Dimensions: 4-9/16"H x 5-13/16"W x 1-3/16"D
- Classic white
- Energy Star® Rated
- 5-Year warranty

White  
Rodgers



Part #	Mfg #	System	Program Options	Power Source	Terminal Designations
THT02657	1F95-1277	3H/2C	Universal	Battery/Hardwire	RC,RH,C,W/E,W2,Y,Y2,G,O,B,6,L,+,S
THT02658	1F97-1277	1H/1C	Sgl Stage	Battery/Hardwire	RC,RH,C,W,Y,G,L,O,B,L,6,+,S



# Thermostats

## Single-Stage Low Voltage Thermostats

### Economy Mechanical Thermostat

- Bi-metal thermometer
- 4-1/2" x 4-1/2" Gray wallplate not included
- Temperature range: 50° to 90°F



White  
Rodgers

Part #	Mfg #	Application	Switching	Color	Terminals
THT02275	1C26-101	Heat/Cool 3-Wire Zone Valve Snap Action	SPDT	Classic White	RC/RH/W/Y/G/O/B/A

### Mercury-Free Low Voltage Thermostat

- For 24VAC or millivolt application
- Universal replacement single-stage
- Heat only
- Snap-action contacts
- 3-Wire zone valve
- Includes limited range locking kit



White  
Rodgers

Part #	Mfg #	Type	Terminals	Switching	Style	Color
THT02712	1E30N-910	Heat Only	3-Wire Zone Valve	None	Vertical	White

### Universal Single-Stage Mechanical Replacement Thermostat

- Mercury-free
- 24V Replacement for hundreds of White-Rodgers and competitive models installed during the past 50-years
- Same footprint as older models with updated styling
- Enclosed contacts for increased reliability and accuracy
- Heat/cool with heating or cooling 3-wire zone mounting plate included
- Bilingual packaging (English/Spanish)
- 5-Year warranty



White  
Rodgers

Part #	Mfg #	System	Applications	Style	Color	Terminals
THT02711	1E56N-444	1 Heat/1 Cool	24V, mV, 3wZn	Vertical	White	RC,RH,W,Y,G,O,B,A
THT02710	1F56N-444	1 Heat/1 Cool	24V, mV, 3wZn	Horizontal	White	RC,RH,W,Y,G,O,B,A



# Thermostats

## Electric Heat Sequencers

### 24A34 Electric Heat Sequencer

- Direct replacement for most fan/heat sequencing functions
- Ambient rated from -50° to 165°F
- 24V Input control
- Double quick connect terminals for combo loads
- Multi-poise mounting
- UL Component recognized



White  
Rodgers



24A34-3

Part #	Mfg #	Timings	Switches	Timings On Main (Sec)	Timings On Aux (Sec)	Timings Off Main (Sec)	Timings Off Aux (Sec)
TMR00111	24A34-1	1	1	1-20	-	40-110	-
TMR00099	24A34-3	1	2	1-20	1-20	40-110	40-110
TMR00100	24A34-4	1	2	30-90	30-90	1-30	1-30
TMR00101	24A34-5	2	3	1-110	1-110	1-110	1-110
TMR00102	24A34-6	2	4	1-110	1-110	1-110	1-110

### Trane Radiant Sense to Flame Sense Board Kit

- Includes:
  - Flame sensor
  - Wiring harness
  - Literature
  - Wiring diagrams
  - Warning labels
  - 1-Stage control and cover

White  
Rodgers

Part #	Mfg #	Description
KIT09660	21D55-486	Radiant Sense to Flame Sense Board Kit



# Thermostats

## Thermostats

### Heat/Cool Dryout Thermostat

- Ideal for drywall and new construction applications
- Fixed setpoint
- Can be used for low ambient cut-off switches



Part #	Mfg #	Description
THT02386	SC060	60°F Heat, 2-Wire
THT02388	SC065	65°F Heat, 2-Wire

### Thermostat Accessories

#### Remote Sensor

- For use with T755S thermostat



R250S R251S

Part #	Mfg #	Description
SEN02032	R250S	Outdoor Slab Remote Sensor
SEN02034	R251S	Indoor Temperature Remote Sensor

#### Zone Control Remote Sensor

- Temperature control range: 44°F to 90°F
- Operating ambient temperature: 32°F to 105°F
- Battery power from (2) AA alkaline batteries
- Distance between products in up to 100' with no obstructions; up to 50' in standard residential construction



RZ251W

Part #	Mfg #	Description
RZ251W	RZ251W	Indoor Sensor for T955WH
RZ250W	RZ250W	Outdoor Sensor for T955WH

#### Wireless Repeater® Wireless Extender

- Extends wireless range



Part #	Mfg #	Description
CNT06735	W150W	For use with T955W(H), RZ251W, RZ250W

#### Wireless Wire® Base Module

- Replaces 24V wire
- Input module: 7 terminal inputs and 2 terminal outputs
- Output module: 7 terminal outputs and 2 terminal inputs



Part #	Mfg #	Description
CNT06736	WW160W	Includes Both Input Base Module and Output Base Module

#### Locking Thermostat Guard

- Commercial strength
- Can be installed without removing existing thermostat



Part #	Mfg #	Description
T150	T150	Fits all Pro1 Thermostats

#### Thermostat Guards

##### Plastic Thermostat Guard

- F29-0198 Will accept all White-Rodgers thermostats
- Can be mounted vertically or horizontally
- Clear plastic
- Includes:
  - (2) Keys
  - Ring and/or solid wall mounting plate

White Rodgers



F29-0198

Part #	Mfg #	Description
GRD01151	F29-0198	Ring Inside: 8-1/8" x 4-5/8" x 3-5/8", Solid Inside: 8-1/4" x 5-3/8" x 3-1/2"
GRD01012	F29-0227	Ring Inside: 5-1/4" x 4-5/8" x 3-1/4", Solid Inside: 5-1/4" x 4-5/8" x 3"

#### Thermostat Guards

##### 585-TG Plastic Thermostat Guard

- Perfect for most applications
- Ring and solid bases included
- Size: 8-1/4" x 4-1/2" x 3-1/4"



DIVERSITECH

Part #	Mfg #	Description
GRD01449	585-TG	Clear Plastic, (2) Bases



# Thermostats

## 585-TG1 Plastic Thermostat Guard

- Perfect for standard size wall thermostats
- Ring and solid bases included
- Size: 5-3/4" x 3-1/2" x 2-3/4"



Part #	Mfg #	Description
GRD01450	585-TG1	Clear Plastic, (2) Bases

## 585-TG2 Plastic Thermostat Guard

- Medium size
- Ring and solid bases included
- Size: 4-3/4" x 4-1/4" x 2-3/4"



Part #	Mfg #	Description
GRD01451	585-TG2	Clear Plastic, (2) Bases

## 585-TG3 Steel Thermostat Guard

- Prevent tampering
- Furnished complete with base
- 6" x 4" x 3" Clearance



Part #	Mfg #	Description
GRD01452	585-TG3	Beige Steel, Solid Base

## 585-TG4 Steel Thermostat Base

- Most versatile guard in solid steel construction
- Beige steel, ring base included
- Size: 6" x 4" x 3"



Part #	Mfg #	Description
GRD01453	585-TG4	Beige Steel, Ring Base

## 585-TG5 Plastic Thermostat Guard

- Old No. 585-EK
- Compact design ideal for pneumatic T-Stats as well as small T-Stats
- Solid base included
- Size: 3-1/2" x 3-1/4" x 2-1/4"



Part #	Mfg #	Description
GRD01454	585-TG5	Clear Plastic, Solid Base

## 585-TG6 Plastic Thermostat Guard

- Engineered for electronic thermostats
- Ring base and solid base included
- Size: 6-1/4" x 3-3/4" x 1-3/4"



Part #	Mfg #	Description
GRD01455	585-TG6	Clear Plastic, (2) Bases

## 585-TG7 Steel Thermostat Base

- Solid steel, beige
- Solid Base included
- 5-1/2" x 3-1/2" x 2-3/4" Clearance



Part #	Mfg #	Description
GRD01456	585-TG7	Beige Steel, Solid Base

## 585-TG8 Steel Thermostat Base

- Beige steel, solid base included
- 5" x 3" x 2-3/4" Clearance



Part #	Mfg #	Description
GRD01457	585-TG8	Beige Steel, Ring Base



# Thermostats

## 585-TG9 Steel Thermostat Base

- Beige steel, bases included
- 6" x 4" x 3" Clearance



Part #	Mfg #	Description
GRD01458	585-TG9	Beige Steel, (2) Bases

## Key for Thermostat Guards



Part #	Mfg #	Description
KEY00915	585-F336	Universal Fit Thermostat Guard Key

## Wall Plates

- Insulating foam gasket
- Hidden mounting screws
- Designed to work with ICM's 1000, 2000, and 3000 series thermostats



Part #	Mfg #	Size
PLT04490	ACC-WP03	5-3/4" x 7-1/2"

## Thermostat Guards

### Thermostat Cover Plate for FocusPRO® & PRO® Series

- Medium cover plate: 5"H x 6-7/8"W
- Large cover plate: 6"H x 8-5/16"W
- Premier White®

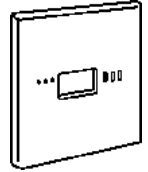


Part #	Mfg #	Description
COV03908	50002883-001	(1) Medium & (1) Large Cover Plate, Bracket for J-Boxes & Hardware for FocusPRO® 6000/5000, PRO® 4000/3000

## Wall Cover Plates

### Wall Cover Plate

- 4-3/4"H x 7-5/8"W
- White



Part #	Mfg #	Description
PLT03658	F61-2500	For Use with *1F80 (Except Blue) Series Thermostats

\*Includes adapter for mounting to horizontal or vertical junction box

### Cover



Part #	Mfg #	Description
COV02677	F16-5833	Assembly Replacement Cover



# Zoning Controls

## TrueZONE® Panels & Kits

### HZ432 TrueZONE® for Conventional & Heat Pump Applications Up to (3) Zones

- Intuitive installer setup, digital display uses real language to guide installer through (4) easy steps
- Standard checkout procedure
- Robust push terminals
- Common-sense LEDs
- Clean, professional installation
- Smaller footprint
- Variable-speed fan control
- Accessories include:
  - TrueZONE® zone control panel
  - 40VA Transformer (AT140)
  - Discharge air temperature sensor (C7735A)
- Advanced dual fuel operation
- Use with TAZ-4 Add-A-Zone to expand to (32) zones
- RedLINK™ enabled for up to (4) wireless zones when used with THM4000R1000 wireless adapter
- Controls up to 3 heat/2 cool conventional or up to 2-stages compressor and 2-stages fossil fuel in dual fuel mode



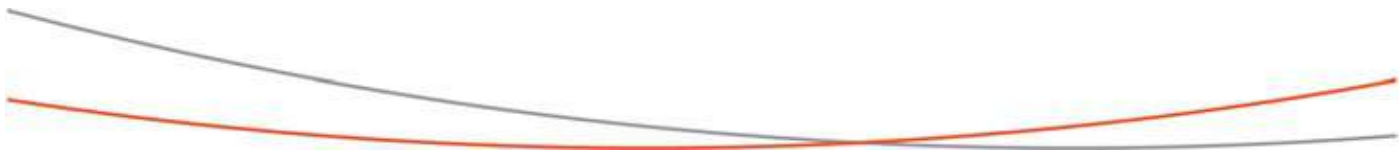
Part #	Mfg #	Description
KIT15030	HZ432K	Kit for Conventional, Heat Pump or Dual Fuel Applications up to (32) Zones (3 Heat/2 Cool) with Accessories, RedLINK™ Enabled
PNL25782	HZ432	Panel Only for Conventional, Heat Pump or Dual Fuel Applications up to (32) Zones (3 Heat/2 Cool), RedLINK™ Enabled

### HZ322 TrueZONE® for Conventional & Heat Pump Applications Up to (3) Zones

- Intuitive installer setup, digital display uses real language to guide installer through (4) easy steps
- Standard checkout procedure
- Robust push terminals
- Common-sense LEDs
- Clean, professional installation
- Smaller footprint
- Variable-speed fan control
- Accessories include:
  - TrueZONE® zone control panel
  - 40VA Transformer (AT140)
  - Discharge air temperature sensor (C7735A)
- RedLINK™ enabled for wireless operation when used with THM4000R1000 wireless adapter
- Controls up to 2 heat/2 cool conventional or 2 heat/1 cool heat pump



Part #	Mfg #	Description
PNL25785	HZ322	Panel Only for Conventional & Heat Pump Applications up to (3) Zones (2 Heat/2 Cool), RedLINK™ Enabled
KIT15031	HZ322K	Kit for Conventional & Heat Pump Applications up to (3) Zones (2 Heat/2 Cool) with Accessories, RedLINK™ Enabled



# Zoning Controls

## HZ311 TrueZONE® for Single-Stage Conventional Applications up to (3) Zones

- Robust push terminals
- Common-sense LEDs
- Clean, professional installation
- Smaller footprint
- Variable-speed fan control
- Accessories include:
  - TrueZONE® zone control panel
  - 40VA Transformer (AT140)
  - Discharge air temperature sensor (C7735A)
- Controls up to 1 heat/1 cool conventional



Part #	Mfg #	Description
PNL25781	HZ311	Panel Only for Conventional, Single-Stage Applications Up to (3) Zones
KIT15029	HZ311K	Kit for Conventional, Single-Stage Applications up to (3) Zones with Accessories

## TrueZONE Dampers

### ARDTZ TrueZONE Automatic Round Damper

**Honeywell**



- Direct replacement for today's legacy dampers
- Open and close lights and visual position indicator for quick setup and diagnostics
- Push terminals and easy wiring to Honeywell TrueZONE panel
- Adjustable range stops

Part #	Mfg #	Size
ARD5TZ	ARD5TZ	5"
ARD6TZ	ARD6TZ	6"
ARD7TZ	ARD7TZ	7"
ARD8TZ	ARD8TZ	8"
ARD9TZ	ARD9TZ	9"
ARD10TZ	ARD10TZ	10"
ARD12TZ	ARD12TZ	12"
ARD14TZ	ARD14TZ	14"
ARD16TZ	ARD16TZ	16"
ARD18TZ	ARD18TZ	18"
ARD20TZ	ARD20TZ	20"

### ZD-TZ TrueZONE Rectangular Supply Damper

**Honeywell**



- Optional LED indicator wire
- Simplified range stops
- Motor mount: side

Part #	Mfg #	Size
ZD10X8TZ	ZD10X8TZ	10" x 8"
ZD12X8TZ	ZD12X8TZ	12" x 8"
ZD14X8TZ	ZD14X8TZ	14" x 8"
ZD16X8TZ	ZD16X8TZ	16" x 8"
ZD18X8TZ	ZD18X8TZ	18" x 8"
ZD20X8TZ	ZD20X8TZ	20" x 8"
ZD20X10TZ	ZD20X10TZ	20" x 10"
ZD24X8TZ	ZD24X8TZ	24" x 8"



# Zoning Controls

## MARD Modulating Automatic Round Damper

- Power opened/closed zone or bypass damper
- For use in light commercial applications on systems larger than 5 tons that do not exceed 2"wc at the damper, but may also be used in any residential system
- Uses 90-second open to closed motor
- Motorized bypass or zone damper, modulating damper
- Used with Static Pressure Control (SPC) for bypass applications
- Can be used as a zone damper
- 24VAC, 60Hz
- Motor mount: top and side

**Honeywell**



Part #	Mfg #	Size
DMP03025	MARD8	8"
DMP03020	MARD10	10"
DMP02873	MARD12	12"
DMP02874	MARD14	14"

## CPRD TrueZONE® Bypass Constant Pressure Regulating Damper

- Significantly cuts installation time by replacing the old weight system with a simple handle
- Installs at any orientation or angle
- Provides constant pressure relief regardless of blower speed
- (4) Sizes to meet the needs of nearly all applications
- Quiet, efficient and reliable

**Honeywell**



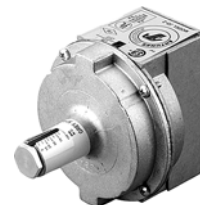
Part #	Mfg #	Size	Description
CPRD8	CPRD8	8"	Bypass up to 600 CFM
CPRD10	CPRD10	10"	Bypass up to 1,000 CFM
CPRD12	CPRD12	12"	Bypass up to 1,400 CFM
CPRD14	CPRD14	14"	Bypass over 1,400 CFM

## Zoning Parts & Accessories

### Static Pressure Control

**Honeywell**

- Adjustable SPDT differential pressure switch
- For control of floating-type modulating damper for bypass zone applications
- Acceptable dampers are MARD, CDO-51 or the 90-second ML6161 actuator
- 125VA Contacts



Part #	Mfg #	Description
CNT04908	SPC	Use with MARD for Bypass Control

## Fresh Air Ventilators

### Y8150 Fresh Air Ventilation System

- Operates a fresh air intake damper and when necessary activates the main HVAC blower to efficiently meet ASHRAE ventilation rates
- Designed to help meet local ventilation codes and standards, including ASHRAE 62.2-2010
- Smart control optimizes air delivery by syncing ventilation calls with heating/cooling
- Input dials allow customized ventilation for each installation
- Test mode includes immediate feedback to installer
- Supply-only ventilation
- Works with forced air systems, and can also be used with HRV/ERV to balance ventilation
- Includes:
  - Controller (W8250A)
  - Damper (EARD6)
  - Transformer (AT120B)
  - Mounting hardware
  - Information label

**Honeywell**



Part #	Mfg #	Description
KIT14660	Y8150A1009	50 to 160 CFM Fresh Air Ventilation System





# Duct Cleaning Machines

## Duct Cleaners

### Rotary Duct Cleaner

- 6A
- Variable/reversible flexible shaft speed of up to 1,500 rpm
- Stainless steel
- Simultaneous vacuum
- Belt switch activation
- Weight: 49 lbs

GOODWAY®



Part #	Mfg #	Description
TOL02045	AQ-R1500	3/4 hp, 115V, 60Hz AC, Rotary Duct Cleaner
TOL03235	AQ-R1500BA-50	1 hp, 220V, 50Hz AC, Rotary Duct Cleaner

### Flow Brush

- For RVB-100 vent vacuum

GOODWAY®



Part #	Mfg #	Duct ID
BRU00432	RVB-04	4"

### 5-Strand Flare Tube Cleaning Brush with Cobalt Tip

GOODWAY®



Part #	Mfg #	Tube OD
BRU00430	FBT-501	2" - 4"
BRU00431	FBT-502	4" - 8"

## Duct Cleaning Brushes

### Duct Cleaning Fan Brush

- For removing debris in round, rectangular, and square ducts
- Loosens and propels deposits down duct toward vacuum

GOODWAY®



Part #	Mfg #	Duct ID
BRU00341	FDB-212	8" - 18"

### Soft Nylon Duct Cleaning Brush

- For removing debris in round ducts

GOODWAY®



Part #	Mfg #	Duct ID
BRU00438	DUCT-04	4"
BRU00439	DUCT-06	6"
BRU00440	DUCT-08	8"
BRU00441	DUCT-10	10"
BRU00442	DUCT-12	12"
BRU00443	DUCT-14	14"
BRU00444	DUCT-16	16"
BRU00445	DUCT-18	18"



# Electrical Products

## DiversiWhip Connectors

### DiversiWhip Metallic Connector

- Liquid-tight flexible conduit system
- Convenience kit for A/C unit hookup
- (3) Distinct wire colors
- (1) Straight and (1) 90° metallic connectors
- Used for heat pumps, refrigeration, hot tubs swimming pools and outdoor lighting
- UL and cUL Listed



Part #	Mfg #	Description
KIT07848	6-12-4	1/2" x 4', #10 THHN
KIT07849	6-12-6	1/2" x 6', #10 THHN
KIT07850	6-34-4	3/4" x 4', #8 THHN
KIT07851	6-34-6	3/4" x 6', #8 THHN
6-34-8	6-34-8	3/4" x 8', #8 THHN

### DiversiWhip Metallic Connector Pallet Pack

- Liquid-tight flexible conduit system
- (3) Distinct wire colors
- (1) Straight and (1) 90° metallic connectors
- UL and cUL Listed



Part #	Mfg #	Description
KIT07856	B6-12-4	1/2" x 4', #10 THHN
KIT07858	B6-12-6	1/2" x 6', #10 THHN
KIT07862	B6-34-6	3/4" x 6', #8 THHN

### DiversiWhip Non-Metallic Connector

- Liquid-tight flexible conduit system
- Convenience kit for A/C unit hookup
- (3) Distinct wire colors
- (1) Straight and (1) 90° connector
- 90° Connector is removable for straight connections (2nd straight connector sold separately)
- Used for heat pumps, refrigeration, hot tubs swimming pools and outdoor lighting
- UL and cUL Listed



Part #	Mfg #	Description
KIT07852	6-12-4NM	1/2" x 4', #10 THHN
KIT07853	6-12-6NM	1/2" x 6', #10 THHN
KIT07854	6-34-4NM	3/4" x 4', #8 THHN
KIT07855	6-34-6NM	3/4" x 6', #8 THHN
6-34-8NM	6-34-8NM	3/4" x 8', #8 THHN

### DiversiWhip - Non-Metallic Connectors - Pallet Pack

- Liquid-tight flexible conduit system
- (3) Distinct wire colors
- (1) Straight non-metallic connector
- (1) 90° Non-metallic connector
- UL and cUL Listed



Part #	Mfg #	Description
KIT07857	B6-12-4NM	1/2" x 4', #10 THHN
KIT07859	B6-12-6NM	1/2" x 6', #10 THHN
KIT07861	B6-34-4NM	1/2" x 6', #8 THHN
KIT07863	B6-34-6NM	3/4" x 6', #8 THHN

# Electrical Products

## DiversiWhip Non-Metallic Connector for Swimming Pools

- Liquid-tight flexible conduit system
- Kit for hookup of swimming pool motors, pumps, filter and timers
- (3) Distinct wire colors
- (1) Straight and (1) 90° metallic connectors



Part #	Mfg #	Description
KIT09383	6-12-4NMSP*	1/2" x 4', #12 THHN
KIT09384	6-12-6NMSP*	1/2" x 6', #12 THHN
KIT09386	6-34-4NMSP	3/4" x 4', #8 THHN
KIT09387	6-34-6NMSP	3/4" x 6', #8 THHN

\* S indicates produced with 2 straight connectors

## DiversiWhip Non-Metallic Connector with Extended Length Wires

- 10" Lead wire on straight side and 18" lead wire on 90° side



Part #	Mfg #	Description
KIT07868	6-12-4NMR	1/2" x 4', #10 THHN
KIT07865	6-12-6R	1/2" x 6', #10 THHN
KIT07869	6-12-6NMR	1/2" x 6', #10 THHN
KIT07870	6-34-4NMR	3/4" x 4', #8 THHN
KIT07866	6-34-4R	3/4" x 4', #8 THHN
KIT07871	6-34-6NMR	3/4" x 6', #8 THHN
KIT07867	6-34-6R	3/4" x 6', #8 THHN

## Liquid-Tite Flex Conduit

### Liquid-Tite Flexible Non-Metallic Conduit

- Specifically for electrical applications
- Cuts easily



Part #	Mfg #	Description
CND00108	750-12100	1/2" x 100'
CND00109	750-34100	3/4" x 100'
CND00117	750-10100	1" x 100'

## Liquid-Tite Flexible Conduit (Metallic)

- Specifically for electrical applications
- Cuts easily



Part #	Mfg #	Size
CND00110	750-500	1/2" x 100'
CND00111	750-600	3/4" x 100'

## Liquid-Tite Fittings

### Liquid-Tite Non-Metallic Straight Connector

- UL and cUL Listed



Part #	Mfg #	Description
CON01103	750-NMLT50	1/2" Straight
CON01100	750-NMLT75	3/4" Straight
CON01850	750-NMLT100	1" Straight

### Liquid-Tite Non-Metallic 45° Elbow Connector

- UL and cUL Listed



Part #	Mfg #	Description
CON01104	750-NMLT4550	1/2" 45° Elbow
CON01101	750-NMLT4575	3/4" 45° Elbow

### Liquid-Tite Non-Metallic 90° Elbow Connector

- UL and cUL Listed



Part #	Mfg #	Description
CON01105	750-NMLT9050	1/2" 90° Elbow
CON01102	750-NMLT9075	3/4" 90° Elbow
CON01851	750-NMLT90100	1" 90° Elbow

# Electrical Products

## Liquid-Tite Metallic Straight Connectors

- UL and cUL Listed



Part #	Mfg #	Description
CON01108	750-MLT50	1/2" Straight
CON01109	750-MLT75	3/4" Straight

## Liquid-Tite Metallic 90° Elbow Connector

- UL and cUL Listed



Part #	Mfg #	Description
CON01111	750-MLT9075	3/4" 90° Elbow

## Liquid-Tite Screw-On Fitting Straight Connector

- Conduit threads onto ferrule and up inside outer body



Part #	Mfg #	Description
CON01252	750-SLTC50	1/2" Straight
CON01254	750-SLTC-75	3/4" Straight

## Liquid-Tite Screw-On Fitting 90° Elbow

- Conduit threads onto ferrule and up inside outer body



Part #	Mfg #	Description
CON01253	750-SLTC9050	1/2" 90° Elbow
CON01255	750-SLTC9075	3/4" 90° Elbow

## Aluminum Armored MC Cable

- 90°C Rated
- THHN Solid copper with specially compounded heat-resistant insulation and jacket
- Flexible interlocked aluminum armor
- UL Listed #4
- Conforms to NEC article 333



Part #	Mfg #	Description
CAB00988	640-122	12-2 100' Roll
CAB00989	640-142	14-2 100' Roll

## BX Set Screw Connectors

- BX Cable range: 0.445" to 0.630" diameter
- UL Listed
- CSA Approved



Part #	Mfg #	Description	Qty
CON01112	640-845	3/8" Trade Size	

## EMT Thinwall Fittings

### EMT Set Screw Connector

- Concrete tight



Part #	Mfg #	Description	Qty
FTG00888	625-800	1/2" Set Screw Connector	
FTG00889	625-801	3/4" Set Screw Connector	

### EMT Set Screw Coupling

- Zinc die cast
- Concrete-tight when taped
- UL Listed for IMC and rigid
- Meets UL514B



Part #	Mfg #	Description	Qty
FTG00892	625-810	1/2" Coupling	
FTG00893	625-811	3/4" Coupling	

# Electrical Products

## One-Hole EMT Strap

- Bright zinc, electro-plated steel



625-304

Part #	Mfg #	Description	Qty
FTG00890	625-304	1/2" 1-Hole Strap	
FTG00891	625-305	3/4" 1-Hole Strap	

## Romex Wire

### Non-Metallic Sheathed Cable Romex Wire

- 600V Building wire
- Easy to pull and strip
- Flame and moisture resistant
- PVC Insulation and outer jacket
- (2) Conductors with ground



Part #	Mfg #	Description
WIR04663	620-6-2	6 AWG, 125' Roll
WIR04598	620-8-2	8 AWG, 125' Roll
WIR04134	620-10-2	10 AWG, 250' Roll
WIR04599	620-12-2	12 AWG, 250' Roll
WIR04135	620-14-2	14 AWG, 250' Roll

## Romex Fittings

### Metallic Romex Connector

- Made of zinc die-cast
- UL Listed
- CSA Approved



750-RC842

Part #	Mfg #	Description
CON01113	750-RC841	3/8" for 1/2" KO's
CON01114	750-RC842	3/4" for 3/4" KO's

## Cable Staples

### Romex Cable Staple

- For NMB cable (Romex)



Part #	Mfg #	Size	Qty
SRP00865	625-183	1/2"	100/Pk

## Copper Insulated Cable Staple

- For thermostat wire



Part #	Mfg #	Description
TOL02024	625-IS5	Copper Insulated #5

## Power Supply Cord (Pigtails)

- Stranded bare copper conductor, grounding conductors
- PVC Jacket
- Male plug, 110V, 16 AWG x 6' long



Part #	Mfg #	Description
CRD00102	625-16-6	Straight Power Supply Cord
CRD00103	625-16-690	90° Power Supply Cord

## Wall Plates

### Plastic Wall Plate

- Non-flammable thermoplastic, phenolic or urea material
- Color matched 1/2" screws included



625-2132V

625-2134V

Part #	Mfg #	Description
PLT03894	625-2132V	Ivory Duplex Receptacle Cover
PLT03893	625-2134V	Ivory Single Toggle

## Electrical Outlet Boxes

### 4" Steel Octagon Outlet Box

- UL Listed



Part #	Mfg #	Description
BOX01461	620-300	1-1/2" Deep, 1/2" & 3/4" KO's
BOX01462	620-301	2-1/8" Deep, 1/2" & 3/4" KO's

# Electrical Products

Electrical

## 4" Steel Square Box

• UL Listed



620-401

620-403

620-404

Part #	Mfg #	Description
BOX01464	620-400	1-1/4" Deep, 1/2" KO's
BOX01465	620-401	2-1/8" Deep, 1/2" & 3/4" KO's, 25/Pk
BOX01466	620-402	4" Box Extension
BOX01467	620-403	1-1/2" Deep, 1/2" KO's
BOX01468	620-404	1-1/2" Deep, 1/2" & 3/4" KO's, Extension

## Standard Steel Utility Handy Box

• UL Listed



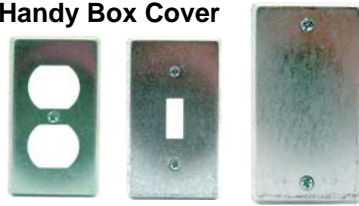
620-201

Part #	Mfg #	Description
BOX01470	620-200	1-1/2" Deep, 1/2" KO's
BOX01471	620-201	1-7/8" Deep, 1/2" KO's
BOX01473	620-20134	1-7/8" Deep, 3/4" KO's
BOX01472	620-202	2-1/8" Deep, 1/2" KO's

## Electrical Box Covers

### Standard Steel Utility Handy Box Cover

• UL Listed



620-252

620-253

620-254

Part #	Mfg #	Description
COV03306	620-252	(2) Duplex Receptacle Cover, 100/Pk
COV03307	620-253	(1) Toggle Switch Cover
COV03308	620-254	(1) 2" x 4" Flat Blank Cover
COV03309	620-255	(1) 1/2" KO Flat Blank Cover

## 4" Steel Octagon Electrical Outlet Cover

• UL Listed



620303

620304

Part #	Mfg #	Description
COV03293	620-303	4" Flat Blank Octagon Cover
COV03294	620-304	4" Flat Duplex Receptacle Octagon
COV03295	620-306	4" Flat 1/2" Center KO Octagon Cover

## 4" Steel Square Box Cover

• UL Listed



620-406

620-408

620-409



620-411

Part #	Mfg #	Description
COV03296	620-405	Flat Cover, 1/2" Center KO
COV03297	620-406	Flat Blank Cover
COV03298	620-408	Flat, (1) Toggle Switch Cover
COV03299	620-409	Flat, (1) Duplex Receptacle Cover
COV03300	620-410	Flat (2) Toggle Switch Cover
COV03301	620-411	(1) Switch & (1) Duplex Receptacle Cover
COV03304	620502	Raised 4" x 4" Receptacle Cover

# Electrical Products

## Electrical Switches

### Electrical Toggle Switch

- Side wire design with auto grounding
- Large binding head terminal screws, lubricated cam
- UL and CSA Listed



Part #	Mfg #	Description
SWT02712	625-CS120W	Single-Pole 20A-1 hp 120V, White
SWT02808	620-604	Single-Pole 15A-1/2 hp 120V, Brown
SWT02809	620-605	Single-Pole 15A-1/2 hp 120V, Ivory
SWT02810	620-606	3-Way 15A-1/2 hp 120V, Brown
SWT02811	620-607	3-Way 15A-1/2 hp 120V, Ivory
SWT02638	625-1301W	Single-Pole 15A-1/2 hp 120V, White

### Toggle Switch



- Furnished with screw terminals
- Rating A: 20A-125VAC, 20A-250VAC, 1 hp at 120-240V
- Rating B: 15A-125/250VAC, 3/4 hp at 240V
- Single pole to double pole listed with AC Underwriters' CSAAPP No 10016

Part #	Mfg #	Description
SWT02577	TS-1	SPST, A Rating
SWT02661	TS-3	SPDT-CO, B Rating
SWT02579	TS-4	DPST, A Rating
SWT02662	TS-5	DPDT, A Rating

## Combination Devices

### Switch/Plug Combo



ED5225



620-274W

Part #	Mfg #	Description
SWT02955	620-274W	White 2P 3W Grounding - 15A 125V

## Receptacles

### Electrical Duplex Receptacle



- Automatic grounding
- Heavy-duty mounting strap
- Copper alloy power/ground contacts
- UL Listed
- CSA Approved



Brown



White



Ivory

Part #	Mfg #	Description
RCT00846	620-700	Brown Comm 15A, 125V
RCT00847	620-701	Ivory 15A, 125V
RCT00844	625-270W	White Residential 15A, 125V
RCT00845	625-CR15W	White, 15A, 125V

## Circuit Breakers

### Square D Homeline® Circuit Breaker



625-GS



625-GD

Part #	Mfg #	Description
BKR03127	625-GS15H	15A, Single-Pole
BKR03128	625-GS20H	20A, Single-Pole
BKR03129	625-GS30H	30A, Single-Pole
BKR03131	625-GS50H	50A, Single-Pole
BKR03132	625-GD15H	15A, Double-Pole
BKR03133	625-GD20H	20A, Double-Pole
BKR03134	625-GD30H	30A, Double-Pole
BKR03135	625-GD40H	40A, Double-Pole
BKR03136	625-GD50H	50A, Double-Pole
BKR03137	625-GD60H	60A, Double-Pole
BOX01474	625-HOM24	70A, Double-Pole
BKR03138	625-GD100	100A, Double-Pole
BOX01476	625-HOM48	125A, Double-Pole

# Electrical Products

## Disconnects

### DiversiTech Pull-Out Disconnect Switch

- Side opening door
- Line, load, and ground terminals aligned
- Reversible door
- Full dead front
- Fused models have indicator lights for blown fuses
- UL Listed IRF9, NEMA Type 3R



DDS-30



DDS-60

DDS-60U



Part #	Mfg #	Description
SWT02590	DDS-30	30A, Fused
SWT02591	DDS-60	60A, Fused
SWT02592	DDS-60U	60A, Non-Fused

### DiversiTech Low-Profile Disconnect Switch

- Slightly smaller design than DiversiTech disconnects
- Side opening door
- Full dead front
- UL Listed IRF9, NEMA Type 3R



Part #	Mfg #	Description
SWT03068	EDS-60U	60A, Non-Fused

### Q0200TR Air Conditioning Disconnect by Square D

- 60A Molded case rated for 10 hp motors at 240VAC
- On-off circuit breaker type switch, no pullout heads
- (4) 1" Combination knockouts - (2) in back and (2) in bottom end wall
- Removable cover housing for open access to lugs



Part #	Mfg #	Description
SWT02425	Q0200TR	60A, Fusible

### Non-Metallic Disconnect by Square D

- NEMA 3R Rated
- Pullout type
- Single-phase 240VAC



Part #	Mfg #	Description
SWT02460	750-P60NF	60A Non-Fusible

### Fusible Disconnect

Part #	Mfg #	Description
SWT02459	750-P60F	60A Non-Metallic

### 3-Phase Disconnect by Square D

- For service entrance equipment when applied with neutral or ground lug kit
- Rainproof type 3R enclosure, 10" x 6" x 4"
- UL Listed



750-30F



750-60F

Part #	Mfg #	Description
SWT02632	750-30F-3PH	30A, Fusible
SWT02633	750-60F-3PH	60A, Fusible
SWT02634	750-60NF-3PH	60A, Non-Fusible



# Electrical Products

## Fuses & Accessories

### 250V Dual Element Fuse

- Time delay for temporary over-current conditions
- Motor running protection for heating and air conditioning equipment
- 10/Pack
- UL Class RK-5



7-CRNR15



Part #	Mfg #	Amps
FUS01822	7-CRNR15	15A
FUS02452	7-CRNR20	20A
FUS02453	7-CRNR25	25A
FUS01823	7-CRNR35	35A

### Time Delay Plug Fuse

- 4/Pack
- UL Listed



Part #	Mfg #	Amp
FUS02434	626-10T	10A
FUS02435	626-15T	15A
FUS02436	626-20T	20A
FUS02437	626-25T	25A
FUS02438	626-30T	30A

### Automotive Style Blade Fuse

- Fast-acting
- Low voltage
- 5/Pack



626-AT003

Part #	Mfg #	Amps	Color
626-AT0003	626-AT0003	3A	Purple
626-AT0005	626-AT0005	5A	Tan

### In-Line Fuse Holder

- Fuses all control circuits up to 30A
- Rigid plastic protective fuse covering
- Use on AC and DC circuits



Part #	Mfg #	Qty
HLD00276	FH-1	10/Pk

### Fuse Adapter



Part #	Mfg #	Description
ADP01037	626-38632	60 to 30 Reducer for Class H, 250V
ADP01104	626-38636	60 to 30 Reducer for Class H, 600V

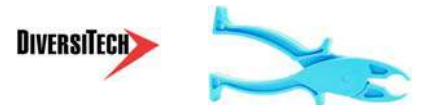
### Fuseblock

- Class H



Part #	Mfg #	Description
BLK00963	626-23133	1-Pole, 250V
BLK00964	626-23233	2-Pole, 250V
BLK00966	626-26311	3-Pole
BLK00965	626-23333	3-Pole, 250V

### Fuse Puller



Part #	Mfg #	Description
TOL01648	626-38071	For Fuses 1/4" to 1/2"
TOL01649	626-38073	For Fuses 1" to 1-3/4"

# Electrical Products

## Box Cover Units **Bussmann**

by **F.T.N**

- Maximum: 15 Amps
- Maximum: 125VAC
- For use with type T-plug fuses
- UL Listed
- CSA Certified



620-608



620-6083

Part #	Mfg #	Description
SWT02563	620-608	Switch/Fuse Combo/ESSU
HLD00307	620-6082	Receptacle/Fuse Combo/ESRU
SWT02564	620-6083	Switch/Fuse Combo Square/ESSY

## Fusible Links

- Temperature-sensitive, one-time devices
- Safety links, open the circuit if limit temperature reached



HFL-5257

### Faceplate Style Fusible Link

Part #	Mfg #	Fusible Temp	Prong Type	Qty
LNK00409	HFL-5257	257°F	Straight	2/Pk
LNK00410	HFL-5258	257°F	Right Angle	2/Pk
LNK00411	HFL-5300	300°F	Straight	2/Pk
LNK00412	HFL-5301	300°F	Right Angle	2/Pk
LNK00413	HFL-5333	333°F	Straight	2/Pk

## In-Line Fusible Link



Part #	Mfg #	Fusible Temp	Prong Type	Qty
FUS01417	HFL-4257	257°F	-	4/Pk
FUS01418	HFL-4300	300°F	-	4/Pk
FUS01419	HFL-4333	333°F	-	4/Pk

## Bearings

### Cushioned Bronze Bearing Pillow Block



Part #	Mfg #	Size
BRG01981	535-BB1	1/2"
BRG01982	535-BB3	3/4"

## Relays

### 8400 Series General Purpose Relay



Part #	Mfg #	Desc	Amps Res	Coil Voltage
RLY03096	D90-290Q	SPST-NO	16/8A	24VAC
RLY03097	D90-293Q	SPDT	8/8A	24VAC
RLY03103	D90-294Q	SPDT	8/8A	120VAC

### 9400 Series General Purpose Relay

- 18A



Part #	Mfg #	Desc	Coil Voltage
RLY03100	D90-360	SPDT-NO	24VAC
RLY03101	D90-370	SPDT	24VAC
RLY03102	D90-380	SPST NO+NC	24VAC
RLY03104	D90-382	SPST NO+NC	120VAC
RLY03105	D90-384	SPST NO+NC	240VAC

# Electrical Products

## General Purpose Switching Relay



Part #	Mfg #	Coil Voltage	Terminals	
			1-2-3	4-5-6
RLY03098	D-90340	24V	POWER	POWER
RLY03099	D-90341	110/120V	POWER	POWER

## Blower on Relays



Part #	Mfg #	Description
TOL03819	FC-82	For Carrier 821 #HN680001

## Transformers

### Open Frame Class 2 1585 UL Recognized Transformer



Part #	Mfg #	VA	Primary	Sec
TRR02095	T1401	40	120V	24
TRR02096	T1404	40	120/208-240V	24

### Foot Mount Class 2 1585 UL Transformer



Part #	Mfg #	VA	Primary	Sec
TRR01861	T2401	40	120V	24
TRR01863	T2403	40	208/240V	24
TRR01864	T2404	40	120/208-240V	24

## Multi-Mount Class 2 1585 UL Transformer

- Includes terminal connection secondary



Part #	Mfg #	VA	Primary	Sec
TRR01885	T3401	40	120V	24
TRR01887	T3403	40	120/208-240V	24
TRR01888	T3501	50	120/208-240V	24

## Heavy-Duty Class 2 1585 UL Recognized Transformer



- Heavy-duty
- External fuse: T67
- Circuit breaker: T77

Part #	Mfg #	VA	Primary	Sec
TRR01782	T6752	75	120/208/240V	24
TRR01783	T6753	75	120/208-240/480V	24
TRR01785	T7752	75	120/208-240/480V	24

## Contactors

### Square D Definite Purpose Contactors

- 3-Pole
- Large frame



Part #	Mfg #	Full Load Amps	Coil VAC
CTR02280	DP603120	60A	120VAC
CTR02388	DP753240	75A	120VAC

### Square D Auxiliary Contact



Part #	Mfg #	Description
CTR02391	D11	1 NO/1NC Auxiliary Contact 50-90A

# Electrical Products

## Definite Purpose Contactors

### Two-Pole, Small Frame Definite Purpose Contactor



Part #	Mfg #	Description
CTR02078	EC30224	30A, 24VAC Coil
CTR02086	EC302120	30A, 120VAC Coil
CTR02087	EC302240	30A, 240VAC Coil
CTR02079	EC40224	40A, 24VAC Coil
CTR02088	EC402120	40A, 120VAC Coil
CTR02089	EC402240	40A, 240VAC Coil

### Three-Pole, Large Frame Definite Purpose Contactor



Part #	Mfg #	Description
CTR02080	EC30324	30A, 24VAC Coil
CTR02090	EC303120	30A, 120VAC Coil
CTR02091	EC303240	30A, 240VAC Coil
CTR02081	EC40324	40A, 24VAC Coil
CTR02092	EC403120	40A, 120VAC Coil
CTR02093	EC403240	40A, 240VAC Coil

## Definite Purpose Contactors by Square D

### Single-Pole, Small Frame



Part #	Mfg #	Description
CTR02906	DPE30124	30A, 24VAC Coil

### Two-Pole, Small Frame



Part #	Mfg #	Description
CTR02236	DP30224	30A, 24VAC Coil
CTR02321	DP40224	40A, 24VAC Coil

### Three-Pole, Large Frame Contactor



Part #	Mfg #	Description
CTR02913	DP30324	30A, 24VAC Coil
CTR02237	DP40324	40A, 24VAC Coil
CTR02385	DP403120	40A, 120VAC Coil
CTR02386	DP403240	40A, 24VAC Coil
CTR02322	DP50324	50A, 24VAC Coil
CTR02283	DP60324	60A, 24VAC Coil
CTR02387	DP603240	60A, 240VAC Coil
CTR02282	DP75324	75A, 24VAC Coil
CTR02281	DP753120	75A, 120VAC Coil
CTR02389	DP903120	90A, 120VAC Coil
CTR02390	DP903240	90A, 240VAC Coil

# Electrical Products

## Run Capacitors

### 370VAC Round Motor Run with Single Capacitance

- Round metal can



Part #	Mfg #	MFD	Can Ht
CPT02426	45075-R	55	4.92"

### Oval Metal Can Motor Run Capacitor

- Features dual voltage: 370V and 44V
- Designed specifically for after market service parts
- Made in the USA



Part #	Mfg #	MFD	Can Ht
CPT02389	45700HU	70	3.75"
CPT02390	45800HU	80	3.75"

### 440VAC Round Motor Run Capacitor with Dual Capacitance

- Round metal can
- Made in USA

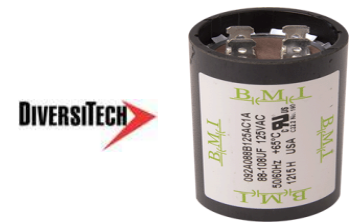


Part #	Mfg #	MFD	Can Ht
CPT02392	4JR-7530U	30+7.5	-
CPT02396	4JR-7535U	35+7.5	-
CPT02393	4JR-7550U	50+7.5	-
CPT02394	4JR-7555U	55+7.5	-
CPT02395	4JR07560U	60+7.5	-
CPT02391	4JR0580U	80+5	-

## Start Capacitors

### 110/125VAC Round Motor Start Capacitor with Variable Capacitance

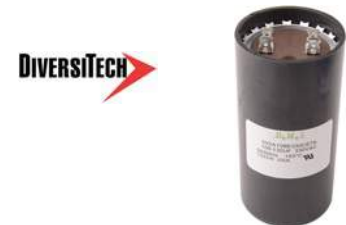
- Round plastic can



Part #	Mfg #	MFD	Can Ht
CAP01261	270-324	270-324	2.75"

### 220-250VAC Round Motor Start Capacitor with Variable Capacitance

- Round plastic can



Part #	Mfg #	MFD	Can Ht
CAP01262	270-324220	270-324	4.37"

### 330VAC Round Motor Start Capacitor with Variable Capacitance

- Round plastic can



Part #	Mfg #	MFD	Can Ht
CAP01263	270-324330	270-324	4.37"



# Electrical Products

## Compressor Heaters

- Extends the life of air conditioners and refrigeration compressors
- Corrosion resistant exterior
- High-temperature silicone rubber element
- Insulated leads
- Moistureproof
- Easy to install
- Voltage through 600V
- Nominal power consumption
- UL Listed
- CSA Certified



Part #	Mfg #	Description
HTR04267	CH-196-2	40W, 120V, 26-5/8"
HTR04266	CH-196	40W, 240V, 26-5/8" Round
HTR04273	CH-103	45W, 240V, 24-3/4" to 31-9/16", Oval
HTR04274	CH-103-2	45W, 120V, 31-9/16" Oval
HTR04278	CH-135	45W, 240V, 27-1/8" Oval
HTR04279	CH-135-2	45W, 120V, 27-1/8" Oval
HTR04257	CH-100	50W, 240V, 30-3/16" to 37" Girth, Oval
HTR04258	CH-100-3	50W, 480V, 50W, 37" Oval
HTR04261	CH-101-2	54W, 120V, 27-7/16" to 34-1/4", Oval
HTR04264	CH-102-2	54W, 120V, 34-1/4" Oval
HTR04260	CH-101-1	54W, 208V, 34-1/4" Oval
HTR04259	CH-101	54W, 240V, 27-7/16" to 34-1/4" Girth, Oval
HTR04262	CH-101-3	54W, 480V, 34-1/4" Oval
HTR04271	CH-230-3	70W, 480V, 28-1/2"
HTR04281	CH-202-3	70W, 480V, 36-3/4"
HTR04272	CH-230-6	70W, 575V, 28-1/2"

## Electric Heater Element Replacement Section Kits

- Includes:
  - Specific kW replacement element
  - (2) Ceramic terminal insulator sets
  - Plated bolts
  - Nuts and washers



Part #	Mfg #	Contains
ELM03169	HEK-100	1,000W @ 240V
ELM03171	HEK-400	4,000W @ 240V
ELM03172	HEK-500	5,000W @ 240V, 54"-162" Min/Max In Place Length

## Sequencers

- Used in electric heat systems to stage blower motors and heating elements
- For 24V control



Part #	Mfg #	Switch
RLY02777	HDR101	SPST-NO
RLY02778	HDR102	SPST-NO
RLY02779	HDR201	DPST-NO
RLY02780	HDR202	DPST-NO
RLY02781	HDR211	DPST-NO
RLY02782	HDR212	DPST-NO
RLY02783	HDR221	DPST-NO/SPST-NO
RLY02784	HDR222	(2) DPST-NO

# Electrical Products

## Delay Timers

- Adjusts from 6 seconds to 8 minutes
- Spin-proof knob
- Works with 24, 120 or 240VAC control circuits
- Supports up to 1.5 Amps
- 2-Wire hookup
- Solid state with quick-disconnect terminals
- Mounts with one self-tapping screw
- Works with anticipator type thermostats
- UL Recognized for US and Canada

### Adjustable Delay on Break Timer



ADB-1

ADB-2

Part #	Mfg #	Description
TMR00205	ADB-1	Adjustable Delay on Break
TMR00206	ADB-2	Adjustable Delay on Break w/Terminal Leads

### Adjustable Delay on Make Timer

- Ideal for random starting of multiple units



ADM-1

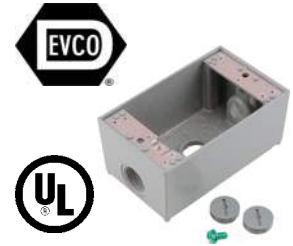
ADM-2

Part #	Mfg #	Description
TMR00207	ADM-1	Adjustable Delay on Make
TMR00208	ADM-2	Adjustable Delay on Make w/Terminal Leads

## Utility Boxes

### Weatherproof Box

- Boxes include:
  - (3) Holes
  - (2) Closure plugs
- Die cast aluminum
- UL Listed



Part #	Mfg #	Description
BOX01788	PI385	2-3/4"W x 4-1/2"L x 2"D, 1/2" Hole

### Utility Box Covers

#### Weatherproof Box Cover

- UL Listed



Part #	Mfg #	Description
COV04109	PI382	Blank Cover with Gasket, Fits PI385

## Wire Nuts

### Standard Wire Nut

- Color-coded with spring inserts
- Heat resistant (105°C) polypropylene
- For copper to copper connections and 6294 is also for aluminum to aluminum and copper to aluminum connections (dry locations only)
- UL Listed



Part #	Mfg #	Size	Color	Qty
CON01769	6294	Medium	Yellow	18/Pk
6296	6296	Large	Red	12/Pk
6298	6298	X-Large	Gray	6/Pk

## Bolts

### Hex Head Cap Screw

- Made of low carbon grade 2 steel



Part #	Mfg #	Size	Length	Qty
6642	6642	3/8" - 16	1"	12/Pk
6643	6643	3/8" - 16	1-1/2"	8/Pk

# AC Power Supplies

## Power Supplies

- A switch/circuit breaker is provided for each transformer for controlling power for the entire unit
- Includes 1 or 2 transformers pre-packaged in a metal enclosure and intended for mounting in the enclosure of the user's choice

### Enclosed Single 100VA - Power Supply

- Secondary: 24VAC with LED indicators
- 24VAC On/off: switch/breaker (4A)
- Outputs:
  - (2) Outlets
  - (1) Auxiliary output wire
- Total combined output: 9A
- Class II UL listed, UL916, cUL listed
- Dimensions: 5.62"H x 6.25"W x 4.25"D



Part #	Mfg #	Transformer	Input Power	Breaker	Output
PWR00133	PSC100AB10	100 VA Split- Bobbin	120VAC	10A	9A

## Surge Protectors

- Single-phase, 120/240VAC
- 100,000A/1,020 Joules protection
- Metal, weatherproof housing
- (3) Banks of Thermal Metal Oxide Varistors (TMOVs)
- Limited lifetime protection warranty



Part #	Mfg #	Description
CNT05269	ICM517	100,000A Max Current, 1,020J, Metal Fireproof Housing





# Transformers

## Transformers

### AT120A/AT140A/AT150A/AT175A Class 2 General Purpose Transformer

- Color-coded leadwire for primary connections
- 9" Leads (primary)
- Screw terminal (secondary)
- Meets NEC Class 2 requirements and Underwriters Laboratories Standard UL 1585
- Identified Class 2 not wet, Class 3 wet
- UL Listed, CSA certified



Part #	Mfg #	Output (100 % Factor)	Primary Voltage @ 60Hz	Mounting
TRR01194	AT120A1004	20VA	120/208/240V	Univ Mnt (Plate, Foot & K/O)
TRR01196	AT140A1018	40VA	120/208/240V	Univ Mnt (Plate, Foot & K/O)

### AT150F/AT175F Circuit Breaker Transformer

- 9" Leads on primary and secondary
- Includes circuit breaker button
- Color-coded lead wires for primary connections and screw terminals for secondary connections
- Includes fixed 1/4 inch (6mm) male quick-connects (AT150A models only) or color-coded lead wires for primary and secondary connections
- Meets Underwriters Laboratories Standard UL 1585
- Identified Class 2 not wet, Class 3 wet
- UL Listed, CSA certified



Part #	Mfg #	Output (100 % Factor)	Primary Voltage @ 60Hz	Mounting
TRR01217	AT150F1022	50VA	120/208/240V	Conduit & Foot Mount
TRR01218	AT150F1030	50VA	208/277/480V	Conduit & Foot Mount
TRR01219	AT175F1023	75VA	120/208/240V	Conduit & Foot Mount

### AT72 NEMA Standard Transformer

- 24V Control circuit step-down transformer designed to power any 24V control system, including thermostats, gas valves and relays
- Color-coded leadwire for primary connections
- 9" Leadwire (primary), (2) screw terminal secondary
- Combination mount can be foot-mounted, plate-mounted on 4 x 4", 4" octagon or 2" x 4" electrical boxes (transformer all above or 3/4 above plate) or clamp-mounted via a junction box knockout
- NEMA Type D, meets 'NEC Class 2 Not Wet, Class 3 Wet' and UL 1585 requirements



Part #	Mfg #	Output (100%Factor)	Primary Voltage @ 50/60 Hz	Secondary Voltage (Open Circuit)	Mounting
TRR01209	AT72D1683	40VA	120V	26.5	Combination
TRR01210	AT72D1691	40VA	208/240V	26.5	Combination



# Transformers

## AT87 NEMA Standard Transformer

- Used primarily for powering 24V air conditioning circuits
- Overload protection provided
- Color-coded leadwire for primary connections
- 12" Leads, energy limiting overload protection (primary/secondary)
- NEMA Type E, meets NEC Class 2 Not Wet, Class 3 Wet and UL 1585 requirements



Part #	Mfg #	Output (100%Factor)	Primary Voltage @ 50/60 Hz	Secondary Voltage (Open Circuit)	Mounting
TRR00744	AT87A1189	48VA	277V	26.5	Foot

## AT88 Transformer

- Powers 24VAC air conditioning circuits
- Meets NEC Class 2 Not Wet, Class 3 Wet and UL 1585 requirements
- Overload protection provided
- Color-coded leadwire for primary connections
- 12" Leadwire (primary/secondary)
- Internally fused secondary for overload protection



Part #	Mfg #	Output (100%Factor)	Primary Voltage @ 50/60 Hz	Secondary Voltage (Open Circuit)	Mounting
TRR01232	AT88A1005	75VA	120V	26.5	Foot
TRR01214	AT88A1021	75VA	208/240V	26.5	Foot
TRR00747	AT88A1047	75VA	208/240V	26.5	Foot



# Transformers

## Transformers

- Split-bobbin construction
- Class 2 UL 5085-3 listed, cUL, CE, RoHS



TR20VA001 TR40VA001  
TR40VA004 TR50VA001  
TR50VA005 TR50VA009

TR100VA004 TR75VA001  
TR75VA002 TR75VA005  
TR100VA001



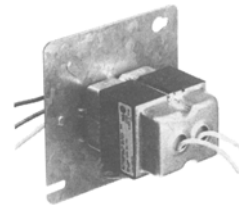
Part #	Mfg #	VA Rating	Primary Wires	Mounting Hub	Over Current Protection
TRR01958	TR20VA001	20VA	120VAC to 24VAC	Sngl Thrd	Inherently Limited
TRR01961	TR40VA001	40VA	120VAC to 24VAC	Sngl Thrd	Inherently Limited
TRR01964	TR40VA004	40VA	277/240/208/120VAC to 24VAC	Dual Thrd	Inherently Limited
TRR01968	TR50VA001	50VA	120VAC to 24VAC	Sngl Thrd	3A Fuse
TRR01972	TR50VA005	50VA	120VAC to 24VAC	Sngl Thrd	Circuit Breaker
TRR01976	TR50VA009	50VA	240/208/120VAC to 24VAC	Dual Thrd	Circuit Breaker
TRR02407	TR50VA004	50VA	480/277/240/120VAC to 24VAC	Dual Thrd	Circuit Breaker
TRR02013	TR50VA015	50VA	480/277/240/208/120VAC to 24VAC	Sngl Thrd	Circuit Breaker
TRR01977	TR75VA001	75VA	120VAC to 24VAC	Sngl Thrd	Circuit Breaker
TRR01978	TR75VA002	75VA	120VAC to 24VAC	Dual Thrd	Circuit Breaker
TRR01979	TR75VA004	75VA	480/240/208/120VAC to 24VAC	Sngl Thrd	Circuit Breaker
TRR01980	TR75VA005	75VA	480/240/208/120VAC to 24VAC	Sngl Thrd	Circuit Breaker
TRR01982	TR100VA001	100VA	120VAC to 24VAC	Sngl Thrd	Circuit Breaker
TRR01984	TR100VA004	100VA	480/277/240/120VAC to 24VAC	Dual Thrd	Circuit Breaker

## Class 2 Transformers

### Class 2 24V Secondary Energy Limiting Transformer

- For industrial heating and air conditioning control applications
- Connections: color-coded primary leads:
  - Primary side - common black (common with respect to transformer winding, not external circuit), 120V white, 208V red, 240V orange
  - Secondary side - common blue, 24V yellow

### Multi-Mount (Closed Construction) Universal Mounting with Plate



White  
Rodgers

Part #	Mfg #	Rating	Frequency	Primary	Secondary
TRR01006	90-T40M3	40V	50/60Hz	120/208/240V	24V

### Foot-Mount (Open Construction)



White  
Rodgers

Part #	Mfg #	Rating	Frequency	Primary	Secondary
TRR01010	90-T40F3	40V	60Hz	120/208/240V	24V
TRR01011	90-T50F3	50V	60Hz	120/208/240V	24V



# Transformers

## Foot-Mount (Manual Reset, Open Construction)



White  
Rodgers

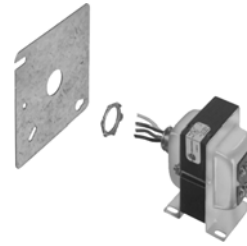
Part #	Mfg #	Rating	Frequency	Primary	Secondary
TRR01013	90-T60C3	60V	50/60Hz	120/208/240V	24V
TRR01014	90-T75C3	75V	50/60Hz	120/208/240V	24V

## Class 2 Energy Limiting Step Down Transformer

- 40VA Designed to power 24VAC control systems
- Energy limiting design, unaffected by momentary short circuit
- Maximum ambient temperature: 150°F

## Universal Mount Transformer (Plate, Foot or Hub Mount)

- UL Recognized
- CSA Certified



White  
Rodgers

Part #	Mfg #	Primary to Secondary Voltage	Terminations Line	Terminations Load
TRR00992	S84Z-90	120/208/240V - 25V 60Hz	10" Leads	Screw Terminals

## Fan & Blower Relays

### SPDT Fan Relay

- For 24VAC control of blowers and other line voltage loads on heating, cooling or heating/cooling systems where 24V power supply is already available
- Compact size, 1/2" conduit hub permits mounting to standard junction box
- Provisions for mounting to flat surface
- Permits control of single or two-speed fan motor
- (5) Color-coded, end stripped leads for easy wiring
- Dimensions: 2-11/16"H x 2-15/16"W x 1-1/2"D
- Gray finish
- Mounting: Mounting tabs or 1/2" conduit hub
- UL Listed
- CSA Certified

White  
Rodgers



Part #	Mfg #	Input Voltage	Switch Action	Coil Current
RLY02011	8A04-1	24V 60Hz	SPDT	.028A



# Enclosures & Disconnects

## Enclosures

### MH3803S Enclosure with Sub-Panel

- Metal housing with SP38035 subpanel
- NEMA 1
- 18 Gauge steel, 18.1 lbs
- Reversible hook hinge key latch door
- Provides an internal surface for control equipment
- Provided are sets of T-Hook holes for "PSH" model power supplies (sold separately) posts for sub-panel mounting and holes for mounting track
- UL Listed, cUL listed, CE approved, RoHS



Part #	Mfg #	Description
HUS03619	MH3803S	12-1/2" x 24-1/2" x 6-1/2"

## Mounting Tracks

- For relays, current sensors, and power supplies
- Can be screw mounted to any flat surface
- UL Component recognized in USA and Canada, CE approved, RoHS



Part #	Mfg #	Width	Length	Distance Between Hole Centers
MNT01700	MT4-2	4"	2"	2" Center to Center



# Enclosures & Disconnects

## Fused Disconnects

### 2-Pole Fused Air Conditioning Disconnect

- Pullout
- NEMA 3R Rainproof enclosure
- 120/240VAC



Part #	Mfg #	Description
SWT02412	DPF221R	30A, Metallic, Galvanized Steel Enclosure
SWT02413	DPF222R	60A, Metallic, Galvanized Steel Enclosure
SWT02416	ACD221RNM	30A, Non-Metallic, Polycarbonate Enclosure

## Non-Fused Disconnects

### 2 Pole Non-Fused Air Conditioning Disconnect

- Pullout
- NEMA 3R Rainproof enclosure
- 120/240VAC



Part #	Mfg #	Description
SWT02411	DPU222R	60A, Metallic, Galvanized Steel Enclosure

## Shunt Trips



Part #	Mfg #	Description
SWT01992	SNT4LP11K	110/240VAC Shunt Trip for NZMLW/NLW

## Circuit Breakers

### Type FD Thermal-Magnetic Circuit Breaker with Non-Interchangeable Trip Units



Part #	Mfg #	Description
SWT01682	FD3150KLS08	600VAC, 250VDC, 3-Pole

## Metal Guard Trouble Lights

- Tough plastic handles are heat and shock resistant with 15A, 125V grounding side outlet
- 16/3 AWG Type



Part #	Mfg #	Cord Length
LIT00897	7-TLC10625	25'
LIT00898	7-TLC10630	50'

## Outdoor Extension Cords

- Heavy-duty with orange vinyl jacket
- Type: SJTW-A
- Meets OSHA requirements
- UL Listed



Part #	Mfg #	Length	Amps	Wire
CRD00083	7-ECC50725	25'	15A	14-3
CRD00084	7-ECC50730	50'	15A	14-3
CRD00085	7-ECC50735	100'	13A	14-3
CRD00086	7-ECC1625	25'	13A	16-3
CRD00088	7-ECC16100	100'	13A	16-3
CRD00089	7-ECC1225	25'	15A	12-3
CRD00090	7-ECC1250	50'	15A	12-3
CRD00091	7-ECC12100	100'	15A	12-3
CRD00087	7-ECC1650	50'	15A	16-3

## Power Blocks



- Vinyl connectors solid molded for high resistance to breakage and abuse
- Triple tap converts (1) 15A 125V U-ground outlet to (3) 15A 125V U-ground outlets



Part #	Mfg #	Description
TOL02177	7-AD010000	Power Block Adapter



# Packaged Terminal Units

## Packaged Terminal Units

- R-410A Refrigerant
- Electric Heat

### PTAC Air Conditioner Cooling Only



Part #	Cooling BTUH	Heat kW	Electrical	EER	Dimensions H x W x D	Ship Wt
PTEF0701GAA	7,000/7,200	2.45/3.45	208/230-1-60	13.0	15.98" x 42.09" x 21.50"	57.0 kg
PTEF0702GAA	7,200	2.45/3.45	265-1-60	13.0	15.98" x 42.09" x 21.50"	57.5 kg
PTEF0901HAA	9,200/9,400	2.45/3.45/5.00	208/230-1-60	12.1	15.98" x 42.09" x 21.50"	61.0 kg
PTEF0902HAA	9,400	2.45/3.45/5.00	265-1-60	12.1	15.98" x 42.09" x 21.50"	61.0 kg
PTEF1201HAA	11,600/11,800	5.00/3.45/2.45	208/230-1-60	11.6	15.98" x 42.09" x 21.50"	63.0 kg
PTEF1202HAA	11,800	5.00/3.45/2.45	265-1-60	11.6	15.98" x 42.09" x 21.50"	62.5 kg
PTEF1501HAA	14,200/14,500	5.00/3.45/2.45	208/230-1-60	10.4	15.98" x 42.09" x 21.50"	63.5 kg
PTEF1502HAA	14,500	5.00/3.45/2.45	265-1-60	10.4	15.98" x 42.09" x 21.50"	63.5 kg

### PTHP Heat Pump Only



Part #	Cooling BTUH	Heat kW	Electrical	EER	Dimensions H x W x D	Ship Wt
PTHF0701GAA	7,000/7,200	2.45/3.45	208/230-1-60	13.0	15.98" x 42.09" x 21.50"	60.0 kg
PTHF0702GAA	7,200	2.45/3.45	265-1-60	13.0	15.98" x 42.09" x 21.50"	59.5 kg
PTHF0901HAA	9,200/9,400	2.45/3.45/5.00	208/230-1-60	12.1	15.98" x 42.09" x 21.50"	63.0 kg
PTHF0902HAA	9,400	2.45/3.45/5.00	265-1-60	12.1	15.98" x 42.09" x 21.50"	63.0 kg
PTHF1201HAA	11,600/11,800	5.00/3.45/2.45	208/230-1-60	11.6	15.98" x 42.09" x 21.50"	64.0 kg
PTHF1202HAA	11,800	5.00/3.45/2.45	265-1-60	11.6	15.98" x 42.09" x 21.50"	63.0 kg
PTHF1502HAA	14,200/14,500	5.00/3.45/2.45	208/230-1-60	10.4	15.98" x 42.09" x 21.50"	65.0 kg
PTHF1501HAA	14,500	5.00/3.45/2.45	265-1-60	10.4	15.98" x 42.09" x 21.50"	65.0 kg

### Packaged Terminal Unit Accessories



Part #	Description
SLV00351	Wall Sleeve
KIT17867	Drainage Kit
GRL02030	Aluminum Grille
SLV00352	Knock-down wall sleeve
THT03191	Wall Thermostat
CNT07573	Wireless Remote (For THT03191)
PLT05872	Blockoff Plate
PWR00286	Power Cord; DYX01(15A/230V)
PWR00287	Power Cord; DYX02(15A/265V)
PWR00288	Power Cord; DYX03(20A/230V)
PWR00289	Power Cord; DYX04(20A/265V)
PWR00290	Power Cord; DYX04(30A/230V)
PWR00291	Power Cord; DYX04(30A/265V)

Equipment





# Room Heating and Cooling

## Room Air Conditioners

- 2-Speed fan
- 1-Year warranty on parts and labor
- 3-Year warranty on parts and labor (with registration)
- 3-Year warranty on compressor (with registration)

### Office Pro® Portable Room Air Conditioner

- 24/7 Programmable digital temperature control

MOVINCOOL  
THE #1 SPOT COOLING SOLUTION



Part #	Mfg #	Cooling BTUH	Electrical	Airflow (CFM)	Dimensions H x W x D	Ship Weight
UNT00858	Office Pro 12	12,000	115-1-60	410 CFM	44" x 21" x 27"	182 lbs
UNT01021	Office Pro W20*	15,700	115-1-60	565 CFM*	41-1/2" x 21" x 27"	209 lbs
UNT00869	Office Pro 18	16,800	115-1-60	540 CFM	44" x 21" x 27"	201 lbs
UNT00859	Office Pro 24	24,000	208/230-1-60	630 CFM	46" x 21" x 27"	253 lbs
UNT00870	Office Pro 36	36,000	208/230-1-60	990 CFM	52" x 30" x 40"	527 lbs
UNT00860	Office Pro 60	60,000	208/230-1-60	1940 CFM	65" x 30" x 52"	753 lbs
UNT00874	Office Pro 63	60,000	460-3-60	1940 CFM	65" x 30" x 52"	835 lbs

\* Water cooled system, no exhaust

## Classic Series Air Conditioner

- Digital temperature control
- Handles temperatures up to 115°F

MOVINCOOL  
THE #1 SPOT COOLING SOLUTION



Part #	Mfg #	Cooling BTUH	Electrical	Airflow (CFM)	Dimensions H x W x D	Ship Weight
UNT00863	Classic 10	10,000	115-1-60	265 CFM	41" x 19" x 26"	194 lbs
UNT00865	Classic 40	40,000	220-3-60	1060 CFM	38" x 26" x 44"	396 lbs
UNT00866	Classic 60	60,000	460-3-60	1580 CFM	42" x 32" x 49"	566 lbs

Equipment



# Room Heating and Cooling

## Classic Plus Series Air Conditioner

- 24/7 Programmable digital temperature control
- Handles temperatures up to 113°F
- Adjustable nozzles to direct cooling to critical hot spots



Part #	Mfg #	Cooling BTUH	Electrical	Airflow (CFM)	Dimensions H x W x D	Ship Weight
UNT00861	Classic Plus 14	13,200	115-1-60	440 CFM	41" x 19" x 26"	197 lbs
UNT00862	Classic Plus 26	24,000	208/230-1-60	708 CFM	47" x 19" x 29"	270 lbs

## Room Heat Pumps

### Ceiling-Mount Series R-410A Heat Pump

- Up to 14 SEER in energy-efficient Sensible Cooling mode
- 1-Year warranty on parts and labor
- 2-Year warranty on parts and labor (with registration)
- 3-Year warranty on compressor (with registration)



Part #	Mfg #	Cooling BTUH	Electrical	Airflow (CFM)	Dimensions H x W x D	Ship Weight
UNT00871	CM 12	12,000	115-1-60	324 CFM	16" x 35" x 23"	137 lbs
UNT00896	CM 25	25,000	208/230-1-60	950 CFM	20" x 36" x 57"	353 lbs
UNT01037	CM W30	30,000	208/230-1-60	1060 CFM*	20" x 49" x 35"	271 lbs

\* Water cooled system, no exhaust

### Climate Pro™ Series Portable Heat Pump

- 1-Year warranty on parts and labor
- 3-Year warranty on parts and labor (with registration)
- 3-Year warranty on compressor (with registration)



Part #	Mfg #	Cooling BTUH	Electrical	Airflow (CFM)	Dimensions H x W x D	Ship Weight
UNT01064	Climate Pro 18	14,600	115-1-60	540 CFM	49" x 21" x 27"	257 lbs



# Room Heating and Cooling

## Air Conditioner Parts & Accessories

### Thermostat



Part #	Mfg #	Description
THT02676	LA484500-3430	Wall Thermostat, for CL40, CL60, CP12, CP18

### Duct Kit



- For air intake or exhaust
- For multiple area, remote or spot cooling

Part #	Mfg #	Description
DUC01043	481744-0060	Warm Air Duct, for OP, CL, CL+, CP
DUC01041	481744-0030	Extension Duct, 6" for OP24, OP36, OP60, CL40, CL60, CL+26, CP18
DUC01044	481744-0090	Extension Duct, 5" for OP12, OP18, OPW20, CL10, CL+14, CP12
DUC01104	LAY45810-0080	Extension Duct, 8" for OP36, OP60
DUC01050	LAY45820-0010	Flexible Duct, 6" x 25' for OP36, OP60
DUC01049	LAY45810-0030	Flexible Duct, 8" x 25' for OP36, OP60
DUC01175	LAY45771-0060	Flexible Duct, 12" x 10' for OP12-24, CL, CL+
ADP00980	LAY45770-0080	Duct Adapter Kit, 8" for OP36, OP60
PLT03642	LA146373-8280	Ceiling Tile Kit, for OP12, OP024, CL10, CL18, CP14, CP26
PLT04462	GX484410-8940	Ceiling Tile Kit, for, OP36, 60 & 63
ADP00978	LA481769-0170	Nozzle Adapter Kit, for OP12, OP18, OPW20, CP12
ADP00979	LAY45770-0070	Nozzle Adapter Kit, for OP36, OP60
NOZ00817	LAY84209-0010	Nozzle Adapter Kit, for OP24
DUC01046	484209-0050	Nozzle Kit, 6" for OP24, OP36, OP60, CP18
NOZ00829	LAY84209-0030	Nozzle Kit, 5" for OP12, OP18, OPW20, CP12
FLG01055	481170-0180	Cold Air Flange, 5" for OP12, OP18, OPW20, CL10, CL18, CL+14, CP12
FLG01058	481170-0250	Cold Air Flange, 6" for CP26, OP24, OP36, OP60
FLG01158	481170-0191	Exhaust Air Flange, 12" for CL10, CL40, CL60, CL+14, CL+26
FLG01159	481170-0151	Reducer Flange, 12"
RNG01760	481851-0200	Trim Ring, 5" for OP12, OP18, OPW20, CL10, CL+14, CP12
RNG01761	481851-0210	Trim Ring, 6" for OP36, OP60, CL40, CL60, CL+26, CP18
DUC01045	484209-0030	Dual Duct Kit, for CL10, CL+14
CHB00160	481849-1431	Chamber Extender, for CL40, CL60
FLG01053	481170-0090	Chamber Extender Flange, for CL40, CL60
CHB00158	481769-0041	Two-Way Chamber, for CL40, CL60

## Plenum



Part #	Mfg #	Description
PLN01131	481769-0221	Air Intake Plenum, for CM12
KIT15626	481769-0240	Air Intake Plenum, for CM25
KIT07910	LAY84270-0020	Condenser/Air Plenum, for CP14, CL18 AND OP36
KIT07911	LAY84270-0030	Condenser/Air Plenum, for CP26
KIT07912	LAY84270-0040	Condenser/Air Plenum, for CL10
KIT07913	LAY84270-0050	Condenser/Air Plenum, for OP 24
KIT07914	LAY84270-0060	Condenser/Air Plenum, for OP 60
KIT09415	LAY84270-008A	Condenser/Air Plenum, for OP12, OP18
KIT07915	LAY84270-0070	Evaporator/Air Plenum, for OP60

## Condensate Pump and Tank Kit



Part #	Mfg #	Description
PMP01769	LA484789-0080	Condensate Pump Kit, for OP12, OP18, OPW20, CL+14, CP12, CP18
PMP01770	LA484789-0121	Condensate Pump Kit, for CL10
PMP01771	LA484789-0090	Condensate Pump Kit, for OP24, OP36, CL+26
TNK00865	484730-0010	Condensate Tank, for OP60
FLT00006	484460-0010	Condensate Float, for OP60
COV03325	484009-0480	Cover Plate, for CL10, CL+14, CL+26

## Classic Series Mount Kit



Part #	Mfg #	Description
KIT07918	484750-0020	Stand, For CL40 Units Manufactured Prior to 07/01/09
KIT15546	484750-0021	Stand, For CL 40 Units Manufactured After 07/01/09
KIT07917	484710-0021	Wagon Kit, for CL40
KIT07916	484709-0011	Caster Kit, for CL40
WHL02263	484709-0020	Caster Kit, for CL60

## Remote Control



Part #	Mfg #	Description
CNT05635	484500-0431	Remote Control, for CL40, CL60



# Electric Unit Heaters

## UHAA Commercial Fan-Forced Architectural Wall-Mount Heaters



- Automatic fan delay circuit
- Powder coated 18 gauge steel grill with extruded Aluminum front frame
- Automatic reset thermal limit
- Steel block fin element
- Vane axial fan blade: 600 rpm motor; 175 cfm
- Dimensions:
  - Rough-in: 19-15/16" x 14-3/16" x 4"
  - Grill: 20-27/32" x 15-29/32"
- Weight: 22 lbs
- UL Listed



Part #	BTUH	kW	Watts	Electrical
UHAA151ETAD	5,119	1.5kW	1,500W	120-1-60
UHAA021ATAD	6,825	2.0kW	2,000W	208-1-60
UHAA031CTAD	10,240	3.0kW	3,000W	277-1-60
UHAA041ATAD	13,650	4.0kW	4,000W	208-1-60
UHAA481ATAD	16,380	4.8kW	4,800W	208-1-60
UHAA481CTAD	16,380	4.8kW	4,800W	277-1-60

## UHCA Electric Ceiling Heaters



- High-velocity, ceiling-mounted heater for restricted areas such as vestibules, lobbies, restrooms, small office building applications, or where wall space is limited
- Single or multiple installation
- Motor: heavy-duty, unit bearing, permanently lubricated, totally enclosed, impedance protected
- Element: totally enclosed and corrosion-resistant with maximum finning
- Blade over motor design
- Thermal cut-out: zero voltage reset



### UHCA Series 70 Electric Ceiling Surface Heater

- Mounting bracket: swing-up installation

Part #	BTUH	kW	Amps	Watts	Electrical
UHCA051B7A	17,065	5.0kW	20.8A	5,000W	240-1-60

### UHCA Series 80 Electric Ceiling Recessed Heater

- Recess-mounted for 2' x 2' T-bar or plaster ceilings
- Junction box is attached to heater can

Part #	BTUH	kW	Amps	Watts	Electrical
UHCA021A8A	6,826	2.0kW	9.6A	2,000W	208-1-60
UHCA053A8A	17,065	5.0kW	13.9A	5,000W	208-3-60



# Electric Unit Heaters



## UHEC Electric Unit Heaters

- Applied as an auxiliary heat source for walkways stairways, vestibules, and entrances
- Used for either horizontal or vertical discharge
- Specially designed inlet louvers, venturi and outlet diffuser provide uniform air temperature and throw characteristic
- Element: high mass, all steel finned, tubular
- Outlet louvers: individually adjustable from 30° up to 45° down
- Motor and fan: totally enclosed, permanently lubricated, sealed bearing, all-angle motor and fan combination through 20kW and 2-speed permanent capacitor-type motor on 25kW through 50kW units
- Thermal overload: automatic reset
- Terminal panel: single-point terminal board wiring
- Access panel: full width secured by 1/4 turn fasteners



Horizontal



Vertical

Part #	BTUH	kW	Amps	Control	Element and Motor Voltage
UHEC031A0C0	11,200	3.3kW	15.9A	208V	208-1-60
UHEC031AACA	11,200	3.3kW	15.9A	24V	208-1-60
UHEC031B0C0	11,200/8,500	3.3/2.5kW	13.7/11.9A	240/208V	240/208-1-60
UHEC031BACA	11,200/8,500	3.3/2.5kW	13.7/11.9A	24V	240/208-1-60
UHEC031C0C0	11,200	3.3kW	11.9A	277V	277-1-60
UHEC031CACA	11,200	3.3kW	11.9A	24V	277-1-60
UHEC032A0C0	11,200	3.3kW	15.9/9.2A†	208V	208-1 or 3-60
UHEC032AACA	11,200	3.3kW	15.9/9.2A†	24V	208/1 or 3/60
UHEC033DACA	11,200	3.3kW	4.0A	24V	480-3-60
UHEC051A0C0	17,100	5.0kW	24.1A	208V	208-1-60
UHEC051B0C0	17,100/12,800	5.0kW	20.9/18.1A	240/208V	240/208-1-60
UHEC051C0C0	17,100	5.0kW	18.1A	277V	277-1-6
UHEC052A0C0	17,100	5.0kW	24.1/13.9A†	208V	208-1 or 3-60
UHEC052AACA	17,100	5.0kW	24.1/13.9A†	24V	208-1 or 3-60
UHEC052B0C0	17,100/12,800	5.0kW	20.9/18.1A 12.1/10.4A†	240/208V	240/208-1 or 3-60
UHEC052BACA	17,100/12,800	5.0kW	20.9/18.1A 12.1/10.4A†	24V	240/208-1 or 3-60
UHEC053DACA	17,100/12,800	5.0kW	20.9/18.1A	24V	480-3-60
UHEC071CACA	25,600	7.5kW	27.1A	24V	277-1-60
UHEC072AACA	25,600	7.5kW	36.1/20.8 20.8A†	24V	208-1 or 3-60
UHEC072BACA	25,600/19,200	7.5kW	31.3/27.1A	24V	240/208-1 or 3-60
UHEC073DACA	25,600	7.5kW	9.1A	24V	480-1-60
UHEC101CACA	34,100	10.0kW	36.1A	24V	277-1-60
UHEC102AACA	34,100	10.0kW	47.8/27.7A†	24V	208-1 or 3-60
UHEC102BACA	34,100/25,600	10.0kW	42.2/27.7A†	24V	240/2081 or 3-60
UHEC103DACA	34,100	10.0kW	12.1A	24V	480-3-60
UHEC153AACA	51,200	15kW	41.7A	24V	208-3-60
UHEC153BACA	51,200/38,400	15kW	36.1/31.3A	24V	240/208-3-60
UHEC153DACA	51,200	15kW	18.1A	24V	480-3-60
UHEC203BACA	67,200/50,500	20kW	67.2/50.5A	24V	240/208-3-60



# Electric Unit Heaters

## UHEC Electric Unit Heaters (Continued)

Part #	BTUH	kW	Amps	Control	Element and Motor Voltage
UHEC203DACA	68,300	20kW	24.1A	24V	480-3-60
UHEC253AACA	85,300	25kW	69.5A	24V	208-3-60
UHEC253BACA	85,300/64,000	25kW	60.2/52.1A	24V	240/208-3-60
UHEC253DACA	85,300	25kW	30.1A	24V	480-3-60
UHEC303AACA	102,400	30kW	83.4A	24V	208-3-60
UHEC303BACA	102,400/76,800	30kW	72.3/62.5A	24V	240/208-3-60
UHEC303DACA	102,400	30kW	36.2A	24V	480-3-60
UHEC403BACA	136,500/102,400	40kW	96.4/83.4A	24V	240/208-3-60
UHEC403DACA	133,100	40kW	47.0A	24V	480-3-60
UHEC503DACA	170,600	50kW	60.3A	24V	480-3-60

† Amp Rating for 3-phase operation (field convertible)

## UHRA Washdown Electric Unit Heaters

- Heavy-duty, corrosion-resistant, 304 16 gauge stainless steel casing
- NEMA 4x Non-metallic control panel
- 24V Transformer and control circuit
- 3-Position switch (off/heat/fan)
- Disconnect switch with enclosure interlock
- Capillary thermostat with stainless steel sensor
- Automatic reset thermal cut-out
- Totally enclosed UL listed motor
- Pilot light (power on indicator)
- Chrome-plated, finned tubular element
- Control panel on bottom of unit for ease of installation and service



Trane Private Label



Part #	BTUH	kW	Amps	Control	Electrical
UHRA033DAAT	11,200	3.3kW	4.0A	24V	480-3-60
UHRA073AAAT	25,600	7.5kW	20.9A	24V	208-3-60
UHRA103DAAT	34,130	10.0kW	12.1A	24V	480-3-60
UHRA203DAAT	68,260	20.0kW	24A	24.1V	480-3-60
UHRA303DAAT	102,390	30.0kW	36.2A	24V	480-3-60



# Electric Unit Heaters

## UHWA Heavy-Duty Fan-Forced Wall-Mount Electric Heaters

- Powder-coated bar stock steel tamper-proof grille, with extruded aluminum frame and 16 gauge housing
- Built-in double-pole tamper-proof thermostat with a 40° to 110°F temperature range and positive off (3-phase heaters have 3-pole thermostat for positive off position)
- Manual reset thermal limit switch
- Element: corrosion resistant steel tubular with brazed steel fins
- Motor: permanently lubricated, unit bearing, shaded-pole with impedance protection
- Propeller type fan blade: 1,400 rpm motor; 245 CFM
- Built-in thermostat
- Made in the USA



Trane Private Label



## UHWA Series 20 Wall-Mount Electric Heater

- Dimensions:
  - Rough-in: 19-3/8" x 14-1/4" x 4-1/4"
  - Grill: 21-15/32" x 17-7/16"

Part #	BTUH	kW	Amps	Watts	Electrical
UHWA021C2AT	6,826	2.0kW	7.2A	2,000W	277-1-60
UHWA031A2AT	10,239	3.0kW	14.4A	3,000W	208-1-60
UHWA031C2AT	10,239	3.0kW	10.8A	3,000W	277-1-60
UHWA041A2AT	13,652	4.0kW	19.2A	4,000W	208-1-60
UHWA051A2AT	17,065	5.0kW	24.0A	5,000W	208-1-60

## UHWA Series 50 Wall-Mount Electric Heater

- Dimensions:
  - Rough-in: 23-1/16" x 14-1/4" x 4-1/4"
  - Grill: 25-1/32" x 17-7/16"

Part #	BTUH	kW	Amps	Watts	Electrical
UHWA031A5AT	10,239	3.0kW	8.3A	3,000W	208-1-60



# Electric Unit Heaters



Trane Private Label



## UHXA Forced-Air Suspended Electric Heaters

- Fan-forced suspended unit heaters 3 - 25kW for
  - Class 1, Group 2, Divisions 1 and 2
  - Class II, Groups 3, F and G, Divisions 1 and 2
- For rugged industrial applications in hazardous locations where the possibility of explosion or fire exists due to the presence of certain flammable gases, vapors, powdered metals or dust
- Permanently sealed, liquid to air, finned tube heat exchanger core
- Ethylene glycol to water mixture uses a heat transfer fluid in the heater core, providing 45°C (-40°F) freeze damage protection
- High-performance electric motor-driven fan blows air across finned tubes to effect uniform heat transfer and area heat distribution
- Stainless steel and aluminum pressure relief valve for over-pressure
- 14 Gauge steel cabinet with epoxy paint finish contains heater core, motor and fan assembly
- Adjustable louvers allow directional control of air
- Copper conductor wires enclosed in rigid metal conduits carry all electrical power

Part #	BTUH	kW	Amps	Control	Electrical
UHXA031A1B	10,239	3.0kW	14.4A	24V	208-1-60
UHXA031A2B	10,239	3.0kW	14.4A	120V	208-1-60
UHXA031A3B	10,239	3.0kW	14.4A	208V	208-1-60
UHXA031B1B	10,239	3.0kW	12.5A	24V	240-1-60
UHXA031B2B	10,239	3.0kW	12.5A	120V	240-1-60
UHXA031B4B	10,239	3.0kW	12.5A	240V	240-1-60
UHXA033A1B	12,239	3.0kW	8.3A	24V	208-3-60
UHXA033A2B	12,239	3.0kW	8.3A	120V	208-3-60
UHXA033A3B	12,239	3.0kW	8.3A	208V	208-3-60
UHXA033B1B	10,239	3.0kW	12.5A	24V	240-3-60
UHXA033B2B	10,239	3.0kW	12.5A	120V	240-3-60
UHXA033B4B	10,239	3.0kW	12.5A	240V	240-3-60
UHXA033D1B	10,239	3.0kW	3.6A	24V	480-3-60
UHXA033D2B	10,239	3.0kW	3.6A	120V	480-3-60
UHXA033F1B	10,239	3.0kW	2.9A	24V	600-3-60
UHXA051A1B	17,065	5.0kW	24.0A	24V	208-1-60
UHXA051A2B	17,065	5.0kW	24.0A	120V	208-1-60
UHXA051A3B	17,065	5.0kW	24.0A	208V	208-1-60
UHXA051B1B	17,065	5.0kW	20.8A	24V	240-1-60
UHXA051B2B	17,065	5.0kW	20.8A	120V	240-1-60
UHXA051B4B	17,065	5.0kW	20.8A	240V	240-1-60
UHXA053A1B	17,065	5.0kW	13.9A	24V	208-3-60
UHXA053A2B	17,065	5.0kW	13.9A	120V	208-3-60
UHXA053A3B	17,065	5.0kW	13.9A	208V	208-3-60
UHXA053B1B	17,065	5.0kW	12.0A	24V	240-3-60
UHXA053B2B	17,065	5.0kW	12.0A	120V	240-3-60
UHXA053B4B	17,065	5.0kW	12.0A	240V	240-3-60
UHXA053D1B	17,065	5.0kW	6.0A	24V	480-3-60
UHXA053D2B	17,065	5.0kW	6.0A	120V	480-3-60

Equipment





# Electric Unit Heaters

## UHXA Forced-Air Suspended Electric Heaters (Continued)

Part #	BTUH	kW	Amps	Control	Electrical
UHXA053F1B	17,065	5.0kW	4.8A	24V	600-3-60
UHXA071A1B	25,598	7.5kW	36.1A	24V	208-1-60
UHXA071A2B	25,598	7.5kW	36.1A	120V	208-1-60
UHXA071A3B	25,598	7.5kW	36.1A	208V	208-1-60
UHXA071B1B	25,598	7.5kW	31.3A	24V	240-1-60
UHXA071B2B	25,598	7.5kW	31.3A	120V	240-1-60
UHXA071B4B	25,598	7.5kW	31.3A	240V	240-1-60
UHXA073A1B	25,598	7.5kW	20.8A	24V	208-3-60
UHXA073A2B	25,598	7.5kW	20.8A	120V	208-3-60
UHXA073A3B	25,598	7.5kW	20.8A	208V	208-3-60
UHXA073B1B	25,598	7.5kW	18.0A	24V	240-3-60
UHXA073B2B	25,598	7.5kW	18.0A	120V	240-3-60
UHXA073B4B	25,598	7.5kW	18.0A	240V	240-3-60
UHXA073D1B	25,598	7.5kW	9.0A	24V	480-3-60
UHXA073D2B	25,598	7.5kW	9.0A	120V	480-3-60
UHXA073F1B	25,598	7.5kW	7.2A	24V	600-3-60
UHXA101B1B	34,130	10.0kW	41.7A	24V	240-1-60
UHXA101B2B	34,130	10.0kW	41.7A	120V	240-1-60
UHXA101B4B	34,130	10.0kW	41.7A	240V	240-1-60
UHXA103A1B	34,130	10.0kW	27.8A	24V	208-3-60
UHXA103A2B	34,130	10.0kW	27.8A	120V	208-3-60
UHXA103A3B	34,130	10.0kW	27.8A	208V	208-3-60
UHXA103B1B	34,130	10.0kW	24.1A	24V	240-3-60
UHXA103B2B	34,130	10.0kW	24.1A	120V	240-3-60
UHXA103B4B	34,130	10.0kW	24.1A	240V	240-3-60
UHXA103D1B	34,130	10.0kW	12.0A	24V	480-3-60
UHXA103D2B	34,130	10.0kW	12.0A	120V	480-3-60
UHXA103F1B	34,130	10.0kW	9.6A	24V	600-3-60
UHXA153A1B	51,195	15.0kW	41.6A	24V	208-3-60
UHXA153A2B	51,195	15.0kW	41.6A	120V	208-3-60
UHXA153A3B	51,195	15.0kW	41.6A	208V	208-3-60
UHXA153B1B	51,195	15.0kW	36.1A	24V	240-3-60
UHXA153B2B	51,195	15.0kW	36.1A	120V	240-3-60
UHXA153B4B	51,195	15.0kW	36.1A	240V	240-3-60
UHXA153D1B	51,195	15.0kW	18.0A	24V	480-3-60
UHXA153D2B	51,195	15.0kW	18.0A	120V	480-3-60
UHXA153F1B	51,195	15.0kW	14.4A	24V	600-3-60
UHXA203D1B	68,260	20.0kW	24.1A	24V	480-3-60
UHXA203D2B	68,260	20.0kW	24.1A	120V	480-3-60
UHXA203F1B	68,260	20.0kW	19.2A	24V	600-3-60
UHXA253D1B	85,325	25.0kW	30.1A	24V	480-3-60
UHXA253D2B	85,325	25.0kW	30.1A	120V	480-3-60
UHXA253F1B	85,325	25.0kW	24.1A	24V	600-3-60

# Gas Unit Heaters

## High-Efficiency Centrifugal Fan Gas-Fired Blower Unit Heaters

- *Balanced, centrifugal blower assembly*
- *For high static applications where duct work is used*
- *Factory installed flue vent fan*
- *Sealed flue collector*
- *24V Control system powered by a 24V transformer*
- *Factory-mounted fan time delay switch*
- *10-Year non-prorated warranty on the heat exchanger, flue collector, and burners*



## GBNE/GBPE Single-Stage Unit Heater with Aluminized Steel Heat Exchanger

- *Intermittent pilot ignition only operates when required*

Part #	Gas Type	BTUH Input/Output	Electrical	Dimensions* H x W x D	Flue Size	Approx Ship Wt
GBNE010ADG10000	NG	100,000/80,000	115-1-60	31-1/4" x 17-7/8" x 26-3/4"	4"	262 lbs
GBPE010ADG10000	LP	100,000/80,000	115-1-60	31-1/4" x 17-7/8" x 26-3/4"	4"	262 lbs
GBNE012ADG10000	NG	125,000/100,000	115-1-60	31-1/4" x 20-5/8" x 26-3/4"	4"	279 lbs
GBPE012ADG10000	LP	125,000/100,000	115-1-60	31-1/4" x 20-5/8" x 26-3/4"	4"	279 lbs
GBNE015ADG10000	NG	150,000/120,000	115-1-60	36-1/4" x 20-5/8" x 26-3/4"	4"	314 lbs
GBPE015ADG10000	LP	150,000/120,000	115-1-60	36-1/4" x 20-5/8" x 26-3/4"	4"	314 lbs
GBNE017ADG10000	NG	175,000/140,000	115-1-60	36-1/4" x 23-3/8" x 26-3/4"	4"	336 lbs
GBPE017ADG10000	LP	175,000/140,000	115-1-60	36-1/4" x 23-3/8" x 26-3/4"	4"	336 lbs
GBNE020ADG10000	NG	200,000/160,000	115-1-60	36-1/4" x 26-1/8" x 26-3/4"	5"	363 lbs
GBPE020ADG10000	LP	200,000/160,000	115-1-60	36-1/4" x 26-1/8" x 26-3/4"	5"	363 lbs
GBNE025ADG10000	NG	250,000/200,000	115-1-60	36-1/4" x 31-5/8" x 26-3/4"	5"	427 lbs
GBPE025ADG10000	LP	250,000/200,000	115-1-60	36-1/4" x 31-5/8" x 26-3/4"	5"	427 lbs
GBNE030ADG10000	NG	300,000/240,000	115-1-60	36-1/4" x 37-1/8" x 26-3/4"	6"	471 lbs
GBPE030ADG10000	NG	300,000/240,000	115-1-60	36-1/4" x 37-1/8" x 26-3/4"	6"	471 lbs
GBNE035ADG10000	NG	350,000/280,000	115-1-60	36-1/4" x 42-5/8" x 26-3/4"	6"	461 lbs
GBPE035ADG10000	LP	350,000/280,000	115-1-60	36-1/4" x 42-5/8" x 26-3/4"	6"	461 lbs
GBNE040ADG10000	NG	400,000/320,000	115-1-60	36-1/4" x 48-1/8" x 26-3/4"	6"	594 lbs
GBPE040ADG10000	LP	400,000/320,000	115-1-60	36-1/4" x 48-1/8" x 26-3/4"	6"	594 lbs

\*Height is to top of the unit. Other dimensions are cabinet size



# Gas Unit Heaters

## High-Efficiency Indoor Gas-Fired Duct Unit Heaters

- Factory-installed flue vent fan allows for horizontal venting through side walls
- Sealed flue collector
- 10-Year warranty of the heat exchanger, draft hood assembly of the unit heater, and burners



## GLND/GLPD Single-Stage Unit Heater with Aluminized Steel Heat Exchanger

- Intermittent pilot ignition only operates when required

Part #	Gas Type	BTUH Input/Output	Electrical	Dimensions* H x W x D	Flue Size	Approx Ship Wt
GLND010ADG10000	NG	100,000/80,000	115-1-60	36-1/4" x 17-7/8" x 24"	4"	173 lbs
GLPD010ADG10000	LP	100,000/80,000	115-1-60	36-1/4" x 17-7/8" x 24"	4"	173 lbs
GLND012ADG10000	NG	125,000/100,000	115-1-60	36-1/4" x 20-5/8" x 24"	4"	186 lbs
GLPD012ADG10000	LP	125,000/100,000	115-1-60	36-1/4" x 20-5/8" x 24"	4"	186 lbs
GLND015ADG10000	NG	150,000/120,000	115-1-60	36-1/4" x 20-5/8" x 24"	4"	197 lbs
GLPD015ADG10000	LP	150,000/120,000	115-1-60	36-1/4" x 20-5/8" x 24"	4"	197 lbs
GLND017ADG10000	NG	175,000/140,000	115-1-60	36-1/4" x 23-3/8" x 24"	4"	216 lbs
GLPD017ADG10000	LP	175,000/140,000	115-1-60	36-1/4" x 23-3/8" x 24"	4"	216 lbs
GLND020ADG10000	NG	200,000/160,000	115-1-60	36-1/4" x 26-1/8" x 24"	5"	232 lbs
GLPD020ADG10000	LP	200,000/160,000	115-1-60	36-1/4" x 26-1/8" x 24"	5"	232 lbs
GLND022ADG10000	NG	225,000/180,000	115-1-60	36-1/4" x 28-7/8" x 24"	5"	254 lbs
GLPD022ADG10000	LP	225,000/180,000	115-1-60	36-1/4" x 28-7/8" x 24"	5"	254 lbs
GLND025ADG10000	NG	250,000/200,000	115-1-60	36-1/4" x 31-5/8" x 24"	5"	263 lbs
GLPD025ADG10000	LP	250,000/200,000	115-1-60	36-1/4" x 31-5/8" x 24"	5"	263 lbs
GLND030ADG10000	NG	300,000/240,000	115-1-60	36-1/4" x 37-1/8" x 24"	6"	312 lbs
GLPD030ADG10000	LP	300,000/240,000	115-1-60	36-1/4" x 37-1/8" x 24"	6"	312 lbs
GLND035ADG10000	NG	350,000/280,000	115-1-60	36-1/4" x 42-5/8" x 24"	6"	389 lbs
GLPD035ADG10000	LP	350,000/280,000	115-1-60	36-1/4" x 42-5/8" x 24"	6"	389 lbs
GLND040ADG10000	NG	400,000/320,000	115-1-60	36-1/4" x 48-1/8" x 24"	6"	403 lbs
GLPD040ADG10000	LP	400,000/320,000	115-1-60	36-1/4" x 48-1/8" x 24"	6"	403 lbs

\*Height is to top of the unit. Other dimensions are cabinet size



# Gas Unit Heaters

## High-Efficiency Propeller Fan Gas-Fired Unit Heaters

- Factory-installed power venter fan
- Sealed flue collector
- Energy saving spark ignition
- Horizontal power venting
- 24V Control system powered by a 24V transformer
- Factory-mounted fan time delay switch
- 10-Year warranty of the heat exchanger, draft hood assembly of the unit heater, and burners



## GHND/GHPD Single-Stage Unit Heater with Aluminized Steel Heat Exchanger

- Intermittent pilot ignition only operates when required

Part #	Gas Type	BTUH Input/Output	Electrical	Dimensions* H x W x D	Flue Size	Approx Ship Wt
GHNE010ADG10000	NG	100,000/80,000	115-1-60	31-1/4" x 17-7/8" x 26-3/4"	4"	174 lbs
GHPE010ADG10000	LP	100,000/80,000	115-1-60	31-1/4" x 17-7/8" x 26-3/4"	4"	174 lbs
GHNE012ADG10000	NG	125,000/100,000	115-1-60	31-1/4" x 20-5/8" x 26-3/4"	4"	197 lbs
GHPE012ADG10000	LP	125,000/100,000	115-1-60	31-1/4" x 20-5/8" x 26-3/4"	4"	197 lbs
GHNE015ADG10000	NG	150,000/120,000	115-1-60	36-1/4" x 20-5/8" x 26-3/4"	4"	219 lbs
GHPE015ADG10000	LP	150,000/120,000	115-1-60	36-1/4" x 20-5/8" x 26-3/4"	4"	219 lbs
GHNE017ADG10000	NG	175,000/140,000	115-1-60	36-1/4" x 23-3/8" x 26-3/4"	4"	238 lbs
GHPE017ADG10000	LP	175,000/140,000	115-1-60	36-1/4" x 23-3/8" x 26-3/4"	4"	238 lbs
GHNE020ADG10000	NG	200,000/160,000	115-1-60	36-1/4" x 26-1/8" x 26-3/4"	5"	249 lbs
GHNE020ADG1000E	NG	200,000/160,000	115-1-60	36-1/4" x 26-1/8" x 26-3/4"	5"	249 lbs
GHPE020ADG10000	LP	200,000/160,000	115-1-60	36-1/4" x 26-1/8" x 26-3/4"	5"	249 lbs
GHNE025ADG10000	NG	250,000/180,000	115-1-60	36-1/4" x 31-5/8" x 26-3/4"	5"	305 lbs
GHPE025ADG10000	LP	250,000/180,000	115-1-60	36-1/4" x 31-5/8" x 26-3/4"	5"	305 lbs
GHNE030ADG10000	NG	300,000/240,000	115-1-60	36-1/4" x 37-1/8" x 26-3/4"	6"	350 lbs
GHPE030ADG10000	LP	300,000/240,000	115-1-60	36-1/4" x 37-1/8" x 26-3/4"	6"	350 lbs
GHNE035ADG10000	NG	350,000/280,000	115-1-60	36-1/4" x 42-5/8" x 26-3/4"	6"	414 lbs
GHPE035ADG10000	LP	350,000/280,000	115-1-60	36-1/4" x 42-5/8" x 26-3/4"	6"	414 lbs
GHNE040ADG10000	NG	400,000/320,000	115-1-60	36-1/4" x 49-1/8" x 26-3/4"	6"	461 lbs
GHPE040ADG10000	LP	400,000/320,000	115-1-60	36-1/4" x 49-1/8" x 26-3/4"	6"	461 lbs

\*Height is to top of the unit. Other dimensions are cabinet size



# Gas Unit Heaters

## Separated Combustion Centrifugal Fan Gas-Fired Unit Heaters

- Balanced, centrifugal blower assembly
- For high static applications where duct work is used
- Power vented, low static pressure type design
- 80% Thermal efficiency rating
- 24V Control system powered by a 24V transformer
- Factory-mounted fan time delay switch
- Energy-saving ignition pilot control
- Burners, pilot, and flue system are enclosed within the unit
- 10-Year warranty of the heat exchanger, draft hood assembly of the unit heater, and burners



## GKND/GKPD Single-Stage Unit Heater with Aluminized Steel Heat Exchanger

- Intermittent pilot ignition only operates when required

Part #	Gas Type	BTUH Input/Output	Electrical	Dimensions* H x W x D	Flue Size	Approx Ship Wt
GKNE010ADG10000	NG	100,000/80,000	115-1-60	31-1/4" x 17-7/8" x 42-3/4"	4"	298 lbs
GKPE010ADG10000	LP	100,000/80,000	115-1-60	31-1/4" x 17-7/8" x 42-3/4"	4"	298 lbs
GKNE012ADG10000	NG	125,000/100,000	115-1-60	31-1/4" x 20-5/8" x 44-3/8"	4"	330 lbs
GKPE012ADG10000	LP	125,000/100,000	115-1-60	31-1/4" x 20-5/8" x 44-3/8"	4"	330 lbs
GKNE015ADG10000	NG	150,000/120,000	115-1-60	36-1/4" x 20-5/8" x 44-3/8"	4"	362 lbs
GKPE015ADG10000	LP	150,000/120,000	115-1-60	36-1/4" x 20-5/8" x 44-3/8"	4"	362 lbs
GKNE017ADG10000	NG	175,000/140,000	115-1-60	36-1/4" x 23-3/8" x 47-3/16"	4"	394 lbs
GKPE017ADG10000	LP	175,000/140,000	115-1-60	36-1/4" x 23-3/8" x 47-3/16"	4"	394 lbs
GKNE020ADG10000	NG	200,000/160,000	115-1-60	36-1/4" x 26-1/8" x 47-3/16"	5"	426 lbs
GKPE020ADG10000	LP	200,000/160,000	115-1-60	36-1/4" x 26-1/8" x 47-3/16"	5"	426 lbs
GKNE022ADG10000	NG	225,000/180,000	115-1-60	36-1/4" x 28-7/8" x 50-7/8"	5"	458 lbs
GKPE022ADG10000	LP	225,000/180,000	115-1-60	36-1/4" x 28-7/8" x 50-7/8"	5"	458 lbs
GKNE025ADG10000	NG	250,000/200,000	115-1-60	36-1/4" x 31-5/8" x 48"	5"	490 lbs
GKPE025ADG10000	LP	250,000/200,000	115-1-60	36-1/4" x 31-5/8" x 48"	5"	490 lbs
GKNE030ADG10000	NG	300,000/240,000	115-1-60	36-1/4" x 37-1/8" x 50-7/8"	6"	558 lbs
GKPE030ADG10000	LP	300,000/240,000	115-1-60	36-1/4" x 37-1/8" x 50-7/8"	6"	558 lbs
GKNE035ADG10000	NG	350,000/280,000	115-1-60	36-1/4" x 42-5/8" x 50-7/8"	6"	618 lbs
GKPE035ADG10000	LP	350,000/280,000	115-1-60	36-1/4" x 42-5/8" x 50-7/8"	6"	618 lbs
GKNE040ADG10000	NG	400,000/320,000	115-1-60	36-1/4" x 48-1/8" x 51"	6"	678 lbs
GKPE040ADG10000	LP	400,000/320,000	115-1-60	36-1/4" x 48-1/8" x 51"	6"	678 lbs

\*Height is to top of the unit. Other dimensions are cabinet size



# Gas Unit Heaters

## Separated Combustion Indoor Gas-Fired Duct Unit Heaters

- For installation in dusty, dirty or mildly corrosive environments or where high humidity or slightly negative pressures exist
- Totally enclosed burners, pilot, and flue system
- 10-Year warranty of the heat exchanger, draft hood assembly of the unit heater, and burners



## GMND/GMPD Single-Stage Unit Heater with Aluminized Steel Heat Exchanger

- Intermittent pilot ignition only operates when required

Part #	Gas Type	BTUH Input/Output	Electrical	Dimensions* H x W x D	Flue Size	Approx Ship Wt
GMND010ADG10000	NG	100,000/80,000	115-1-60	36" x 17-7/8" x 40"	4"	161 lbs
GMPD010ADG10000	LP	100,000/80,000	115-1-60	36" x 17-7/8" x 40"	4"	161 lbs
GMND012ADG10000	NG	125,000/100,000	115-1-60	36" x 20-5/8" x 40"	4"	180 lbs
GMPD012ADG10000	LP	125,000/100,000	115-1-60	36" x 20-5/8" x 40"	4"	180 lbs
GMND015ADG10000	NG	150,000/120,000	115-1-60	36" x 20-5/8" x 40"	4"	188 lbs
GMPD015ADG10000	LP	150,000/120,000	115-1-60	36" x 20-5/8" x 40"	4"	188 lbs
GMND017ADG10000	NG	175,000/140,000	115-1-60	36" x 23-3/8" x 40"	4"	207 lbs
GMPD017ADG10000	LP	175,000/140,000	115-1-60	36" x 23-3/8" x 40"	4"	207 lbs
GMND020ADG10000	NG	200,000/160,000	115-1-60	36" x 26-1/8" x 40"	5"	227 lbs
GMPD020ADG10000	LP	200,000/160,000	115-1-60	36" x 26-1/8" x 40"	5"	227 lbs
GMND022ADG10000	NG	225,000/180,000	115-1-60	36" x 28-7/8" x 40"	5"	246 lbs
GMPD022ADG10000	LP	225,000/180,000	115-1-60	36" x 28-7/8" x 40"	5"	246 lbs
GMND025ADG10000	NG	250,000/200,000	115-1-60	36" x 31-5/8" x 40"	5"	266 lbs
GMPD025ADG10000	LP	250,000/200,000	115-1-60	36" x 31-5/8" x 40"	5"	266 lbs
GMND030ADG10000	NG	300,000/240,000	115-1-60	36" x 37-1/8" x 40"	6"	305 lbs
GMPD030ADG10000	LP	300,000/240,000	115-1-60	36" x 37-1/8" x 40"	6"	305 lbs
GMND035ADG10000	NG	350,000/280,000	115-1-60	36" x 42-5/8" x 40"	6"	344 lbs
GMPD035ADG10000	LP	350,000/280,000	115-1-60	36" x 42-5/8" x 40"	6"	344 lbs
GMND040ADG10000	NG	400,000/320,000	115-1-60	36" x 48-1/8" x 40"	6"	383 lbs
GMPD040ADG10000	NG	400,000/320,000	115-1-60	36" x 48-1/8" x 40"	6"	383 lbs

\*Height is to top of the unit. Other dimensions are cabinet size



# Gas Unit Heaters

## Separated Combustion Propeller Fan Gas-Fired Unit Heaters

- Power vented, low static pressure type design
- 80% Thermal efficiency rating
- 24V Control system powered by a 24V transformer
- Factory-mounted fan time delay switch
- Energy-saving ignition pilot control
- Burners, pilot, and flue system are enclosed within the unit
- 10-Year warranty of the heat exchanger, draft hood assembly of the unit heater, and burners



## GANE/GAPE Single-Stage Unit Heater with Aluminized Steel Heat Exchanger

- Intermittent pilot ignition only operates when required

Part #	Gas Type	BTUH Input/Output	Electrical	Dimensions* H x W x D	Flue Size	Approx Ship Wt
GANE010ADG10000	NG	100,000/80,000	115-1-60	31-1/4" x 17-7/8" x 26-3/4"	4"	200 lbs
GANE012ADG10000	NG	125,000/100,000	115-1-60	31-1/4" x 20-5/8" x 26-3/4"	4"	228 lbs
GAPE012ADG10000	LP	125,000/100,000	115-1-60	31-1/4" x 20-5/8" x 26-3/4"	4"	228 lbs
GANE015ADG10000	NG	150,000/120,000	115-1-60	36-1/4" x 20-5/8" x 26-3/4"	4"	256 lbs
GAPE015ADG10000	LP	150,000/120,000	115-1-60	36-1/4" x 20-5/8" x 26-3/4"	4"	256 lbs
GANE017ADG10000	NG	175,000/120,000	115-1-60	36-1/4" x 20-1/4" x 26-3/4"	4"	284 lbs
GAPE017ADG10000	LP	175,000/120,000	115-1-60	36-1/4" x 20-1/4" x 26-3/4"	4"	284 lbs
GANE020ADG10000	NG	200,000/160,000	115-1-60	36-1/4" x 26-1/8" x 26-3/4"	5"	312 lbs
GAPE020ADG10000	LP	200,000/160,000	115-1-60	36-1/4" x 26-1/8" x 26-3/4"	5"	312 lbs
GANE025ADG10000	NG	250,000/200,000	115-1-60	36-1/4" x 31-5/8" x 26-3/4"	5"	368 lbs
GAPE025ADG10000	LP	250,000/200,000	115-1-60	36-1/4" x 31-5/8" x 26-3/4"	5"	368 lbs
GANE030ADG10000	NG	300,000/240,000	115-1-60	36-1/4" x 37-1/8" x 26-3/4"	6"	432 lbs
GAPE030ADG10000	LP	300,000/240,000	115-1-60	36-1/4" x 37-1/8" x 26-3/4"	6"	432 lbs
GANE035ADG10000	NG	350,000/280,000	115-1-60	36-1/4" x 42-5/8" x 26-3/4"	6"	488 lbs
GAPE035ADG10000	LP	350,000/280,000	115-1-60	36-1/4" x 42-5/8" x 26-3/4"	6"	488 lbs
GANE040ADG10000	NG	400,000/320,000	115-1-60	36-1/4" x 48-1/8" x 26-3/4"	6"	545 lbs
GAPE040ADG10000	LP	400,000/320,000	115-1-60	36-1/4" x 48-1/8" x 26-3/4"	6"	545 lbs

\*Height is to top of the unit. Other dimensions are cabinet size

## Unit Heater Parts

### Fan Guard

Part #	Description
GRD01482	24" Wire Fan Guard



# Gas Unit Heaters

## Tubular Gas-Fired Direct Spark Propeller Unit Heaters

- Power-vented, low static pressure type heater
- Direct spark ignition
- 10-Year warranty of the heat exchanger, draft hood assembly of the unit heater, and burners



## GTND/GTPD Single-Stage Unit Heater with Aluminized Steel Heat Exchanger

Part #	Gas Type	BTUH Input/Output	Electrical	Dimensions* H x W x D	Flue Size	Approx Ship Wt
GTNE003ATG10000	NG	30,000/24,900	115-1-60	12-3/8" x 30" x 25-7/8"	10"	70 lbs
GTNE004ATG10000	NG	45,000/37,350	115-1-60	12-3/8" x 30" x 25-7/8"	10"	75 lbs
GTPE004ATG10000	LP	45,000/37,350	115-1-60	12-3/8" x 30" x 25-7/8"	10"	75 lbs
GTNE006ATG10000	NG	60,000/49,800	115-1-60	15-7/8" x 30" x 26-3/16"	14"	90 lbs
GTPE006ATG10000	LP	60,000/49,800	115-1-60	15-7/8" x 30" x 26-3/16"	14"	90 lbs
GTNE007ATG10000	NG	75,000/61,500	115-1-60	15-7/8" x 30" x 26-3/16"	14"	95 lbs
GTPE007ATG10000	LP	75,000/61,500	115-1-60	15-7/8" x 30" x 26-3/16"	14"	95 lbs
GTNE009ATG10000	NG	90,000/73,800	115-1-60	22-5/8" x 30" x 26-3/8"	16"	110 lbs
GTPE009ATG10000	LP	90,000/73,800	115-1-60	22-5/8" x 30" x 26-3/8"	16"	110 lbs
GTNE011ATG10000	NG	105,000/86,100	115-1-60	22-5/8" x 30" x 26-3/8"	16"	115 lbs
GTPE011ATG10000	LP	105,000/86,100	115-1-60	22-5/8" x 30" x 26-3/8"	16"	115 lbs
GTNE120ATG10000	NG	120,000/98,400	115-1-60	22-5/8" x 30" x 26-3/8"	16"	120 lbs
GTPE120ATG10000	LP	120,000/98,400	115-1-60	22-5/8" x 30" x 26-3/8"	16"	120 lbs

Equipment

**Market-leading Trane TruSense Monitors**

- RMWE—the lowest sensitivity level of 1 ppm detection
- RMWG—flexibility with hardwired & standalone systems
- Compliant with ASHRAE 15 & UL 2075 standards
- Third party sensor performance specification on the RMWE
- BACnet MS/TP module is available

**Early warning of refrigerant loss**

- Saves the *environment*
- Saves *refrigerant*
- Saves *costs*

**Trane Refrigerant Leak Monitors**



# Air Cleaners

## Residential Electronic Air Cleaners

### F300 Whole-House Electronic Air Cleaner

- Captures up to 98% of airborne particles passing through the system
- Media post-filter provides enhanced filtration on select models
- Solid state power supply is self-regulating and maintains peak efficiency during a wide range of cell dirt loading conditions
- Low-profile door with test button to check system operation
- Helps filter efficiency-robbing "gunk" before it coats critical system parts
- Very low pressure drop
- Rugged zinc-coated, roll-formed cabinet provides superior strength and corrosion protection
- 120VAC
- 10-Year clean coil guarantee
- UL Listed

**Honeywell**



Part #	Mfg #	Size	Max Rated Airflow	Includes
FLR07935	F300A1620	16" x 20"	1,200 CFM	Less Post Filter
FLR06657	F300E1001	16" x 20"	1,200 CFM	With Post Filter
FLR06669	F300A1625	16" x 25"	1,400 CFM	Less Post Filter
FLR06879	F300E1019	16" x 25"	1,400 CFM	With Post Filter
FLR07936	F300A2012	20" x 12-1/2"	1,000 CFM	Less Post Filter
FLR07934	F300A2020	20" x 20"	1,400 CFM	Less Post Filter
FLR06658	F300E1027	20" x 20"	1,400 CFM	With Post Filter
FLR06659	F300A2025	20" x 25"	2,000 CFM	Less Post Filter
FLR06880	F300E1035	20" x 25"	2,000 CFM	With Post Filter



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# Air Cleaners

## Residential Media Air Cleaners

### F200F Duct Mount Media Air Cleaner

- High efficiency media filter captures particles as small as 0.3 microns of the airborne particles in the air circulated through the unit
- Recommended basic minimum media air quality product
- Applicable to all gas, oil and electric forced air furnaces and compressors up to 5 tons
- Mounts in any position in the return air duct
- Integral pressure sensors signal when filter change is required
- Filter change status is transmitted to wall-mount RF Airwatch Indicator
- Rugged zinc-coated, roll-formed cabinet resists corrosion and can support weight of residential furnace and evaporator coil
- Requires no electrical connections
- Requires no maintenance except periodic media filter replacement
- Quick and easy media filter replacement
- Upgradable to higher performing media or electronic air cleaner
- Efficiency ranges are defined for small particles
  - E1 = 63% 0.3 to 1.0 Microns; medium particles
  - E2 = 91% 1.0 to 3.0 Microns; and large particles
  - E3 = 99% 3.0 to 10.0 Microns
- Includes:
  - Cabinet
  - Access door
  - MERV 13 Pleated filter
- Tradeline
- UL Listed



Part #	Mfg #	Size	Max Rated Air Flow
FLR06667	F200F2002/U	16" x 25" x 4"	1,400 CFM
FLR06656	F200F2036/U	20" x 20" x 4"	1,400 CFM



# Air Cleaners

## F100F Duct Mount Media Air Cleaner

- High efficiency media filter captures particles as small as 0.3 microns of the airborne particles in the air circulated through the unit
- Recommended as a basic minimum air quality product
- Applicable to all gas, oil and electric forced air furnaces and compressors up to 5 tons
- Mounts in any position in the return air duct
- Rugged zinc-coated, roll-formed cabinet resists corrosion and can support weight of residential furnace and evaporator coil
- Requires no electrical connections
- Requires no maintenance except periodic media filter replacement
- Quick and easy media filter replacement
- Upgradable to higher performing media or electronic air cleaner
- Efficiency ranges are defined for small particles
  - E1 = 32% 0.3 to 1.0 Microns; medium particles
  - E2 = 72% 1.0 to 3.0 Microns; and large particles
  - E3 = 96% 3.0 to 10.0 Microns
- Includes:
  - Cabinet
  - Access door
  - MERV 11 Filter
- Tradeline
- UL Listed

**Honeywell**



Part #	Mfg #	Size	Max Rated Air Flow
FLR06665	F100F2002	16" x 25"	1,400 CFM
FLR06666	F100F2010	20" x 25"	2,000 CFM
FLR06881	F100F2028	16" x 20"	1,200 CFM
FLR07292	F100F2036	20" x 20"	1,400 CFM
FLR07169	F100F2044	25" x 20"	2,000 CFM



# Air Purifiers

## UV Air Treatment Systems

### 24 Volt UV Purifier with AirBRIGHT™ Odor Absorption

- Install in the ductwork of your central air system
- Reduces airborne odors, toxic chemical vapors, germs and mold
- Through the use of Advanced Photocatalytic Oxidation (PCO) technology, Honeywell's UV Air Purifier combines germicidal UV light and activated carbon cells to reduce volatile organic compounds (VOC's) in the air
- Lamp is always on
- Replace lamp annually
- AirBRIGHT Odor Absorber never needs replacing
- SnapLamp™ features replacement lamp handle with detachable replacement lamp
- Universal installation with a single product:
  - UV Only
  - UV + Odor removal
  - Internal mount
  - External mount
- Dark Empire Gray color



Part #	Mfg #	Description
UV2400U1000	UV2400U1000	24V Surface Treatment UV Air Purifier
UV2400U5000	UV2400U5000	24V Surface Treatment Plus AirBRIGHT™ VOC Reduction/Odor Absorption

### UV100 Ultra Violet Air Treatment System

- SnapLamp™ features replacement lamp handle with detachable easy to replace bulb, UC18W or UC36W
- UV-C Light kills airborne bacteria or surface mold
- Continuously emits ultraviolet energy
- UV Lamp does not produce ozone
- Sealed unit design prevents accidental installer and homeowner contact with the voltage and with the ultraviolet rays
- Safe design prevents lamps from lighting unless the base is correctly mounted on the HVAC duct
- Lamp light indicator to safely view the lamp operation
- Power cord that plugs into electrical outlet
- Easy lamp maintenance
- Optional AIRWATCH™ Indicator can be installed to remind customers when to change bulb
- Combine with a high-efficiency air filtration system that includes an electronic air cleaner to capture and minimize micro-organism pass-through
- Meets American Lung Association® Health House® guidelines
- 5-Year warranty



Part #	Mfg #	Description
UV100A1059	UV100A1059	120VAC 36W 1-Lamp UV Surface or Return Air Treatment, Coil Plus Model
UV100A2008	UV100A2008	240VAC 36W 1-Lamp UV Surface or Return Air Treatment, Coil Plus Model
UV100E1043	UV100E1043	120VAC 18W 1-Lamp Smart Lamp UV Return Air Treatment
UV100E2009	UV100E2009	120VAC 36W 2-Lamp Smart Lamp UV Return Air Treatment
UV100E3007	UV100E3007	120VAC 36W 1-Lamp Smart Lamp UV Surface, Coil Irradiation Model



# Air Purifiers

## UV Air Treatment Accessories

### UV100 Air Treatment System Parts



UC100E SnapLamp™



UC100E1030

Part #	Mfg #	Description
UC100E1006	UC100E1006	Replacement 18W SnapLamp™ for UV100E1001 and UV100E1043, Blue Handle
UC100E1030	UC100E1030	Replacement 36W SnapLamp™ for UV100A1018, UV100E3007, UV100E1035, UV100A2009, UV100A1059, UV100A2008
UC18W1004	UC18W1004	Replacement Bulb 18W SnapLamp™ Single Lamp, for UC100A1005, UC100E1006, UV100A1000, UV100E1043
UC36W1006	UC36W1006	Replacement Bulb 36W SnapLamp™ Dual Lamp, for UC100A1013, UC100A1054, UC100E1014, UC100E1030, UV100A1018, UV100A1059, UV100A2008, UV100E2009, UV100E3007

### UV2400U 24 Volt UV Purifier Parts



UV2400XPC01



UV2400XLAM1



UV2400XBAL1

### Honeywell



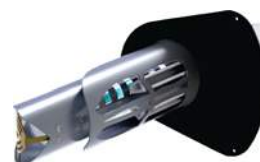
UV2400XDBA1

Part #	Mfg #	Description
UV2400XPC01	UV2400XPC01	AirBRIGHT™ Odor Assembly for UV2400U
UV2400XLAM1	UV2400XLAM1	Replacement Lamp for UV2400U
UV2400XBAL1	UV2400XBAL1	Replacement Ballast for UV2400U
UV2400XDBA1	UV2400XDBA1	Ductboard Adapter for UV2400U, Fastens to Ductboard Applications

## Air Cleaners

### REME Halo™ Air Purification System

- Kills bacteria, mold and viruses
- Eliminates odors, smoke, and VOCs
- Dual ion generators reduce particulates
- Installed in HVAC duct or plenum
- ETL Listed
- TUV Listed
- CSA Certified
- 5-Year warranty



Part #	Mfg #	CFM	Power Supply	Replacement Cell
REMEH	REME-H	1,000 to 6,500 CFM	24VAC, 0.7A, 17W	PHIC-RH



# Air Purifiers

## Guardian QR+™ In-Duct Air Purifier

- Kills bacteria, mold and viruses
- Eliminates odors, smoke and VOCs
- Installed in HVAC duct or plenum
- ETL Listed
- TUV Listed
- CSA Certified
- 5-Year warranty



Part #	Mfg #	CFM	Power Supply	Replacement Cell
QRP5	QRP-5	300 to 1,200 CFM	24VAC, 0.47A, 11W	PHIC-QR5
QRP9	QRP-9	1,000 to 6,500 CFM	24VAC, 0.6A, 14W	PHIC-QR9
QRP14	QRP-14	10,000 to 18,000 CFM	24VAC, 0.7A, 17W	PHIC-QR14

## Magnetic Mount PHI™ Package Unit

- For use in package systems, roof tops, vertical stack units and anywhere ductwork is inaccessible
- Utilizes adjustable magnetic feet to attach without fasteners to the blower unit itself
- Kills bacteria, mold and viruses
- Eliminates odors, smoke and VOCs
- 24VAC Model connects directly into the control box of the HVAC unit
- TUV Listed
- 5-Year warranty



Part #	Mfg #	CFM	Power Supply	Replacement Cell
PHIPKG524	PHI-PKG5-24V	250 to 1,200 CFM	24VAC, 0.48A, 11W	PHIC-5PKG
PHIPKG924	PHI-PKG9-24V	1,200 to 3,000 CFM	24VAC, 0.7A, 16W	PHIC-9PKG
PHIPKG1424	PHI-PKG14-24V	3,000 to 8,000 CFM	24VAC, 0.7A, 17W	PHIC-14PKG

## Quad Polar Ion Generator

- Reduces dust, dander, pollen and particulates
- Helps control bacteria, mold spores and viruses
- Designed for use in HVAC duct systems and mini-split units



Part #	Mfg #	Application	Power Supply	Replacement Cell
QUADDM	QUAD-DM	HVAC In-Duct Unit	24VAC	N/A
QUADMS	QUAD-MS	Mini-Split Unit	120VAC	N/A

## Mini-Split PHI Cell

- Easily mounts onto mini-split unit without modification of the unit
- Kills bacteria, mold and viruses while eliminating odors, smoke and VOCs
- 2-Year warranty



Part #	Mfg #	CFM	Power Supply	Replacement Cell
MSPLITPHI230	MINI SPLIT-HVAC-PHI-230	250 to 1,200 CFM	220VAC, 0.04A, 9W	PHIC-5MS-GA
MSPLITPHI110	MINI SPLIT-HVAC-PHI-110	250 to 1,200 CFM	220VAC, 0.04A, 9W	PHIC-5MS-GA



## Air Purifiers

### PTAC PHI™ Air Purification Unit



- Easily mounts into PTAC systems without modification of the unit
- Kills bacteria, mold and viruses while eliminating odors, smoke and VOCs
- 2-Year warranty



Part #	Mfg #	CFM	Power Supply	Replacement Cell
UNVPTAC	PTAC-HVAC-PHI-12	250 to 500 CFM	230VAC, 0.04A, 9W	PHIC-5GA

### Plug In Plus PHI™ Air Cleaner



- Plugs directly into existing wall outlet
- Kills bacteria, mold and viruses
- Eliminates odors, smoke and VOCs
- Purifies open space up to 800 sq ft
- 2-Year warranty



Part #	Mfg #	CFM	Power Supply	Replacement Cell
PIPGA	PIP-GA	-	120VAC, 50W	PHIC-5A-PIP

### Guardian Air™ Desktop



- Kills bacteria, mold and viruses
- Eliminates odors, smoke and VOCs
- Purifies open space up to 500 sq ft
- 2-Year warranty



Part #	Mfg #	CFM	Power Supply	Replacement Cell
DTDISPLAY	DTDISPLAY	-	120VAC 11W	PHIC-5GA/50

### Rapid Recovery Unit



- Kills bacteria, mold and viruses
- Eliminates odors, smoke, chemical fumes, decaying organic matter, and VOCs
- Portable unit
- DS Suffix: includes duct sanitizing hose



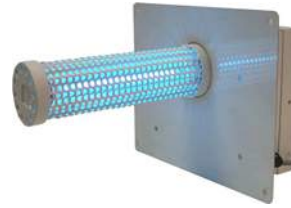
Part #	Mfg #	Fan Controls	Power Supply	Replacement Cell
RRU16	RRU-16	On/Off Light, 12-Hour Timer	110VAC	(2) PHIC-9A
RRU16DS	RRU-16-DS	On/Off Light, 12-Hour Timer	110VAC	(2) PHIC-9A



# Air Purifiers

## Light Commercial PHI™ Unit

- Kills bacteria, mold and viruses
- Eliminates odors, smoke and VOCs
- Perfect for light commercial applications
- Installed in HVAC duct or plenum



Part #	Mfg #	CFM	Power Supply	Replacement Cell
LC14HOGA26	LC14HOGA26	18,000 to 26,000 CFM	220VAC, 60Hz, 50 to 90W	PHIC-14C

## AUV Stick Lite AC/Heat Coil Purification Unit

- Provides UV light disinfection and protection of AC coil surfaces from bacteria, mold, viruses and odors
- 100% Germicidal UV-C light



AUV-14-24



AUV-TS-14-24

Part #	Mfg #	Description
BLUQR	BLU-QR	UV Stick Light with Quick Release - 1-Year Lamp
BLUQR2	BLU-QR2	UV Stick Light with Quick Release - 2-Year Lamp
AUVTS1424	AUV-TS-14-24	AUV Magnetic Mount Twin Stick Light

## Ice Machine Sanitizers

### Commercial Ice Machine Sanitizer

- Pumps advanced oxidation gases into both the production and holding areas of commercial ice machines
- Destroys odors and kills microbials such as Listeria which favors cold environments and can cause food poisoning type symptoms
- No costly chemicals
- Automatic unattended operation
- Safety service cut-off switch
- Reduces maintenance up to factor of 4x
- Reduces liability
- Eliminates odors
- PHI Cell replacement: 2 years
- 2-Year limited warranty



Part #	Mfg #	Dimensions H x W x D	Switching Power Supply	Fan Volume	Material	Weight
IMSBGA	IMS-B-GA	18" x 4" x 4"	110/240V	45 CFM	Stainless Steel	10 lbs





# Air Purifiers

## Green Maintenance Products

### FIN SAVER™

- Specialty zinc alloy for enhanced protection of both aluminum and copper components
- High surface area design
- Higher mass design
- Units can be split and surface mounted to increase application sites for corrosion protection
- Only requires a standard #2 Phillips screw driver to install
- Corrosion protection for HVAC compressor lines, coils and fins
- Fights galvanic and formicary corrosion
- Can be mounted by the condenser and evaporator coil for added protection



Part #	Mfg #	Size
FS375	FS375	3/8"
FS500	FS500	1/2"
FS625	FS625	5/8"
FS750	FS750	3/4"
FS875	FS875	7/8"
FS1125	FS1125	1-1/8"

### Pan Saver Unit

- Designed to significantly reduce condensate line clogging
- Eliminates the need for pan tabs
- Consumes no electricity - self powered
- Proven in destroying Legionella up to 99%



Part #	Mfg #	HVAC Blower Size
PS12	PS-12	Up to 5.0 Tons

### Deslimer

- Welded aluminum
- 5 Minutes to thoroughly clean any drain
- Manual operation
- Dual action breaks up slime
- Corrosion-proof
- Limited lifetime warranty



Part #	Mfg #	Height	Base Width	Tube Dia	Weight
DS1	DS1	11"	2-1/2"	22"	5 lbs



Don't see what you are looking for? We carry thousands of other items. Check with your local parts center.

# Air Purifiers

## REME Mariner Advanced Oxidation System

- Marine grade- all electronics are sealed in RGF's marine sealant for corrosion protection



Part #	Mfg #	Dimensions H x W x D	Electrical	Fan Controls	Replacement Cell#
REMEMARINER12	REME-MARINER-12	20" x 6" x 6"	120-240V Switching	On/Off	(1) PHIC-9RM-GA

## Replacement Cells



Part #	Mfg #	Description
PHIC14PKG	PHIC-14PKG	Replacement Cell for PHI-PKG14-24
PHIC5APIP	PHIC-5A-PIP	Replacement Cell Guardian Air Plug-In
PHIC5PKG	PHIC-5PKG	5" Replacement Cell f/PHI-PKG5-24
PHIC5MSGA	PHIC-5MS-GA	5" Replacement Cell f/ MINI SPLIT-HVAC-PHI-230
PHIC5GA	PHIC-5GA	5" Replacement Cell f/HVAC Mini-GA Unit
PHIC5GAVSF	PHIC-5GA-VSF	5" Std Cell f/PHI-118-GA-VSF Unit
PHIC9PKG	PHIC9PKG	9" Replacement Cell for PHI-PKG9-24
PHIC9GA	PHIC-9GA	9" Replacement Cell for PHI-212-GA
PHIC9RGA	PHIC-9RGA	REME Replacement Cell
PHICQR5	PHIC-QR5	5" Replacement Cell for Guardian Air QR
PHICQR9	PHIC-QR9	9" Replacement Cell for Guardian Air QR
PHICQR14	PHIC-QR14	14" Replacement Cell for Guardian Air QR
PHICRH	PHIC-RH	Replacement Cell for Reme Halo



# Air Purifiers

## Germicidal Lamps



Part #	Mfg #	Description
BUL00849	24-2926-80-01	18" UV Germicidal Bulb
LIT01145	17-1011-50	24" UV Germicidal Bulb
BUL00851	24-3601-64-01	36" UV Germicidal Bulb

## Hyperion Forefront Residential Kits

### Residential UV Retrofit Kit

- Includes:
  - (2) 17" Replacement lamps
  - 17" Ballast assembly
  - Mounting brackets (R/L)
  - 17" Lamp shields



Part #	Mfg #	Description
BAYUVCLK001	38-1000	Residential UV Retrofit Kit

## M&T Series UV Kits

### Model 6-10 M&T Series UV Kit

- Includes:
  - 36" Replacement lamp
  - 36" Ballast assembly
  - Stainless steel hard wire module
  - Horizontal mounting rails
  - Safety switch



Part #	Mfg #	Description
LIT01121	17-1501	Model 6-10 UV Kit

### Model 12-14 M&T Series UV Kit

- Includes:
  - 18" Replacement lamp
  - 36" Replacement lamp
  - 18" Ballast assembly
  - 36" Ballast assembly
  - Stainless steel hard wire module
  - Horizontal mounting rails
  - Safety switch



Part #	Mfg #	Description
LIT01122	17-1502	Model 12-14 UV Kit

### Model 17-25 M&T Series UV Kit

- Includes:
  - (2) 24" Replacement lamps
  - (2) 36" Replacement lamps
  - 24" Ballast assembly
  - 36" Ballast assembly
  - Stainless steel hard wire module
  - Horizontal mounting rails
  - Safety switch



Part #	Mfg #	Description
LIT01123	17-1503	Model 17-25 UV Kit

### Model 30-35 M&T Series UV Kit

- Includes:
  - (4) 36" Replacement lamps
  - 36" Ballast assembly
  - Stainless steel hard wire module
  - Horizontal mounting rails
  - Safety switch



Part #	Mfg #	Description
LIT01124	17-1504	Model 30-35 UV Kit

### Model 40-57 M&T Series UV Kit

- Includes:
  - (2) 24" Replacement lamps
  - (4) 36" Replacement lamps
  - 24" Ballast assembly
  - 36" Ballast assembly
  - Stainless steel hard wire module
  - Horizontal mounting rails
  - Safety switch



Part #	Mfg #	Description
LIT01125	17-1505	Model 40-57 UV Kit

### Model 66-100 M&T Series UV Kit

- Includes:
  - (15) 24" Replacement lamps
  - 24" Ballast assembly
  - Stainless steel hard wire module
  - Horizontal mounting rails
  - Safety switch



Part #	Mfg #	Description
LIT01126	17-1506	Model 66-100 UV Kit

IAC

# Air Purifiers

## Model 120 M&T Series UV Kit

- Includes:
  - (3) 18" Replacement lamps
  - (12) 36" Replacement lamps
  - 18" Ballast assembly
  - 36" Ballast assembly
  - Stainless steel hard wire module
  - Horizontal mounting rails
  - Safety switch



Part #	Mfg #	Description
LIT01127	17-1507	Model 120 UV Kit

## Accessories

### Access Viewport Door



Part #	Mfg #	Description
DOR04134	17-4023-55	8" x 8" Square

### Fixed Radiometer



Part #	Mfg #	Description
MTR01428	18-6004-56	Radiometer

### Safety Switch



Part #	Mfg #	Description
SWT03691	18-6005-58	7.5A

### Mounting Rail



Part #	Mfg #	Description
RAL01132	17-4022-62	1' to 4' Sections
RAL01131	17-4022-61	1' to 8' Sections
RAL01133	17-4022-60	2' to 8' Sections



# Humidity Management

## Dehumidifiers

### TrueDRY DH65 Whole-House Dehumidifier

- *MERV 11*
- *Built-in humidity control requires no additional wiring to an external control*
- *Choice of external control options also available for centrally ducted control*
- *Feedback on operation and maintenance provided via intuitive on-board LED light interface*

**Honeywell**



Part #	Mfg #	Description
UNT01038	DR65A2000	65 Pints per Day, 8" Diameter Plenum Opening less Controls, Uses R-410A Refrigerant

### TrueDRY DR90 Whole-House Dehumidifier

- *MERV 11*
- *Built-in fresh air supply*
- *Uses only 6.7A*
- *R-410A Compliant*
- *Energy Star® rated*
- *5-Year warranty*

**Honeywell**



Part #	Mfg #	Description
UNT01039	DR90A2000	90 Pints per Day, 10" Plenum Opening with 6" Ventilation Collar, less Control

### TrueDRY™ DR120 Whole-House Dehumidifier

- *Smallest footprint in their class; come with an anti-corrosion e-coating coil*
- *Improved design to reduce noise and save space*
- *Built-in fresh air supply*
- *Includes (4) leveling feet with rubber isolation pads*
- *65 Pint model offers on-board dehumidistat*
- *Energy Star® 3.0 rated*

**Honeywell**



Part #	Mfg #	Description
UNT01040	DR120A2000	120 Pints per Day, 10" Collars, 6" Ventilation Collar



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# Humidity Management

## Humidifiers

### TrueEASE™ Flow-Through Humidifier

- Easy to install with quick snap bypass direction adjustment
- Advanced models save 30-50% of water
- Advanced models save energy by automatically closing the bypass when not in use
- Easy to replace pads
- Versatile fit designed for more jobs
- Operational efficiencies to drive higher margins with values homeowners understand
- Unintimidating, engaging maintenance to drive repeat business
- Includes HumidiPRO™ digital humidistat

**Honeywell**



Advanced Bypass



Fan-Powered

Part #	Mfg #	Capacity	Description
HUM00051	HE100A1000	12 gpd	Bypass Small Basic
HUM00052	HE150A1005	12 gpd	Bypass Small Advanced
HUM00053	HE200A1000	17 gpd	Bypass Large Basic
HUM00054	HE250A1005	17 gpd	Bypass Large Advanced
HUM00055	HE300A1005	18 gpd	Fan-Powered Advanced

### Electrode Humidifier

- Application flexibility: use the remote-mount kit for installation up to 5' from the system
- Disposable canister for easy maintenance
- HumidiPRO™ controller helps protect against window condensation and frost
- Auto-Adaptive technology adapts to changes in water conditions
- Kit allows for installation up to five feet (15 foot kit available) from system
- Disposable canisters for easy maintenance with no special tools required
- Quiet operation means it won't interrupt your day-to-day activities
- Includes:
  - Distribution Kit
  - 5' Remote mount hose
  - HumidiPRO H6062 Control
- 5-Year warranty

**Honeywell**



Part #	Mfg #	Capacity	Includes
HM700A1000	HM700A1000/U	11 to 22 gpd	H6062 HumidiPro Digital Humidity Control, Distribution Kit, 5' Remote Mount Hose



# Humidity Management

## Humidity Controllers

### H8908 SPST Manual Humidistat/Dehumidistat

- Mechanical humidity controllers provide automatic control of humidifiers and dehumidifiers or ventilators in central heating and air conditioning systems
- Provides automatic low voltage control of humidifier and dehumidifiers or ventilators in central heating and air conditioning systems
- SPST, Snap-acting, dust-proof switch for wall or surface duct mounting
- Positive On and Off settings
- 12" Moisture sensitive nylon ribbon wound around three bobbins effectively gives optimum control for reliable operation under changing ambient conditions
- Type: steam
- Mounting: duct or remote mount (up to 200')
- Dimensions: 19"H x 11-1/4"W x 9"D

**Honeywell**



Part #	Mfg #	Application	Color
CNT05108	H8908ASPST	24VAC Humidification	White
HMT00038	H8908DSPST	24VAC Dehumidification	White

### TruelAQ™ Total Home Comfort System

- Manages humidification, dehumidification, ventilation and bathroom fans from a central point in your home
- Setting changes can be made easily with the touch of a button
- Simultaneously displays both indoor and outdoor temperature and humidity levels on-screen
- Automatically adjusts inside settings based on outdoor conditions
- Includes individual air quality enhancements to your system with TruelAQ™, or integrate them all as part of a total air quality system
- Intuitive digital backlit display
- Type: steam

**Honeywell**



Part #	Mfg #	Description
CNT05107	DG115EZIAQ	120VAC, Duct or Remote Mount with Outdoor Temperature/Humidity Sensor, White

## Humidifier Accessories

### Humidifier Replacement Pads

**Honeywell**



Part #	Mfg #	Description
PAD01102	HC22A1007	Pad for HE220, HE225, Aprilaire 110, 220, 550, 558
PAD01104	HC26A1008	Pad for HE260, HE265, HE360, HE365, Aprilaire 350, 360, 560, 568, 600, 700, 760, 768
PAD01103	HC22E1003	HE225 Pad with AgION™ Coating for HE220, HE225, Aprilaire 110, 220, 550, 558
PAD01209	HC22E1003/U	HE225 Pad with AgION™ Coating for HE220, HE225, Aprilaire 110, 220, 550, 558
PAD01105	HC26E1004	HE265 Pad with AgION™ Coating for HE260, HE265, HE360, HE365, Aprilaire 350,360,560,568,600,700,760,788

# Media & Air Filters

## Replacement Media Filters

### MERV 15 TrueCLEAN™ Replacement Enhanced Media Air Filter

- Static pressure drop: 0.22"wc at 500 FPM
- Efficiency ranges are defined for small particles
  - E1 = 90% 0.3 to 1.0 Microns; medium particles
  - E2 = 96% 1.0 to 3.0 Microns; and large particles
  - E3 = 99% 3.0 to 10.0 Microns
- Tradeline

**Honeywell**



Part #	Mfg #	Size	Max Rated Airflow (CFM)	Used With
FLR07284	FR8000A1620	16" x 20"	1,350 CFM	FH8000A1620
FLR07282	FR8000F1625	16" x 25"	1,600 CFM	FH8000F1625
FLR07285	FR8000A2020	20" x 20"	1,800 CFM	FH8000A2020
FLR07283	FR8000F2025	20" x 25"	2,000 CFM	FH8000F2025
FLR07286	FR8000A2520	25" x 20"	2,000 CFM	FH8000A2520

### MERV 11 POPUP™ Residential Replacement Media Air Filter

- Stores flat and pops into shape for installation
- Saves space on the truck
- Less damage during storage
- So easy you can sell over-the-counter to homeowners without the worry of mistakes
- Compact shape makes POPUP™ easy to ship
- No combs, pleat spacers or end caps

**Honeywell**



Part #	Mfg #	Size	Used With
FLR06712	POPUP1620	16" x 20" x 5"	F100, F200
FLR06711	POPUP1625	16" x 25" x 5"	F100, F200
FLR06710	POPUP2020	20" x 20" x 5"	F100, F200
FLR06709	POPUP2025	20" x 25" x 5"	F100, F200
FLR06713	POPUP2200*	20-1/4" x 24-1/4" x 5-7/8"	Space-Gard® 2200,2120 2250, Lennox PMAC20 & GeneralAire AC-1
FLR06714	POPUP2400*	26" x 27-1/8" x 5-7/8"	Space-Gard® 2400, Lennox PMAC12

\* Tradeline

### MERV 13 Residential Air Cleaner High Efficiency Media Filter

- Efficiency ranges are defined for small particles
  - E1 = 63% 0.3 to 1.0 Microns; medium particles
  - E2 = 90% 1.0 to 3.0 Microns; and large particles
  - E3 = 97% 3.0 to 10.0 Microns
- Efficiency ratings are based on American Society of Heating, Refrigerating and Air-Conditioning Engineers Standard 52.2 1999

**Honeywell**



Part #	Mfg #	Size	Use With
FLR06825	FC200E1003	16" x 20"	F100, F200
FLR06827	FC200E1029	16" x 25"	F100, F200
FLR06826	FC200E1011	20" x 20"	F100, F200
FLR06828	FC200E1037	20" x 25"	F100, F200, SpaceGard 2200



# Media & Air Filters

## MERV 10 Residential Air Cleaner High Efficiency Media Filter

- New MERV 10 performance with lower pressure drop at no additional cost
- Static pressure drop (in wc): 0.28 @ 500 fpm
- Efficiency ranges are defined for small particles
  - E1 = 25% 0.3 to 1.0 Microns; medium particles
  - E2 = 62% 1.0 to 3.0 Microns; and large particles
  - E3 = 85% 3.0 to 10.0 Microns
- Efficiency ratings are based on American Society of Heating, Refrigerating and Air-Conditioning Engineers Standard 52.2 1999

**Honeywell**



Part #	Mfg #	Size	Use With
FLR06821	FC100A1003	16" x 20"	F100, F200
FLR06823	FC100A1029	16" x 25"	F100, F200
FLR06886	FC100A1052	20" x 12-1/2"	F27F1032
FLR06822	FC100A1011	20" x 20"	F100, F200
FLR06824	FC100A1037	20" x 25"	F100, F200, Space-Gard® 2200



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# Media & Air Filters

## MERV 10 Return Grille Media Air Filter

- Provides a high efficiency, long life alternative to a 1" filter
- Patented design, unique to the industry, captures a significant amount of the airborne particles, in the air that circulates through the filter
- Mounts in most return filter grilles
- Exclusive frame design nests properly into place
- Pleated for greater media capacity
- Low pressure drop provides a comfortable air flow
- Maintains equipment efficiency longer than standard filters
- Static pressure drop: 0.12 at 300 FPM
- Efficiency ranges are defined for small particles
  - E1 = 31% 0.3 to 1.0 Microns; medium particles
  - E2 = 61% 1.0 to 3.0 Microns; and large particles
  - E3 = 86% 3.0 to 10.0 Microns
- Efficiency ratings are based on American Society of Heating, Refrigerating and Air-Conditioning Engineers Standard 52.2 1999

**Honeywell**



Part #	Mfg #	Size	Max Rated Air Flow (CFM)
FLR06724	FC40R1094	12" x 12"	350 CFM
FLR06852	FC40R1037	12" x 24"	800 CFM
FLR06725	FC40R1102	14" x 14"	500 CFM
FLR07022	FC40R1110	14" x 20"	750 CFM
FC40R1128	FC40R1128	14" x 24"	950 CFM
FC40R1045	FC40R1045	14" x 25"	1,000 CFM
FC40R1169	FC40R1169	14" x 30"	1,200 CFM
FLR06708	FC40R1052	16" x 20"	900 CFM
FLR06853	FC40R1060	16" x 25"	1,150 CFM
FLR07217	FC40R1185	18" x 18"	950 CFM
FC40R1136	FC40R1136	18" x 24"	1,250 CFM
FC40R1830	FC40R1830	18" x 30"	1,550 CFM
FLR06706	FC40R1003	20" x 20"	1,150 CFM
FC40R1144	FC40R1144	20" x 24"	1,400 CFM
FLR06707	FC40R1011	20" x 25"	1,450 CFM
FLR06698	FC40R1029	20" x 30"	1,800 CFM
FC40R1078	FC40R1078	24" x 24"	1,700 CFM
FLR07126	FC40R1177	24" x 30"	2,050 CFM



# Media & Air Filters

## MERV 8 Return Grille Air Filter

- Provides a high efficiency, long life alternative to a 1" filter
- Patented design, unique to the industry, captures a significant amount of the airborne particles, in the air that circulates through the filter
- Mounts in most return filter grilles
- Pleated for greater media capacity
- Low pressure drop provides a comfortable air flow
- Maintains equipment efficiency longer than standard filters
- Static pressure drop: 0.18 at 300 FPM
- Efficiency ranges are defined for small particles
  - E1 = 18% 0.3 to 1.0 Microns; medium particles
  - E2 = 57% 1.0 to 3.0 Microns; and large particles
  - E3 = 75% 3.0 to 10.0 Microns
- Efficiency ratings are based on American Society of Heating, Refrigerating and Air-Conditioning Engineers Standard 52.2 1999

**Honeywell**



Part #	Mfg #	Size	Max Rated Air Flow (CFM)
FC20R1625	FC20R1625	16" x 25" x 2"	1,150 CFM
FC20R2020	FC20R2020	20" x 20" x 2"	1,150 CFM
FC20R2025	FC20R2025	20" x 25" x 2"	1,150 CFM
FC20R2030	FC20R2030	20" x 30" x 2"	1,800 CFM



Don't see what you are looking for? We carry thousands of other items. Check with your local parts center.

# Specialty Media & Air Filters

## Clips & Latches

### RC-83-A Spring Latch



- 7/8" Leg hooks onto front face of filter
- For use with 12" deep double header Variflow/Variflow SC, 12" deep wood Variflow/ Variflow SC box style, and Vari+Plus VP plastic construction reverse flow installation

Part #	Mfg #	Description
AG1149986	1149986	12" Spring Latch

### RC-1002 2" Twist Action Latch



- For use with 2" thick disposable filters and extended surface filters with a header and 1" prefilter

Part #	Mfg #	Description
AG1149994	1149994	2" Twist-Action Latch

## Disposable Ducted Ceiling Modules

- Extruded aluminum construction
- Mini-pleat bead separator pack
- Individually tested



Part #	Mfg #	Description
AG2978865	2978865	12" x 12" x 2-3/4"
AG2999277	2999277	23-5/8" x 48-5/8" x 7", 12" Collar, Center Post, Duct Ceiling Module

## Filter Frames

### Uni-Lok Filter Holding Frame

- 16 Gauge aluminized steel
- Pre-punched mounting holes
- Factory applied gasketing
- Full complement of clips and latches



Part #	Mfg #	Description
AG1140205	1140205	24" x 24" x 3"
AG1143205	1143205	24" x 24" x 3", High Temp

### Filter Media Pad Holding Frame

- Easy installation
- No bypass
- Long service life



Part #	Mfg #	Size
AG0350203	0350203	20" x 20" x 2"

## Air Filters and Panels

### ClenAir™ Humidifier Panel

- Provides optimum moisture output, performance, and durability
- Made in the USA



Part #	Mfg #	Size	Description
PAD01355	61250	#10	Standard
CHM01088	61254	#10	Ultra Upgrade
PAD01356	61251	#12	Standard
PAD01357	61252	#35	Standard
CHM01089	61255	#35	Ultra Upgrade

### ClenAir™ High Efficiency Air Cleaner Filter

- MERV 11
- String-less, glued pleat spacing



Part #	Mfg #	Description
FLR07716	61256	For Aprilaire/Spaceguard 2200 & 2250
FLR07717	61257	For Aprilaire/Spaceguard 2400

### ClenAir™ Carbon Air Filter

- Removes odors and pollutants
- Fits any ducted system
- 6 to 9 Month service life



Part #	Mfg #	Description
FLR07733	61062	Filter, Up to 10.0 Ton



# Media & Air Filters

## Antimicrobial Treated Filters

### Bio-Pure® Max Pleated Panel Filter

- *MERV 7*
- *2-Piece, die cut, high wet strength beverage board*
- *Cotton and polyester fiber media*
- *Pleats formed with expanded metal grid*
- *Pleat count: 10 pleats per foot on 2"*



Part #	Mfg #	Size
AG1501117	1501117	10" x 20" x 1"
AG1501217	1501217	10" x 20" x 2"
AG1501120	1501120	12" x 20" x 1"
AG1501220	1501220	12" x 20" x 2"
AG1501110	1501110	12" x 24" x 1"
AG1501210	1501210	12" x 24" x 2"
AG1501410	1501410	12" x 24" x 4"
AG1501610	1501610	12" x 24" x 6"
AG1501139	1501139	14" x 20" x 1"
AG1501239	1501239	14" x 20" x 2"
AG1501141	1501141	14" x 25" x 1"
AG1501241	1501241	14" x 25" x 2"
AG1501145	1501145	15" x 20" x 1"
AG1501245	1501245	15" x 20" x 2"
AG1501101	1501101	16" x 20" x 1"
AG1501201	1501201	16" x 20" x 2"
AG1501401	1501401	16" x 20" x 4"
AG1501216	1501216	16" x 24" x 2"
AG1501102	1501102	16" x 25" x 1"
AG1501202	1501202	16" x 25" x 2"
AG1501402	1501402	16" x 25" x 4"
AG1501280	1501280	18" x 20" x 2"
AG1501112	1501112	18" x 24" x 1"
AG1501212	1501212	18" x 24" x 2"
AG1501412	1501412	18" x 24" x 4"
AG1501612	1501612	18" x 24" x 6"
AG1501285	1501285	18" x 25" x 2"
AG1501103	1501103	20" x 20" x 1"
AG1501203	1501203	20" x 20" x 2"
AG1501403	1501403	20" x 20" x 4"
AG1501603	1501603	20" x 20" x 6"
AG1501211	1501211	20" x 24" x 2"
AG1501411	1501411	20" x 24" x 4"
AG1501611	1501611	20" x 24" x 6"
AG1501104	1501104	20" x 25" x 1"
AG1501204	1501204	20" x 25" x 2"

## Antimicrobial Treated Filters (Continued)

### Bio-Pure® Max Pleated Panel Filter

Part #	Mfg #	Size
AG1501404	1501404	20" x 25" x 4"
AG1501604	1501604	20" x 25" x 6"
AG1501105	1501105	24" x 24" x 1"
AG1501205	1501205	24" x 24" x 2"
AG1501405	1501405	24" x 24" x 4"
AG1501605	1501605	24" x 24" x 6"
AG1501225	1501225	25" x 25" x 2"

## Extended Surface Pocket Filters

### Clean-Pak™ Synthetic Sonic Weld Pocket Filter

- *Dual layer microfine synthetic media*
- *Moisture resistant*
- *Fail-safe pocket attachment*
- *Classified per UL standard 900 for flammability*



### MERV 11

Part #	Mfg #	Size	Pockets
AG0582960	0582960	24" x 20" x 18"	5
AG0576798	0576798	24" x 24" x 21"	6
AG0576490	0576490	24" x 24" x 22"	8

### MERV 12

Part #	Mfg #	Size	Pockets
AG0574892	0574892	20" x 20" x 29"	5
AG0574895	0574895	20" x 24" x 12"	5
AG0574364	0574364	20" x 24" x 29"	6
AG0574868	0574868	24" x 24" x 14"	6
AG0574714	0574714	24" x 24" x 18"	6
AG0574518	0574518	24" x 24" x 22"	6
AG0574042	0574042	24" x 24" x 36"	6
AG0574743	0574743	24" x 24" x 12"	8
AG0574490	0574490	24" x 24" x 22"	8

### MERV 14

Part #	Mfg #	Size	Pockets
AG0572872	0572872	20" x 20" x 18"	5
AG0572336	0572336	24" x 20" x 29"	5
AG0572826	0572826	24" x 24" x 15"	6
AG0572266	0572266	24" x 24" x 29"	6
AG0572042	0572042	24" x 24" x 36"	6
AG0572490	0572490	24" x 24" x 22"	8



# Media & Air Filters

## MERV 15

Part #	Mfg #	Size	Pockets
AG0570658	0570658	20" x 20" x 22"	5
AG0570950	0570950	20" x 24" x 18"	6
AG0570368	0570368	20" x 24" x 30"	6
AG0570744	0570744	24" x 12" x 12"	3
AG0570728	0570728	24" x 12" x 18"	3
AG0570560	0570560	24" x 12" x 22"	3
AG0571036	0571036	24" x 20" x 12"	5
AG0570965	0570965	24" x 20" x 12"	6
AG0570602	0570602	24" x 20" x 22"	7
AG0570865	0570865	24" x 24" x 12"	6
AG0570714	0570714	24" x 24" x 18"	6
AG0570686	0570686	24" x 24" x 18"	8
AG0570672	0570672	24" x 24" x 18"	9
AG0570518	0570518	24" x 24" x 22"	6
AG0570462	0570462	24" x 24" x 22"	10
AG0570238	0570238	24" x 24" x 29"	8
AG0570766	0570766	24" x 24" x 30"	10

### SynPak Self-Supported Pocket Filter

- MERV 8
- Two-layer 100% Polyester media
- Moisture resistant
- Self-sealing design
- Works in front, rear or side access units



Part #	Mfg #	Size
AG0310005	0310005	24" x 24" x 15"

### Venti-Pak® Microglass Sewn Pocket Filter

- Sewn double-lock stick provides high burst strength
- Thermoplastic sealant applied over stitch lines
- Fail-safe pocket attachment
- Classified per UL standard 900 for flammability



## MERV 11

Part #	Mfg #	Size	Pockets
AG0641600	0641600	20" x 25" x 14"	5
AG0641920	0641920	24" x 24" x 14"	6

## MERV 12

Part #	Mfg #	Size	Pockets
AG0631324	0631324	20" x 24" x 22"	6
AG0631578	0631578	24" x 24" x 12"	6
AG0670663	0670663	24" x 24" x 15"	6
AG0630308	0630308	24" x 24" x 29"	6

## MERV 13

Part #	Mfg #	Size	Pockets
AG0620408	0620408	24" x 24" x 22"	6
AG0670854	0670854	24" x 24" x 22"	10

## MERV 15

Part #	Mfg #	Size	Pockets
AG0610408	0610408	24" x 24" x 22"	6

## Gas Phase Absorber Disposable Filters

### Fresh Air™ Activated Carbon Pleated Filter

- MERV 7
- 100% Synthetic media
- Self-supported, no metal
- Combination media removed particulate plus gases and odors
- Moisture resistant beverage board frame
- Carbon loading: 200g per square meter of 60% activity carbon



Part #	Mfg #	Size
AG0410104	0410104	20" x 25" x 1"
AG0410201	0410201	16" x 20" x 2"
AG0410202	0410202	16" x 25" x 2"
AG0410203	0410203	20" x 20" x 2"
AG0410204	0410204	20" x 25" x 2"
AG0410205	0410205	24" x 24" x 2"

### Fresh Air Supreme™ Carbon Pleated Panel Filter

- MERV 8
- 100% Synthetic media
- Self-supported, no metal
- Moisture resistant, die cut beverage board frame
- Carbon loading: 250g per square meter



Part #	Mfg #	Size
AG0420504	0420504	20" x 25" x 2"

# Media & Air Filters

## Vari-Klean® Ultra High Efficiency Gas Phase Absorber

- Chemical filtration for continuous removal of low-level concentrations of AMC
- High first pass removal efficiency
- Low resistance and carbon shedding
- High activity carbon and carbon loading



Part #	Mfg #	Size
AG1540203	1540203	20" x 20" x 12"
AG1540211	1540211	20" x 24" x 12"

## Vari-Pure® High Capacity Gas Phase Absorber

- High activity coconut shell carbon
- Vari-sock after filter for dust prevention
- V-Bank design



Part #	Mfg #	Size
AG1509400	1509400	24" x 24" x 12"

## Gas Turbine Air Intake Filters

### Duraflow® XL Series High Efficiency Barrier Filter

- *MERV 14*
- *Water-repellent microglass media*
- *Media pack caulking*
- *Expanded steel faceguard*
- *Galvanized steel sides*
- *For normal to extra heavy service conditions*
- *Air flow rating: 625 fpm*



Part #	Mfg #	Size
AG2904354	2904354	24" x 24" x 12"

### Vari-Pad™ Prefilter

- Polyester pocket filter for direct mounting on Vari+Plus VP filters



Part #	Mfg #	Size
AG1116847	1116847	24" x 24" x 12"

## HEPA & ULPA Filters

### Micro Guard® 99 HEPA & ULPA Filter

- Efficiency: 99.97% or greater on 0.3 micron
- Waterproof and heat-resistant media up to 500°F
- Score fold pleat design
- 3/4" x 1/4" Downstream gaskets



### Standard Capacity

- 1,000 CFM

Part #	Mfg #	Description
AG2979362	2979362	10" x 10" x 5-7/8" 16ga Galvanized Steel, Metal C-Style Frame
AG2979129	2979129	11-3/8" x 23-3/8" x 11-1/2" 18ga Galvanized Steel, DTF
AG2970316	2970316	12" x 24" x 11-1/2" 16ga Galvanized Steel, Metal C-Style Frame
AG2979223	2979223	18" x 13" x 5-7/8" 16ga Galvanized Steel, Metal C-Style Frame
AG2979764	2979764	20" x 20" x 11-1/2" 18ga Galvanized Steel, 3/4" x 3/4" Metal Header
AG2970280	2970280	23-3/8" x 23-3/8" x 11-1/2" 18 ga Galvanized Steel, DTF
AG2970401	2970401	23-3/8" x 23-3/8" x 11-1/2" 18ga Galvanized Steel, 3/4" x 3/4" Metal Header
AG2971406	2971406	24" x 12" x 11-1/2" 16ga Galvanized Steel, Metal C-Style Frame
AG2979899	2979899	24" x 12" x 11-1/2" 16ga Galvanized Steel, Metal C-Style Frame, Gel Seal
AG2970002	2970002	24" x 24" x 11-1/2" 16ga Galvanized Steel, Metal C-Style Frame
AG2970258	2970258	24" x 24" x 11-1/2" 18ga Galvanized Steel, DTF
AG2970001	2970001	24" x 24" x 11-1/2" Particle Board
AG2970157	2970157	24" x 30" x 11-1/2" 16ga Galvanized Steel, Metal C-Style Frame
AG2970184	2970184	24" x 30" x 11-1/2" Particle Board

# Media & Air Filters

## High Capacity

- 2,000 CFM

Part #	Mfg #	Description
AG2971408	2971408	12" x 24" x 11-1/2" 16ga Galvanized Steel, Metal C-Style Frame
AG2995257	2995257	18" x 24" x 11-1/2" Anodized Aluminum, 99.99% Efficiency
AG2970754	2970754	23-3/8" x 23-3/8" x 11-1/2" 16ga Galvanized Steel, Metal C-Style Frame
AG2971988	2971988	24" x 12" x 11-1/2" 16ga Galvanized Steel, Metal C-Style Frame
AG2977294	2977294	24" x 12" x 11-1/2" 18ga Galvanized Steel, 3/4" x 3/4" Metal Header
AG2970315	2970315	24" x 24" x 11-1/2" 16ga Galvanized Steel, Metal C-Style Frame
AG2970117	2970117	24" x 24" x 11-1/2" 18ga Galvanized Steel, DTF
AG2978798	2978798	24" x 24" x 11-1/2" 16ga Galvanized Steel, Metal C-Style Frame, Gel Seal
AG2974023	2974023	24" x 24" x 11-1/2"; 18ga Galvanized Steel, 3/4" x 3/4" Metal Header
AG2970228	2970228	24" x 24" x 11-1/2" Particle Board
AG2970102	2970102	24" x 30" x 11-1/2" 16ga Galvanized Steel, Metal C-Style Frame
AG2979114	2979114	30" x 24" x 11-1/2" 16ga Galvanized Steel, Metal C-Style Frame

## Micro Guard® LR HEPA & ULPA Filter

- 99% Plus efficiency on 0.3 micron particles
- Low resistance
- Gasket seal
- Classified per UL standard 900 for flammability



Part #	Mfg #	Description
AG2959186	2959186	23-3/8" x 23-3/8" x 11-1/2" Plastic, Single Header

## Micropleat™ HEPA & ULPA Filter

- Mini-pleat bead separator pack
- Extruded aluminum construction
- UL Class 2



Micro-V 2000



Reverse Gel Seal



Gasket Seal

## Gasket Seal Filter

Part #	Mfg #	Description
AG2996885	2996885	21" x 45" x 2-3/4", 99.99% Efficiency

## HEPA Replacement for Fan Filter Module

Part #	Mfg #	Description
AG2997410	2997410	23-5/8" x 47-5/8" x 4-3/4", 99.99% Efficiency

## Micro-V 2000™ High Capacity Filter

Part #	Mfg #	Description
AG2995903	2995903	24" x 12" x 11-1/2", 99.97% Efficiency

## Reverse Gel Seal Filter

Part #	Mfg #	Description
AG2995252	2995252	17-3/4" x 41-3/4" x 2-7/8", 99.99% Efficiency
AG2995272	2995272	19-13/16" x 31-13/16" x 2-7/8", 99.99% Efficiency
AG2979834	2979834	19-13/16" x 43-13/16" x 2-7/8", 99.97% Efficiency





# Media & Air Filters

## Mini-Pleat Filters

### Vari+Plus® High Capacity Mini-Pleat Filter

- Double header, fully enclosed
- 95% DOP
- Temperature range: 0° to 180°F
- Works in applications with up to 100% humidity



#### MERV 11

Part #	Mfg #	Size
AG1117303	1117303	12" x 24" x 12"
AG1117315	1117315	20" x 24" x 12"
AG1117304	1117304	24" x 24" x 12"

#### MERV 13

Part #	Mfg #	Size
AG1117115	1117115	24" x 20" x 12"
AG1117103	1117103	24" x 12" x 12"
AG1117104	1117104	24" x 24" x 12"

#### MERV 14

Part #	Mfg #	Size
AG1117003	1117003	12" x 24" x 12"
AG1117015	1117015	20" x 24" x 12"
AG1117004	1117004	24" x 24" x 12"

### Vari+Plus® VP High Capacity Extended Surface Mini-Pleat Filters

- All plastic construction
- 100% Synthetic media
- Fully incineratable
- Moisture and chemical resistant
- Low resistance



#### MERV 11

Part #	Mfg #	Size
AG1126603	1126603	12" x 24" x 12"
AG1126615	1126615	20" x 24" x 12"
AG1126604	1126604	24" x 24" x 12"

#### MERV 13

Part #	Mfg #	Size
AG1126803	1126803	12" x 24" x 12"
AG1126815	1126815	20" x 24" x 12"
AG1126804	1126804	24" x 24" x 12"

## MERV 15

Part #	Mfg #	Size
AG1126903	1126903	12" x 24" x 12"
AG1126915	1126915	20" x 24" x 12"
AG1126904	1126904	24" x 24" x 12"

## V-Force® Mini-Pleat Filter

- Exceeds LEED green requirement of MERV 13
- 100% Synthetic media
- Moisture and chemical resistant
- Fully incineratable
- Rigid cell, double-v design
- All plastic construction



#### MERV 11

Part #	Mfg #	Size
AG1128603	1128603	12" x 24" x 12"
AG1128613	1501211	20" x 20" x 12"
AG1128615	1128615	20" x 24" x 12"
AG1128604	1128604	24" x 24" x 12"

#### MERV 13

Part #	Mfg #	Size
AG1128803	1128803	12" x 24" x 12"
AG1128813	1128813	20" x 20" x 12"
AG1128815	1128815	20" x 24" x 12"
AG1128804	1128804	24" x 24" x 12"

#### MERV 14

Part #	Mfg #	Size
AG1128903	1128903	12" x 24" x 12"
AG1128913	1128913	20" x 20" x 12"
AG1128915	1128915	20" x 24" x 12"
AG1128904	1128904	24" x 24" x 12"



# Media & Air Filters

## Multi-Pocket Filters

### Ultra II™ Pocket Filter

- *MERV 8*
- *2-Pocket model*
- *Graduated denier media construction*
- *Self-sealing*
- *No leakage*
- *Self-supported pocket construction*
- *Sensitive tack*



Part #	Mfg #	Size
AG4131349	4131349	20" x 20" x 15"
AG4132570	4132570	20" x 24" x 15"
AG4131332	4131332	24" x 24" x 15"

## Panel Filters

### Purolator® Disposable Fiberglass Panel Filter

- *Fiberglass media*
- *Pinch frame construction with scrim retainer*
- *Average arrestance: 72% to 75%*



Part #	Mfg #	Size
AG5038901018	5038901018	8" x 16" x 1"
AG5038901019	5038901019	8" x 30" x 1"
AG5038901307	5038901307	10" x 10" x 1"
AG5038901020	5038901020	10" x 16" x 1"
AG5038901301	5038901301	10" x 20" x 1"
AG5039003244	5039003244	10" x 20" x 2"
AG5038901021	5038901021	10" x 24" x 1"
AG5038901022	5038901022	10" x 25" x 1"
AG5038901023	5038901023	10" x 30" x 1"
AG5038901025	5038901025	12" x 12" x 1"
AG5038901026	5038901026	12" x 16" x 1"
AG5038901027	5038901027	12" x 18" x 1"
AG5038901314	5038901314	12" x 20" x 1"
AG5038901311	5038901311	12" x 24" x 1"
AG5039002006	5039002006	12" x 24" x 2"
AG5038901315	5038901315	12" x 25" x 1"
AG5038901029	5038901029	12" x 30" x 1"
AG5038901031	5038901031	14" x 14" x 1"
AG5038678091	5038678091	14" x 16" x 1"
AG5038656628	5038656628	14" x 18" x 1"

## Panel Filters (Continued)

### Purolator® Disposable Fiberglass Panel Filter

Part #	Mfg #	Size
AG5038901312	5038901312	14" x 20" x 1"
AG5039003245	5039003245	14" x 20" x 2"
AG5038901308	5038901308	14" x 24" x 1"
AG5038901306	5038901306	14" x 25" x 1"
AG5039003246	5039003246	14" x 25" x 2"
AG5038901033	5038901033	14" x 30" x 1"
AG5038901313	5038901313	15" x 20" x 1"
AG5039003247	5039003247	15" x 20" x 2"
AG5038901034	5038901034	15" x 25" x 1"
AG5038901035	5038901035	15" x 30" x 1"
AG5038901036	5038901036	15" x 30-5/8" x 1"
AG5039003248	5039003248	16" x 16" x 2"
AG5038901302	5038901302	16" x 20" x 1"
AG5039002002	5039002002	16" x 20" x 2"
AG5038901038	5038901038	16" x 24" x 1"
AG5039003249	5039003249	16" x 24" x 2"
AG5038901303	5038901303	16" x 25" x 1"
AG5039002003	5039002003	16" x 25" x 2"
AG5038901040	5038901040	16" x 30" x 1"
AG5038901041	5038901041	18" x 18" x 1"
AG5038901042	5038901042	18" x 20" x 1"
AG5038901043	5038901043	18" x 24" x 1"
AG5039067667	5039067667	18" x 24" x 2"
AG5038901310	5038901310	18" x 25" x 1"
AG5038902070	5038902070	18" x 30" x 1"
AG5038901304	5038901304	20" x 20" x 1"
AG5039002004	5039002004	20" x 20" x 2"
AG5038901045	5038901045	20" x 22-1/4" x 1"
AG5038901046	5038901046	20" x 24" x 1"
AG5039003250	5039003250	20" x 24" x 2"
AG5038901305	5038901305	20" x 25" x 1"
AG5039002005	5039002005	20" x 25" x 2"
AG5038902001	5038902001	20" x 30" x 1"
AG5038901047	5038901047	22" x 22" x 1"
AG5038901316	5038901316	24" x 24" x 1"
AG5039002007	5039002007	24" x 24" x 2"
AG5038901049	5038901049	24" x 30" x 1"
AG5038901317	5038901317	25" x 25" x 1"
AG5039003251	5039003251	25" x 25" x 2"

# Media & Air Filters

## Purolator® Disposable Synthetic Panel Filter

- Polyester synthetic media
- Pinch frame construction
- Average arrestance: 82% to 89%



Part #	Mfg #	Size
AG5039793112	5039793112	10" x 10" x 1"
AG5039701501	5039701501	10" x 20" x 1"
AG5039803252	5039803252	10" x 20" x 2"
AG5039749224	5039749224	10" x 24" x 1"
AG5039722012	5039722012	12" x 12" x 1"
AG5039701514	5039701514	12" x 20" x 1"
AG5039701511	5039701511	12" x 24" x 1"
AG5039803253	5039803253	12" x 24" x 2"
AG5039701515	5039701515	12" x 25" x 1"
AG5039797352	5039797352	12" x 30" x 1"
AG5039701531	5039701531	14" x 14" x 1"
AG5039701512	5039701512	14" x 20" x 1"
AG5039803254	5039803254	14" x 20" x 2"
AG5039701508	5039701508	14" x 24" x 1"
AG5039803255	5039803255	14" x 25" x 2"
AG5039797348	5039797348	14" x 30" x 1"
AG5039701513	5039701513	15" x 20" x 1"
AG5039803331	5039803331	15" x 20" x 2"
AG5039803256	5039803256	16" x 16" x 2"
AG5039701502	5039701502	16" x 20" x 1"
AG5039803257	5039803257	16" x 20" x 2"
AG5039797349	5039797349	16" x 24" x 1"
AG5039803258	5039803258	16" x 24" x 2"
AG5039701503	5039701503	16" x 25" x 1"
AG5039803259	5039803259	16" x 25" x 2"
AG5039793113	5039793113	18" x 18" x 1"
AG5039793114	5039793114	18" x 20" x 1"
AG5039793115	5039793115	18" x 24" x 1"
AG5039803260	5039803260	18" x 24" x 2"
AG5039701510	5039701510	18" x 25" x 1"
AG5039701504	5039701504	20" x 20" x 1"
AG5039803261	5039803261	20" x 20" x 2"
AG5039797350	5039797350	20" x 24" x 1"
AG5039803262	5039803262	20" x 24" x 2"
AG5039701505	5039701505	20" x 25" x 1"
AG5039803263	5039803263	20" x 25" x 2"
AG5039702501	5039702501	20" x 30" x 1"
AG5039701516	5039701516	24" x 24" x 1"

## Panel Filters (Continued)

### Purolator® Disposable Synthetic Panel Filter

Part #	Mfg #	Size
AG5039803264	5039803264	24" x 24" x 2"
AG5039797351	5039797351	24" x 30" x 1"
AG5039701517	5039701517	25" x 25" x 1"
AG5039803265	5039803265	25" x 25" x 2"

### The Activator™ Series 2-Ply Panel Filter

- MERV 6
- Dual layer upstream media with multi-denier, blended fiber
- Dense, needled downstream media
- Recommended for normal dirt loading applications
- No particle migration downstream
- Available as link or ring panel



Part #	Mfg #	Description
AG0243100376	0243100376	13-1/2" x 23-3/4" Ring
AG0243100375	0243100375	15-1/2" x 26" Ring
AG0245214	0245214	16" x 60" Link
AG0245215	0245215	16" x 80" Link
AG0243100407	0243100407	18" x 34" Ring
AG0243400043	0243400043	18" x 120" Link
AG0245016	0245016	20" x 75" Link
AG0245018	0245018	20" x 105" Link
AG0244205	0244205	24" x 24" Ring
AG0245177	0245177	24" x 72" Link
AG0245179	0245179	24" x 120" Link
AG0245115	0245115	24" x 140" Link
AG0245189	0245189	25" x 48" Link

### The Activator™ N Series 2-Ply Ring Panel Filter

- MERV 6
- Self-sealing
- Eliminates bypass
- Moisture resistant
- No latch required



Part #	Mfg #	Size
AG0246500274	0246500274	7-1/4" x 30" x 1"
AG0246500742	0246500742	14-1/2" x 15-3/4" x 1"
AG0246500743	0246500743	17-3/4" x 19-3/4" x 1"
AG0246111	0246111	20" x 24" x 1"
AG0246105	0246105	24" x 24" x 1"

# Media & Air Filters

## The Activator™ Series 3-Ply Panel Filter

- *MERV 7*
- *Stratified, dual layer upstream media with two polyester fiber layers for greater depth loading*
- *Dense, needled downstream media*
- *Recommended for heavier dirt loading conditions or where higher efficiency particulate removal is desired*
- *No particle migration downstream*
- *Available as link or ring panel*



Part #	Mfg #	Description
AG0245313	0245313	16" x 80" Link
AG0245323	0245323	16" x 96" Link
AG0244303	0244303	20" x 20" Ring
AG0245359	0245359	20" x 64" Link
AG0245553	0245553	20" x 70" Link
AG0245369	0245369	20" x 80" Link
AG0245415	0245415	20" x 90" Link
AG0245362	0245362	20" x 112" Link
AG0245453	0245453	24" x 108" Link
AG0243500016	0243500016	25" x 90" Link
AG0245340	0245340	25" x 140" Link

## Type HD Steel Permanent Metal Filter

- *Rugged all metal construction*
- *Designed for tough applications*
- *Multiple layers of pleated and flat steel screen wire*
- *Single aluminum channel frame with mitered corners*
- *Low resistance*
- *Washable*



Part #	Mfg #	Size
AG0320201	0320201	16" x 20" x 2"
AG0320204	0320204	20" x 25" x 2"

## Type HS Aluminum Permanent Metal Filter

- *Rugged all metal construction*
- *Designed for tough applications*
- *Multiple layers of pleated and flat aluminum screen wire*
- *24 Gauge galvanized steel frame*
- *Low resistance*
- *Washable*



Part #	Mfg #	Size
AG0310100	0310100	12" x 24" x 1"
AG0310201	0310201	16" x 20" x 2"
AG0310203	0310203	20" x 20" x 2"
AG0310204	0310204	20" x 25" x 2"
AG0310105	0310105	24" x 24" x 1"
AG0310225	0310225	24-1/2" x 24-1/2" x 2"

## Pleated Panel Filters

### DP-g13een® Pleated Filter

- *MERV 13*
- *100% Synthetic media*
- *Heavy-duty beverage board frame*
- *Extended surface*
- *Double wall frame*
- *Water-repellent adhesive*
- *Galvanized steel pleat support grid*



Part #	Mfg #	Size
AG0446109	0446109	10" x 10" x 1"
AG0446117	0446117	10" x 20" x 1"
AG0446217	0446217	10" x 20" x 2"
AG0446124	0446124	10" x 24" x 1"
AG0446122	0446122	12" x 12" x 1"
AG0446123	0446123	12" x 16" x 1"
AG0446120	0446120	12" x 20" x 1"
AG0446220	0446220	12" x 20" x 2"
AG0446110	0446110	12" x 24" x 1"
AG0446210	0446210	12" x 24" x 2"
AG0446410	0446410	12" x 24" x 4"
AG0446133	0446133	14" x 14" x 1"
AG0446139	0446139	14" x 20" x 1"
AG0446239	0446239	14" x 20" x 2"
AG0446159	0446159	14" x 24" x 1"
AG0446141	0446141	14" x 25" x 1"
AG0446241	0446241	14" x 25" x 2"
AG0446137	0446137	14" x 30" x 1"

# Media & Air Filters

## Pleated Panel Filters (Continued)

### DP-g13een® Pleated Filter

Part #	Mfg #	Size
AG0446145	0446145	15" x 20" x 1"
AG0446245	0446245	15" x 20" x 2"
AG0446140	0446140	15" x 30" x 1"
AG0446143	0446143	16" x 16" x 1"
AG0446101	0446101	16" x 20" x 1"
AG0446201	0446201	16" x 20" x 2"
AG0446401	0446401	16" x 20" x 4"
AG0446116	0446116	16" x 24" x 1"
AG0446216	0446216	16" x 24" x 2"
AG0446102	0446102	16" x 25" x 1"
AG0446202	0446202	16" x 25" x 2"
AG0446402	0446402	16" x 25" x 4"
AG0446146	0446146	16" x 30" x 1"
AG0446163	0446163	18" x 18" x 1"
AG0446180	0446180	18" x 20" x 1"
AG0446280	0446280	18" x 20" x 2"
AG0446182	0446182	18" x 22" x 1"
AG0446112	0446112	18" x 24" x 1"
AG0446212	0446212	18" x 24" x 2"
AG0446412	0446412	18" x 24" x 4"
AG0446185	0446185	18" x 25" x 1"
AG0446285	0446285	18" x 25" x 2"
AG0446103	0446103	20" x 20" x 1"
AG0446203	0446203	20" x 20" x 2"
AG0446403	0446403	20" x 20" x 4"
AG0446166	0446166	20" x 22" x 1"
AG0446111	0446111	20" x 24" x 1"
AG0446211	0446211	20" x 24" x 2"
AG0446411	0446411	20" x 24" x 4"
AG0446104	0446104	20" x 25" x 1"
AG0446204	0446204	20" x 25" x 2"
AG0446404	0446404	20" x 25" x 4"
AG0446232	0446232	20" x 30" x 2"
AG0446151	0446151	22" x 22" x 1"
AG0446105	0446105	24" x 24" x 1"
AG0446205	0446205	24" x 24" x 2"
AG0446405	0446405	24" x 24" x 4"
AG0446153	0446153	24" x 30" x 1"
AG0446125	0446125	25" x 25" x 1"
AG0446225	0446225	25" x 25" x 2"
AG0446132	0446132	30" x 20" x 1"

### DP High Efficiency Pleated Filter

- Micoglass fiber with expanded metal grid
- 2-Piece die cut, high wet strength beverage board



### DP-65

- Average arrestance 50% to 55%

Part #	Mfg #	Size
AG0450604	0450604	20" x 25" x 2"
AG0451604	0451604	20" x 25" x 4"

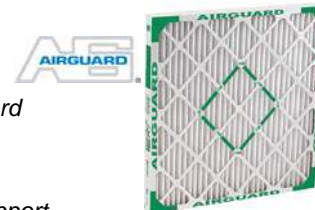
### DP-95

- Average arrestance 80% to 85%

Part #	Mfg #	Size
AG0450902	0450902	16" x 25" x 2"
AG0450904	0450904	20" x 25" x 2"

### DP-Max Pleated Filter

- *MERV 8*
- *Heavy-duty beverage board*
- *Double wall frame*
- *Water-repellent adhesive*
- *Galvanized steel pleat support*
- *Reduced pleat count for maximum economy*



Part #	Mfg #	Size
AG0450117	0450117	10" x 20" x 1"
AG0450217	0450217	10" x 20" x 2"
AG0450120	0450120	12" x 20" x 1"
AG0450220	0450220	12" x 20" x 2"
AG0450100	0450100	12" x 24" x 1"
AG0450200	0450200	12" x 24" x 2"
AG0450400	0450400	12" x 24" x 4"
AG0450700	0450700	12" x 24" x 6"
AG0450139	0450139	14" x 20" x 1"
AG0450239	0450239	14" x 20" x 2"
AG0450141	0450141	14" x 25" x 1"
AG0450241	0450241	14" x 25" x 2"
AG0450475	0450475	14-1/2" x 26-3/4" x 4"
AG0450145	0450145	15" x 20" x 1"
AG0450245	0450245	15" x 20" x 2"
AG0450143	0450143	16" x 16" x 1"
AG0450101	0450101	16" x 20" x 1"
AG0450201	0450201	16" x 20" x 2"
AG0450401	0450401	16" x 20" x 4"
AG0450701	0450701	16" x 20" x 6"



# Media & Air Filters

## Pleated Panel Filters (Continued)

### DP-Max Pleated Filter

Part #	Mfg #	Size
AG0450216	0450216	16" x 24" x 2"
AG0450102	0450102	16" x 25" x 1"
AG0450202	0450202	16" x 25" x 2"
AG0450402	0450402	16" x 25" x 4"
AG0450702	0450702	16" x 25" x 6"
AG0450257	0450257	18" x 20" x 2"
AG0450112	0450112	18" x 24" x 1"
AG0450255	0450255	18" x 24" x 2"
AG0450455	0450455	18" x 24" x 4"
AG0450755	0450755	18" x 24" x 6"
AG0450185	0450185	18" x 25" x 1"
AG0450256	0450256	18" x 25" x 2"
AG0450103	0450103	20" x 20" x 1"
AG0450203	0450203	20" x 20" x 2"
AG0450403	0450403	20" x 20" x 4"
AG0450703	0450703	20" x 20" x 6"
AG0450263	0450263	20" x 24" x 2"
AG0450463	0450463	20" x 24" x 4"
AG0450706	0450706	20" x 24" x 6"
AG0450104	0450104	20" x 25" x 1"
AG0450204	0450204	20" x 25" x 2"
AG0450404	0450404	20" x 25" x 4"
AG0450704	0450704	20" x 25" x 6"
AG0450405	0450405	24" x 24" x 4"
AG0450105	0450105	24" x 24" x 1"
AG0450205	0450205	24" x 24" x 2"
AG0450705	0450705	24" x 24" x 6"
AG 0450125	0450125	25" x 25" x 1"
AG0450225	0450225	25" x 25" x 2"
AG0450132	0450132	30" x 20" x 1"

### DP® Pleated Filter

- *MERV 8*
- *100% Synthetic fibers*
- *Heavy-duty beverage board frame*
- *2-Piece frame construction*
- *Galvanized steel pleat support*
- *14.0 Pleats per foot on 1"*



Part #	Mfg #	Size
AG0412117	0412117	10" x 20" x 1"
AG0422217	0422217	10" x 20" x 2"
AG0412120	0412120	12" x 20" x 1"

## Pleated Panel Filters (Continued)

### DP® Pleated Filter

Part #	Mfg #	Size
AG0422199	0422199	12" x 20" x 2"
AG0412100	0412100	12" x 24" x 1"
AG0422200	0422200	12" x 24" x 2"
AG0430400	0430400	12" x 24" x 4"
AG0412139	0412139	14" x 20" x 1"
AG0422239	0422239	14" x 20" x 2"
AG0412141	0412141	14" x 25" x 1"
AG0422241	0422241	14" x 25" x 2"
AG0412145	0412145	15" x 20" x 1"
AG0422245	0422245	15" x 20" x 2"
AG0412143	0412143	16" x 16" x 1"
AG0412101	0412101	16" x 20" x 1"
AG0422201	0422201	16" x 20" x 2"
AG0430401	0430401	16" x 20" x 4"
AG0422116	0422116	16" x 24" x 2"
AG0412102	0412102	16" x 25" x 1"
AG0422202	0422202	16" x 25" x 2"
AG0430402	0430402	16" x 25" x 4"
AG0422256	0422256	18" x 20" x 2"
AG0412112	0412112	18" x 24" x 1"
AG0422206	0422206	18" x 24" x 2"
AG0430455	0430455	18" x 24" x 4"
AG0412185	0412185	18" x 25" x 1"
AG0422255	0422255	18" x 25" x 2"
AG0412103	0412103	20" x 20" x 1"
AG0422203	0422203	20" x 20" x 2"
AG0430403	0430403	20" x 20" x 4"
AG0422207	0422207	20" x 24" x 2"
AG0430463	0430463	20" x 24" x 4"
AG0412104	0412104	20" x 25" x 1"
AG0422204	0422204	20" x 25" x 2"
AG0430404	0430404	20" x 25" x 4"
AG0412105	0412105	24" x 24" x 1"
AG0422205	0422205	24" x 24" x 2"
AG0430405	0430405	24" x 24" x 4"
AG0412125	0412125	25" x 25" x 1"
AG0422208	0422208	25" x 25" x 2"
AG0430479	0430479	28-1/2" x 24-1/2" x 4"
AG0412132	0412132	30" x 20" x 1"
AG0430480	0430480	30" x 28" x 4"

# Media & Air Filters

## DP® Specialized Pleated Filter



- MERV 8
- Microglass media with expanded metal grid
- Fire retardant adhesive seals media inside frame
- Pleat count: 14 per inch
- 2-Piece die cut, fire retardant fiber board frame construction
- Classified per UL standard 900



Part #	Mfg #	Size
AG0470463	0470463	20" x 20" x 4"

## DP-SA Side Access Pleated Filter



- MERV 8
- 100% Non-woven synthetic fibers
- For use in side access housings with a 1" track
- Classified per UL Standard 900
- High wet strength beverage board with 3/4" header



Part #	Mfg #	Size
AG0431202	0431202	24" x 24" x 4"

## PowerGuard™ Pleated Panel Filter



- MERV 11
- 100% Synthetic needled, electrostatically charged fiber
- Moisture resistant beverage board
- Galvanized steel pleat support grid



Part #	Mfg #	Size
AG0483117	0483117	10" x 20" x 1"
AG0483217	0483217	10" x 20" x 2"
AG0483120	0483120	12" x 20" x 1"
AG0483220	0483220	12" x 20" x 2"
AG0483110	0483110	12" x 24" x 1"
AG0483210	0483210	12" x 24" x 2"
AG0483410	0483410	12" x 24" x 4"
AG0483139	0483139	14" x 20" x 1"
AG0483239	0483239	14" x 20" x 2"
AG0483141	0483141	14" x 25" x 1"
AG0483241	0483241	14" x 25" x 2"
AG0483498	0483498	14-1/2" x 26-3/4" x 4"
AG0483145	0483145	15" x 20" x 1"
AG0483245	0483245	15" x 20" x 2"
AG0483101	0483101	16" x 20" x 1"

## Pleated Panel Filters (Continued)

### PowerGuard™ Pleated Panel Filter

Part #	Mfg #	Size
AG0483201	0483201	16" x 20" x 2"
AG0483401	0483401	16" x 20" x 4"
AG0483216	0483216	16" x 24" x 2"
AG0483102	0483102	16" x 25" x 1"
AG0483202	0483202	16" x 25" x 2"
AG0483402	0483402	16" x 25" x 4"
AG0483280	0483280	18" x 20" x 2"
AG0483112	0483112	18" x 24" x 1"
AG0483212	0483212	18" x 24" x 2"
AG0483412	0483412	18" x 24" x 4"
AG0483185	0483185	18" x 25" x 1"
AG0483285	0483285	18" x 25" x 2"
AG0483103	0483103	20" x 20" x 1"
AG0483203	0483203	20" x 20" x 2"
AG0483403	0483403	20" x 20" x 4"
AG0483211	0483211	20" x 24" x 2"
AG0483411	0483411	20" x 24" x 4"
AG0483104	0483104	20" x 25" x 1"
AG0483204	0483204	20" x 25" x 2"
AG0483404	0483404	20" x 25" x 4"
AG0483105	0483105	24" x 24" x 1"
AG0483205	0483205	24" x 24" x 2"
AG0483405	0483405	24" x 24" x 4"
AG0483125	0483125	25" x 25" x 1"
AG0483225	0483225	25" x 25" x 2"

## X-treme+Plus® High-Capacity Pleated Filter

- MERV 8
- 100% Synthetic media
- Single-piece, heavy-duty beverage board frame
- Self-supported
- Water-repellent adhesive
- Moisture and damage-resistant
- Seven-strap die cut



Part #	Mfg #	Size
AG0474417	0474417	10" x 20" x 1"
AG0474517	0474517	10" x 20" x 2"
AG0474424	0474424	10" x 24" x 1"
AG0474422	0474422	12" x 12" x 1"
AG0474420	0474420	12" x 20" x 1"

## Media & Air Filters

### Pleated Panel Filters (Continued)

#### X-treme+Plus® High-Capacity Pleated Filter

Part #	Mfg #	Size
AG0474520	0474520	12" x 20" x 2"
AG0474410	0474410	12" x 24" x 1"
AG0474510	0474510	12" x 24" x 2"
AG0474610	0474610	12" x 24" x 4"
AG0474433	0474433	14" x 14" x 1"
AG0474439	0474439	14" x 20" x 1"
AG0474539	0474539	14" x 20" x 2"
AG0474459	0474459	14" x 24" x 1"
AG0474441	0474441	14" x 25" x 1"
AG0474541	0474541	14" x 25" x 2"
AG0474437	0474437	14" x 30" x 1"
AG0474445	0474445	15" x 20" x 1"
AG0474545	0474545	15" x 20" x 2"
AG0474443	0474443	16" x 16" x 1"
AG0474543	0474543	16" x 16" x 2"
AG0474401	0474401	16" x 20" x 1"
AG0474501	0474501	16" x 20" x 2"
AG0474601	0474601	16" x 20" x 4"
AG0474416	0474416	16" x 24" x 1"
AG0474516	0474516	16" x 24" x 2"
AG0474402	0474402	16" x 25" x 1"
AG0474502	0474502	16" x 25" x 2"
AG0474602	0474602	16" x 25" x 4"
AG0474446	0474446	16" x 30" x 1"
AG0474463	0474463	18" x 18" x 1"
AG0474563	0474563	18" x 18" x 2"
AG0474480	0474480	18" x 20" x 1"
AG0474580	0474580	18" x 20" x 2"
AG0474412	0474412	18" x 24" x 1"
AG0474512	0474512	18" x 24" x 2"
AG0474612	0474612	18" x 24" x 4"
AG0474485	0474485	18" x 25" x 1"
AG0474585	0474585	18" x 25" x 2"
AG0474403	0474403	20" x 20" x 1"
AG0474503	0474503	20" x 20" x 2"
AG0474603	0474603	20" x 20" x 4"
AG0474466	0474466	20" x 22" x 1"
AG0474411	0474411	20" x 24" x 1"
AG0474511	0474511	20" x 24" x 2"
AG0474611	0474611	20" x 24" x 4"
AG0474404	0474404	20" x 25" x 1"

### Pleated Panel Filters (Continued)

#### X-treme+Plus® High-Capacity Pleated Filter

Part #	Mfg #	Size
AG0474504	0474504	20" x 25" x 2"
AG0474604	0474604	20" x 25" x 4"
AG0474432	0474432	20" x 30" x 1"
AG0474532	0474532	20" x 30" x 2"
AG0474405	0474405	24" x 24" x 1"
AG0474505	0474505	24" x 24" x 2"
AG0474605	0474605	24" x 24" x 4"
AG0474453	0474453	24" x 30" x 1"
AG0474425	0474425	25" x 25" x 1"
AG0474525	0474525	25" x 25" x 2"

#### X-treme+Plus® Standard-Capacity Pleated Filter

- MERV 8
- 100% Synthetic media
- Single-piece, heavy-duty beverage board frame
- Self-supported
- Water-repellent adhesive
- Moisture and damage resistant
- Seven-strap die cut



Part #	Mfg #	Size
AG0474717	0474717	10" x 20" x 1"
AG0474817	0474817	10" x 20" x 2"
AG0474724	0474724	10" x 24" x 1"
AG0474722	0474722	12" x 12" x 1"
AG0474720	0474720	12" x 20" x 1"
AG0474820	0474820	12" x 20" x 2"
AG0474710	0474710	12" x 24" x 1"
AG0474810	0474810	12" x 24" x 2"
AG0474733	0474733	14" x 14" x 1"
AG0474739	0474739	14" x 20" x 1"
AG0474839	0474839	14" x 20" x 2"
AG0474759	0474759	14" x 24" x 1"
AG0474741	0474741	14" x 25" x 1"
AG0474841	0474841	14" x 25" x 2"
AG0474737	0474737	14" x 30" x 1"
AG0474745	0474745	15" x 20" x 1"
AG0474845	0474845	15" x 20" x 2"
AG0474743	0474743	16" x 16" x 1"
AG0474843	0474843	16" x 16" x 2"
AG0474701	0474701	16" x 20" x 1"



# Media & Air Filters

## Pleated Panel Filters (Continued)

### X-treme+Plus® Standard-Capacity Pleated Filter

Part #	Mfg #	Size
AG0474801	0474801	16" x 20" x 2"
AG0474716	0474716	16" x 24" x 1"
AG0474816	0474816	16" x 24" x 2"
AG0474702	0474702	16" x 25" x 1"
AG0474802	0474802	16" x 25" x 2"
AG0474746	0474746	16" x 30" x 1"
AG0474763	0474763	18" x 18" x 1"
AG0474863	0474863	18" x 18" x 2"
AG0474780	0474780	18" x 20" x 1"
AG0474880	0474880	18" x 20" x 2"
AG0474712	0474712	18" x 24" x 1"
AG0474812	0474812	18" x 24" x 2"
AG0474785	0474785	18" x 25" x 1"
AG0474885	0474885	18" x 25" x 2"
AG0474703	0474703	20" x 20" x 1"
AG0474803	0474803	20" x 20" x 2"
AG0474766	0474766	20" x 22" x 1"
AG0474711	0474711	20" x 24" x 1"
AG0474811	0474811	20" x 24" x 2"
AG0474704	0474704	20" x 25" x 1"
AG0474804	0474804	20" x 25" x 2"
AG0474732	0474732	20" x 30" x 1"
AG0474832	0474832	20" x 30" x 2"
AG0474705	0474705	24" x 24" x 1"
AG0474805	0474805	24" x 24" x 2"
AG0474753	0474753	24" x 30" x 1"
AG0474725	0474725	25" x 25" x 1"
AG0474825	0474825	25" x 25" x 2"

## Replacement Filters

### Air Bear® Replacement Filter

- MERV 8



Part #	Mfg #	Description
AG5096532661	5096532661	16" x 25" x 3" Replaces 229990-101
AG5096578907	5096578907	20" x 25" x 5" Replaces 229990-102

### Honeywell® Replacement Filter

- MERV 8



Part #	Mfg #	Description
AG5096532662	5096532662	16" x 25" x 5" Replaces 203719
AG5096532663	5096532663	20" x 20" x 5" Replaces 203721
AG5096532664	5096532664	20" x 25" x 5" Replaces 203720

### Series AG Element Replacement Filter

- For use with Farr HP Series internally supported filter systems
- Preformed pleats



Part #	Mfg #	Description
AG0221205	0221205	24" x 24" x 12", MERV 11
AG0223205	0223205	24" x 24" x 12", MERV 14



Don't see what you are looking for? We carry thousands of other items. Check with your local parts center.

# Media & Air Filters

## Rigid Cell Filters

### Legacy® High-Efficiency Rigid Cell Filter

- 100% Synthetic media
- All plastic construction
- Low initial resistance
- E-pleat® technology



#### MERV 11

Part #	Mfg #	Description
AG1122503	1122503	12" x 24" x 4" less Header
AG1123403	1123403	12" x 24" x 4" with Header
AG1122540	1122540	12" x 24" x 12" less Header
AG1122603	1122603	12" x 24" x 12" with Header
AG1122509	1122509	16" x 20" x 4" less Header
AG1122510	1122510	16" x 25" x 4" less Header
AG1122513	1122513	20" x 20" x 4" less Header
AG1123413	1123413	20" x 20" x 4" with Header
AG1122543	1122543	20" x 20" x 12" less Header
AG1122613	1122613	20" x 20" x 12" with Header
AG1122515	1122515	20" x 24" x 4" less Header
AG1123415	1123415	20" x 24" x 4" with Header
AG1122544	1122544	20" x 24" x 12" less Header
AG1122615	1122615	20" x 24" x 12" with Header
AG1122512	1122512	20" x 25" x 4" less Header
AG1122504	1122504	24" x 24" x 4" less Header
AG1123404	1123404	24" x 24" x 4" with Header
AG1122546	1122546	24" x 24" x 12" less Header
AG1122604	1122604	24" x 24" x 12" with Header

#### MERV 15

Part #	Mfg #	Description
AG1122140	1122140	12" x 24" x 12" less Header
AG1122040	1122040	12" x 24" x 12" with Header
AG1122143	1122143	20" x 20" x 12" less Header
AG1122043	1122043	20" x 20" x 12" with Header
AG1122144	1122144	20" x 24" x 12" less Header
AG1122044	1122044	20" x 24" x 12" with Header
AG1122146	1122146	24" x 24" x 12" less Header
AG1122046	1122046	24" x 24" x 12" with Header

## Variflow® II-M/ II-MC Rigid Cell Filter

- Durable corrosion resistant steel cell sides
- Expanded metal faceguard on air leaving side
- Moisture resistant
- Adhesive bead separators
- Maximum operating temperature: 170°F
- UL Class 2



#### MERV 11

Part #	Mfg #	Description
AG1040622	1040622	12" x 12" x 4" Box Style less Header
AG1020601	1020601	12" x 24" x 2" Box Style less Header
AG1040601	1040601	12" x 24" x 4" Box Style less Header
AG1018603	1018603	12" x 24" x 4" Single Header
AG1040609	1040609	16" x 20" x 4" Box Style less Header
AG1020613	1020613	20" x 20" x 2" Box Style less Header
AG1018613	1018613	20" x 20" x 4" Single Header
AG1018615	1018615	20" x 24" x 4" Single Header
AG1020612	1020612	20" x 25" x 2" Box Style less Header
AG1040612	1040612	20" x 25" x 4" Box Style less Header
AG1020602	1020602	24" x 24" x 2" Box Style less Header
AG1040602	1040602	24" x 24" x 4" Box Style less Header
AG1018604	1018604	24" x 24" x 4" Single Header

#### MERV 14

Part #	Mfg #	Description
AG1040951	1040951	12" x 12" x 4" Box Style less Header
AG1020901	1020901	12" x 24" x 2" Box Style less Header
AG1040901	1040901	12" x 24" x 4" Box Style less Header
AG1018903	1018903	12" x 24" x 4" Single Header
AG1040916	1040916	20" x 20" x 4" Box Style less Header
AG1018913	1018913	20" x 20" x 4" Single Header
AG1020911	1020911	24" x 18" x 2" Box Style less Header
AG1018915	1018915	24" x 20" x 4" Single Header
AG1020902	1020902	24" x 24" x 2" Box Style less Header
AG1040902	1040902	24" x 24" x 4" Box Style less Header
AG1018904	1018904	24" x 24" x 4" Single Header



# Media & Air Filters

## Variflow™ Rigid Cell Filter

- For variable volume systems and difficult operating conditions
- Water resistant microglass paper media
- High temperature applications
- Metal models UL class 1
- Particle board models UL class 2



## MERV 11 Metal

- Average arrestance 60% to 65%

Part #	Mfg #	Description
AG2601094	2601094	12" x 24" x 6", Single Header
AG2608883	2608883	12" x 24" x 6", Double Header
AG2606508	2606508	12" x 24" x 12", Box Style less Header
AG2600910	2600910	12" x 24" x 12", Single Header
AG2605910	2605910	12" x 24" x 12", Double Header
AG2605612	2605612	16" x 20" x 6", Box Style less Header
AG2604678	2604678	16" x 20" x 6", Double Header
AG2605170	2605170	16" x 20" x 12", Box Style less Header
AG2605863	2605863	16" x 25" x 6", Single Header
AG2604389	2604389	16" x 25" x 12", Box Style less Header
AG2601577	2601577	18" x 24" x 6", Single Header
AG2604677	2604677	18" x 24" x 6", Double Header
AG2604525	2604525	18" x 24" x 12", Single Header
AG2605115	2605115	20" x 20" x 6", Box Style less Header
AG2600905	2600905	20" x 20" x 6", Single Header
AG2604591	2604591	20" x 20" x 12", Single Header
AG2606519	2606519	20" x 20" x 12", Double Header
AG2605002	2605002	20" x 24" x 6", Box Style less Header
AG2604668	2604668	20" x 24" x 6", Single Header
AG2604679	2604679	20" x 24" x 12", Box Style less Header
AG2604953	2604953	20" x 24" x 12", Single Header
AG2606762	2606762	20" x 24" x 12", Double Header
AG2606210	2606210	20" x 25" x 6", Single Header
AG2604736	2604736	20" x 25" x 6", Double Header

## Rigid Cell Filters (Continued)

### Variflow™ Rigid Cell Filter

#### MERV 11 Metal

Part #	Mfg #	Description
AG2605173	2605173	20" x 25" x 12", Box Style less Header
AG2605159	2605159	20" x 25" x 12", Single Header
AG2602904	2602904	24" x 24" x 6", Box Style less Header
AG2601092	2601092	24" x 24" x 6", Single Header
AG2604737	2604737	24" x 24" x 6", Double Header
AG2604734	2604734	24" x 24" x 12", Box Style less Header
AG2601093	2601093	24" x 24" x 12", Single Header
AG2600916	2600916	24" x 24" x 12", Double Header

#### MERV 13 Metal

- Average arrestance 80% to 85%

Part #	Mfg #	Description
AG2805135	2805135	12" x 24" x 6", Box Style less Header
AG2801127	2801127	12" x 24" x 6", Single Header
AG2801572	2801572	12" x 24" x 6", Double Header
AG2803232	2803232	12" x 24" x 12", Box Style less Header
AG2801007	2801007	12" x 24" x 12", Single Header
AG2803923	2803923	12" x 24" x 12", Double Header
AG2802341	2802341	16" x 20" x 6", Single Header
AG2801645	2801645	16" x 20" x 12", Single Header
AG2806378	2806378	16" x 25" x 6", Single Header
AG2805175	2805175	16" x 25" x 12", Single Header
AG2807368	2807368	18" x 24" x 6", Box Style less Header
AG2805120	2805120	18" x 24" x 6", Double Header
AG2805174	2805174	18" x 24" x 12", Single Header
AG2806078	2806078	18" x 24" x 12", Double Header
AG2805632	2805632	20" x 20" x 6", Single Header
AG2806106	2806106	20" x 20" x 6", Double Header
AG2804506	2804506	20" x 20" x 12", Box Style less Header
AG2803104	2803104	20" x 20" x 12", Single Header
AG2803629	2803629	20" x 20" x 12", Double Header
AG2805931	2805931	20" x 24" x 6", Box Style less Header
AG2802183	2802183	20" x 24" x 6", Single Header
AG2805059	2805059	20" x 24" x 12", Box Style less Header
AG2805335	2805335	20" x 24" x 12", Double Header
AG2806077	2806077	20" x 25" x 6", Single Header

# Media & Air Filters

## Rigid Cell Filters (Continued)

### Variflow™ Rigid Cell Filter

#### MERV 13 Metal

Part #	Mfg #	Description
AG2808975	2808975	20" x 25" x 6", Double Header
AG2805607	2805607	20" x 25" x 12", Box Style less Header
AG2802517	2802517	20" x 25" x 12", Single Header
AG2807062	2807062	20" x 25" x 12", Double Header
AG2801448	2801448	24" x 20" x 12", Single Header
AG2807155	2807155	24" x 24" x 6", Box Style less Header
AG2800836	2800836	24" x 24" x 6", Single Header
AG2805119	2805119	24" x 24" x 6", Double Header
AG2801559	2801559	24" x 24" x 12", Box Style less Header
AG2801006	2801006	24" x 24" x 12", Single Header
AG2800267	2800267	24" x 24" x 12", Double Header
AG2807493	2807493	25" x 16" x 6", Single Header

#### MERV 14 Metal

- Average arrestance 90% to 95%

Part #	Mfg #	Description
AG2905445	2905445	12" x 24" x 6", Box Style less Header
AG2900150	2900150	12" x 24" x 6", Single Header
AG2902628	2902628	12" x 24" x 6", Double Header
AG2902099	2902099	12" x 24" x 12", Box Style less Header
AG2901754	2901754	12" x 24" x 12", Double Header
AG2905168	2905168	16" x 20" x 6", Box Style less Header
AG2903209	2903209	16" x 20" x 6", Single Header
AG2904786	2904786	16" x 20" x 6", Double Header
AG2905068	2905068	16" x 20" x 12", Box Style less Header
AG2904448	2904448	16" x 20" x 12", Double Header
AG2906363	2906363	16" x 25" x 6", Single Header
AG2905622	2905622	16" x 25" x 12", Box Style less Header
AG2905246	2905246	16" x 25" x 12", Double Header
AG2904781	2904781	18" x 24" x 6", Double Header
AG2905216	2905216	18" x 24" x 12", Box Style less Header
AG2902352	2902352	18" x 24" x 12", Single Header
AG2904676	2904676	20" x 16" x 12", Single Header
AG2905137	2905137	20" x 20" x 6", Box Style less Header
AG2900875	2900875	20" x 20" x 6", Single Header

## Rigid Cell Filters (Continued)

### Variflow™ Rigid Cell Filter

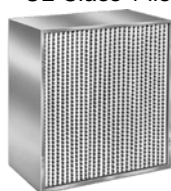
#### MERV 14 Metal

Part #	Mfg #	Description
AG2902242	2902242	20" x 20" x 12", Single Header
AG2902370	2902370	20" x 20" x 12", Double Header
AG2904526	2904526	20" x 20" x 20", Box Style less Header
AG2904583	2904583	20" x 24" x 6", Box Style less Header
AG2901332	2901332	20" x 24" x 6", Single Header
AG2905867	2905867	20" x 24" x 6", Double Header
AG2904459	2904459	20" x 24" x 12", Box Style less Header
AG2901755	2901755	20" x 24" x 12", Double Header
AG2905169	2905169	20" x 25" x 6", Box Style less Header
AG2904661	2904661	20" x 25" x 6", Single Header
AG2904785	2904785	20" x 25" x 6", Double Header
AG2904623	2904623	20" x 25" x 12", Box Style less Header
AG2905158	2905158	20" x 25" x 12", Single Header
AG2905522	2905522	20" x 25" x 12", Double Header
AG2900658	2900658	24" x 12" x 12", Single Header
AG2901350	2901350	24" x 20" x 12", Single Header
AG2904477	2904477	24" x 24" x 6", Box Style less Header
AG2900576	2900576	24" x 24" x 6", Single Header
AG2900203	2900203	24" x 24" x 6", Double Header
AG2903525	2903525	24" x 24" x 12", Box Style less Header
AG2900134	2900134	24" x 24" x 12", Single Header
AG2900892	2900892	24" x 24" x 12", Double Header

# Media & Air Filters

## Variflow™ SC Rigid Cell Filter

- For variable volume systems and difficult operating conditions
- Water resistant microglass paper media
- UL Class 1 listed



VSC-MA



VSC-MB



VSC-MC

## MERV 11 Metal

- Average arrestance 60% to 65%

Part #	Mfg #	Description
AG2605066	2605066	12" x 24" x 6", Box Style less Header
AG2601036	2601036	12" x 24" x 6", Single Header
AG2600512	2600512	12" x 24" x 12", Single Header
AG2604449	2604449	12" x 24" x 12", Double Header
AG2600407	2600407	16" x 20" x 6", Double Header
AG2600341	2600341	16" x 20" x 6", Double Header
AG2605197	2605197	16" x 20" x 12", Box Style less Header
AG2600339	2600339	16" x 20" x 12", Single Header
AG2608809	2608809	16" x 20" x 12", Double Header
AG2600343	2600343	16" x 24" x 6", Single Header
AG2605627	2605627	16" x 25" x 6", Box Style less Header
AG2607157	2607157	16" x 25" x 6", Single Header
AG2605644	2605644	16" x 25" x 6", Double Header
AG2605651	2605651	16" x 25" x 12", Box Style less Header
AG2606756	2606756	16" x 25" x 12", Single Header
AG2607694	2607694	16" x 25" x 12", Double Header
AG2607234	2607234	18" x 24" x 12", Box Style less Header
AG2607233	2607233	18" x 24" x 12", Single Header
AG2607423	2607423	20" x 16" x 6", Single Header
AG2604305	2604305	20" x 20" x 6", Box Style less Header
AG2600333	2600333	20" x 20" x 6", Single Header
AG2608031	2608031	20" x 20" x 12", Box Style less Header
AG2604071	2604071	20" x 20" x 12" Box Style less Header
AG2600516	2600516	20" x 20" x 12", Single Header
AG2606506	2606506	20" x 20" x 12", Double Header
AG2605067	2605067	20" x 24" x 6", Box Style less Header
AG2605624	2605624	20" x 24" x 6", Single Header

## Rigid Cell Filters (Continued)

### Variflow™ SC Rigid Cell Filter

#### MERV 11 Metal

Part #	Mfg #	Description
AG2605826	2605826	20" x 25" x 6", Box Style less Header
AG2607158	2607158	20" x 25" x 6", Single Header
AG2601598	2601598	20" x 25" x 6", Double Header
AG2605211	2605211	20" x 25" x 12" Box Style less Header
AG2606900	2606900	20" x 25" x 12", Single Header
AG2604476	2604476	24" x 12" x 12", Box Style less Header
AG2605637	2605637	24" x 20" x 12", Box Style less Header
AG2601576	2601576	24" x 20" x 12", Single Header
AG2608722	2608722	24" x 20" x 12", Double Header
AG2607145	2607145	24" x 24" x 6", Box Style less Header
AG2600182	2600182	24" x 24" x 6", Single Header
AG2602191	2602191	24" x 24" x 6", Double Header
AG2602118	2602118	24" x 24" x 12", Box Style less Header
AG2600181	2600181	24" x 24" x 12", Single Header
AG2602273	2602273	24" x 24" x 12", Double Header

#### MERV 13 Metal

- Average arrestance 80% to 85%

Part #	Mfg #	Description
AG2807042	2807042	12" x 24" x 6", Box Style less Header
AG2801028	2801028	12" x 24" x 6", Single Header
AG2802844	2802844	12" x 24" x 12", Box Style less Header
AG2801907	2801907	12" x 24" x 12", Double Header
AG2805640	2805640	16" x 20" x 6", Single Header
AG2806750	2806750	16" x 20" x 12", Box Style less Header
AG2802534	2802534	16" x 25" x 12", Single Header
AG2807627	2807627	18" x 24" x 6", Double Header
AG2802764	2802764	18" x 24" x 12", Single Header
AG2801626	2801626	20" x 16" x 12", Single Header
AG2801321	2801321	20" x 20" x 6", Single Header
AG2807151	2807151	20" x 20" x 12", Box Style less Header
AG2801855	2801855	20" x 20" x 12", Single Header
AG2800833	2800833	20" x 24" x 6", Single Header
AG2807763	2807763	20" x 24" x 12", Double Header
AG2807494	2807494	20" x 25" x 12", Single Header

# Media & Air Filters

## Rigid Cell Filters (Continued)

### Variflow™ SC Rigid Cell Filter

#### MERV 13 Metal

Part #	Mfg #	Description
AG2803195	2803195	20" x 25" x 12", Single Header
AG2800179	2800179	24" x 12" x 12", Single Header
AG2801217	2801217	24" x 20" x 12", Single Header
AG2806878	2806878	24" x 24" x 6", Double Header
AG2800373	2800373	24" x 24" x 12", Box Style less Header
AG2800837	2800837	24" x 24" x 12", Single Header
AG2800131	2800131	24" x 24" x 12", Single Header
AG2801906	2801906	24" x 24" x 12", Double Header

#### MERV 14 Metal

- Average arrestance 90% to 95%

Part #	Mfg #	Description
AG2905897	2905897	12" x 24" x 6", Box Style less Header
AG2901040	2901040	12" x 24" x 6", Single Header
AG2905916	2905916	12" x 24" x 6", Double Header
AG2904330	2904330	12" x 24" x 12", Double Header
AG2906029	2906029	16" x 20" x 6", Single Header
AG2907029	2907029	16" x 20" x 6", Double Header
AG2906336	2906336	16" x 20" x 12", Box Style less Header
AG2903754	2903754	16" x 20" x 12", Double Header
AG2907456	2907456	16" x 25" x 6", Box Style less Header
AG2905633	2905633	16" x 25" x 6", Single Header
AG2907022	2907022	16" x 25" x 6", Double Header
AG2906335	2906335	16" x 25" x 12", Box Style less Header
AG2907020	2907020	16" x 25" x 12", Double Header
AG2906939	2906939	18" x 24" x 6", Box Style less Header
AG2907023	2907023	18" x 24" x 6", Single Header
AG2903351	2903351	18" x 24" x 6", Double Header
AG2906212	2906212	18" x 24" x 12", Box Style less Header
AG2903676	2903676	18" x 24" x 12", Single Header
AG2905453	2905453	18" x 24" x 12", Double Header
AG2908088	2908088	18" x 26" x 6", Box Style less Header
AG2901082	2901082	20" x 16" x 12", Single Header
AG2905618	2905618	20" x 20" x 6", Box Style less Header
AG2900876	2900876	20" x 20" x 6", Single Header
AG2907015	2907015	20" x 20" x 6", Double Header

## Rigid Cell Filters (Continued)

### Variflow™ SC Rigid Cell Filter

#### MERV 14 Metal

Part #	Mfg #	Description
AG2902949	2902949	20" x 20" x 12", Box Style less Header
AG2901083	2901083	20" x 20" x 12", Single Header
AG2903738	2903738	20" x 20" x 12", Double Header
AG2905162	2905162	20" x 24" x 6", Box Style less Header
AG2906315	2906315	20" x 24" x 6", Single Header
AG2907028	2907028	20" x 24" x 6", Double Header
AG2906879	2906879	20" x 24" x 12", Box Style less Header
AG2902017	2902017	20" x 24" x 12", Double Header
AG2905442	2905442	20" x 25" x 6", Single Header
AG2906213	2906213	20" x 25" x 12", Box Style less Header
AG2908864	2908864	20" x 25" x 12", Double Header
AG2901863	2901863	24" x 12" x 12", Box Style less Header
AG2900879	2900879	24" x 12" x 12", Single Header
AG2900675	2900675	24" x 20" x 12", Single Header
AG2904808	2904808	24" x 24" x 6", Box Style less Header
AG2904534	2904534	24" x 24" x 6", Single Header
AG2903283	2903283	24" x 24" x 6", Double Header
AG2901122	2901122	24" x 24" x 12", Box Style less Header
AG2900632	2900632	24" x 24" x 12", Single Header
AG2900319	2900319	24" x 24" x 12", Double Header
AG2903019	2903019	25" x 16" x 12", Single Header
AG2902593	2902593	25" x 20" x 12", Single Header



# Media & Air Filters

## Vari-Pak® Rigid Cell Filter

- For variable volume systems
- Low resistance
- High loft microfine media
- Available with microglass or synthetic media



## MERV 10 Synthetic

- Average arrestance 50% to 55%

Part #	Mfg #	Description
AG1154514	1154514	20" x 20" x 6" less Header
AG1155513	1155513	20" x 20" x 12" with Header
AG1154501	1154501	24" x 12" x 6" less Header
AG1155501	1155501	24" x 12" x 6" with Header
AG1154503	1154503	24" x 12" x 12" less Header
AG1155503	1155503	24" x 12" x 12" with Header
AG1154515	1154515	24" x 20" x 12" less Header
AG1155515	1155515	24" x 20" x 12" with Header
AG1154502	1154502	24" x 24" x 6" less Header
AG1155502	1155502	24" x 24" x 6" with Header
AG1154504	1154504	24" x 24" x 12" less Header
AG1155504	1155504	24" x 24" x 12" with Header

## MERV 10 Microglass

- Average arrestance 50% to 55%

Part #	Mfg #	Description
AG1173514	1173514	20" x 20" x 6" less Header
AG1174514	1174514	20" x 20" x 6" with Header
AG1173513	1173513	20" x 20" x 12" less Header
AG1174513	1174513	20" x 20" x 12" with Header
AG1173501	1173501	24" x 12" x 6" less Header
AG1174501	1174501	24" x 12" x 6" with Header
AG1173503	1173503	24" x 12" x 12" less Header
AG1174503	1174503	24" x 12" x 12" with Header
AG1173515	1173515	24" x 20" x 12" less Header
AG1174515	1174515	24" x 20" x 12" with Header
AG1173502	1173502	24" x 24" x 6" less Header
AG1174502	1174502	24" x 24" x 6" with Header
AG1173504	1173504	24" x 24" x 12" less Header
AG1174504	1174504	24" x 24" x 12" with Header

## MERV 11 Synthetic

- Average arrestance 60% to 65%

Part #	Mfg #	Description
AG1154614	1154614	20" x 20" x 6" less Header
AG1155614	1155614	20" x 20" x 6" with Header
AG1154613	1154613	20" x 20" x 12" less Header
AG1155613	1155613	20" x 20" x 12" with Header
AG1154601	1154601	24" x 12" x 6" less Header
AG1155601	1155601	24" x 12" x 6" with Header
AG1154603	1154603	24" x 12" x 12", less Header
AG1155603	1155603	24" x 12" x 12", with Header
AG1154615	1154615	24" x 20" x 12" less Header
AG1155615	1155615	24" x 20" x 12" with Header
AG1154602	1154602	24" x 24" x 6" less Header
AG1155602	1155602	24" x 24" x 6" with Header
AG1154604	1154604	24" x 24" x 12" less Header
AG1155604	1155604	24" x 24" x 12" with Header

## MERV 11 Microglass

- Average arrestance 60% to 65%

Part #	Mfg #	Description
AG1173614	1173614	20" x 20" x 6" less Header
AG1174614	1174614	20" x 20" x 6" with Header
AG1173613	1173613	20" x 20" x 12" less Header
AG1174613	1174613	20" x 20" x 12" with Header
AG1173601	1173601	24" x 12" x 6" less Header
AG1174601	1174601	24" x 12" x 6" with Header
AG1173603	1173603	24" x 12" x 12" less Header
AG1174603	1174603	24" x 12" x 12" with Header
AG1173615	1173615	24" x 20" x 12" less Header
AG1173602	1173602	24" x 24" x 6" less Header
AG1174602	1174602	24" x 24" x 6" with Header
AG1173604	1173604	24" x 24" x 12" less Header
AG1174604	1174604	24" x 24" x 12" with Header



# Media & Air Filters

## MERV 13 Synthetic

- Average arrestance 80% to 85%

Part #	Mfg #	Description
AG1154814	1154814	20" x 20" x 6" less Header
AG1155813	1155813	20" x 20" x 12" less Header
AG1154801	1154801	24" x 12" x 6" less Header
AG1155801	1155801	24" x 12" x 6" with Header
AG1154803	1154803	24" x 12" x 12" less Header
AG1155803	1155803	24" x 12" x 12" with Header
AG1155815	1155815	24" x 20" x 12" less Header
AG1154813	1154813	24" x 20" x 12" with Header
AG1154802	1154802	24" x 24" x 6" less Header
AG1155802	1155802	24" x 24" x 6" with Header
AG1154804	1154804	24" x 24" x 12" less Header
AG1155804	1155804	24" x 24" x 12" with Header

## MERV 13 Microglass

- Average arrestance 80% to 85%

Part #	Mfg #	Description
AG1173814	1173814	20" x 20" x 6" less Header
AG1174814	1174814	20" x 20" x 6" with Header
AG1173813	1173813	20" x 20" x 12" less Header
AG1174813	1174813	20" x 20" x 12" with Header
AG1173801	1173801	24" x 12" x 6" less Header
AG1174801	1174801	24" x 12" x 6" with Header
AG1173803	1173803	24" x 12" x 12" less Header
AG1174803	1174803	24" x 12" x 12" with Header
AG1173815	1173815	24" x 20" x 12" less Header
AG1154815	1154815	24" x 20" x 12" less Header
AG1174815	1174815	24" x 20" x 12" with Header
AG1173802	1173802	24" x 24" x 6" less Header
AG1174802	1174802	24" x 24" x 6" with Header
AG1173804	1173804	24" x 24" x 12" less Header
AG1174804	1174804	24" x 24" x 12" with Header

## MERV 14 Synthetic

- Average arrestance 90% to 95%

Part #	Mfg #	Description
AG1154914	1154914	20" x 20" x 6" less Header
AG1154913	1154913	20" x 20" x 12" less Header
AG1155913	1155913	20" x 20" x 12" with Header
AG1154901	1154901	24" x 12" x 6" less Header
AG1155901	1155901	24" x 12" x 6" with Header
AG1154903	1154903	24" x 12" x 12" less Header
AG1155903	1155903	24" x 12" x 12" less Header
AG1154915	1154915	24" x 20" x 12" less Header
AG1155915	1155915	24" x 20" x 12" with Header
AG1154902	1154902	24" x 24" x 6" less Header
AG1155902	1155902	24" x 24" x 6" with Header
AG1154904	1154904	24" x 24" x 12" less header
AG1155904	1155904	24" x 24" x 12" with Header

## MERV 14 Microglass

- Average arrestance 90% to 95%

Part #	Mfg #	Description
AG1173914	1173914	20" x 20" x 6" less Header
AG1174914	1174914	20" x 20" x 6" with Header
AG1173913	1173913	20" x 20" x 12" less Header
AG1174913	1174913	20" x 20" x 12" with Header
AG1173901	1173901	24" x 12" x 6" less Header
AG1174901	1174901	24" x 12" x 6" with Header
AG1173903	1173903	24" x 12" x 12" less Header
AG1174903	1174903	24" x 12" x 12" with Header
AG1173915	1173915	24" x 20" x 12" less Header
AG1174615	1174615	24" x 20" x 12" less Header
AG1174915	1174915	24" x 20" x 12" with Header
AG1173902	1173902	24" x 24" x 6" less Header
AG1174902	1174902	24" x 24" x 6" with Header
AG1174904	1174904	24" x 24" x 12" less Header
AG1173904	1173904	24" x 24" x 12" less Header





# Media & Air Filters

## Automatic Roll Filter Fiberglass Media

- Progressive density media construction
- 2-1/2" Thick, 65' long
- Scrim mesh netting backing for high tensile strength
- Adhesive coating for high dust holding capacity
- Average arrestance 70% to 90%



## Type AE Core Fiberglass Media

- Fits American Air Filter Roll-O-Matic
- Core is 3/8" ID (1-1/8" OD) welded steel tube and metal discs
- End plates of approx 11" Dia are attached

Part #	Mfg #	Description
AG0940040	0940040	44-3/4"W Industrial Grade, Yellow

## Type CB Core Fiberglass Media

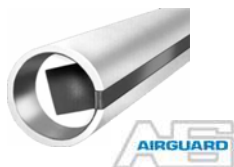
- Fits Cambridge Autoroll
- Core is 3/4" welded steel tube
- No metal discs used



Part #	Mfg #	Description
AG0941050	0941050	56-7/8"W Industrial Grade, Yellow

## Type T Core Fiberglass Media

- Fits Trane Company roll filter
- Core is formed from 2-7/16" ID fiberboard tube
- Tube contains metal cup secured in each end recessed to a depth of 1-1/2" square



Part #	Mfg #	Description
AG0948712	0948712	35-3/8"W Commercial Grade, Blue
AG0946310	0946310	45-3/8"W Industrial Grade, Yellow

## Specialty Medias and Filters

### Foam Filter Media Roll

- Washable for repeated use
- Withstands wide temperature extremes
- Operating temperature: -50°F to 250°F
- Average arrestance 60% to 70%



Part #	Mfg #	Size
AG1030224	AFS25-1	1/4" x 24" x 120'

## Permalast® Filter Media

- Made from extra heavyweight polyester fibers
- Rigid, self-supporting
- Washable
- Average arrestance 50% to 65%



Part #	Mfg #	Size
AG1050211	1050211	50" x 30" x 1"

## Streamline™ Synthetic Air Filter Media

- Made from multi-denier, recycled polyester fibers
- Tackifier increases particle retention
- Average arrestance 85% to 95%



## DL Series Dust Lok Filter Media Roll

- Industrial grade media
- For moderate to heavy dirt loading conditions
- Heavy tack
- Prefilter layer is a blend of coarser fibers
- Final filter layer is a blend of finer denier fibers
- Scrim net backing adds media stability and durability

Part #	Mfg #	Description
AG1601548	1601548	48" x 65' x 1", Orange

## P-Series Standard Grade Media

- For light to moderate dirt loading conditions
- Light tack

Part #	Mfg #	Description
AG0850201	0850201	16" x 20" x 2", Orange
AG0850203	0850203	20" x 20" x 2", Orange
AG0850204	0850204	20" x 25" x 2", Orange
AG1700420	1700420	20" x 60' x 2", Orange
AG0850005	0850005	24" x 24" x 1/2", White
AG1600230	1600230	30" x 90' x 1", Blue/White
AG0850368	0850368	30-1/2" x 118" x 1", Blue/White



# Media & Air Filters

## Synthetic Automatic Roll Filter Medias

- 65' Long
- Scrim mesh netting backing for high tensile strength
- Dry and tackified media
- Average arrestance 70% to 90%



### Type B Core Synthetic Media

- Fits BLC Industrial automatic roll machine
- Core is constructed from 1-1/2" dia
- EMT Conduit with 11" dia end plates recessed in 1-3/8" from end of core



Part #	Mfg #	Description
AG0928110	0928110	34-5/8"W x 1/2"D Commercial Grade, White

### Type T Core Synthetic Media

- Fits Trane® company roll filter
- Core is formed from 2-7/16" ID fiberboard tube
- Tube contains metal cup secured in each end recessed to a depth of 1-1/2" square



Part #	Mfg #	Description
AG0926080	0926080	31-3/8"W x 1/2"D Commercial Grade, White
AG0956915	0956915	59-3/8"W x 1"D Industrial Grade, Orange

## Dynamic Replacement Media Pads

- MERV 13 equivalent
- Activated carbon core
- Rated life cycle: 90 to 180 days



### Individual Commercial Media Pad

Part #	Mfg #	Size	Qty
FLR06802	C1P1224	12" x 24"	Each
FLR07503	C1P14582014X	14-5/8" x 20-1/4"	Each
FLR06862	C1P1625	16" x 25"	Each
FLR07508	C1P1650	16" x 50"	Each
FLR07000	C1P16382358X	16-3/8" x 23-5/8"	Each
FLR07001	C1P18582538X	18-5/8" x 25-3/8"	Each
FLR07134	C1P19581958X	19-5/8" x 19-5/8"	Each
FLR06443	C1P02020	20" x 20"	Each
FLR06676	C1P2025	20" x 25"	Each
FLR06961	C1P2030	20" x 30"	Each

## Dynamic Replacement Media Pads (Continued)

### Individual Commercial Media Pad

Part #	Mfg #	Size	Qty
FLR07289	C1P2050	20" x 50"	Each
FLR07002	C1P20582934X	20-5/8" x 29-3/4"	Each
FLR07148	C1P2230	22" x 30"	Each
FLR06837	C1P221/2233/4	22-1/2" x 23-3/4"	Each
FLR07895	C1P221/225	22-1/2" x 25"	Each
FLR06870	C1P237816	23-7/8" x 16"	Each
FLR06740	C1P2424	24" x 24"	Each
FLR07129	C1P2425	24" x 25"	Each
FLR06810	C1P2440	24" x 40"	Each
FLR06871	C1P241220	24-1/2" x 20"	Each
FLR07136	C1P24581958X	24-5/8" x 19-5/8"	Each
FLR06489	C1P2516	25" x 16"	Each
FLR06677	C1P2520	25" x 20"	Each
FLR05779	C1P25122334	25-1/2" x 23-3/4"	Each
FLR07012	C1P2616	26" x 16"	Each
FLR07238	C1P263824	26-3/8" x 24"	Each
FLR06864	C1P265815	26-5/8" x 15"	Each
FLR07836	C1P265/816	26-5/8" x 16"	Each
FLR06140	C1P265/820	26-5/8" x 20"	Each
FLR07291	C1P265825	26-5/8" x 25"	Each
FLR06855	C1P267/1624	26-7/16" x 24"	Each
FLR06806	C1P271/2153/4X	27-1/2" x 15-3/4"	Each
FLR06445	C1P271/220	27-1/2" x 20"	Each
FLR05994	C1P271/2233/4	27-1/2" x 23-3/4"	Each
FLR06950	C1P271/2291/2	27-1/2" x 29-1/2"	Each
FLR08078	C1P271/4153/4	27-1/4" x 15-3/4"	Each
FLR06990	C1P271/424	27-1/4" x 24"	Each
FLR07234	C1P271/812	27-1/8" x 12"	Each
FLR07235	C1P271/824	27-1/8" x 24"	Each
FLR06975	C1P2713/1620	27-13/16" x 20"	Each
FLR06235	C1P2820	28" x 20"	Each
FLR06604	C1P281/2153/4	28-1/2" x 15-3/4"	Each
FLR06145	C1P281/2233/4X	28-1/2" x 23-3/4"	Each
FLR06924	C1P2811/1620	28-11/16" x 20"	Each
FLR06562	C1P283/425	28-3/4" x 25"	Each
FLR08079	C1P287/8153/4	28-7/8" x 15-3/4"	Each
FLR06500	C1P287/820	28-7/8" x 20"	Each
FLR06496	C1P2920	29" x 20"	Each
FLR06898	C1P2925	29" x 25"	Each
FLR06921	C1P291/2233/4	29-1/2" x 23-3/4"	Each

# Media & Air Filters

## Dynamic Replacement Media Pads (Continued)

### Individual Commercial Media Pad

Part #	Mfg #	Size	Qty
FLR06474	C1P293/4233/4	29-3/4" x 23-3/4"	Each
FLR06872	C1P2913/1620	29-13/16" x 20"	Each
FLR06446	C1P3020	30" x 20"	Each
FLR07838	C1P3025	30" x 25"	Each
FLR07004	C1P3030	30" x 30"	Each
FLR06933	C1P3032	30" x 32"	Each
FLR06934	C1P3036	30" x 36"	Each
FLR07216	C1P301/2153/4	30-1/2" x 15-3/4"	Each
FLR06731	C1P301/320	30-1/3" x 20"	Each
FLR06130	C1P303/4233/4	30-3/4" x 23-3/4"	Each
FLR06968	C1P311/2233/4	31-1/2" x 23-3/4"	Each
FLR06873	C1P31131616	31-13/16" x 16"	Each
FLR06899	C1P3216	32" x 16"	Each
FLR05781	C1P34122334	34-1/2" x 23-3/4"	Each
FLR06868	C1P341224	34-1/2" x 24"	Each
FLR06923	C1P341225	34-1/2" x 25"	Each
FLR06867	C1P34131616	34-13/16" x 16"	Each
FLR06829	C1P3624	36" x 24"	Each
FLR06141	C1P38121534	38-1/2" x 15-3/4"	Each
FLR05979	C1P401534	40" x 15-3/4"	Each
FLR07731	C1P4020	40" x 20"	Each
FLR06811	C1P4024	40" x 24"	Each
FLR07732	C1P4025	40" x 25"	Each

### Residential Media Pad 3/Pack



Part #	Mfg #	Size	Qty
FLR01914	C3P1020	10" x 20"	3/Pk
FLR01989	C3P1212	12" x 12"	3/Pk
FLR01967	C3P1220	12" x 20"	3/Pk
FLR01788	C3P1224	12" x 24"	3/Pk
FLR05408	C3P1225	12" x 25"	3/Pk
FLR06052	C3P13182158	13-1/8" x 21-5/8"	3/Pk
FLR01800	C3P1420	14" x 20"	3/Pk
FLR06640	C3P1421	14" x 21"	3/Pk
FLR01932	C3P1424	14" x 24"	3/Pk
FLR01795	C3P1430	14" x 30"	3/Pk

## Dynamic Replacement Media Pads (Continued)

### Residential Media Pad 3/Pack

Part #	Mfg #	Size	Qty
FLR01791	C3P1520	15" x 20"	3/Pk
FLR01793	C3P1616	16" x 16"	3/Pk
FLR01774	C3P1620	16" x 20"	3/Pk
FLR01798	C3P1621	16" x 21"	3/Pk
FLR01789	C3P1624	16" x 24"	3/Pk
FLR01771	C3P1625	16" x 25"	3/Pk
FLR01797	C3P1630	16" x 30"	3/Pk
FLR06327	C3P1632	16" x 32"	3/Pk
FLR06053	C3P1622158	16-1/2" x 21-5/8"	3/Pk
FLR04672	C3P1725	17" x 25"	3/Pk
FLR06259	C3P1728	17" x 28"	3/Pk
FLR03438	C3P172814	17" x 28-1/4"	3/Pk
FLR06636	C3P171226	17-1/2" x 26"	3/Pk
FLR01792	C3P1818	18" x 18"	3/Pk
FLR01794	C3P1820	18" x 20"	3/Pk
FLR01796	C3P1824	18" x 24"	3/Pk
FLR02709	C3P1825	18" x 25"	3/Pk
FLR06062	C3P1828	18" x 28"	3/Pk
FLR06646	C3P1836	18" x 36"	3/Pk
FLR02735	C3P1924	19" x 24"	3/Pk
FLR05787	C3P19381938X	19-3/8" x 19-3/8"	3/Pk
FLR05788	C3P19382338	19-3/8" x 23-3/8"	3/Pk
FLR01951	C3P2016	20" x 16"	3/Pk
FLR01775	C3P2020	20" x 20"	3/Pk
FLR03628	C3P2021	20" x 21"	3/Pk
FLR06054	C3P202158	20" x 21-5/8"	3/Pk
FLR04726	C3P2022	20" x 22"	3/Pk
FLR01790	C3P2024	20" x 24"	3/Pk
FLR01772	C3P2025	20" x 25"	3/Pk
FLR02955	C3P2028	20" x 28"	3/Pk
FLR01799	C3P2030	20" x 30"	3/Pk
FLR05088	C3P2036	20" x 36"	3/Pk
FLR02757	C3P2040	20" x 40"	3/Pk
FLR02970	C3P21122512	21-1/2" x 25-1/2"	3/Pk
FLR06055	C3P21122314	21-1/2" x 23-1/4"	3/Pk
FLR02733	C3P2222	22" x 22"	3/Pk
FLR02783	C3P2224	22" x 24"	3/Pk
FLR01773	C3P2424	24" x 24"	3/Pk
FLR02721	C3P2428	24" x 28"	3/Pk
FLR02765	C3P2430	24" x 30"	3/Pk

# Media & Air Filters

## Dynamic Replacement Media Pads (Continued)

### Residential Media Pad 3/Pack

Part #	Mfg #	Size	Qty
FLR01954	C3P2525	25" x 25"	3/Pk
FLR02712	C3P2830	28" x 30"	3/Pk
FLR07005	C3P3030	30" x 30"	3/Pk
FLR02713	C3P3032	30" x 32"	3/Pk
FLR03042	C3P3036	30" x 36"	3/Pk

### RS-2/RS-3 Replacement Media Pad

Part #	Mfg #	Description
FLR06732	C4PRS-1400	For Use with RS1400, 4/Pk
FLR05595	C4PRS-2400	For Use with RS2400, 4/Pk

## Polarized Media Air Cleaners

### 1" Polarized Media Air Cleaner

- Equivalent to MERV 13, 97% Efficient at .3 microns
- Removes fine particles, odors, and VOCs
- For residential applications
- 24V 1" Panel fits directly into existing filter racks or filter grilles
- Media pads generally changed every 3 to 4 months
- Does not produce charged (ionized) particles
- Custom sizes available
- 5-Year limited warranty



Part #	Mfg #	Size
FLR01988	1P1212C24	12" x 12" x 1"
FLR01966	1P1220C24	12" x 20" x 1"
FLR01814	1P1224C24	12" x 24" x 1"
FLR06065	1P1225C24	12" x 25" x 1"
FLR05851	1P1230C24	12" x 30" x 1"
FLR01910	1P1414C24	14" x 14" x 1"
FLR01826	1P1420C24	14" x 20" x 1"
FLR01923	1P1424C24	14" x 24" x 1"
FLR01782	1P1425C24	14" x 25" x 1"
FLR01821	1P1430C24	14" x 30" x 1"
FLR01817	1P1520C24	15" x 20" x 1"
FLR01819	1P1616C24	16" x 16" x 1"
FLR01786	1P1620C24	16" x 20" x 1"
FLR01824	1P1621C24	16" x 21" x 1"

## Polarized Media Air Cleaners (Continued)

### 1" Polarized Media Air Cleaner

Part #	Mfg #	Size
FLR01815	1P1624C24	16" x 24" x 1"
FLR01783	1P1625C24	16" x 25" x 1"
FLR01823	1P1630C24	16" x 30" x 1"
FLR07502	1P16382358C24X	16-3/8" x 23-5/8" x 1"
FLR05445	1P17382338C24	17-3/8" x 23-3/8" x 1"
FLR01818	1P1818C24	18" x 18" x 1"
FLR01820	1P1820C24	18" x 20" x 1"
FLR01822	1P1824C24	18" x 24" x 1"
FLR01883	1P1825C24	18" x 25" x 1"
FLR01787	1P2020C24	20" x 20" x 1"
FLR06048	1P202158C24	20" x 21-5/8" x 1"
FLR03695	1P2022C24	20" x 22" x 1"
FLR01816	1P2024C24	20" x 24" x 1"
FLR01784	1P2025C24	20" x 25" x 1"
FLR01825	1P2030C24	20" x 30" x 1"
FLR02756	1P2040C24	20" x 40" x 1"
FLR01937	1P2525C24	25" x 25" x 1"
FLR02711	1P3032C24	30" x 32" x 1"
FLR04026	1P3036C24	30" x 36" x 1"

### 1" Polarized Media Retrofit Air Cleaner for Space-Guard Cabinets



Part #	Mfg #	Size	Fits
FLR02986	1SG21122512C24X	21-1/2" x 25-1/2" x 1"	SG2200
FLR06510	1SG17281/4X	17" x 28-1/4" x 1"	SG2400

### OH1010 Replacement Carbon Media Filter Pad

Part #	Mfg #	Description
FLR07553	C1POH1010	For Use with OH1010

### Replacement 24V Powerhead

- For 1" Dynamic air cleaners



Part #	Mfg #	Description
TOL01382	24VPWRPKS	24V

# Media & Air Filters

## Perfect Fit™ Reusable Air Filters

### Perfect Fit™ Replacement Media Filter

- 5" Thick
- For use in Perfect Fit™ filter cabinets



Part #	Use With:
FLR06078	14-1/2" Enclosure
FLR06069	17-1/2" Enclosure
FLR06070	21" Enclosure
FLR06072	21-1/2" Enclosure
FLR06071	24-1/2" Enclosure
FLR06073	23-1/2" Enclosure
FLR06074	26" Enclosure

## Air Filters



### Perfect Fit™ 1" Pleated Air Handler Filter

Part #	Mfg #	Size	Qty
FLR07968	BAYF TAH21P4	21"	4/Box
FLR07971	BAYF TAH26P4	26"	4/Box

### Perfect Fit™ 1" Pleated Furnace Filter



Part #	Mfg #	Size	Qty
FLR07969	BAYF TFR14P4	14-1/2"	4/Box
FLR07972	BAYF TFR17P4	17-1/2"	4/Box
FLR07970	BAYF TFR21P4	21"	4/Box
FLR07973	BAYF TFR24P4	24-1/2"	4/Box

### Perfect Fit™ Media Filter



Part #	Mfg #	Size
FLR07964	BAYF TDN14M2	14-3/16" x 20-3/32" x 5"
FLR07965	BAYF TDN17M2	17-3/16" x 20-3/32" x 5"
FLR07966	BAYF TDN21M2	20-11/16" x 20-3/32" x 5"
FLR07967	BAYF TDN24M2	24-3/16" x 20-3/32" x 5"

### Perfect Fit™ Cartridge Media Filter

- Expandable



Part #	Mfg #	Description
FLR07963	BAYF TFREXM2	5" Furnace Filter
FLR07962	BAYF TAHEXM2	5" Air Handler Filter



Don't see what you are looking for? We carry thousands of other items. Check with your local parts center.

# Ventilation

## Fresh Air Ventilators

### TrueFRESH™ Balanced Ventilation System

- Eliminates the need for overhead ducting, and balance without adjusting dampers, true time saver
- Removable duct collars
- Damperless balancing
- Adjustable hanging straps
- Centralized wiring and speed control
- Customizable
- Compact size
- Tradeline
- Meets ASHRAE 62.2 Standards
- Energy Star® rated
- 5-Year warranty

**Honeywell**



Part #	Mfg #	Description
UNT00905	VNT5150E1000	159 CFM Energy Recovery Ventilator, 120VAC, Enthalpy 10" ERV Core, Tradeline
UNT00906	VNT5200E1000	177 CFM Energy Recovery Ventilator, 120VAC, Enthalpy 15" ERV Core, Tradeline
UNT00903	VNT5150H1000	150 CFM Heat Recovery Ventilator, 120VAC, Polypropylene 10" HRV Core, Tradeline
UNT00904	VNT5200H1000	200 CFM Heat Recovery Ventilator, 122VAC, Polypropylene 15" HRV Core, Tradeline



# Sheet Metal

## Accommodator Filter Bases

- For use with standard filters
- Hinged and gasketed door
- Fully insulated

## Accommodator Electric Furnace Filter Base

- Short base (3-3/4") accommodates 1" or 2" filters
- Tall base (5-3/4") accommodates 1", 2" or 4" filters



McDaniel Metals

Part #	Mfg #	Height	Filter Size
HUS03533	ACE 1420-3	3-3/4"	14" x 20"
HUS03528	ACE 1420-6	5-3/4"	14" x 20"
HUS03534	ACE 1620-3	3-3/4"	16" x 20"
HUS03529	ACE 1620-6	5-3/4"	16" x 20"
HUS03668	ACE 1625-3	3-3/4"	16" x 25"
HUS03667	ACE 1625-6	5-3/4"	16" x 25"
HUS03535	ACE 2020-3	3-3/4"	20" x 20"
HUS03530	ACE 2020-6	5-3/4"	20" x 20"
HUS03900	ACE 2020-3TEH	3-3/4"	20" x 20"
HUS03901	ACE 2020-6TEH	5-3/4"	20" x 20"
HUS03536	ACE 2025-3	3-3/4"	20" x 25"
HUS03531	ACE 2025-6	5-3/4"	20" x 25"
HUS03537	ACE 2025-3N	3-3/4"	20" x 25"
HUS03532	ACE 2025-6N	5-3/4"	20" x 25"

## Accommodator Gas Furnace Filter Base

- Short base (3-3/4") accommodates 1" or 2" filters
- Tall base (5-3/4") accommodates 1", 2" or 4" filters



McDaniel Metals

Part #	Mfg #	Height	Filter Size
HUS03524	ACG 1425-3	3-3/4"	14" x 25"
HUS03520	ACG 1425-6	5-3/4"	14" x 25"
HUS03525	ACG 1625-3	3-3/4"	16" x 25"
HUS03521	ACG 1625-6	5-3/4"	16" x 25"
HUS03526	ACG 2025-3	3-3/4"	20" x 25"
HUS03522	ACG 2025-6	5-3/4"	20" x 25"
HUS03527	ACG 2424-3	3-3/4"	24" x 24"
HUS03523	ACG 2424-6	5-3/4"	24" x 24"
HUS03666	ACG 3025-3	3-3/4"	30" x 25"
HUS03665	ACG 3025-6	5-3/4"	30" x 25"

## Accommodator Honeywell Gas Furnace Filter Base

- For Honeywell F25
- Short base (3-3/4") accommodates 1" or 2" filters
- Tall base (5-3/4") accommodates 1", 2" or 4" filters



McDaniel Metals

Part #	Mfg #	Depth	Filter Size
HUS03669	ACG 1625 6-H	3-3/4"	16" x 25"

## Filter Housings

### Accommodator Gas Furnace Filter Housing

- Short base (3-3/4") accommodates 1" or 2" filters
- Tall base (5-3/4") accommodates 1", 2" or 4" filters



McDaniel Metals

Part #	Mfg #	Height	Filter Size
HUS03780	JOHPA1625-3	3-3/4"	16" x 25"
HUS03781	JOHPA2025-3	3-3/4"	20" x 25"

### Baseline 2.0 Furnace Filter Housing

- 22 Gauge construction
- Gasketed door ensures tight seal
- Rounded corners for safe handling
- Suffix options:
  - 2: 1" Filter
  - 3: 1" or 2" Filter
  - N: Door on narrow size



McDaniel Metals

Part #	Mfg #	Description
HUS03844	BL1420-2	14" x 20" Filter Size
HUS03849	BL1420-3	14" x 20" Filter Size
HUS03840	BL1425-2	14" x 25" Filter Size
HUS03845	BL1620-2	16" x 20" Filter Size
HUS03850	BL1620-3	16" x 20" Filter Size
HUS03841	BL1625-2	16" x 25" Filter Size
HUS03846	BL2020-2	20" x 20" Filter Size
HUS03851	BL2020-3	20" x 20" Filter Size
HUS03842	BL2025-2	20" x 25" Filter Size
HUS03848	BL2025-2N	20" x 25" Filter Size
HUS03843	BL2424-2	24" x 24" Filter Size

# Sheet Metal

## Baseline 2.0 Electric Furnace Filter Housing

- 22 Gauge construction
- Gasketed door ensures tight seal
- Rounded corners for safe handling
- Suffix options:
  - 2: 1" Filter
  - 3: 1" or 2" Filter
  - N: Door on narrow size



McDaniel Metals

Part #	Mfg #	Description
HUS03847	BLE2025-2	20" x 25" Filter Size
HUS03853	BLE2025-3N	20" x 25" Filter Size

## Baseline 2.0 Gas Furnace Filter Housing

- 22 Gauge construction
- Gasketed door ensures tight seal
- Rounded corners for safe handling
- 1" or 2" Filter option



McDaniel Metals

Part #	Mfg #	Description
HUS03836	BLG2-1425-3	3-3/4"H x 15-3/8"W x 28-3/8"L, 12-7/8" x 26-1/2" Duct Opening
HUS03837	BLG2-1625-3	3-3/4"H x 17-3/8"W x 28-3/8"L, 14-7/8" x 26-1/2" Duct Opening
HUS03838	BLG2-2025-3	3-3/4"H x 21-3/8"W x 28-3/8"L, 18-7/8" x 26-1/2" Duct Opening
HUS03839	BLG2-2424-3	3-3/4"H x 25-3/8"W x 28-3/8"L, 22-7/8" x 26-1/2" Duct Opening

## Horizontal Filter Housing

- Accommodates standard filter sizes in 1", 2" or 4" thickness
- Fully insulated
- HR Models include duct flange
- HRB Models blocked on both sides



HR HRB

McDaniel Metals

Part #	Mfg #	Description
HUS03546	HR20	20"H x 6-5/8"W x 25-1/2"L, 19-3/4" x 19" Duct Opening
HUS03548	HRB20	20"H x 6-5/8"W x 25-1/2"L, less Duct Opening
HUS03547	HR25	25"H x 6-5/8"W x 20-1/2"L, 19-3/4" x 19" Duct Opening
HUS03549	HRB25	25"H x 6-5/8"W x 20-1/2"L, less Duct Opening

## Counterflow Filter Housing

- Allows access to filters without interference from vent pipe
- Uses standard size filters in 1" thickness only
- Heavy gauge, embossed steel, fully insulated
- Filters positioned on angle for maximum surface area
- 10" x 20" x 1" Filters



McDaniel Metals

Part #	Mfg #	Description
HUS03550	CF-1	15-3/4" x 21-3/8" x 12" O/A for (2) Filters
HUS03551	CF-2	18-3/4" x 21-3/8" x 12" O/A for (3) Filters
HUS03552	CF-3	23-1/4" x 21-3/8" x 12" O/A for (3) Filters
HUS03553	CF-4	27-3/4" x 21-3/8" x 12" O/A for (4) Filters

## Filter Housing with Strengthening Beads, R-8 2" Liner

- 26 Gauge galvanized steel
- 18" Long with 8" sleeve

McDaniel Metals

Part #	Mfg #	Description
HUS04027	TE24X24-R8	19-5/8" x 13-1/4" - 16" x 21"
HUS04028	TE24X36-R8	19-5/8" x 13-1/4" - 24" x 21"
HUS04029	TE24X48-R8	19-5/8" x 13-1/4" - 33-1/4" x 21"
HUS04030	TE36X36-R8	19 5/8" x 16-1/4" - 24" x 21"
HUS04032	TE48X36-R8	19-5/8" x 19-3/4" - 24" x 21"
HUS04035	TE60X48-R8	19-5/8" x 23-1/4" - 33-1/4" x 21"
HUS04036	TE60X63-R8	19-5/8" x 23-1/4" - 33-1/4" x 27"



# Sheet Metal

## Filter Racks

### Labor Saver Filter Rack

- For gas furnaces and electric air handlers
- Accommodates 1", 2", or 4" thick filters
- Easy, dual-sized, hardware-free access
- Lined with 1" insulation
- Embossed, heavy-gauge steel construction
- Elevated boxes
- Filter positioned on angle for maximum surface area
- Raises furnace to plenum for efficient installation



McDaniel Metals

Part #	Mfg #	Description
HUS03539	LS2840	28-1/2" x 26-1/2" x 19" for 24" x 24" Filter Size
HUS03540	LS2232	22-1/2" x 32" x 14-1/2" for 20" x 20" Filter Size
HUS03541	LS2240	22-1/2" x 40" x 20" for 20" x 25" Filter Size
HUS03538	LS2832	28-1/2" x 26-1/2" x 13-1/2" for 20" x 25" Filter Size
HUS03664	LS 2843	28-1/2" x 43" x 26-1/2" for 24" x 24" Filter Size
HUS03774	LS2840N	40" x 14" x 28-1/2" for 17-1/2" x 26-1/2" Duct Opening, for 24" x 24" Filter Size

## Heater Stands

- 20 Gauge galvanized steel



Part #	Mfg #	Size
BAS02053	HS630-HOUTRA	6" x 30"
BAS02052	HS930-HOUTRA	9" x 30"

### Heater Stand with Cap

- 20 Gauge galvanized steel

McDaniel Metals

Part #	Mfg #	Size
BAS02724	HS630WC	6" x 30"
BAS02725	HS930WC	9" x 30"

## Heater Platforms

- Fully welded
- Horizontal
- 22 Gauge galvanized steel drain pan
- 20 Gauge galvanized steel heater stands



McDaniel Metals

Part #	Mfg #	Size
BAS02071	JOHFP3048	30" x 48"

## Platforms

- For horizontal furnace or airhandler

McDaniel Metals

Part #	Mfg #	Description
BAS01894	HFP	30" x 48" Platform with 6" Furnace Stand

## Horizontal Blower Coil Platform

Part #	Mfg #	Size
BAS02068	JOHBCP5630	56" x 30"
BAS02069	JOHBCP6632	66" x 32"
BAS02070	JOHBCP7632	76" x 32"

## Evaporators

- Includes (3) 6" furnace stands

McDaniel Metals

Part #	Mfg #	Description
BAS01893	HFCP	35" x 56" Platform with 24" x 35" Drain Pan

## Transitions

### Transition

McDaniel Metals

Part #	Mfg #	Size
TRA00043	TRA00020	19-5/8" x 13-1/4" - 36-5/8" x 21-1/4"
TRA00044	TRA00021	19-5/8" x 16-1/4" - 36-5/8" x 21-1/4"
TRA00045	TRA00022	19-5/8" x 16-1/4" - 42-5/8" x 21-1/4"



# Sheet Metal

## Transition for 4FXFH Coil, 16" Long, 3" Rise

**McDaniel Metals**

Part #	Mfg #	Size
HUS04060	FXFH-T5R8	19-5/8" x 20-1/4" - 34-1/4" x 21-1/4"
HUS04052	TAUDFXFH24R	19-5/8" x 13-1/2" - 16" x 21"
HUS04053	TAUDFXFH36R	19-5/8" x 16-1/4" - 30" x 21"
HUS04055	TAUDFXFH60DR	19-5/8" x 23-1/4" - 30" x 21"
HUS04054	TAUDFXFH60R	19-5/8" x 19-3/4" - 30" x 21"

## Transition, R-8 Liner

**McDaniel Metals**

Part #	Mfg #	Description
TRA00065	TE60X63R8	19-5/8" x 23-1/4" - 33-1/4" x 27"

## Transition for 4FXFH Coil, R8 Liner

**McDaniel Metals**

Part #	Mfg #	Size
HUS04048	FXFH-T1R8	19-5/8" x 13-3/4" - 16" x 21"
HUS04049	FXFH-T2R8	19-5/8" x 16-3/4" - 16" x 21"
HUS04050	FXFH-T3R8	19-5/8" x 16-3/4" - 30" x 21"
HUS04051	FXFH-T4R8	19-5/8" x 20-1/4" - 30" x 21"

## Transition with Strengthening Beads, 1" Liner

- 26 Gauge galvanized steel
- 18" Long

**McDaniel Metals**

Part #	Mfg #	Description
TRA00001	TRA/001	19-5/8" x 13-1/4" x 24" x 21"
TRA00002	TRA/002	19-5/8" x 16-1/4" x 24" x 21"
TRA00003	TRA/003	19-3/4" x 19-3/4" x 33-1/4" x 21"
TRA00004	TRA/004	19-3/4" x 19-3/4" x 33-1/4" x 27"
TRA00005	TRA/005	19-3/4" x 23-1/4" x 33-1/4" x 27"
TRA00006	TRA/006	19-5/8" x 16-1/4" x 33-1/4" x 21"
TRA00016	TRA/011	19-5/8" x 13-1/2" x 33-1/4" x 21"

## Transition with Strengthening Beads, 1-1/2" Liner

- 26 Gauge galvanized steel
- 18" Long

**McDaniel Metals**

Part #	Mfg #	Size
TRA00013	TRA/007T	19-1/2" x 13-1/4" - 18-1/4" x 21-1/4"
TRA00014	TRA/008T	19-1/2" x 13-1/4" - 26-1/4" x 21-1/4"
TRA00015	TRA/009T	19-1/2" x 16-1/4" - 30-1/4" x 21-1/4"
TRA00022	C60-21X16	19-5/8" x 13-1/4" - 21" x 16"
TRA00023	C60-22X171/2	19-5/8" x 13-1/4" - 22" x 17-1/2"
TRA00007	TRA/001T	19-5/8" x 13-1/4" - 24" x 21"
TRA00017	TRA/011T	19-5/8" x 13-1/4" - 33-1/4" x 21"
TRA00019	A80-SLIP	19-5/8" x 16-1/4"
TRA00024	C80/10-21X16	19-5/8" x 16-1/4" - 21" x 16"
TRA00008	TRA/002T	19-5/8" x 16-1/4" - 24" x 21"
TRA00026	C80/10-28X17	19-5/8" x 16-1/4" - 28" x 17-1/2"
TRA00025	C80/10-22X171/2	19-5/8" x 19-1/4" - 22" x 17-1/2"
TRA00027	C80/10-24X21	19-5/8" x 19-1/4" - 24" x 21"
TRA00020	A100-SLIP	19-5/8" x 19-3/4"
TRA00028	C100-24X21	19-5/8" x 19-3/4" - 24" x 21"
TRA00029	C100-28X17	19-5/8" x 19-3/4" - 28" x 17-1/2"
TRA00030	C120-24X21	19-5/8" x 23-1/4" - 24" x 21"
TRA00031	C120-28X17	19-5/8" x 23-1/4" - 28" x 17-1/2"
TRA00018	A120-333/4X21	19-5/8" x 23-1/4" - 33-3/4" x 21"
TRA00032	C120-333/4X21	19-5/8" x 23-1/4" - 33-3/4" x 21"
TRA00011	TRA/005T	19-3/4" x 23-1/4" - 33-1/4" x 27"



# Sheet Metal

## Transition with Sleeve and Strengthening Beads, 1-1/2" Liner

McDaniel Metals

- 26 Gauge galvanized steel
- 18" Long with 8" sleeve

Part #	Mfg #	Size
TRA00034	TE24X36HOUTRA	19-5/8" x 13-1/4" - 24" x 21"
TRA00035	TEX24X48HOUTRA	19-5/8" x 13-1/4" - 33-1/4" x 21"
TRA00036	TE36X36HOUTRA	19-5/8" x 16-1/4" - 24" x 21"
TRA00012	TRA006T	19-5/8" x 16-1/4" - 33-1/4" x 21"
TRA00039	TE48X48HOUTRA	19-5/8" x 19-3/4" - 33-1/4" x 21"
TRA00040	TE48X63HOUTRA	19-5/8" x 19-3/4" - 33-1/4" x 27"
TRA00009	TRA003T	19-3/4" x 19-3/4" - 33-1/4" x 21"
TRA00010	TRA004T	19-3/4" x 19-3/4" - 33-1/4" x 27"

## Transition with Strengthening Beads, 2" Liner

McDaniel Metals

- 26 Gauge galvanized steel
- 18" Long with 8" sleeve

Part #	Mfg #	Size
HUS04031	TE36X48-R8	19-5/8" x 16-1/4" - 33-1/4" x 21"
HUS04033	TE48X48-R8	19-5/8" x 19-3/4" - 33-1/4" x 21"
HUS04034	TE48X63-R8	19-5/8" x 19-3/4" - 33-1/4" x 27"

## Plenum

- 2-Piece, L-shaped side construction
- 4-Piece construction



McDaniel Metals

## Plenum

Part #	Mfg #	Size
PLN01085	JOPFCP2430	12" x 14-3/8" x 36"
PLN01086	JOPFCP3642	12" x 17-7/8" x 36"
PLN01103	JOPASC1236	13" x 19-1/2" x 36"
PLN01104	JOPASC1248	13" x 19-1/2" x 48"
PLN01093	JOPASAH1436	14" x 12-1/2" x 36"
PLN01094	JOPASAH1448	14" x 12-1/2" x 48"
PLN01081	JOPC15	14" x 16-1/2" x 36"
PLN01095	JOPASAH1636	16" x 12-1/2" x 36"
PLN01096	JOPASAH1648	16" x 12-1/2" x 48"
PLN01092	JOHVP4	16" x 19" x 36"
PLN01105	JOPASC1536	16" x 19-1/2" x 36"
PLN01106	JOPASC1548	16" x 19-1/2" x 48"
PLN01097	JOPASAH1936	19-1/2" x 12-1/4" x 36"
PLN01098	JOPASAH1948	19-1/2" x 12-1/4" x 48"
PLN01107	JOPASC1936	19-1/2" x 19-1/2" x 36"
PLN01078	JOPASC1948	19-1/2" x 19-1/2" x 48"
PLN01082	JOPC19	17-5/8" x 16-1/2" x 36"
PLN01108	JORAP201/4201/4	20-1/4" x 20-1/4" x 36"
PLN01087	JORAP201/4301/4	20-1/4" x 30-1/4" x 36"
PLN01083	JOPC22	21-1/4" x 16-1/2" x 36"
PLN01099	JOPASAH2136	21-1/2" x 12-1/4" x 36"
PLN01100	JOPASAH2148	21-1/2" x 12-1/4" x 48"
PLN01088	JOHH2	22-1/2" x 17" x 36"
PLN01079	JOPASC2236	22-5/8" x 19-1/2" x 36"
PLN01080	JOPASC2248	22-5/8" x 19-1/2" x 48"
PLN01101	JOPASAH2436	24" x 12-1/4" x 36"
PLN01102	JOPASAH2448	24" x 12-1/4" x 48"
PLN01110	JOPASTXH2436	24" x 21" x 36"
PLN01111	JOPASTXH2448	24" x 21" x 48"
PLN01109	JORAP241/4241/4	24-1/4" x 24-1/4" x 36"
PLN01084	JOPC26	24-7/8" x 16-1/2" x 36"
PLN01089	JOHH3	26-1/2" x 17" x 36"
PLN01090	JOHH4	30-1/2" x 17" x 36"
PLN01112	JOPASTXH3336	33-1/4" x 21" x 36"
PLN01113	JOPASTXH3348	33-1/4" x 21" x 48"
PLN01114	JOPASTXH6336	33-1/4" x 27" x 36"
PLN01115	JOPASTXH6348	33-1/4" x 27" x 48"
PLN01091	JOHH5	36-1/2" x 17" x 36"

# Sheet Metal

## Plenum, R-6 Liner

McDaniel Metals

Part #	Mfg #	Size
PLN01121	AHP64	12" x 24" x 36"
PLN01177	OAHP64-4	12" x 24" x 48"
PLN01119	AHP24	12-1/2" x 19-1/2" x 36"
PLN01174	OAHP24-4	12-1/2" x 19-1/2" x 48"
PLN01116	AHP36	12-1/2" x 20" x 36"
PLN01175	OAHP36-4	12-1/2" x 20" x 48"
PLN01120	AHP42A	12-1/2" x 21-1/2" x 36"
PLN01176	OAHP42-4	12-1/2" x 21-1/2" x 48"
PLN01032	PLN182436	18" x 24" x 36"
PLN01075	PLN19.752336	19-3/4" x 23" x 36"
PLN01037	PLN201936	20" x 19" x 36"
PLN01038	PLN202136	20" x 21" x 36"
PLN01039	PLN202436	20" x 24" x 36"
PLN01029	PLN23.52336	23-1/2" x 23" x 36"
PLN01033	PLN251236	25" x 12" x 36"
PLN01036	PLN252236	25" x 22" x 36"

## Plenum, R-8 Liner

McDaniel Metals

Part #	Mfg #	Size
PLN01156	JOPFCP2430R8	12" x 14-3/8" x 36"
PLN01157	JOPFCP3642R8	12" x 17-7/8" x 36"
PLN01348	AHP64-R8	12" x 24" x 36"
PLN01345	AHP24-R8	12-1/2" x 19-1/2" x 36"
PLN01346	AHP36-R8	12-1/2" x 20" x 36"
PLN01347	AHP42A-R8	12-1/2" x 21-1/2" x 36"
PLN01163	JOPASC1236R8	13" x 19-1/2" x 36"
PLN01164	JOPASC1248R8	13" x 19-1/2" x 48"
PLN01143	JOPASAH1436R8	14" x 12-1/2" x 36"
PLN01144	JOPASAH1448R8	14" x 12-1/2" x 48"
PLN01152	JOPC15R8	14" x 16-1/2" x 36"
PLN01145	JOPASAH1636R8	16" x 12-1/2" x 36"
PLN01146	JOPASAH1648R8	16" x 12-1/2" x 48"
PLN01142	JOHVP4R8	16" x 19" x 36"
PLN01165	JOPASC1536R8	16" x 19-1/2" x 36"
PLN01166	JOPASC1548R8	16" x 19-1/2" x 48"
PLN01153	JOPC19R8	17-5/8" x 16-1/2" x 36"
PLN01147	JOPASAH1936R8	19-1/2" x 12-1/4" x 36"
PLN01158	JOPASAH1948R8	19-1/2" x 12-1/4" x 48"
PLN01167	JOPASC1936R8	19-1/2" x 19-1/2" x 36"
PLN01149	JOPASC1948R8	19-1/2" x 19-1/2" x 48"
PLN01154	JOPC22R8	21-1/4" x 16-1/2" x 36"
PLN01159	JOPASAH2136R8	21-1/2" x 12-1/4" x 36"
PLN01160	JOPASAH2148R8	21-1/2" x 12-1/4" x 48"
PLN01150	JOPASC2236R8	22-5/8" x 19-1/2" x 36"
PLN01161	JOPASAH2436R8	24" x 12-1/4" x 36"
PLN01138	JOHH2R8	22-1/2" x 17" x 36"
PLN01151	JOPASC2248R8	22-5/8" x 19-1/2" x 48"
PLN01162	JOPASAH2448R8	24" x 12-1/4" x 48"
PLN01168	JOPASTXH2436R8	24" x 21" x 36"
PLN01169	JOPASTXH2448R8	24" x 21" x 48"
PLN01155	JOPC26R8	24-7/8" x 16-1/2" x 36"
PLN01139	JOHH3R8	26-1/2" x 17" x 36"
PLN01140	JOHH4R8	30-1/2" x 17" x 36"
PLN01170	JOPASTXH3336R8	33-1/4" x 21" x 36"
PLN01171	JOPASTXH3348R8	33-1/4" x 21" x 48"
PLN01172	JOPASTXH6336R8	33-1/4" x 27" x 36"
PLN01173	JOPASTXH6348R8	33-1/4" x 27" x 48"
PLN01141	JOHH5R8	36-1/2" x 17" x 36"

# Sheet Metal

## Plenum, 1" Liner

McDaniel Metals

Part #	Mfg #	Size
PLN01117	OP14-24	14-1/4" x 14-1/4" x 24"

## Plenum for Ameristar Furnace, R-6 Liner

McDaniel Metals

Part #	Mfg #	Size
PLN01391	16x231/2x36R	16" x 23-1/2" x 36"

## Plenum for 4FXC Coil, R-6 Liner

McDaniel Metals

Part #	Mfg #	Size
PLN01379	123/4X193/4X36R	12-3/4" x 19-3/4" x 36"
PLN01380	153/4X193/4X36R	15-3/4" x 19-3/4" x 36"
PLN01381	191/4X193/4X36R	19-3/4" x 19-3/4" x 36"
PLN01382	223/4X193/4X36R	22-3/4" x 19-3/4" x 36"

## Plenum for 4FXCH Coil, R-6 Liner

McDaniel Metals

Part #	Mfg #	Size
PLN01384	161/2X181/2X36R	16-1/2" x 18-1/2" x 36"
PLN01385	201/2X181/2X36R	20-1/2" x 18-1/2" x 36"

## Plenum for 4FXFH Coil, R-6 Liner

McDaniel Metals

Part #	Mfg #	Size
PLN01383	30X21X36R	30" x 21" x 36"
HUS04059	341/4X211/4X36R8	34-1/4" x 21-1/4" x 36"

## Plenum for GAF218-36 Plenum, R-6 Liner

McDaniel Metals

Part #	Mfg #	Size
HUS04056	17X143/4X36R	17" x 14-3/4" x 36"
HUS04057	17X143/4X48R	17" x 14-3/4" x 48"

## 3' Plenum, R-6 Liner

McDaniel Metals

Part #	Mfg #	Size
PLN01030	PLN1819536	18" x 19-1/2" x 36", R/A
PLN01031	PLN1821536	18" x 21-1/2" x 36", R/A
PLN01026	PLN2351336	23-1/2" x 13" x 36", R/A
PLN01027	PLN2351536	23-1/2" x 15" x 36", R/A
PLN01028	PLN23519536	23-1/2" x 19-1/2" x 36", R/A
PLN01034	PLN251536	25" x 15" x 36", R/A
PLN01035	PLN2518536	25" x 18-1/2" x 36", R/A
PLN01233	1412X1438X36R	14-1/2" x 14-3/8" x 36"
PLN01234	1838X1438X36R	18-3/8" x 14-3/8" x 36"
PLN01242	1718X1412X36R	17-1/8" x 14-1/2" x 36"
PLN01235	2012X1438X36R	20-1/2" x 14-3/8" x 36"
PLN01243	1718X1838X36R	17-1/8" x 18-3/8" x 36"
PLN01244	1718X2012X36R	17-1/8" x 20-1/2" x 36"
PLN01128	AP16	19-3/4" x 16" x 36"
PLN01129	AP19	19-3/4" x 19-3/4" x 36"
PLN01130	AP23	19-3/4" x 23" x 36"

## 4' Plenum with R-6 Liner

McDaniel Metals

Part #	Size
PLN01237	183BX1438X48R 18-3/8" x 14-3/8" x 48"
PLN01238	2012X1438X48R 20-1/2" x 14-3/8" x 48"

## 5' Plenum

McDaniel Metals

- 24 Gauge galvanized steel

Part #	Mfg #	Description
PLN01066	5PLN24.37514.0625	24-3/8" x 14-1/16" x 60", 1/14" Out
PLN01067	5PLN18.062516.187	18-1/16" x 16-3/16" x 60", 1-1/4" Out 5
PLN01068	5PLN33.7517.75	33-3/4" x 17-3/4" x 60", 1-1/4" Out

## Plenum for ADP Coil, R8 Liner

McDaniel Metals

Part #	Mfg #	Size
HUS04041	ADP-T1R8	19-5/8" x 13-3/4" - 26-5/8" x 21-1/4"
HUS04042	ADP-T2R8	19-5/8" x 16-3/4" - 26-5/8" x 21-1/4"
HUS04043	ADP-T3R8	19-5/8" x 20-1/4" - 26-5/8" x 21-1/4"
HUS04044	ADP-T4R8	19-5/8" x 16-3/4" - 36-5/8" x 21-1/4"
HUS04045	ADP-T5R8	19-5/8" x 20-1/4" - 36-5/8" x 21-1/4"
HUS04046	ADP-T6R8	19-5/8" x 16-3/4" - 42-5/8" x 21-1/4"
HUS04047	ADP-T7R8	19-5/8" x 20-1/4" - 42-5/8" x 21-1/4"



# Sheet Metal

## Plenum with Strengthening Beads, R-6 Liner

McDaniel Metals

Part #	Mfg #	Size
PLN01425	103/8X16X48R6	10-3/8" x 16" x 48"
PLN01426	103/8X181/8X48R6	10-3/8" x 18-1/8" x 48"
PLN01427	103/8X191/2X48R6	10-3/8" x 19-1/2" x 48"
PLN01417	121/4X241/2X36R	12-1/4" x 24-1/2" x 36"
PLN01418	121/4X241/2X48R	12-1/4" x 24-1/2" x 48"
PLN01185	13X20X36R	13" x 20" x 36"
PLN01236	141/2X143/8X48R	14-1/2" x 14-3/8" x 48"
PLN01178	14X11X36R-6	14" x 11" x 36"
PLN01200	15X111/8X36R	15" x 11-1/8" x 36"
PLN01179	17X11X36R-6	17" x 11" x 36"
PLN01239	171/8X141/2X24R	17-1/8" x 14-1/2" x 24"
PLN01240	171/8X183/8X24R	17-1/8" x 18-3/8" x 24"
PLN01241	171/8X201/2X24R	17-1/8" x 20-1/2" x 24"
PLN01197	171/2X21X36R	17-1/2" x 21" x 36"
PLN01371	183/4X201/2X24R	18-3/4" x 20-1/2" x 24"
PLN01373	183/4X201/4X36R	18-3/4" x 20-1/2" x 36"
PLN01180	20X11X36R-6	20" x 11" x 36"
PLN01133	201/4X201/4X36R6	20-1/4" x 20-1/4" x 36"
PLN01132	201/4X301/4X36R6	20-1/4" x 30-1/4" x 36"
PLN01201	201/2X111/8X36R	20-1/2" x 11-1/8" x 36"
PLN01198	21X21X36R	21" x 21" x 36"
PLN01181	22X15X24R-6	22" x 15" x 24"
PLN01182	22X19X24R-6	22" x 19" x 24"
PLN01372	22X211/2X24R	22" x 21-1/2" x 24"
PLN01374	22X211/2X36R	22" x 21-1/2" x 36"
PLN01183	22X24X24R-6	22" x 24" x 24"
PLN01364	213/4X151/2X36R	23-1/4" x 15-1/2" x 36"
PLN01366	213/4X151/2X48R	23-1/4" x 15-1/2" x 48"
PLN01216	24X30X36R	24" x 30" x 36"
PLN01134	241/4X241/4X36R6	24-1/4" x 24-1/4" x 36"
PLN01419	241/2X181/2X24R	24-1/2" x 18-1/2" x 24"
PLN01420	241/2X181/2X36R	24-1/2" x 18-1/2" x 36"
PLN01199	253/4X21X36R	25-3/4" x 21" x 36"

## Plenum for Ameristar AHU with Strengthening Beads, R-6 Liner

McDaniel Metals

Part #	Mfg #	Size
PLN01388	103/8X16X36R	10-3/8" x 16" x 36"
PLN01389	103/8X18X36R	10-3/8" x 18" x 36"
PLN01390	103/8X191/2X36R	10-3/8" x 19-1/2" x 36"

## Plenum for Ameristar TEM3 with Strengthening Beads, R-6 Liner

McDaniel Metals

Part #	Mfg #	Description
PLN01396	12X161/2X36R	12" x 16-1/2" x 36" for TEM3A0B
PLN01398	12X161/2X48R	12" x 16-1/2" x 48" for TEM3A0B
PLN01400	183/4X163/4X24R	18-3/4" x 16-3/4" x 24" for TEM3A0B
PLN01401	183/4X213/4X24R	18-3/4" x 21-3/4" x 24" for TEM3A0C

## Plenum with Strengthening Beads, R-8 Liner

McDaniel Metals

Part #	Mfg #	Size
PLN01421	121/4X241/2X36R8	12-1/4" x 24-1/2" x 36"
PLN01422	121/4X241/2X48R8	12-1/4" x 24-1/2" x 48"
PLN01357	141/2X143/8X36R8	14-1/2" x 14-3/8" x 36"
PLN01358	183/8X143/8X36R8	18-3/8" x 14-3/8" x 36"
PLN01361	183/BX143/8X48R8	18-3/8" x 14-3/8" x 48"
PLN01375	183/4X201/2X24R8	18-3/4" x 20-1/2" x 24"
PLN01377	183/4X201/4X36R8	18-3/4" x 20-1/2" x 36"
PLN01359	201/2X143/8X36R8	20-1/2" x 14 3/8" x 36"
PLN01362	201/2X143/8X48R8	20-1/2" x 14 3/8" x 48"
PLN01136	201/4X201/4X36R8	20-1/4" x 20-1/4" x 36"
PLN01135	201/4X301/4X36R8	20-1/4" x 30-1/4" x 36"
PLN01376	22X211/2X24R8	22" x 21-1/2" x 24"
PLN01378	22X211/2X36R8	22" x 21-1/2" x 36"
PLN01368	213/4X151/2X36R8	23-1/4" x 15-1/2" x 36"
PLN01370	213/4X151/2X48R8	23-1/4" x 15-1/2" x 48"
PLN01137	241/4X241/4X36R8	24-1/4" x 24-1/4" x 36"
PLN01423	241/2X181/2X24R8	24-1/2" x 18-1/2" x 24"
PLN01424	241/2X181/2X36R8	24-1/2" x 18-1/2" x 36"

## Plenum for Ameristar TEM3 with Strengthening Beads, R-8 Liner

McDaniel Metals

Part #	Mfg #	Description
PLN01397	12X161/2X36R8	12" x 16-1/2" x 36" for TEM3A0B
PLN01399	12X161/2X48R8	12" x 16-1/2" x 48" for TEM3A0B
PLN01402	12X211/2X36R8	12" x 21-1/2" x 36" for TEM3A0C
PLN01403	12X211/2X48R8	12" x 21-1/2" x 48" for TEM3A0C

## Plenum for Ameristar Coil with Strengthening Beads, R-8 Liner

McDaniel Metals

Part #	Mfg #	Size
PLN01392	13X19X36R	13" x 19" x 36"
PLN01393	16X19X36R	16" x 19" x 36"
PLN01395	23X19X36R	33" x 19" x 36"

# Sheet Metal

## Plenum with Strengthening Beads, 1" Liner

McDaniel Metals

Part #	Mfg #	Size
PLN00857	PLN/002-3	12" x 21-1/2" x 36"
PLN00867	PLN/002-4	12" x 21-1/2" x 48"
PLN00858	PLN/003-3	12" x 24" x 36"
PLN00868	PLN/003-4	12" x 24" x 48"
PLN00856	PLN/001-3	12-1/2" x 19-1/2" x 36"
PLN00866	PLN/001-4	12-1/2" x 19-1/2" x 48"
PLN01017	OP13-24	13" x 24" x 24"
PLN00954	PLN/012-3	13" x 24" x 36"
PLN00969	PLN/012-4	13" x 24" x 48"
PLN00958	PLN/016-3	14" x 12-1/4" x 36"
PLN00973	PLN/016-4	14" x 12-1/4" x 48"
PLN00859	PLN/004-3	15-1/2" x 19-1/2" x 36"
PLN00869	PLN/004-4	15-1/2" x 19-1/2" x 48"
PLN00959	PLN/017-3	16" x 12-1/4" x 36"
PLN00974	PLN/017-4	16" x 12-1/4" x 48"
PLN01018	OP16-24	16" x 24" x 24"
PLN00955	PLN/013-3	16" x 24" x 36"
PLN00970	PLN/013-4	16" x 24" x 48"
PLN00960	PLN/018-3	19-1/2" x 12-1/4" x 36"
PLN00975	PLN/018-4	19-1/2" x 12-1/4" x 48"
PLN01011	OP12-4	19-1/2" x 12-3/4" x 48"
PLN01020	OP13-2	19-3/4" x 13-1/4" x 24"
PLN01010	OP16-4	19-3/4" x 16-1/4" x 48"
PLN00860	PLN/005-03	19-1/2" x 19-1/2" x 36"
PLN00870	PLN/005-4	19-1/2" x 19-1/2" x 48"
PLN00861	PLN/006-3	19-1/2" x 22-1/2" x 36"
PLN00871	PLN/006-4	19-1/2" x 22-1/2" x 48"
PLN01019	OP24-24	19-1/2" x 24" x 24"
PLN01012	OP13-4	19-3/4" x 13-1/4" x 48"
PLN01021	OP16-2	19-3/4" x 16-1/4" x 24"
PLN01022	OP19-2	19-3/4" x 19-3/4" x 24"
PLN01013	OP19-4	19-3/4" x 19-3/4" x 48"
PLN01015	OP23-2	19-3/4" x 23-1/4" x 24"
PLN01016	OP23-24	23" x 24" x 24"
PLN01014	OP23-4	19-3/4" x 23-1/4" x 48"
PLN00862	PLN/007-3	20" x 25" x 36"
PLN00872	PLN/008-4	21" x 24" x 48"
PLN00873	PLN/009-4	21" x 33-1/4" x 48"
PLN00961	PLN/019-3	21-1/2" x 12-1/4" x 36"
PLN00976	PLN/019-4	21-1/2" x 12-1/4" x 48"
PLN00956	PLN/014-3	22" x 17-1/2" x 36"
PLN00971	PLN/014-4	22" x 17-1/2" x 48"

## Plenum (Continued)

### Plenum with Strengthening Beads, 1" Liner

Part #	Mfg #	Size
PLN00962	PLN/020-3	22-3/4" x 20-1/4" x 36"
PLN00977	PLN/020-4	22-3/4" x 20-1/4" x 48"
PLN00863	PLN/008-3	24" x 21" x 36"
PLN00874	PLN/010-4	27" x 33-1/4" x 48"
PLN00957	PLN/015-3	28" x 17-1/2" x 36"
PLN00972	PLN/015-4	28" x 17-1/2" x 48"
PLN00864	PLN/009-3	33-1/4" x 21" x 36"
PLN00865	PLN/010-3	33-1/4" x 27" x 36"

### Plenum for Rex-Rack with Strengthening Beads, 1" Liner

McDaniel Metals

Part #	Mfg #	Size
PLN00953	PLN/011-3	19-1/2" x 20" x 36"
PLN00968	PLN/011-4	19-1/2" x 20" x 48"



# Sheet Metal

## Plenum with Strengthening Beads, 1-1/2" Liner

McDaniel Metals

Part #	Mfg #	Size
PLN00939	PLN/002T-4	12" x 21-1/2" x 48"
PLN00940	PLN/003T-4	12" x 24" x 48"
PLN00938	PLN/001T-4	12-1/2" x 19-1/2" x 48"
PLN00934	PLN/012T-3	13" x 24" x 36"
PLN00949	PLN/012T-4	13" x 24" x 48"
PLN00963	PLN/016T-3	14" x 12-1/4" x 36"
PLN00978	PLN/016T-4	14" x 12-1/4" x 48"
PLN00964	PLN/017T-3	16" x 12-1/4" x 36"
PLN00979	PLN/017T-4	16" x 12-1/4" x 48"
PLN01002	OP1624HOUTRA	16" x 24" x 24"
PLN00935	PLN/013T-3	16" x 24" x 36"
PLN00950	PLN/013T-4	16" x 24" x 48"
PLN00965	PLN/018T-3	19-1/2" x 12-1/4" x 36"
PLN00980	PLN/018T-4	19-1/2" x 12-1/4" x 48"
PLN00933	PLN/011T-3	19-1/2" x 20" x 36"
PLN00948	PLN/011T-4	19-1/2" x 20" x 48"
PLN00943	PLN/006T-4	19-1/2" x 22-1/2" x 48"
PLN01003	OP1952424HOUTRA	19-1/2" x 24" x 24"
PLN01186	19 5/8 X 13 1/4 X 36R	19-5/8" x 13-1/4" x 36"
PLN01187	19 5/8 X 16 1/4 X 36R	19-5/8" x 16-1/4" x 36"
PLN01188	19 5/8 X 19 3/4 X 36R	19-5/8" x 19-3/4" x 36"
PLN01189	19 5/8 X 23 1/4 X 36R	19-5/8" x 23-1/4" x 36"
PLN01004	OP19.75-13.25-24-HOUTRA	19-3/4" x 13-1/4" x 24"
PLN01005	OP19.75-16.25-24-HOUTRA	19-3/4" x 16-1/4" x 24"
PLN00944	PLN/007T-4	20" x 25" x 48"
PLN00966	PLN/019T-3	21-1/2" x 12-1/4" x 36"
PLN00936	PLN/014T-3	22" x 17-1/2" x 36"
PLN00951	PLN/014T-4	22" x 17-1/2" x 48"
PLN00967	PLN/020T-3	22-3/4" x 20-1/4" x 36"
PLN00982	PLN/020T-4	22-3/4" x 20-1/4" x 48"
PLN00945	PLN/008T-4	24" x 21" x 48"
PLN00937	PLN/015T-3	28" x 17-1/2" x 36"
PLN00952	PLN/015T-4	28" x 17-1/2" x 48"
PLN00947	PLN/010T-4	33-1/4" x 27" x 48"

## Plenum with Strengthening Beads, 2" Liner

McDaniel Metals

Part #	Mfg #	Size
PLN01350	P15R8	15-3/4" x 19-3/8" x 36"
PLN01351	P19R8	19-1/8" x 19-3/8" x 36"
PLN01352	P23-R8	23-1/8" x 19-3/8" x 36"
PLN01354	P36-R8	24" x 21" x 36"
PLN01355	P48R8	33-1/4" x 21" x 36"
PLN01356	P63R8	33-1/4" x 27" x 36"

## 3' Plenum with Strengthening Beads, 1-1/2" Liner

• 26 Gauge galvanized

McDaniel Metals

Part #	Mfg #	Size
PLN00923	PLN001T3	12-1/2" x 19-1/2" x 36"
PLN00924	PLN002T3	12" x 21-1/2" x 36"
PLN00925	PLN003T3	12" x 24" x 36"
PLN00926	PLN004T3	15-1/2" x 19-1/2" x 36"
PLN00927	PLN005T3	19-1/2" x 19-1/2" x 36"
PLN00928	PLN006T3	19-1/2" x 22-1/2" x 36"
PLN00929	PLN007T3	20" x 25" x 36"
PLN00930	PLN008T3	24" x 21" x 36"
PLN00931	PLN009T3	33-1/4" x 21" x 36"
PLN00932	PLN010T3	33-1/4" x 27" x 36"
PLN01122	P15	15-3/4" x 19-3/8" x 36"
PLN01123	P19	19-1/8" x 19-3/8" x 36"
PLN01125	P36	24" x 21" x 36"
PLN01126	P48	33-1/4" x 21" x 36"
PLN01127	P63	33-1/4" x 27" x 36"
PLN01124	P23	23-1/8" x 19-3/8" x 36"

## 4' Plenum with Strengthening Beads, 1-1/2" Liner

McDaniel Metals

Part #	Mfg #	Size
PLN00941	PLN004T4	15-1/2" x 19-1/2" x 48"
PLN00942	PLN005T4	19-1/2" x 19-1/2" x 48"
PLN00946	PLN009T4	33-1/4" x 21" x 48"
PLN00981	PLN019T4	21-1/2" x 12-1/4" x 48"

## Plenum with Strengthening Beads, R-8 2" Liner

McDaniel Metals

Part #	Mfg #	Size
PLN01349	P12-R8	12-3/4" x 19-3/8" x 36"
PLN01353	P24-R8	16" x 21" x 36"





# Sheet Metal

## Supply Plenum, 1-1/2" Liner

McDaniel Metals

- 1" Flange

Part #	Mfg #	Size
PLN01077	PLN15.5X26.3125X5	52-1/2" x 26-5/16" x 5'

## Supply Plenum for 4FWCF & 4FWHF Coil

McDaniel Metals

Part #	Mfg #	Description
PLN01363	181/4X15X36R	18-1/4" x 15" x 36", R-6 Liner
PLN01367	181/4X15X36R8	18-1/4" x 15" x 36", R-8 Liner
PLN01365	181/4X15X48R	18-1/4" x 15" x 48", R-6 Liner
PLN01369	181/4X15X48R8	18-1/4" x 15" x 48", R-8 Liner
PLN01386	213/4X151/2X36R	21-3/4" x 15-1/2" x 36", R-6 Liner
PLN01387	213/4X151/2X48R	21-3/4" x 15-1/2" x 48", R-6 Liner

## Flange Out Plenum with R-6, 1/2" Liner

McDaniel Metals

Part #	Mfg #	Size
PLN01194	17X20X24R	17" x 20" x 24"
PLN01196	201/2X20X24R	20-1/2" x 20" x 24"
PLN01195	221/2X20X24R	22-1/2" x 20" x 24"

## 1-1/4" Flange Out Plenum

McDaniel Metals

- 24 Gauge steel

Part #	Mfg #	Size
PLN01064	3PLN18.062516.1875	18-1/16" x 16-3/16" x 36"
PLN01063	3PLN24.37514.0625	24-3/8" x 14-1/16" x 36"
PLN01065	3PLN33.7517.75	33-3/4" x 17-3/4" x 36"

## Return Air Plenum

McDaniel Metals

Part #	Mfg #	Size	Notes
PLN00919	rap162524	16" x 25" x 24"	Less Filter Frame
PLN00920	rap162536	16" x 25" x 36"	Less Filter Frame
PLN00921	rap202524	20" x 25" x 24"	Less Filter Frame
PLN00922	rap202536	20" x 25" x 36"	Less Filter Frame

## Return Air Plenum, 1-1/2" Liner

McDaniel Metals

- 1" Flange

Part #	Mfg #	Size
PLN01076	PLN59.4375X17.875X5	59-7/16" x 17-7/8" x 5'

## Return Plenum for 4FWCF & 4FWHF Coil, R-6 Liner

McDaniel Metals

Part #	Mfg #	Size
HUS04058	153/4X183/4X36R	15-3/4" x 18-3/4" x 36"
PLN01394	191/2X19X36R	19-1/2" x 19" x 36"

## Plenum Return Box, 1" Liner

McDaniel Metals

Part #	Mfg #	Size
PLN01023	ORB24	14-1/4" x 24-1/4" x 24"
PLN01024	ORB30	14-1/4" x 30-1/4" x 24"

## Upflow Plenums

### Electric Air Handler Upflow Plenum Box with Filter Rack

McDaniel Metals

- For 1", 2", and 4" filters
- Un-insulated
- 24 Gauge steel construction

Part #	Mfg #	Width	Filter Size
PLN01050	UFFPE14	15-1/2"	14" x 20"
PLN01051	UFFPE17	17-1/2"	16" x 20"
PLN01052	UFFPE21	21-1/2"	20" x 20"
PLN01053	UFFPE21N	21-1/2"	20" x 20"
PLN01054	UFFPE24	26-1/2"	25" x 20"

### Electric Air Handler Upflow Plenum Box with Filter Rack

McDaniel Metals

- For 1", 2", and 4" filters
- Insulated
- 24 Gauge steel construction

Part #	Mfg #	Width	Filter Size
PLN01058	UFFPE121N	12-1/2"	12" x 20"
PLN01055	UFFPEI14	15-1/2"	14" x 20"
PLN01056	UFFPEI17	17-1/2"	16" x 20"
PLN01057	UFFPEI21	21-1/2"	20" x 20"
PLN01059	UFFPEI24	26-1/2"	25" x 20"



# Sheet Metal

## Gas Upflow Plenum Box with Filter Rack

- For 1", 2", and 4" filters
- Un-insulated
- 24 Gauge steel construction

[McDaniel Metals](#)

Part #	Mfg #	Width	Filter Size
PLN01061	UFFPG17	17-1/2"	16" x 25"
PLN01062	UFFPG21	21-1/2"	20" x 25"
PLN01045	UFFPG24	26-1/2"	25" x 20"

## Gas Upflow Plenum Box with Filter Rack

- For 1", 2", and 4" filters
- Insulated
- 24 Gauge steel construction

[McDaniel Metals](#)

Part #	Mfg #	Width	Filter Size
PLN01046	UFFPGI14	15-1/2"	14" x 25"
PLN01047	UFFPGI17	17-1/2"	16" x 25"
PLN01048	UFFPGI21	21-1/2"	20" x 25"
PLN01049	UFFPGI24	26-1/2"	25" x 20"

## Parts & Accessories

### Line Set Cover

[McDaniel Metals](#)

Part #	Mfg #	Description
COV04184	4X4XBCC	4" x 4" x 8' Cover
CAP01059	4X4CAP	4" x 4" Cap

### Curb Adapter

[McDaniel Metals](#)

Part #	Mfg #	Description
ADP01419	T08B-T03T	For 3 - 6 Ton Unit



# Hardware & Connections

## Anchor Kits

### Anchor Kit

- Plastic anchor kit for sheet rock applications
- Anchor size: 1/4" x 1"
- Screw size: 10" x 1-1/4" HWH
- Head size: 5/16 hex



Part #	Mfg #	Description
KIT07846	540-AK100	(100) Anchors and Screws, One Masonry Bit

### Devco Plastic Anchor Kit

- Includes:
  - (100) Anchors
  - (100) Screws
  - Drill bit



Part #	Mfg #	Screw Size	Color	Qty
7102CX	7102CX	#10 x 1-1/4"	Red	100/Pk
7103CX	7103CX	#4 x 3/4"	Blue	100/Pk
7106CX	7106CX	#10 x 1"	Green	100/Pk



# Cable & Wire

## Whips

### A/C Whips

- Consists of insulated conductors inserted into a non-metallic conduit with PVC connectors

- Connectors:
  - (1) Straight
  - (1) 90° Elbow
- CSA Certified
- UL Listed



Part #	Mfg #	AWG/Cond	Size
KIT08226	55311201	10/2	1/2" x 4'
KIT08227	55189401	10/2	1/2" x 6'
KIT08229	55189301	8/2	3/4" x 6'

## Thermostat Wire

### 18 AWG SOL BC Barostat™ II Baro-Pak™ Thermostat Wire

- UL Listed Type CL2, cUL Listed Type CM or CMH/FTI



Part #	Mfg #	AWG/Cond	Length
WIR03774	55308T407	18/8	250'

### 18 AWG SOL BC Barostat™ II Thermostat Wire with Brown Reels

- UL Listed Type CL2, cUL Listed Type CM or CMH/FTI



Part #	Mfg #	AWG/Cond	Length
WIR02573	3001820000	18/2	500'
WIR02574	3001830000	18/3	500'
WIR02576	3001850000	18/5	250'
WIR02577	3001860000	18/6	250'
WIR02579	3001880000	18/8	250'
WIR02581	3018100000	18/10	250'



# Condensate Management

## Orange Condensate Pump Kits

- Pump installs remotely above ceiling or inside line set cover
- Pan mount or inline style reservoir options
- Modular terminals for fast connection
- Gravity inlet
- Potted electronics
- 3A NO/NC dry contacts rated @ 5A inductive at 230VAC
- Includes:
  - Pump
  - 1.5m Plug and play power cable
  - Submersible reservoir lid with 1.5m sensor cable
  - Anti-siphon device
  - Float and filter
  - 1.5m Suction tube 6mm ID
  - 220mm Orange inlet hose 14mm ID
  - 150mm Vinyl breather tube 6mm ID
  - Drain connector kit
  - Fixing kit
  - Installation manual

## Mini Orange Condensate Pump Kit

- Handles mini-splits up to 30,000 BTUH
- Duty cycle: continuous
- Capacity:
  - 3.2 gph @ Zero head
  - 0.8 gph @ 33' Head
- Maximum head: 33'
- Noise level: 26 dB(a)
- cETL Listed



## Maxi Orange Condensate Pump Kit

- Handles mini-splits up to 60,000 BTUH
- Duty cycle:
  - 50% 5 Minutes on
  - 5 Minutes off
- Capacity:
  - 10 gph @ Zero head
  - 3.8 gph @ 50' Head
- Maximum head: 50'
- Suction lift: 5'
- Sound level: 35 dB(a)
- cETL Listed



Part #	Mfg #	Description
ASP-MAX O-UNI	83919	ASP-MAXO-UNI, 100V-250V, 0.15-0.28A, 21W Universal Voltage Maxi Orange Pump Kit

Part #	Mfg #	Description
PMP02161	83909	ASP-MO-UNI, 100-250V, 0.15-0.28A, 21W Universal Voltage Mini Orange Pump Kit
PMP02159	83911	ASP-MO-115SP, 115V, Silent Plus, 0.18A, 16W Mini Orange Pump Kit
PMP02160	83912	ASP-MO-230SP, 230V, Silent Plus, 0.107A, 16W Mini Orange Pump Kit



# Condensate Management

## Lime Condensate Pump Kits

- Left or right install
- Easily accessed for filter cleaning
- (2) Line set cover styles available: Slimline or Fortress
- 3A NO/NC dry contacts rated @ 5A inductive at 230VAC
- Includes:
  - Monobloc condensate pump assembly
  - 20" x 5/8" ID Inlet tube
  - 6" x 1/4" ID Vinyl breather tube
  - 30" x 1/4" ID Vinyl discharge tube
  - 6' Power cable assembly
  - Inline fuse
  - Line set cover elbow
  - 31" Length line set cover
  - Ceiling plate
  - Drain hose adapter
  - Anti-siphoning device
  - (4) Cable ties
  - Wall plugs and screws
  - Installation manual



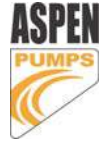
## Mini Lime Condensate Pump Kit

- Handles mini-splits up to 30,000 BTUH
- Duty cycle: continuous
- Capacity:
  - 3.2 gph @ Zero head
  - 0.8 gph @ 33' Head
- Maximum head: 33'
- Sound level: 27 dB(a)



## Maxi Lime Condensate Pump Kit

- Handles mini-splits up to 60,000 BTUH
- Duty cycle: 66% 10 minutes on / 5 minutes off
- Capacity:
  - 10 gph @ Zero head
  - 8 gph @ Zero head
- Noise level: 35 dB(a)



Part #	Mfg #	Description
PMP02149	83830	ASPMAXLF115, 115V, 0.23A, 18W with Fortress Cover Maxi Lime Pump Kit
PMP01914	83831	ASPMAXLF230, 230V, 0.10A, 15W with Fortress Cover Maxi Lime Pump Kit
PMP02156	83834	115V, OEM No Duct, 0.16A, 13.5W Maxi Lime Pump Kit
PMP02157	83835	230V, OEM No Duct, 0.10A, 15W Maxi Lime Pump Kit

Part #	Mfg #	Description
PMP02155	83849	ASP-ML-UNI, 100-250V, Slimline Universal, 0.10-0.16A, 16W Line Set Cover Mini Lime Pump Kit
PMP02153	83851	ASP-ML115SP, 115V SlimLine Ivory, 0.16A, 13.5W Mini Lime Pump Kit
PMP02154	83852	230V SlimLine Ivory, 0.10A, 15W Mini Lime Pump Kit
PMP02151	83859	ASP-MLF-UNI, 100-250V, Fortress White 0.10-0.16A, 16W Mini Lime Pump Kit
PMP02150	83861	ASP-MLF-230SP, 230V, Silent Plus, 0.10A, 15W Mini Lime Pump Kit
PMP02152	83869	ASP-MLOEM-UNI 100-250V, 0.10A, 16W Universal Voltage Mini Lime Pump Kit



# Condensate Management

## Aqua Condensate Pump Kits

- Ultra slim profile
- Fits inside evaporator or line set cover
- Integral hanging loop and separate reservoir facilitates attachment in vertical applications
- 3A NO/NC dry contacts rated @ 5A inductive at 230VAC
- Includes:
  - Pump
  - 1.5m Plug and play power cable
  - Reservoir with filter, float, and lid
  - 150mm Vinyl breather tube 6mm ID
  - Anti-siphon device
  - 1.5m Suction breather tube 6mm ID
  - 220mm Blue inlet hose 14mm ID
  - Drain connector kit
  - Fixing kit
  - Installation manual

### mini aqua® Condensate Pump Kit

- Handles mini-splits up to 30,000 BTUH
- Duty cycle:
  - 50% 5 minutes on
  - 5 minutes off
- Capacity:
  - 3.2 gph @ Zero head
  - 0.8 gph @ 33' Head
- Maximum head: 33'
- Sound level: 24 dB(a)
- Suction lift: 5'
- cETL Listed



Part #	Mfg #	Description
PMP02062	83809	ASP-MA-UNI, 100-250V, 0.07-0.13A, 16W Universal Voltage mini aqua® Pump Kit
PMP02147	83811	ASP-MA-115SP, 115V Aqua Silent Plus mini aqua® Pump Kit
PMP02148	83812	ASP-MA-230SP, 230V Aqua Silent Plus mini aqua® Pump Kit
PMP02165	83806*	24V 0.13A, 15W mini aqua® Pump Kit for LG Art Cool

\* Includes transformer package

## White Condensate Pump Kits

- Surface mounts below evaporator at either end
- Crisp white color and slim profile (additional colors available)
- Resilient mounting
- Cleanable replaceable plastic filter cartridge accepts water treatment tablet
- Accepts standard 5/8" drain hose from any mini-split
- Extra large reservoir capacity minimizes pump operation
- All components clip apart for easy disassembly without tools
- Push-in plug power cable
- No breather tube required
- No need to disturb evaporator to clean filter, reservoir clips out from front for easy removal and replacement
- 3A N/C Dry contacts rated @ 5A inductive @ 230VAC
- Includes:
  - Monobloc condensate pump assembly
  - 39" Power cable
  - Inline fuse
  - Installation manual
  - (3) Wall anchors
  - (3) Screws
  - Hose clamp
  - Water treatment tablet
  - Anti-siphon device

### mini blanc® Condensate Pump Kit

- Handles up to 30,000 BTUH
- Duty cycle: continuous
- Capacity:
  - 3.2 gph @Zero head
  - 0.8 gph @ 33' Head
- Maximum head: 33"
- Sound level: 25 dB(a)
- Maximum water temperature: 104°F
- cETL Listed



Part #	Mfg #	Description
PMP02158	83939	ASP-MW-UNI, 100-250V, 0.18A, 16W Universal Voltage mini blanc® Pump Kit
COV05007	83933	FP1037, Ivory Cover for White Condensate Pump



# Condensate Management

## Purple Peristaltic Pump Kits

### Universal Peristaltic Pump kit

- Operates with (2) temperature sensors (red and blue) activates the pump when there is a temperature differential between the sensors on start-up
- Continuous duty
- Capacity: 1.65 gph @ 39' Head
- Maximum head: 39'
- Sound level: 47 dB(a)
- Less reservoir and overflow switch
- Includes:
  - Pump
  - 10' Temperature sensor leads
  - Vinyl tubing
  - 6' Modular power cable
  - Inlet tube and adapter
  - Universal mounting bracket



Part #	Mfg #	Description
PMP02162	83965	ASP-PERI-UNI-115, 115V, 0.20A, 46W Purple Pump Kit
PMP02163	83966	ASP-PERI-UNI-230, 230V, 02.0A, 46W Purple Pump Kit

### Peristaltic Pump Replacement Tube



Part #	Mfg #	Description
PMP02164	83892	ASP-PERITUBE Peristaltic Replacement Pump Head, 1-1/4" x 11' Hose

## Mini-Split Condensate Pump Kits

### Micro-V Mini-Split Pump Kit

- Compatible with all mini-split air conditioner brands and models
- Silent+, Univolt technology Plug and Play connection
- Self-priming
- Duty cycle: 50%, 5 Minutes on/5 minutes off
- Capacity:
  - 3.8 gph @ Zero head
  - 0.8 gph @ 33' Head
- Maximum head: 33'
- Suction lift": 6.6'
- Sound level: 21dB(A)
- Maximum water temperature: 104°F
- Maximum output: 66,000 btuh
- 2-Year warranty



Part #	Mfg #	Description
PMP02216	83949	ASP-MV-UNI, 100-250VAC, 0.45A, 16W

## Condensate Pump Parts



Part #	Mfg #	Description
FLR08246	83893	5/8" Pre-filter for All Pumps

## Industrial Magnetic Drive Pumps

### MD Series 1/10 HP Non-Submersible



- Thermally protected, open, fan cooled, permanent split capacitor motor
- Sleeve bearings
- In-line use
- Fluid temperature: 150°F
- Ambient temperature: 77°F
- cCSAus Listed



Part #	Mfg #	Model	Description
4-MD-SC	582503	4-MD-SC	115V, 6'





# Condensate Management

## Utility Transfer Pumps

### Non-Submersible, Self-Priming Transfer Pump

- Flow rate: 1,152 gph @ 20' head
- 105' Maximum lift
- 1/2 hp
- 60Hz, 9A
- Operates in-line only
- Self-priming to 15' when priming chamber is filled
- Thermal overload protection
- 3/4" Brass garden-hose adapters on intake and discharge
- cCSAus Listed



Part #	Mfg #	Model	Description
PMP02170	555101	UPSP-5	115V, 10' Cord

## Water Wizard® 5-Series Submersible Utility Pumps

- Commercial, industrial and home uses where liquid must be transferred or recirculated
- 1/6 hp Shaded pole motor with overload protection
- Flow rate: 1,200 gph @ 1' head
- 26.3' Maximum lift
- Pumps down to 1/8"
- 60Hz, 380W, 5A
- Designed for continuous duty
- Epoxy-coated cast aluminum housing
- 1" FPT Discharge includes garden hose adapter
- Bottom inlet has removable screen for cleaning
- cCSAus Listed



### 5-MSP Oil-Filled Submersible Utility Pump

Part #	Mfg #	Model	Description
5-MSP	505000	5-MSP	115V Manual, 10' Cord
PMP02185	505176	5-MSP-18	115V Manual 18' Cord

## Drainosaur® Water Removal Systems

- 5 Gallon polypropylene tank
- Easy-to-remove filter trap
- 1/3 hp
- Cast iron pump housing with protective epoxy coating

### Drainosaur® Water Removal System

- Flow rate: 46 gpm @ 5' head
- Diaphragm switch activator
- cCSAus Listed pump



Part #	Mfg #	Model	Description
WRS-6 115V	506055	WRS-6	115V Auto, 10' Cord
WRS-6 230V	506056	WRS-6	230V Auto, 10' Cord

## Dominator® Wastewater & Sewage Ejector Pumps

- Cast iron pump housings and volutes with protective epoxy coating for corrosion and rust resistance
- Mechanical-type seals
- Thermal overload protection

### 16S Series Oil-Filled Submersible Pump

- Solids handling to 2"
- 1 hp, Ball bearing motor
- Flow rate: 160 gpm @ 10' head
- 3" Discharge
- Requires control panel to operate
- cCSAus Listed



Part #	Mfg #	Model	Description
16S-CIM 230V	514720	16S-CIM	230V Manual, 3-Ph, 20' Cord
16S-CIM 460V	514730	16S-CIM	380/460V Manual, 3-Ph, 20' Cord
16S-CIM 200 208	514750	16S-CIM	200/208V Manual, 3-Ph, 20' Cord



# Condensate Management

## Sump/Effluent Pumps

### HT-10E High Temperature Submersible Sump/Effluent Pump

- Solids handling up to 3/4"
- Cast iron construction
- Liquid temperature: 200°F
- 2-Year warranty



Part #	Mfg #	Model	Description
PMP02207	511610	HT-10EB-CIM	115V Manual, 15' Cord
PMP02211	511710	HT-10EN-CIA-FS	115V Mechanical Float, 15' Cord

## EC Mini-Split/Ductless Condensate Pumps

### EC-1 Mini-Split/Ductless Condensate Pump

- Designed for use in removing condensate from wall mount, ductless mini-split air conditioners up to 34,000 BTU, also removes condensate from fan coils and suspended ceiling air conditioners
- Two-piece design allows reservoir to be placed within the air handler while the pump-controller is located outside the air handler
- Clear reservoir for instant visual inspection of water level, float and filter
- Hall effect on/off level sensors with high water safety sensor
- Multi-step drain hose adapter: 1/2", 5/8", 3/4"
- 60" Power cable
- 3.3' Communications cable (pump to reservoir)
- Thermal protection: 176°F
- Flow rate: 2.5 gph @ 1' head
- 33' Maximum lift
- Ambient temperature range: 32°F to 140°F
- Maximum water temperature: 140°F
- 1/4" Pump discharge outlet
- Normally-closed relay rated at 8A resistive - 250V alarm
- Includes wall bracket for pump and reservoir
- cCSAus Certified



Part #	Mfg #	Model	Description
EC-1 115V	553500	EC-1	115V 60Hz
EC-1 208-230V	553501	EC-1	230V 50/60Hz

## EC-1-DV Series Dual Voltage Condensation Pump

- For multiple electrical requirements within one pump
- Noise reduction
- Dual Voltage: 110 to 240V
- Frequency: 50/60Hz
- Maximum lift: 33'
- Suction lift: 3-3/10'
- Sound level: 21 dB
- Hall effect switching
- Large inlet filter



Part #	Mfg #	Model	Description
PMP02202	553505	EC-1-DV	110/240V @50/60Hz

## EC-400 Electronic Mini-Split/Ductless Condensate Pump

- Flow rate: 2.5 gph @ 1' head
- Maximum flow rate: 4 gph
- 35' Maximum lift
- Compact 2-piece design allows flexible installation for mini-split A/C units
- Self-priming pump can be located up to 3' above reservoir
- For intermittent operation, maximum 50% duty cycle
- Use with most mini-split air conditioning units up to 25,000 BTUH
- Includes:
  - Safety switch
  - Suction tubing: 3" x 5/32" ID
  - Vent tubing: 8" x 5/32" ID
  - Drain tubing: 3" x 1/2" ID
  - Tubing adapter: 5/32" x 1/4" ID
- cURus Listed



Part #	Mfg #	Model	Description
EC-400,115V	553455	EC-400	115V, 60Hz
EC-400 230V	553450	EC-400	230V, 50/60Hz

# Condensate Management

## EC-1K Mini-Split/Ductless Condensate Pump Kit

- Right or left side installation
- Line set inside dimensions: 2.1" x 3.0"
- Line set duct accommodates 3/8" and 5/8" line set pipe
- Includes:
  - (EC-1) Mini condensate pump
  - 19.7" Drain hose tubing
  - Detachable 84" power cord
  - 90° Elbow for locating pump reservoir
  - 31.5" Straight line set cover
  - Twist motion snap-lock clips and cable ties to secure line set
  - Pump enclosure/mounting bracket
  - Wall fasteners for line set duct
  - Air conditioner trim and bracket
  - Ceiling plate for installing without pump enclosure



Part #	Mfg #	Model	Description
EC-1K 115V	553510	EC-1K	115V, 60Hz
EC-1K 208-230V	553511	EC-1K	208-230V, 60Hz
EC-1K 230V	553512	EC-1K	230V, 50Hz

## EC-OP-K Series Mini-Split/Ductless Kit

- 29' Maximum lift
- Flow rate: 3.6 gph @ 2' head
- 8A Resistive - 250V alarm
- 1/4" Pump discharge outlet
- Maximum horizontal distance: 131'
- Ambient temperature range: 32°F to 140°F
- Thermal protection: 176°F
- Maximum water temperature: 140°F (49°C)
- Clear reservoir for instant visual inspection of water level, float and filter
- Safety alarm ready, suitable for BMS systems
- Accepts 5/16" Inlet tubing with universal adapter
- Accepts 5/32" Discharge tubing with 1/4" adapter
- Removes condensate from ductless mini-split wall mount, cassette air conditioners, and fan coils
- Includes:
  - EC-OP Pump and concealing cover
  - Mounting bracket and hardware
  - Template for quick and accurate location beneath any air handler
- cCSAus Listed



Part #	Mfg #	Model	Description
EC-OP-K	553712	EC-OP-K	230V @ 50/60HZ

## VC Automatic Condensate Removal Pumps

- Liquid temperature: 120°F (49°C)
- Discharge: 3/8" barbed

### VCC Series Low Profile Tank Condensate Pump

- 1/30 hp Motor
- Flow rate: 80 gph @ 1' head
- 20' Maximum lift
- 115V @ 60Hz; 230V @ 50/60Hz
- 3/10 Gallon ABS tank, volute and switch cover
- Removable 3/8" barbed check valve
- Suitable for high-efficiency, gas-furnace condensation
- Thermal overload protection
- UL and CSA Listed



Part #	Mfg #	Model	Description
VCC-20ULS 115V	554200	VCC-20ULS	115V, Safety
VCC-20ULS 230V	554210	VCC-20ULS	230V, Safety

### VCL-14ULS Series Large Tank Condensate Pump

- 1/50 hp Motor
- Flow rate: 200 gph @ 1' head
- 14' Maximum lift
- 115V @ 60Hz
- 1 Gallon ABS tank, volute and switch cover
- Thermal overload protection
- cCSAus Listed



Part #	Mfg #	Model	Description
VCL-14ULS	553101	VCL-14ULS	115V, Safety



# Condensate Management

## VCL-24ULS Series Large Tank Condensate Pump

- 1/18 hp Motor
- Flow rate: 270 gph @ 1' head
- 24' Maximum lift
- 115V @ 60Hz; 230V @ 50/60Hz
- 1 Gallon ABS tank, volute and switch cover
- Snap-action switch
- Thermal overload protection
- cCSAus Listed



Part #	Mfg #	Model	Description
VCL-24ULS 230V	553206	VCL-24UL	115V
VCL-24ULS 115V	553201	VCL-24ULS	115V, Safety

## VCL-45ULS Series Large Condensate Pump

- 1/5 hp Motor
- Flow rate: 450 gph @ 1' head
- 45' Maximum lift
- 115V @ 60Hz; 230V @ 50/60Hz
- 1 Gallon ABS tank, volute and switch cover
- Snap-action switch
- Thermal overload protection
- 3/8" Discharge copper tube
- cCSAus Listed



Part #	Mfg #	Model	Description
VCL-45ULS 115V	553240	VCL-45ULS	115V, Safety
VCL-45ULS 230V	553245	VCL-45ULS	230V, Safety

## VCL Series In-Pan Condensate Pump

- 1/4 hp motor
- Flow rate: 410 gph @ 1' head
- 34.50' Shut-off
- 230V @ 50Hz
- 1 Gallon ABS tank
- Safety overflow switch
- Thermal overload protection
- CE Listed



Part #	Mfg #	Model	Description
VCL-45S	553138	VCL-45S	230V Auto, 6' Cord

## VCMA Automatic Condensate Pumps

- 115V @ 50Hz; 230V @ 50/60Hz
- Fully automatic
- 1/2 Gallon leak-proof, rust-proof, high-impact ABS tank
- (3) Drain holes
- 3-Prong plug
- Snap-action switch
- Stainless steel shaft
- Polypropylene impeller
- ABS Plastic motor, tank cover and volute
- Includes removable 3/8" barbed check valve
- Optional safety switch
- Suitable for high-efficiency, gas furnace condensate and condensing boilers
- Thermal overload protection

## VCMA Series Condensate Pump less Tubing

- VCMA-15: 65 gph @ 1' Head, 1/50 hp
- VCMA-20: 80 gph @ 1' Head, 1/30 hp
- 6' Cord
- cCSAus Certification



Part #	Mfg #	Model	Description
VCMA-15UL 115V	554401	VCMA-15UL	115V, 15' Lift
VCMA-15ULS 115V	554405	VCMA-15ULS	115V, 15' Lift, Safety
VCMA-20UL 115V	554421	VCMA-20UL	115V, 20' Lift
VCMA-20ULS 115V	554425	VCMA-20ULS	115V, 20' Lift, Safety
VCMA-20UL 230V	554451	VCMA-20UL	230V, 17' Lift
VCMA-20ULS 230V	554455	VCMA-20ULS	230V, 17' Lift, Safety

## VCMA Series Condensate Pump with Tubing

- 20' of 3/8" ID Tubing
- 6' Cord
- cCSAus Certification



Part #	Mfg #	Model	Description
VCMA-15ULT 115V	554411	VCMA-15ULT	115V, 15' Lift
VCMA-15ULST 115	554415	VCMA-15ULST	115V, 15' Lift
VCMA-20ULST 115	554435	VCMA-20ULST	115V, 20' Lift
VCMA-20ULST 230	554461	VCMA-20ULST	230V, 20' Lift

# Condensate Management

## VCMX NEXTGen™ Automatic Condensate Pumps

- 1/30 hp High performance motor with patent-pending cooling design to increase pump life
- 115V: 84 gph @ 1' Head, 93W, 1.5A  
230V: 80 gph @ 1' Head, 75W, 0.6/0.5A
- Fully automatic
- 115V @ 60Hz, 230V @ 50/60Hz
- 0.3 Gallon tank
- 3/8" Check valve
- 3/8" Discharge
- External test/run lever for quick and easy drainage of tank for servicing
- Ideal for collecting, detecting and the automatic removal of condensate from air conditioning equipment, dehumidifiers, high efficiency furnaces, condensing boilers and other equipment where an automatic drain pump is required
- Thermal overhead protection
- Includes mounting bracket

### VCMX Series Condensate Pump less Tubing

- 6' Cord
- cCSAus Listed



Part #	Mfg #	Model	Description
VCMX-20UL 115V	554520	VCMX-20UL	115V, 21' Lift
VCMX-20ULS 115	554530	VCMX-20ULS	115V, 21' Lift, Safety
VCMX-20UL 230V	554521	VCMX-20UL	230V, 20' Lift
VCMX-20ULS 230V	554531	VCMX-20ULS	230V, 20' Lift, Safety

### VCMX Series Condensate Pump with Tubing & Safety Switch

- 20' Tubing
- 6' Cord
- cCSAus Listed



Part #	Mfg #	Model	Description
VCMX-20ULST115V	554550	VCMX-20ULST 115V	115V, 21' Lift
VCMX-20ULST 230	554551	VCMX-20ULST 230V	230V, 20' Lift

## VCMX Series Condensate Pump with Anti-Sweat Sleeve

- External tank anti-sweat sleeve
- 6' Cord
- cCSAus Listed



Part #	Mfg #	Model	Description
VCMX-20ULS-C115	554542	VCMX-20ULSC	115V, 21' Lift, Safety

## ABS Shallow-Pan Condensate Pumps

### 1-ABS Series Automatic Shallow Pan Condensate Removal Pump

- 1/150 hp Oil-filled motor
- Flow rate: 205 gph @ 1' head
- 10' Maximum lift
- 115V 60Hz, 230V 50/60Hz
- Automatic operation on level 1-3/4", off level 1-1/4"
- Epoxy-coated, cast aluminum housing and motor cover
- Nylon volute
- Stainless steel shaft
- Screened intake
- Liquid temperature: 120°F (49°C)
- Discharge: 1/4" MPT
- Advanced mechanical switch
- Thermal overload protection
- Operates in most standard condensate drain pans
- cCSAus Listed



Part #	Mfg #	Model	Description
550521	550521	1-ABS	115V, 9' Cord
1-ABS	550532	1-ABS	230V, 11' Leads

# Condensate Management

## 2-ABS Automatic Shallow Pan Condensate Pump

- 1/40 hp Oil-filled motor
- Flow rate: 300 gph @ 1' head
- 11.8" Maximum lift
- 115V 60Hz, 230V 50/60Hz
- Automatic operation on level 3", off level 2"
- Epoxy coated cast aluminum housing
- Nylon volute
- Stainless steel shaft
- Fluoroelastomer (FKM) shaft seal
- Hooded intake
- Liquid temperature: 120°F (49°C)
- Discharge: 1/2" MNPT
- Designed for in-pan placement
- Thermal overload protection
- Includes 1/2 Gallon tank
- CSAus Listed



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Part #	Mfg #	Model	Description
2-ABS	551020	2-ABS	115V, 9' Cord

## 3-ABS Automatic Shallow Pan Condensate Pump

- 1/12 hp Oil-filled motor
- Flow rate: 310 gph @ 1' head
- 26" Maximum lift
- 1 Gallon ABS tank
- 115V 60Hz, 230V 50/60Hz
- Automatic operation on level 4-1/4", off level 3-1/4"
- Epoxy coated cast aluminum housing and motor cover
- Nylon volute
- Stainless steel shaft
- Fluoroelastomer (FKM) shaft seal
- Liquid temperature: 120°F (49°C)
- Discharge: 1/2" MNPT
- Designed for in-pan placement
- Thermal overload protection
- cCSAus Listed



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Part #	Mfg #	Model	Description
3-ABS	551320	3-ABS	115V, 9' Cord

## Condensate Overflow Switches

### Condensate Overflow Safety Switch for VCMX

- Allows for easy access and greater installation flexibility to prevent overflow flooding
- Can be installed to activate audible and/or visual alarm, or lift system
- Low voltage
- ABS Housing and float
- 5A Maximum
- cCSAus Listed



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Part #	Mfg #	Model	Description
ACS-X10	599136	ACS-X10	24VAC, 10" Wire
ACS-X72	599137	ACS-X72	24VAC, 72" Wire

### Auxiliary Condensate Overflow Safety Switch

- ABS Housing and float
- 5A Maximum
- Low voltage
- Can be installed to activate audible and/or visual alarm, or lift system
- CSA Listed



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Part #	Mfg #	Model	Description
ACS-2 18	599122	ACS-2	48VAC/DC, 18" Wires
ACS-2 72	599123	ACS-2	48VAC/DC, 72" Wires
ACS-3	599124	ACS-3	125-250VAC/DC, 72" Wires

### Inline Auxiliary Condensate Overflow Safety Switch

- Easy to install, inspect, and maintain
- Compact design for vertical or horizontal installations, inline or plugged
- Low voltage
- Can be installed to activate audible and/or visual alarm, or lift system
- 3/4" Plug, 3/4" Slip x 3/4" MPT
- Includes 1" x 3/4" adapter
- 5A Maximum
- cULus Listed



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Part #	Mfg #	Model	Description
ACS-4	599125	ACS-4	24VAC, 72" Wire

# Condensate Management

## Auxiliary Condensate Overflow Safety Switch

- Easily installed in confined spaces
- Compact design for installation in auxiliary outlet of primary drain pan
- Can be installed to activate audible and/or visual alarm, or lift system
- Includes 1" x 3/4" PVC 90° elbow and 3/4" MNPT x 3/4" male slip adapter
- 5A Maximum
- cULus Listed

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Part #	Mfg #	Model	Description
ACS-5	14940157	ACS-5	24VAC, 72" Wires

## Check Valves

- For Series VCC, VCMA, and VCL-14/24
- Connects to 3/8" ID vinyl tubing

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Part #	Mfg #	Model	Description
CV-10	599065	CV-10	1/4" MPT to 3/8" ID

## Condensate Pumps

### ClearVue™ Pump

- 0-22' Lift
- Floatless Sensor™
- IQ Technology™ thinks and adapts to changing conditions
- Clear tank
- Variable speed
- Self-cleaning

DIVERSITECH



Part #	Mfg #	Description
PMP01906	IQP-120	120V Pump
PMP02072	IQP-120T	120V ClearVue™ Pump with 20' 3/8" Tube

## CP-16 Compact Condensate Pump

- 16' Lift
- Includes:
  - Hang tabs
  - (4) Inlet holes
  - Float switch
  - Overflow switch
  - Check valve

DIVERSITECH



Part #	Mfg #	Description
PMP01866	CP-16	120V Condensate Pump
PMP01867	CP-16-230	230V Condensate Pump

## CP-22 Condensate Pump

- 22' Lift
- Vertical type pumping unit
- Overflow safety switch
- High impact ABS tank, ABS motor and tank covers, volute and impeller
- Thermally protected motor, stainless steel shaft
- Engages in 2-1/2" of water, disengages in 1-1/8"
- Includes:
  - Vibration dampening feet
  - Motor mounts
  - Metal hang tabs
  - (4) Inlet holes
  - Clear indicator display
  - Float switch
  - Check valve
- UL Listed
- CSA Certified™



CP-22



CP-22LP

DIVERSITECH

Part #	Mfg #	Description
PMP01746	CP-22	115V Condensate Pump
PMP01747	CP-22T	115V Condensate Pump with Tubing
PMP01807	CP-22LP	115V Low Profile Condensate Pump
PMP01790	CP22-230	230V Condensate Pump
PMP01791	CP-22-230T	230V Condensate Pump with Tubing
PMP01868	CP-22LP-230	230V Low Profile Condensate Pump, 4-3/8" Tall, 1/3 gal Reservoir

# Condensate Management

## ClearVueKube™ Mini-Split Pump

- Variable lift 0' to 15'
- Floatless Sensor™
- IQ Technology™ to think and adapt to changing conditions
- Self-cleaning
- For ductless (mini-split) systems



Part #	Mfg #	Description
PMP02043	IQP-KUBE	120/230V ClearVueKube™
PMP02042	IQP-KUBE-S	120/230V ClearVueKube™ w/ Shroud HROUD

## ClearVue™ Mini Pump

- Suction lift up to 6.5'
- Floatless Sensor™
- IQ Technology™ to think and adapt to changing conditions
- 3-1/2" x 1-1/2" x 2"
- (3) LED indicator lights: power, run and alarm
- Built-in overflow switch that shuts down the compressor in case of clogged line
- Separate tank that can be located away from pump
- Rubber mounting pad
- 2-Year extended warranty



Part #	Mfg #	Description
PMP02068	CVMINI	120/240V ClearVue™ Mini Pump

## Mini-Split Condensation Drain Line

- Cut marks every 3-9/32'



Part #	Mfg #	Size	Length
TUB13662	230-DL16-20	5/8" ID	20'/Roll
TUB13188	230-DL16	5/8" ID	160'/Roll

## Mini-Split Drain Line Wye



Part #	Mfg #	Description
ADP01358	230-DLFY	Mini-Split Drain Line Wye

## Mini-Split Drain Line Adapter



Part #	Mfg #	Size
ADP01353	230-DLF16	16mm
ADP01354	230-DLF18	18mm
ADP01355	230-DLF20	20mm
ADP01356	230-DLF25	25mm
ADP01357	230-DLF32	32mm

## ClearVue™ Condensate Tubing

- Clear PVC
- See directly into tube to detect blockages and prevent problems
- Ideal for installation in condensate drain lines



CV-TUBE

CV-PTRAP

Part #	Mfg #	Size
TUB12987	CV-TUBE	3/4" x 5'
TRP00045	CV-PTRAP	3/4"





# Condensate Management

## Clear Vinyl Tubing

### 3/8" ID Clear Vinyl Tubing



Part #	Mfg #	Model	Length
T-20-25 VC	599033	T-20	20'

## Tubing

### Clear Vinyl Tubing



- For air conditioning and refrigeration condensate drains, condensate pump discharge lines, and humidifier overflows

Part #	Mfg #	Size	Length
TUB10609	7-14	1/4" ID	100'/Roll
TUB13849	7-316	3/16" ID	100 yards
TUB13955	7-CVMINITUBE	3/16" ID	100'/Roll
TUB10610	7-38	3/8" ID	100'/Roll
TUB10612	7-58	5/8" ID	100'/Roll
TUB10611	7-12	1/2" ID	100'/Roll
TUB10613	7-34	3/4" ID	100'/Roll
TUB10614	7-78	7/8" ID	50'/Roll
TUB10615	7-10	1" ID	50'/Roll

## Gorilla Tube® Premium Clear Vinyl Tubing

- Non-toxic clear vinyl chloride
- Extra rigid design resists crimping and kinking due to durometer value of 80 (Shore A) and thicker wall
- Maximum service temperature: 140°F
- Better performance in cold weather climates



Part #	Mfg #	Size	Length
TUB12635	7-14P	1/4" ID	100'/Roll
TUB12584	7-38P	3/8" ID	100'/Roll
TUB12636	7-12P	1/2" ID	100'/Roll
TUB12637	7-58P	5/8" ID	100'/Roll
TUB12638	7-34P	3/4" ID	100'/Roll
TUB12639	7-78P	7/8" ID	50'/Roll
TUB12640	7-10P	1" ID	50'/Roll

## A/C Drain Sucker Kit



- Condensate drain clog repair and treatment kit
- Includes:
  - Drain sucker and hoses
  - PurCool® shock tabs
  - PurCool® pan strip treatment
  - All fittings for suction or pressure applications



Part #	Mfg #	Description
PMP02087	61308	Drain Cleaner/Repair Kit

## Condensate Drain Line Cleaners

### Charles Gallo Drain Gun and Accessories

- Clears condensate drains with a SWOOSH CO2 cartridge
- Lightweight, portable
- Pressure: 800 psi
- Includes (1) tapered fitting for 3/8" to 3/4" drain openings
- Environmentally safe and recyclable cartridges



Part #	Mfg #	Description
TOL01751	GG-1	Gallo Gun
TOL02246	GG-1A	Gallo Gun Adapter Kit
TOL04065	GG-1H	Gallo Gun Hose Assembly
RNG01851	GG-1BOR	Bottom O-Ring on Drain Gun, 5/Pk
TOL04066	GG-1TF	Gallo Gun Tip
TOL03169	GGC-12	Replacement Cartridge for SWOOSH CO2, 12/Pk



# Condensate Management

## Drain Kat™ and Drain Dawg™ Condensate Drain Line Cleaner and Accessories

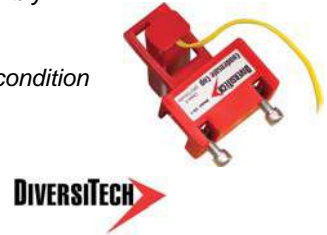


Part #	Mfg #	Description
TOL04008	MBK-6	Drain Kat Mini Kit for N2 or CO2
TOL04007	CB-2	Drain Dawg Kit for CO2
TOL04010	AP-DK	Drain Kat Accessory Pack
TOL04009	AP-DD	Drain Dawg Accessory Pack
TOL04011	BS-25	Blow gun with Safety Tip
TOL04018	QN-S3	Needle Tip for Blow gun
TOL04012	CB-03	3/4" F Cone Tip for Blow gun
TOL04013	CK-141	3/4" M Cone Tip for Blow gun
TOL04019	TC-25	Tire Chuck for Drain Dawg
TOL04014	DF-75	Inflatable Tip for Drain Dawg Blowout
TOL04608	DK-75	Drain Suction Device
HSE01809	TG-10	120" Blow Gun Hose for Drain Dawg
HSE01810	TG-87A	87" Blow Gun Hose for Drain Kat
TOL04015	FA-01	N2 to CO2 Adapter (MxM) for Drain Kat
TOL04016	FA-02	N2 to CO2 Adapter (FxM) for Drain Dawg
TOL04017	FA-03	CO2 Transfill adapter for Drain Kat
TOL04287	C2-5S	#2.5 Straight Valve Cylinder
TOL04271	C5	#5 Aluminum Cylinder

## Condensate Detection Switches

### Condensate Cop™ Clamp-On Float Switch

- Large over clamping area that fits the edge of all types of drain pans
- Separate float/probe assembly swivels to position switch
- Switch opens when rising water presents a flooding condition
- 2-Wire connection
- 24V/1.5A NC Reed switch
- Includes:
  - 5' Leads
  - Wire nuts
  - Clamping screws



Part #	Mfg #	Description
SWT03021	CC-1	Drain Pan Switch

## Condensate Overflow Switches

### Condensate Universal Alarm

- Universal low voltage alarm
- 2-Wire connection
- Actuates at greater than 18V to prevent low voltage false alarms
- Low current draw



Part #	Mfg #	Description
SWT03284	UA-1	Low Voltage Alarm

## Multi-Position A/C Shutoff Switch

- 2-Wire installation
- For use with 6' standard 18AWG wire
- Clear design
- LED Indicator light
- Hinged fast lock clamp
- Universal pan mount
- Push-to-test button



Part #	Mfg #	Amps	Voltage
SWT03772	CS1200	5A	24V

# Condensate Management

## Drain Line Switches

### Wet Switch Flood Detector

- Solid state control designed to help prevent flooding
- Turns system off when detecting moisture due to condensate or drain leaks
- Connects to 24VAC
- LED Indicates switch is activated
- Simple, 5-wire installation



Part #	Mfg #	Description
SWT02467	WS-1	Wet Switch

## Condensate Switches

- Shuts off system when water level in auxiliary or main drain pipe rises due to clogged condensate drain
- Easy installation on primary or auxiliary drain plugs
- Magnetic reed switch
- Constructed of materials that will not rust or stick
- Switch easily accessible for service
- Flexible red-wire or yellow-wire connection
- NEC Code compliant
- Conforms to UL508



Part #	Mfg #	Description
SWT03672	CS-1	Tee
SWT03673	CS-2	Elbow
SWT03674	CS-3	Clip

## Condensate Management Systems

### Water Sensor & Drain Port

- For Goliath and Goliath value series
- 3/4" PVC Threaded male pipe adapter and rubber gasket
- 14 AG-GFR Vibration isolators



Part #	Mfg #	Description
TOL04562	96142	Water Sensor & Drain Port

### Drain Hose & Parts

#### Mini-Split Condensate Drain Hose



Part #	Mfg #	Description
HSE01500	83001	DH-14 1/2" ID x 165', Non-Insulated Lite
HSE01498	83002	DH-16 5/8" ID x 165', Non-Insulated Standard
HSE01501	83004	DH-16, 5/8 x 164', UV-Resistant, Non-Insulated White
HSE01502	83011	DSH-14, 1/2" ID x 65', Insulated, Smooth Bore
HSE01503	83012	DSH-20N 3/4" ID x 65', Insulated
HSE01504	83013	DSH-25N, 1" ID x 65', Insulated

### Connector



Part #	Mfg #	Description
CPL01075	83021	DSH-14J, 1/2" ID Coupler, Join 83011
ADP01120	83020	DSH-14-16V, 3/4" ID, 83011 to 3/4" PVC Pipe Adapter

### Fitting



Part #	Mfg #	Description
FTG01080	83022	DY-16, 5/8" Vented Drain Wye



# Condensate Management

## Wall Sleeve

- Used to provide a seal when penetrating walls



Part #	Mfg #	Description
SLV00203	83015	FPS-65, 2-1/2" ID, 5° Inclined
SLV00202	83017	NFP-75, 3" OD x 5" - 7-3/4" Telescoping

## Drain Pans

### 20 Gauge Welded Drain Pan

- 20 Gauge galvanized steel
- Welded corners and welded 3/4" MPT fitting



Part #	Mfg #	Size
PAN02720	JODP1632	16" x 32"
PAN02723	JODP3030	30" x 30"
PAN02852	38X48W	32" x 48"
PAN02724	JODP3276	32" x 76"
PAN03012	32X76W	32" x 76"
PAN02726	JODP3440	34" x 40"
PAN02878	36X60W	36" x 60" x 2"
PAN02874	36X72W	36" x 72"
PAN02727	JODP4040	40" x 40"

### 22 Gauge Welded Drain Pan

- 22 Gauge galvanized steel
- Welded corners and welded 3/4" MPT fitting



Part #	Mfg #	Size
PAN02718	14X32W	14" x 32"
PAN02719	14X44W	14" x 44"
PAN02721	18X42W	18" x 42"
PAN02722	18X46W	18" x 46"
PAN02725	25X34W	25" x 34"
PAN02872	30X30W	30" x 30"
PAN02897	30X60W	30" x 60"
PAN02716	32X60W	32" x 60"
PAN02717	32X66W	32" x 66"
PAN02873	36X36W	36" x 36"
PAN02715	52X26W	52" x 26"

## Heavy-Gauge Welded Drain Pan with Steel Nipples



Part #	Mfg #	Size
PAN02213	14X44W	14" x 44"
PAN02821	18X44W	18" x 44"
PAN02822	24X48W	24" x 48"
PAN02343	PAN/004	30" x 66"
PAN02823	32X36W	32" x 36"
PAN02849	32X48W	32" x 48"
PAN02212	32X60W	32" x 60"
PAN02824	32X66W	32" x 66"
PAN02462	40X27W	40" x 27"
PAN02538	PAN/45422	45" x 42" x 2"

## HBCP Series Drain Pan with Stands

- Platform has a drain pan spout welded to (1) side with a heater stand spot welded into the interior of the pan
- (2) Heater stands zip screwed to the other side to accommodate a gas furnace
- Use with a horizontal gas furnace and horizontal evaporator coil



Part #	Mfg #	Size
BAS01892	HBCP3260	32" x 60" with 6' Stand
BAS02225	HBCP3568	34" x 35"

## Condensate Drain Pans

### Condensate Metal Drain Pan

- 26 Gauge
- Seamless
- Rolled edge
- (2) Outlets, short and long
- Includes fittings



Part #	Mfg #	Size
PAN02906	6-M2748	27" x 48"
PAN02907	6-M2763	27" x 63"
PAN02908	6-M3030	30" x 30"
PAN02909	6-M3050	30" x 50"
PAN02910	6-M3060	30" x 60"
PAN02911	6-M3263	32" x 63"



# Condensate Management

## A/C Secondary Condensate Drain Pan

- 3/4" Diameter PVC discharge fitting
- 2" Depth
- Plastic construction
- Rolled edges for durability
- Ribbed bottoms for rigidity
- Suffix B: pack of 25
- Suffix 100: bulk pack of 100



Part #	Mfg #	Bottom Dimensions	Drain Outlet Side
PAN02317	6-1246L	12" x 46"	Long Side
PAN02319	6-1838L	18" x 38"	Long Side
PAN02320	6-1838S	18" x 38"	Short Side
PAN02321	6-1846L	18" x 46"	Long Side
PAN02322	6-1846S	18" x 46"	Short Side
PAN02323	6-2424L	24" x 24"	Long Side
PAN02324	6-2626L	26" x 26"	Long Side
PAN02325	6-2739L	27" x 39"	Long Side
PAN02326	6-2748L	27" x 48"	Long Side
PAN03796	6-2748L-100	27" x 48"	Long Side
PAN02492	6-2748N	27" x 48"	No Drain
PAN02327	6-2748S	27" x 48"	Short Side
PAN02328	6-2763L	27" x 63"	Long Side
PAN02329	6-2763S	27" x 63"	Short Side
PAN02330	6-3030L	30" x 30"	Long Side
PAN02331	6-3050L	30" x 50"	Long Side
PAN02332	6-3050S	30" x 50"	Short Side
PAN02333	6-3060L	30" x 60"	Long Side
PAN03797	6-3060L-100	30" x 60"	Long Side
PAN02493	6-3060N	30" x 60"	No Drain
PAN02334	6-3060S	30" x 60"	Short Side
PAN02336	6-3263S	32" x 63"	Short Side
PAN02335	6-3263L	32" x 63"	Long Side
PAN02337	6-3636L	36" x 36"	Long Side
PAN02339	6-3660S	36" x 60"	Short Side
PAN02338	6-3660L	36" x 60"	Long Side

## Condensate Drain Pan



Part #	Mfg #	Size	Material
PAN03318	230-DPML	16-3/4" x 49"	Metal
PAN03320	230-DPMM	16-1/4" x 32-1/2"	Metal
PAN03317	230-DPPL	16-3/4" x 38"	Poly
PAN03319	230-DPPM	16-3/4" x 32-1/4"	Poly

## High Rise Pan™ Kit

- Allows placement of an air handler 2-3/4" above the outside lip of pan without mounting blocks
- Molded-in network of risers to give a 5" lift
- Includes:
  - Condensate Cop™ float switch
  - (6) EVA Anti-vibration pads
  - (1) 3/4" PVC Male adapter



Part #	Mfg #	Size
PAN02905	6-HK2748	27" x 48"
PAN02930	6-HK2766	27" x 66"
PAN02904	6-HK3060	30" x 60"
PAN02928	6-HK3050	30" x 50"

## High Rise Pan™ Installation Kit



Part #	Mfg #	Description
KIT17788	6-HKIT	Installation Kit less Drain Pan

## Furnace Pan



- One-piece construction
- Includes:
  - (8) HPR-6 Risers
  - (1) 3/4" Male PVC adapter

Part #	Mfg #	Size
PAN03939	6-HK3364FUR	33" x 64"
PAN03938	6-HK3378FUR	33" x 78"

# Condensate Management

## Condensate Drain Pan Fittings

### A/C Condensate Drain Pan Fitting

- Use with condensate drain pans



Part #	Mfg #	Size	Connection
FTG00876	6-1	3/4"	Slip
FTG00877	6-2	1"	Slip
6-3	6-3	3/4"	Slip w/Plastic Nut
FTG00879	6-5	3/4"	FPT

### A/C Easy Tee Condensate Drain Service Ports

- Works with N2, water or shop vac
- No valve or moving parts



Part #	Mfg #	Description
TOL04203	ET75	3/4" Tee w/ Service Port
TOL04202	ST75	Service Tool Kit & Fittings

## Drain Pan Cleaners

### Actabs™ Drain Line Biocide

- EPA Registered biocide eliminates or prevents most blockages in air conditioning and refrigeration drain lines due to build up of bacterial slime, rust, scale, sludge, airborne dust, silt, and other solids
- Lasts up to (3) months
- Recommended for drain pan and computer rooms



Part #	Mfg #	Description
CHM00192	68102	EE (3) Tablet Pouch for 1.0 to 5.0 Tons
CHM01121	68106	XX (12) Tablet Pouch for Systems 16.0 Tons or Lger

### Actabs™ Jr Drain Pan Cleaner

- EPA Registered biocide
- Eliminates or prevents most blockages in air conditioning and refrigeration lines due to build-up of bacterial slime, rust, scale, sludge, airborne dust, silt, and other solids



Part #	Mfg #	Description
CHM00195	68104	(200) Tablet Bottle

### Hydrex™ A/C Drain Pan Tabs

- Prevents drain line and pan blockage in air conditioners, humidifiers and refrigerators due to build up of sludge and slime
- (2) Tablets per one ton of air conditioning controls odor and sludge for up to (3) months
- Easily dispensed
- Long lasting



Part #	Mfg #	Description
CHM01122	68115	(200) Tablet Bottle

## Drain & Waste Line Cleaners

### Easy Klear™ 3-Way Cleanout Valve

- For A/C and refrigeration condensate drain lines
- Removable cap allows access for shop-vac cleaning
- 1/4" Opening allows access to blow out clogs using CO2 or nitrogen charges
- Recommended for: condensate drain line
- Easy upstream or downstream access to drain line



Part #	Mfg #	Description
FTG00868	97585	3/4" Dia

### Nu-Line A/C Condensate Drain Cleaner

- Removes slime build-up and keeps drain lines open
- Use every three months



Part #	Mfg #	Description
CHM00775	97685	8 oz Bottle
CHM00776	97690	32 oz Bottle

# Condensate Management

## Mighty Pump™ A/C Condensate Drain Cleaner

- Lightweight, reversible, hand-operated pump
- Clear blocked lines from inside or outside a home
- Flexible inlet and outlet hoses connect to standard condensate drain lines
- (2) Spring check valves for 2-way flow without backflow



Part #	Mfg #	Description
PMP01924	97795	Mighty Pump
HSE01912	97796	(2) Hose

## Condensate Drain Pan Cleaners

### Pro-Treat® 151 Premium Drain Pan Treatment

- Premium tablets penetrate and help remove sludge that can plug drain pans and drain lines and foul humidifier pans
- Kills odors associated with slime and sludge, minimizing maintenance problems from overflow and water damage caused by fouled pans, plugged traps, or drain lines
- Tablets are 100% soluble, easy-to-use, and do not form any deposits in the pan or drain line
- Approved for computer rooms
- Dosage: 1 tablet per 3.0 tons each month
- EPA registered



Part #	Mfg #	Description
CHM00310	PT-153	(6) Tablets/Card
CHM00308	PROTREAT-151	(100) Tablets per Jar

### Pro-Treat® 152 King-Size Premium Condensate Drain Pan Treatment

- Economical, safe, effective king-size tablets last three times longer
- Safe, non-corrosive, odor-free and 100% soluble
- Computer room approved
- Keeps drain pans and condensate lines clean and free flowing
- Dosage: 1 tablet per 3.0 tons per 3 months



Part #	Mfg #	Description
CHM00309	PROTREAT-152	(12) Tablets per Jar

## Pro-Treat® 161 Condensate Drain Pan Treatment

- Controls odors and eliminates condensate drain pan overflows and the resulting water damage
- 100% soluble, easy-to-use, non-corrosive, non-toxic
- Use regularly to assure season-long, trouble-free condensate drain pan performance
- Approved for computer rooms
- Dosage: 2 tablets per 3.0 tons each month



Part #	Mfg #	Description
CHM00296	PROTREAT-161	(100) Tablets per Jar

## Pro-Treat® 200 Economy Condensate Drain Pan Treatment

- Safe, non-corrosive, odor-free and 100% soluble
- Computer room approved
- Dosages: (3) tablets per 3.0 tons per month



PROTREAT-200 PROTREAT-217

Part #	Mfg #	Description
CHM00297	PROTREAT-200	(200) 2.3gm Tablets per Jar
CHM00554	PROTREAT-217	(200) 1.7gm Tablets per Jar

## Flow-Plus™ Condensate Pan Treatment

- 100% Active polymer formula
- Leaves no residue or waste and is nonclogging
- Effective, long-term activated release
- Environmentally safe, non-toxic and non-corrosive
- Sizes to meet all tonnage requirements, and last a minimum of 3 months



Part #	Mfg #	Description
CHM00718	FLOW-PLUS-CP	(6) Tablets per Clamshell
CHM00635	FLOW-PLUS-25	(25) Tabs/Jar for 0.5 to 3.0 Ton
CHM00626	FLOW-PLUS-20	(200) Tabs/Jar for 0.5 to 3.0 Ton
CHM00687	FLOW-PLUS-6	6 oz Clamshell for 3.0 to 5.0 Ton
CHM00828	SCM-185-8	7.5 lb Tub for Over 50.0 Ton
CHM00689	FLOW-PLUS-10	10 oz Tub for 5.0 to 20.0 Ton
CHM00688	FLOW-PLUS-12	1.25 lb Tub for 20.0 to 50.0 Ton

# Condensate Management

## Pro-Treat® 154 Evaporative Air Cooler Cleaner and Deodorizer

- Typically (1) tablet per 5,300 CFM



Part #	Mfg #	Description
CHM00639	PT-154	(1) Tablet per Pack

## Sani C-N-D™ Coil & Drain Pan Disinfectant

- EPA Registered disinfectant, fungicide, mildewstat and viricide
- Ready-to-use



Part #	Mfg #	Size
CHM00693	SANI-CND	1 gal
CHM00645	SANI-CND-32	32 oz

## Condensate Drain Pan Sealants

### Pan Patch™ Drain Pan Sealant

- Seals out rust and corrosion
- Self-leveling formula ideal in a damp or wet environment
- Cures under water



Part #	Mfg #	Size	Coverage
CHM01022	PANPATCH-BA G	10/Bag	8 sq ft
CHM01021	PANPATCH-32	1 qt	40 sq ft
CHM01020	PANPATCH	1 gal	160 sq ft

### Pan-Kote Heavy-Duty Drain Pan Patch Aerosol

- Seals out rust and corrosion
- Stays flexible in variable weather conditions
- Rubberized flexible coating



Part #	Mfg #	Size
SEL00944	641-14	14 oz

## Condensate Drain Pan Treatment

### Condensate Drain Pan Tab

- Keeps pan and drain lines clear
- Control overflows, odor and water damage
- Easy to use completely soluble
- Will not form any deposits in pan or drain
- Safe non-toxic, non-corrosive



Part #	Description
DTR031320	200/Jar

### Time-Release Condensate Drain Pan Treatment Strip

- Time released strips
- Active ingredients contained within a polymer strip sealed inside a non-skid woven fabric casing
- Helps control odors, overflows and water damage
- Non-corrosive
- Registered with the EPA to kill odor-causing bacteria (EPA Reg. No. 63281 -2-80464)



Part #	Size	Qty
DTR1-2-E	1 Ton	2/Pk
DTR1-10-R	1 Ton	10/Pk
DTR1-50-B	1 Ton	50/Pk
DTR2-1-E	1-2.5 Ton	1/Pk
DTR2-10-R	1-2.5 Ton	10/Pk
DTR2-20-B	1-2.5 Ton	20/Pk
DTR5-1-E	3-5 Ton	1/Pk
DTR5-6-R	3-5 Ton	6/Pk
DTR5-20-B	3-5 Ton	20/Pk
DTR10-1-E	7-0 Ton	1/Pk
DTR10-2-R	7-0 Ton	2/Pk
DTR10-8-B	7-0 Ton	8/Pk
DTR25-1-R	10-25 Ton	1/Pk
DTR25-8-B	10-25 Ton	8/Pk
DTR25-4-R	10-25 Ton	12/Pk
DTR50-1-E	25-50 Ton	1/Pk
DTR50-4-B	25-50 Ton	4/Pk





# Condensate Management

## IAQ Assurance Program

### PanPads®

- Eliminates build-up of bacteria and slime growth in air conditioning and refrigeration condensate drain pans



4295-36



4295-34



4296-24



4296-45

Part #	Mfg #	Description
CHM00464	4295-34	"5" Size - For up to 5 Tons
CHM00711	4295-36	"5 Slim" Size - For up to 5 Tons
CHM00465	4296-24	"15" Size - For up to 15 Tons
CHM00466	4296-45	"45" Size - For up to 45 Tons

### Gel Tabs™ Drain Pan Treatment



- Protects drain pan against clogs
- Gel formulation locks tab into place
- Completely dissolves
- Up to 3 months of protection
- Eliminates foul and musty odors



Part #	Mfg #	Description
CHM00749	4185-03	Treats up to 3 Tons
CHM00750	4185-05	Treats up to 5 Tons
CHM00751	4185-15	Treats up to 15 Tons
CHM00752	4185-20	Treats up to 20 Tons

### Gel Tabs™ Condensate Drain Pan Treatment

- Formulated with a breakthrough gel locking technology for treating air conditioning drain pans and lines
- Keeps the drain pan from clogging and eliminates foul and musty odors
- Designed to completely dissolve at an even rate over a 3-month period leaving nothing to remove when the product is done working



Part #	Mfg #	Description
CHM01112	4185-04	3.0 Ton Tab (200 Ct)

### Pan-Treat™ Condensate Pan Tablets

- Effective in treating build-up of sludge, scum, and other condensate pan accumulations
- Safe, non-corrosive, non-toxic and biodegradable
- Completely soluble in water and does not form any deposits



Part #	Mfg #	Description
CHM00469	429660	200 Tablets

### Condensate Aerosols

#### Pan Spray



- Waterproof rubberized coating
- Seals out rust and corrosion
- Repairs leaky condensate pans, cooling towers, swamp coolers, roofing, gutters and down spouts



Part #	Mfg #	Description
CHM00492	4296-50	16 oz Aerosol, White
CHM00632	4296-51	16 oz Aerosol, Black
CHM00633	4296-51C	16 oz Aerosol, Black (Canada)

# Condensate Management

## Pan Treatments

### ClenAir® PurCool® Strips

- Prevent sludge build-up and drain pan corrosion
- Cleans drain pan and lines
- Controls odors, improves IAQ
- Maintain free flowing drains
- Lasts up to (6) months



Part #	Mfg #	Description
CHM01070	61040	Commercial Pad, 30.0 Ton
CHM01071	61041	Commercial Pad, 10.0 Ton
CHM01072	61042	Residential Pad, 5.0 Ton
CHM01073	61043	Residential Pad, 3.0 Ton
CHM01098	61047	Residential Pad, 3.0 Ton Bulk
CHM01100	61053	Tablet, Single

### ClenAir® PurCool® Green Strips

- Plant-based, environmentally friendly
- Prevent slime and sludge build-up
- Keeps condensate drain pan lines clean and free-flowing
- Metal and plastic safe
- 4 to 6 Month service life



Part #	Mfg #	Description
CHM01074	61044	Mini-Strip, 5.0 Ton
CHM01075	61045	Commercial Strip, 10.0 Ton
CHM01076	61046	Commercial Strip, 30.0 Ton
CHM01077	61051	Tablet, Single
CHM01099	61052	Tablet, Bulk



# Condensate Traps & Overflow Switches

## EZ Trap® Condensate Traps & Overflow Switches

### 100 Series ClearTrap™ Economy Trap Kit

- Includes:
  - 3/4" Trap
  - 3/4" Cross
  - 3/4" Tee
  - (3) 3/4" Red caps



EZT-113B

Part #	Mfg #	Description
TRP00043	83113	EZT-113, 3/4" with 1" Drop less Brush
TUB13202	83114	EZT-113B, 3/4" with 1" Drop & Brush

### 100 Series ClearTrap™ High Flow U-Bend Standard Trap Kit

- Used for commercial applications
- Includes:
  - 1" Standard trap
  - 1" Cross
  - 1" Tee
  - (2) 1" Red cap
  - 1" x 3/4" Reducer bushing
  - 3/4" Black stub
  - 1" Male adaptor
  - Cleaning brush



Part #	Mfg #	Description
TRP00031	83119	EZT-119, 1" with 1" Drop

### 200 Series Switched Deep Cross SmartTrap™ Kit

- Float switch overflow protection
- Clear cleanable trap
- Deep U-bend
- Includes:
  - 3/4" Standard trap
  - 1" Cross
  - 1" Red cap
  - 1" x 3/4" Bushing
  - 3/4" Tee
  - 3/4" Black stub
  - 3/4" Male adapter
  - Float switch assembly
  - 48" Cable
  - Cleaning brush
- cULus Listed



Part #	Mfg #	Description
TUB13110	83205	EZT-205, 3/4" with 3" Drop

### 200 Series Standard Switched Cross SmartTrap™ Kit

- Float switch overflow protection
- Clear cleanable trap
- Includes:
  - 3/4" Standard trap
  - 3/4" Cross
  - 3/4" Red cap
  - 1" x 3/4" Bushing
  - 3/4" Tee
  - 3/4" Black stub
  - 3/4" Male adapter
  - Float switch assembly
  - 48" Cable
- cULus Listed



Part #	Mfg #	Description
TRP00041	83210	EZT-210, 3/4" with 1" Drop & Brush

# Condensate Traps & Overflow Switches

## 200 Series Special NC Switched Screwcap SmartTrap™ Kit

- Float switch overflow protection
- Clear cleanable trap
- Fits most applications requiring automatic shut down
- Includes:
  - 3/4" Standard trap
  - 1" Cross
  - 3/4" Locking cap
  - 1" x 3/4" Bushing
  - 3/4" Tee
  - 3/4" Black stub
  - 3/4" Male adapter
  - 1" x 3/4" Bushing
  - Float switch assembly
  - 48" Cable
- cULus Listed



Part #	Mfg #	Description
TRP00039	83230	EZT-230, 3/4" Standard Trap Kit with Locking Red Cleaning Cap & Overflow Switch

## 220 Series Inline Universal Overflow Switch

- For primary and secondary drain pans
- Includes:
  - 1" x 3/4" Slip female street elbow
  - 3/4" Male adapter
  - Float switch assembly
  - 48" Cable
- UV-Resistant PVC
- cULus Listed



Part #	Mfg #	Description
SWT03224	83225	EZT-225, 3/4" Universal
SWT02895	83228	EZT-228, 3/4" w/Clear Extension Tube

## 220 Series Compact Overflow Switch

- For primary and secondary drain pans
- Includes:
  - 25 x 20mm Male street elbow
  - Float switch assembly
  - 220mm Cable
- UV-Resistant PVC
- cULus Listed



EZT-224



EZT-226



Part #	Mfg #	Description
SWT03223	83224	EZT-224, 3/4" w/Male Threaded Street Elbow
SWT02556	83226	EZT-226, 3/4" with Female Slip Street Elbow



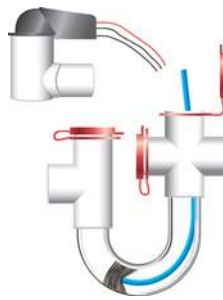
# Condensate Traps & Overflow Switches

## Condensate Traps & Overflow Switches

- Easy maintenance and overflow protection
- SmartTrap™ (200 series) adds a float switch that warns of blockage and shuts down the AC unit
- Proven reliability and higher switching capacity with microswitch technology
- Transparent trap is easy to clean and easy to inspect
- Watertight red caps provide easy access to clean the trap and drain pan outlet
- Quality construction with durable Sch 40 PVC fittings

### EZT-626 Combination Pack Trap Kit

- Includes EZT-226
  - (1) Float switch assembly
  - (1) Terminal cover
  - (1) 1" x 3/4" Slip street ell
  - (1) 3/4" Male threaded adapter
  - (1) 48" Cable
  - (1) Red/Blue label
- Includes EZT-113B
  - (1) 3/4" Blow Molded EZ-Trap®
  - (1) 3/4" Cross
  - (3) 3/4" Red caps
  - (1) 3/4" Tee
  - (1) Yellow cleaning label
  - (1) Cleaning brush



Part #	Mfg #	Description
KIT09699	83626	Combo Pack: EZT-113B Trap Kit, EZT-226 Drain Pan Overflow Switch

## UltraTrap™ Waterless Condensate Traps

- For negative and positive pressure systems up to 0.5" WG, capacity 2.7 gpm
- UltraTrap™ design retains no water and needs no priming
- Spring-assisted float eliminates standing water and freezing problems associated with conventional P-traps
- UltraTrap™ allows free flow of condensate while preventing back airflow in either direction
- Captive twist-off locking ring
- Transparent trap allows for easy cleaning and inspection
- Stainless steel spring

### Ultra Waterless Trap Kit

- Waterless freeze protection
- Can be used with positive and negative pressure systems
- Includes:
  - 3/4" UltraTrap™
  - 3/4" Cross
  - 3/4" Male adapter
  - (2) 3/4" Red caps
  - 3/4" Coupler
  - Cleaning brush



Part #	Mfg #	Description
TRP00044	83150	EZT-150, Fits 3/4" or 1" Diameter

## Parts & Accessories



Part #	Mfg #	Description
BRU00553	83405	EZT-405, 18" Flexible Stainless Steel Heavy-Duty Cleaning Brush
BRU01777	83406	EZT-406, 18" Flexible Cleaning Brush

# Condensate Traps & Overflow Switches

## Condensate Overflow Switches

### Safe-T-Switch SS1



- Inline, low voltage condensate overflow shut-off switch
- Installs vertically or horizontally in primary drain or plugged on auxiliary pans
- Pre-wired with 4' 18 AWG wires

Part #	Mfg #	Description
SWT03232	97632	3/4" Inline A/C Drain Kit

### Safe-T-Switch SS2



- L-Shaped, low voltage condensate overflow shut-off switch
- Installs on auxiliary pan outlets, requires no plug
- Pre-wired with 4' 18 AWG wires

Part #	Mfg #	Description
SWT03233	97637	3/4" Close Coupled Condensate Drain Pan Overflow Kit

### Safe-T-Switch SS3



- For installation on safety drain pans
- Features special metal clip, designed for quick secure installation on pan rims

Part #	Mfg #	Description
SWT03234	97647	A/C Condensate Pan Overflow Switch

## Condensate Overflow Switches

### Safe-T-Switch® SS2AP Condensate Overflow Switch

- Detects clogged A/C condensate drains and shuts-off the system
- Schedule 40 CPVC, plenum rated and listed to UL-2043
- Can be installed on the auxiliary outlet using the 3/4" adapter
- Magnetic reed switch
- Pre-wired with 4' 18 AWG wires
- cULus Listed



Part #	Mfg #	Description
SWT03235	97640	SS2AP Condensate Switch

### Safe-T-Switch® SS500EP Condensate Overflow Switch

- Install on primary drain pan when plenum rating is needed
- Small size and slim profile great for use on commercial rooftop downflow units
- Electronic probe sensor
- Simple 2-wire design
- Onboard LED indicator
- Plenum rated wire
- 5A Carrying capacity
- Connect to yellow wire only
- cULus Listed



Part #	Mfg #	Description
SWT03238	97693	SS500EP Overflow Switch

### Safe-T-Switch® SS610E Electronic Condensate Overflow Switch

- Designed for mini-split systems
- For installation directly on primary drain pan or clipped to coils above primary drain pan
- Multi-voltage
- Can be wired in both normally open and normally closed systems
- Sensor connects to indoor units
- Onboard LED indicator can be mounted to side of unit
- No batteries required
- cULus Listed



Part #	Mfg #	Description
SWT03779	97622	SS610E Safe-T-Switch® Condensate Overflow Switch

# Pads & Equipment Mounts

## Equipment Supports & Pads

### Ultralite® Lightweight Equipment Pad



- Concrete pad at weight of plastic
- EPS Core prevents warping and provides solid bottom to resist settling
- Limited lifetime warranty



Part #	Mfg #	Size
PAD00836	UC1636-2	16" x 36" x 2"
PAD00837	UC2424-2	24" x 24" x 2"
PAD00838	UC2430-2	24" x 30" x 2"
PAD00839	UC2436-2	24" x 36" x 2"
PAD01061	UC2448-2	24" x 48" x 2"
PAD00840	UC2626-2	26" x 26" x 2"
PAD01062	UC2628-2	26" x 28" x 2"
PAD00842	UC3030-2	30" x 30" x 2"
PAD00843	UC3036-2	30" x 36" x 2"
PAD00844	UC3040-2	30" x 40" x 2"
PAD00845	UC3143-2	31" x 43" x 2"
PAD00846	UC3232-2	32" x 32" x 2"
PAD00847	UC3234-2	32" x 34" x 2"
PAD00848	UC3237-2	32" x 37" x 2"
PAD00849	UC3434-2	34" x 34" x 2"
PAD01438	UC3434-2	34" x 45" x 2"
PAD00850	UC3636-2	36" x 36" x 2"
PAD00851	UC3640-2	36" x 40" x 2"
PAD00852	UC3648-2	36" x 48" x 2"
PAD01063	UC3842-2	38" x 42" x 2"
PAD01439	UC4040-2	40" x 40" x 2"
PAD00854	UC1636-3	16" x 36" x 3"
PAD00855	UC2424-3	24" x 24" x 3"
PAD00856	UC2430-3	24" x 30" x 3"
PAD00857	UC2436-3	24" x 36" x 3"
PAD01443	UC2442-3	24" x 42" x 3"
PAD00859	UC2448-3	24" x 48" x 3"
PAD00860	UC2626-3	26" x 26" x 3"
PAD00861	U2660-3	26" x 60" x 3"
PAD00863	UC3030-3	30" x 30" x 3"
PAD00865	UC3040-3	30" x 40" x 3"
PAD01440	UC3132-3L	31" x 32" x 3"
PAD00866	UC3232-3	32" x 32" x 3"
PAD00867	UC3237-3	32" x 37" x 3"
PAD00868	U3353-3	33" x 53" x 3"
PAD00869	UC3434-3	34" x 34" x 3"
PAD00870	UC3445-3	34" x 45" x 3"

## Equipment Supports & Pads (Continued)

### Ultralite® Lightweight Equipment Pad

Part #	Mfg #	Size
PAD01441	UC3539-3L	35" x 39" x 3"
PAD00871	UC3636-3	36" x 36" x 3"
PAD00872	UC3642-3	36" x 42" x 3"
PAD00873	UC3648-3	36" x 48" x 3"
PAD01058	U3654-3	36" x 54" x 3"
PAD01059	U3660-3	36" x 60" x 3"
PAD00874	U3678-3	36" x 78" x 3"
PAD01064	UC3842-3	38" x 42" x 3"
PAD00876	U3870-3	38" x 70" x 3"
PAD00875	UC3865-3	38" x 65" x 3"
PAD01083	UC4040-3	40" x 40" x 3"
PAD00877	UC4042-3	40" x 42" x 3"
PAD01442	UC4044-3L	40" x 44" x 3"
PAD01060	U4054-3	40" x 54" x 3"
PAD00878	UC4347-3	43" x 47" x 3"
PAD00879	U4550-3	45" x 50" x 3"
PAD00880	U4558-3	45" x 58" x 3"
PAD00881	U4848-3	48" x 48" x 3"
PAD00882	U4854-3	48" x 54" x 3"
PAD00883	U4866-3	48" x 66" x 3"
PAD00884	U5053-3	50" x 53" x 3"
PAD00885	U5056-3	50" x 56" x 3"
PAD00886	U5075-3	50" x 75" x 3"
PAD00887	U5079-3	50" x 79" x 3"
PAD00888	U5252-3	52" x 52" x 3"
PAD00889	U5557-3	55" x 57" x 3"
PAD00890	U6067-3	60" x 67" x 3"



# Pads & Equipment Mounts

## Ultralite® Earthquake Pad

- Concrete pad at weight of plastic
- EPS Core prevents warping and provides solid bottom to resist settling
- Includes strapping
- Limited lifetime warranty



Part #	Mfg #	Description
PAD01456	UC1838-3CA	18" x 38" x 3"
PAD01428	UC2626-3CA	26" x 26" x 3"
PAD01429	UC3030-3CA	30" x 30" x 3"
PAD01430	UC3036-3CA	30" x 36" x 3"
PAD01431	UC3040-3CA	30" x 40" x 3"
PAD01432	UC3232-3CA	32" x 32" x 3"
PAD01433	UC3445-3CA	34" x 45" x 3"
PAD01434	UC3636-3CA	36" x 36" x 3"
PAD01435	UC3642-3CA	36" x 42" x 3"
PAD01436	UC3648-3CA	36" x 48" x 3"
PAD01437	UC4040-3CA	40" x 40" x 3"

## EnviroPad™ Equipment Pad

- Injection molded equipment pad created from 100% recycled materials
- Resistant to impact, ultra-violet degradation and weathering
- Will not crack, flake or warp
- Drillable



Part #	Mfg #	Size
PAD01333	EP2424-2	24" x 24" x 2"
PAD01334	EP3030-2	30" x 30" x 2"
PAD01335	EP3232-2	32" x 32" x 2"
PAD01336	EP3244-2	32" x 44" x 2"
PAD01337	EP3636-2	36" x 36" x 2"
PAD01338	EP3842-2	38" x 42" x 2"
PAD01339	EP2424-3	24" x 24" x 3"
PAD01340	EP3030-3	30" x 30" x 3"
PAD01341	EP3232-3	33" x 33" x 3"
PAD01342	EP3244-3	33" x 44" x 3"
PAD01343	EP3636-3	36" x 36" x 3"

## Cladlite® Lightweight Equipment Pad

- Fiber reinforced cement composite cladding, steel reinforcement, polystyrene foam core
- 20% Of the weight of conventional concrete pads
- Limited lifetime warranty



Part #	Mfg #	Size
PAD01377	1636-2	16" x 36" x 2"
PAD00916	2424-2	24" x 24" x 2"
PAD00917	2430-2	24" x 30" x 2"
PAD00918	2436-2	24" x 36" x 2"
PAD00919	2442-2	24" x 42" x 2"
PAD00920	2448-2	24" x 48" x 2"
PAD00921	2454-2	24" x 54" x 2"
PAD00922	2626-2	26" x 26" x 2"
PAD00923	2636-2	26" x 36" x 2"
PAD01375	2660-2	26" x 60" x 2"
PAD00924	2838-2	28" x 38" x 2"
PAD00925	3030-2	30" x 30" x 2"
PAD00926	3036-2	30" x 36" x 2"
PAD00927	3040-2	30" x 40" x 2"
PAD00928	3143-2	31" x 43" x 2"
PAD00929	3232-2	32" x 32" x 2"
PAD00930	3237-2	32" x 37" x 2"
PAD00931	3434-2	34" x 34" x 2"
PAD00932	3636-2	36" x 36" x 2"
PAD00933	3640-2	36" x 40" x 2"
PAD00934	3648-2	36" x 48" x 2"
PAD01392	3654-2	36" x 54" x 2"
PAD00935	4147-2	41" x 47" x 2"
PAD00964	1636-3	16" x 36" x 3"
PAD00982	2424-3	24" x 24" x 3"
PAD01378	2430-3	24" x 30" x 3"
PAD01051	2436-3	24" x 36" x 3"
PAD01379	2442-3	24" x 43" x 3"
PAD01380	2448-3	24" x 48" x 3"
PAD01381	2460-3	24" x 60" x 3"
PAD01374	2626-3	26" x 26" x 3"
PAD01376	2660-3	26" x 60" x 3"
PAD00983	3030-3	30" x 30" x 3"
PAD01074	3036-3	30" x 36" x 3"
PAD01053	3040-3	30" x 40" x 3"
PAD01384	3060-3	30" x 60" x 3"
PAD01385	3143-3	31" x 43" x 3"

# Pads & Equipment Mounts

## Equipment Supports & Pads (Continued)

### Cladlite® Lightweight Equipment Pad

Part #	Mfg #	Size
PAD01046	3232-3	32" x 32" x 3"
PAD00984	3237-3	32" x 37" x 3"
PAD01388	3345-3	33" x 45" x 3"
PAD01389	3465-3	34" x 65" x 3"
PAD00972	3636-3	36" x 36" x 3"
PAD01077	3640-3	36" x 40" x 3"
PAD00985	3648-3	36" x 48" x 3"
PAD01391	3650-3	36" x 50" x 3"
PAD01067	3660-3	36" x 60" x 3"
PAD01393	3678-3	36" x 78" x 3"
PAD01394	3842-3	38" x 42" x 3"
PAD01080	3865-3	38" x 65" x 3"
PAD01076	3870-3	38" x 70" x 3"
PAD01395	4042-3	40" x 42" x 3"
PAD01397	4054-3	40" x 54" x 3"
PAD01398	4062-3	40" x 62" x 3"
PAD00974	4147-3	41" x 47" x 3"
PAD01399	4183-3	41" x 83" x 3"
PAD01081	4558-3	45" x 58" x 3"
PAD01396	4550-3	45" x 50" x 3"
PAD00965	4766-3	47" x 66" x 3"
PAD01087	4848-3	48" x 48" x 3"
PAD01224	5053-3	50" x 53" x 3"
PAD01400	5056-3	50" x 56" x 3"
PAD01401	5058-3	50" x 58" x 3"
PAD01075	5070-3	50" x 70" x 3"
PAD01402	5252-3	52" x 52" x 3"
PAD01403	5557-3	55" x 57" x 3"

### Cladlite® Lightweight Round Equipment Pad

- Fiber reinforced cement composite cladding, steel reinforcement, polystyrene foam core
- 20% Of the weight of conventional concrete pads
- Limited lifetime warranty



Part #	Mfg #	Size
PAD01382	26-2	26" Round x 2"
PAD01383	30-2	30" Round x 2"
PAD01386	32-2	32" Round x 2"
PAD01390	36-2	36" Round x 2"
PAD01387	32-3	32" Round x 3"

### Hef-T-Pad™ Equipment Pad



- Injection molded
- High impact polypropylene
- UV Inhibited
- Impact, ultraviolet degradation, and weather-resistant
- Will not crack, flake or warp
- Drillable



Part #	Mfg #	Size
PAD01187	X2424211	24" x 24" x 2"
PAD01189	X2430211	24" x 30" x 2"
PAD01190	X2436211	24" x 36" x 2"
PAD01193	X3030211	30" x 30" x 2"
PAD01195	X3232211	32" x 32" x 2"
PAD01198	X3244211	32" x 44" x 2"
PAD01200	X3636211	36" x 36" x 2"
PAD01202	X3830211	38" x 30" x 2"
PAD01203	X3836211	38" x 36" x 2"
PAD01204	X3842211	38" x 42" x 2"
PAD01188	X2424311	24" x 24" x 3"
PAD01191	X2436311	24" x 36" x 3"
PAD01194	X3030311	30" x 30" x 3"
PAD01196	X3232311	32" x 32" x 3"
PAD01197	X3238311	32" x 38" x 3"
PAD01199	X3244311	32" x 44" x 3"
PAD01201	X3636311	36" x 36" x 3"
PAD01205	X3848311	38" x 48" x 3"
PAD01206	X5055301	50" x 55" x 3" Modular

### Hef-T-Foot™ Equipment Support



- Heavy-duty recycled rubber
- For equipment, pipe, cable

Part #	Mfg #	Size	Strut
BAS02656	FF-250-UNI	9-3/4"	-
BAS02659	FF-250-S	9-3/4"	1-5/8" x 3/4"
BAS02655	FF-400-S	15-3/4"	1-5/8" x 3/4"
BAS02657	FF-600-S	23-5/8"	1-5/8" x 3/4"
BAS02658	FF-1000-S	39-3/8"	1-5/8" x 3/4"

## Pads & Equipment Mounts

### The Black Pad® Equipment Pad

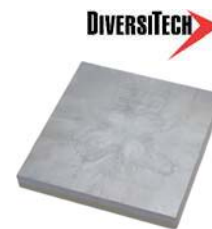
- For use with pool pumps, filters and heaters
- Ground, recycled, rubber in a CO-injection process
- Extremely durable
- UV Resistant



Part #	Mfg #	Size
PAD01405	ACP24242	24" x 24" x 2"
PAD01407	ACP24362	24" x 36" x 2"
PAD01408	ACP30302	30" x 30" x 2"
PAD01409	ACP32322	32" x 32" x 2"
PAD01410	ACP32442	32" x 44" x 2"
PAD01411	ACP36362	36" x 36" x 2"
PAD01412	ACP38422	38" x 42" x 2"
PAD01406	ACP24243	24" x 24" x 3"
PAD01106	ACP30303	30" x 30" x 3"
PAD01226	ACP32323	32" x 32" x 3"
PAD01107	ACP36363	36" x 36" x 3"
PAD01108	ACP36483	36" x 48" x 3"

### E-Lite® Plastic Equipment Pad

- Molded with size label and symbol representing content of recycled material
- Rounded edges and concrete gray color
- Limited lifetime warranty



Part #	Mfg #	Size
PAD00891	EL2424-2	24" x 24" x 2"
PAD00892	EL2430-2	24" x 30" x 2"
PAD00893	EL2436-2	24" x 36" x 2"
PAD00894	EL2626-2	26" x 26" x 2"
PAD00895	EL3030-2	30" x 30" x 2"
PAD00896	EL3036-2	30" x 36" x 2"
PAD00897	EL3040-2	30" x 40" x 2"
PAD00898	EL3232-2	32" x 32" x 2"
PAD00899	EL3238-2	32" x 38" x 2"
PAD00900	EL3244-2	32" x 44" x 2"
PAD01082	EL3434-2	34" x 34" x 2"
PAD00901	EL3636-2	36" x 36" x 2"
PAD00902	EL3640-2	36" x 40" x 2"
PAD00903	EL3648-2	36" x 48" x 2"
PAD01085	EL3842-2	38" x 42" x 2"
PAD01154	EL1838-2	18" x 38" x 3"
PAD00904	EL2424-3	24" x 24" x 3"
PAD00906	EL2436-3	24" x 36" x 3"
PAD00907	EL3030-3	30" x 30" x 3"
PAD00910	EL3232-3	32" x 32" x 3"
PAD00911	EL3238-3	32" x 38" x 3"
PAD00912	EL3244-3	32" x 44" x 3"
PAD00913	EL3636-3	36" x 36" x 3"
PAD00914	EL3640-3	36" x 40" x 3"
PAD00915	EL3648-3	36" x 48" x 3"
PAD01404	EL3842-3	38" x 42" x 3"
PAD01056	EL3870-3	38" x 70" x 3"
PAD01162	EL4040-3	40" x 40" x 3"
PAD01048	EL4558-3	45" x 58" x 3"
PAD01054	EL4848-3	48" x 48" x 3"
PAD01065	EL4872-3	48" x 72" x 3"
PAD01066	EL5252-3	52" x 52" x 3"
PAD01055	EL5658-3	56" x 58" x 3"



# Pads & Equipment Mounts

## Hurricane Pads

### The Hurricane Pad™

- Specifically designed for the hurricane prone regions of Florida and the Gulf Coast
- Heavier than a normal concrete pad
- Suitable for all 130 mph and most 150 mph installations



Part #	Mfg #	Size
PAD01161	H1840-4	18" x 40" x 4"
PAD01024	H2424-4	24" x 24" x 4"
PAD01025	H2436-4	24" x 36" x 4"
PAD01026	H3030-4	30" x 30" x 4"
PAD01419	H3060-4	30" x 60" x 4"
PAD01027	H3232-4	32" x 32" x 4"
PAD01028	H3345-4	33" x 45" x 4"
PAD01029	H3636-4	36" x 36" x 4"
PAD01084	H3642-4	36" x 42" x 4"
PAD01420	H3654-4	36" x 54" x 4"
PAD01030	H3648-4	36" x 48" x 4"
PAD01101	H3652-4	36" x 52" x 4"
PAD01421	H3672-4	36" x 72" x 4"
PAD01422	H3842-4	38" x 42" x 4"
PAD01423	H3852-4	38" x 52" x 4"
PAD01425	H3872-4	38" x 72" x 4"
PAD01424	H3865-4	38" x 65" x 4"
PAD01073	H4040-4	40" x 40" x 4"
PAD01223	H4242-4	42" x 42" x 4"
PAD01426	H4558-4	45" x 58" x 4"
PAD01427	H5557-4	55" x 57" x 4"

## Hurricane T-Class Pad™

- Meets higher wind loads of taller equipment
- Heavier than a normal concrete pad
- Meets Florida Building Code, Chapter 16
- Suitable for all 130 mph and most 150 mph installations



Part #	Mfg #	Size
PAD01413	HT1840-4	18" x 40" x 4"
PAD01031	HT2424-4	24" x 24" x 4"
PAD01032	HT2436-4	24" x 36" x 4"
PAD01033	HT3030-4	30" x 30" x 4"
PAD01034	HT3232-4	32" x 32" x 4"
PAD01036	HT3636-4	36" x 36" x 4"
PAD01037	HT3648-4	36" x 48" x 4"
PAD01414	HT3842-4	38" x 42" x 4"
PAD01415	HT3852-4	38" x 52" x 4"
PAD01416	HT4040-4	40" x 40" x 4"
PAD01417	HT4242-4	42" x 42" x 4"
PAD01418	HT4558-4	45" x 58" x 4"

## Hurricane Pad™ Attachment Bracket

- Secures condenser to hurricane pad
- Use No. 8 self-drilling or self-tapping screws to secure condenser to brackets



Part #	Mfg #	Description
BRK03952	HC-1	Bracket Attachment for Hurricane Pad
BRK03953	HC-1-100	Bracket Attachment for Hurricane Pad 100/Pk

# Pads & Equipment Mounts

## Anti-Vibration Pads

### Rubber Anti-Vibration Pad

- Elastomeric oil-resistant padding
- Withstands 50 lbs per square inch



Part #	Mfg #	Size
PAD00936	MP-2	2" x 2" x 3/8"
PAD00938	MP-3	3" x 3" x 3/8"
PAD00946	MP-4	4" x 4" x 3/8"
PAD00948	MP-6	6" x 6" x 3/8"
PAD00950	MP-8	8" x 8" x 3/8"
PAD00952	MP-12	12" x 12" x 3/8"
PAD00954	MP-18	18" x 18" x 3/8"

### Rubber/Cork Anti-Vibration Pad

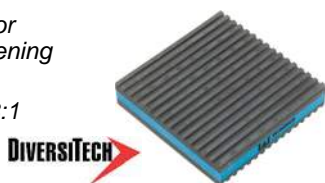
- Elastomeric oil-resistant padding
- Withstands 50 lbs per square inch
- Cork is laminated between (2) corrugated pads



Part #	Mfg #	Size
PAD00937	MP-2C	2" x 2" x 7/8"
PAD00945	MP-3C	3" x 3" x 7/8"
PAD00947	MP-4C	4" x 4" x 7/8"
PAD00949	MP-6C	6" x 6" x 7/8"
PAD00951	MP-8C	8" x 8" x 7/8"
PAD00953	MP-12C	12" x 12" x 7/8"
PAD00955	MP-18C	18" x 18" x 7/8"

### The E.V.A.™ Pad (Extreme Vibration Attenuation)

- Composite foam core for greater vibration-dampening
- Outperforms cork and rubber by a margin of 3:1



Part #	Mfg #	Size
PAD00939	MP-2E	2" x 2" x 7/8"
PAD00940	MP-3E	3" x 3" x 7/8"
PAD00941	MP-4E	4" x 4" x 7/8"
PAD00942	MP-6E	6" x 6" x 7/8"
PAD00943	MP-12E	12" x 12" x 7/8"
PAD00944	MP-18E	18" x 18" x 7/8"

### Iso-Cube Anti-Vibration Pad

- Natural rubber pads reduce vibration and noise
- Circular design for suction cup effect



Part #	Mfg #	Size	Note:
PAD00956	ISO-2	2" x 2" x 3/4"	
PAD00957	ISO-4	4" x 4" x 3/4"	
PAD00958	ISO-18	18" x 18" x 3/4"	
PAD01213	ISO-18W	18" x 18" x 3/4"	Economy

### Heat Pump Pad™

- Raises pump 8" off the ground
- Precision molded from eco-friendly, recycled polypropylene
- Base angled to direct melting snow or water from the unit
- Stackable
- Includes (8) high quality anti-vibration pads



Part #	Mfg #	Size
PAD01221	HP3636-8	36" x 36" x 8"

## Equipment Pad Accessories

### Air Handler Base

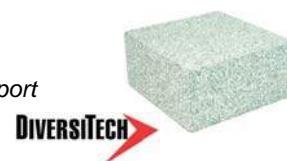
- Heavy-duty steel
- 16" to 26" Adjustable width
- 22"H x 22"D
- Supports 200 lbs



Part #	Mfg #	Color
BAS01873	6-HAB-BG	Black

### Air Handler Block

- Lightweight styrofoam block provides A/C air handler support in attic installations
- Concrete gray



Part #	Mfg #	Size	Qty
BLK00958	7-60	8" x 4" x 8"	1/Pk
BLK01185	7-64	8" x 4" x 8"	4/Pk



# Pads & Equipment Mounts

## Air Conditioner Mounting Bracket

- For hanging A/C condensers and heat pumps
- Heavy-duty 12 gauge steel
- Pre-punched 17/32" holes
- Powder coated gray finish
- Bracket width: 1-1/2"



Part #	Mfg #	Size	Qty
BRK03388	ACB-30	30"	2/Pk
BRK03389	ACB-36	36"	2/Pk
BRK03390	ACB-42	42"	2/Pk
BRK04237	ACB-48	48"	2/Pk

## Condensing Unit Mounting Plate

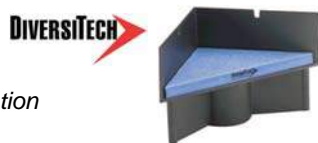
- For Rheem® condensing units



Part #	Mfg #	Size
BRK03814	A60306K	9" x 1-1/2" x 12"

## Furnace Mount Block

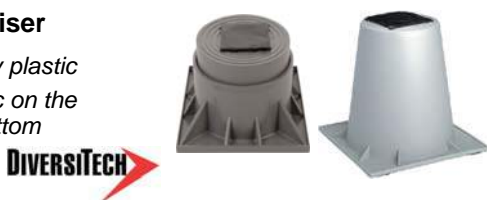
- Can support over 500 lbs
- Easy peel and stick installation



Part #	Mfg #	Size
MNT02239	FB-1	2.35" x 4" x 6"

## Heat Pump Riser

- Heavy-duty plastic
- Butylmastic on the top and bottom



Part #	Mfg #	Size	Description
BAS01870	HPR-3	3"	1-Piece
BAS01984	HPR-3-2P	3"	2-Piece
BAS01986	HPR-3-2PG	3"	2-Piece Black
BAS01871	HPR-6	6"	1-Piece
BAS01985	HPR-6-2P	6"	2-Piece
BAS01987	HPR-6-2PG	6"	2-Piece Black
BAS01872	HPR-12	12"	1-Piece

## Adjustable Equipment Riser

- Adjustable height from 5" to 8"
- Make adjustments even with equipment already on them
- Reference height markings on riser



Part #	Mfg #	Description
BAS02785	AER-8	Adjustable Equipment Riser-Gray
BAS02786	AER-8BL	Adjustable Equipment Riser-Black

## A/C Riser Block

- Elevates air handler or furnace 2-1/2"



Part #	Mfg #	Description
PAD01447	ACR-1	A/C Riser Block

# A/C Refrigeration & Maintenance

## Recovery Units

### FM3600 Commercial Recovery Machine

- Refrigerants: R-410A, R-12, R-134A, R-22, R-500, R-502, MP/HP blends
- Power source: 110-120VAC 60Hz
- Vacuum rating: 13" Hg+
- High pressure limit: 500 psi
- Compressor: 0.5 hp high performance, oil-less
- Self-purging system: no hose changes
- Recovery rate: up to 0.42 lb/min vapor and 5.00 lb/min liquid



Part #	Mfg #	Description
TOL02796	2000-3600	FM3600 Commercial Recovery Machine
TOL02746	2000-3601	FM3600, 80% Shut-Off

### FM3700 Commercial Recovery Machine

- Refrigerants: all refrigerants except R-11, R-113 and R-123
- Power source: 110 to 120VAC 60Hz or 220 to 240VAC 50/60Hz (see ordering information)
- Vacuum rating: 13" Hg+
- High pressure limit: 450 psi
- Compressor: 1 hp twin piston, high performance, oil-less
- Self-purging system: no hose changes
- Recovery rate: up to 0.84 lb/min vapor and 9.44 lb/min liquid



Part #	Mfg #	Description
TOL02795	2000-3700	FM3700 Heavy-Duty Commercial Refrigerant Recovery Machine
TOL02747	2000-3701	FM3700, 80% Shut-Off

### FM Series Recovery Machine Parts & Accessories



Part #	Mfg #	Description
GAG01081	2063-0010	High Pressure Gauge for FM3600 & FM3700
SWT03056	2014-0310	Pressure Switch for FM3600/3700

### ECO-2020™ Refrigerant Recovery Machine

- 1 hp AC Motor with overload protection
- 1-Knob operation
- Compatible with all Category III, IV and V refrigerants
- High/low pressure shut-off
- 1-Year over-the-counter warranty



Part #	Mfg #	Description
TOL04034	2020-8000	ECO-2020™, 110-120V, NA Power Cord
TOL04035	2020-8001	ECO-2020™, 110-120V, 80% Shut-Off, NA Power Cord
TOL04036	2020-0004	ECO-2020™, Optional 80% Shut-Off Cord

## Temperature & Humidity Testers

### TH1800 Humidity-Temperature Meter

- Temperature range: -4° to 140°F (-20° to 60°C)
- Relative humidity range: 10% - 95%
- Data-hold and relative functions
- Wet bulb and dew point temperature readings
- Dual LCD display with bar graph indication
- Includes:
  - Soft carrying case
  - Batteries



Part #	Mfg #	Description
MTR00980	2002-1800	TH1800 Humidity-Temperature Meter

Refrigerant Handling



# Access Valves

## Quick Couplers

### Straight Quick Coupler



Part #	Mfg #	Description
QC-S5	QC-S5	5/16" QC x 1/4" SAE Straight

### Quick-Coupler Shut-Off Fitting

- Use with existing charging hose
- Immediately traps refrigerant discharge from hose when disconnected from access fitting



33112N



33113N

Part #	Mfg #	Description
33112N	33112N	1/4" QC x 1/4" SAE
33113N	33113N	1/4" QC x 1/4" SAE, 90°

## Caps

### O-Ring Quick Seal Cap

- A/C Refrigeration or deep vacuum
- Finger tight sealing for all male SAE connections



Part #	Mfg #	Description
NFT5-4	NFT5-4	1/4" SAE Cap, 10/Pk
NFT5-4-100	NFT5-4-100	1/4" SAE Cap, 100/Box

### 1/4" SAE Keeper Chain Cap

- 100/Pack



Part #	Mfg #	Description
A31992-100	A31992-100	1/4" SAE Keeper Chain Cap

## Access Valves

### Copper Tube Extension

- Use with Sil-phos alloy and copper fittings
- Install through the side of the larger line to extend length approximately two inches
- Includes cap and valve core
- Temperature range: -40° to 250°F



Part #	Mfg #	OD	ID
A31002	A31002	1/8" OD	
A31003	A31003	3/16" OD	1/8" ID
A31004	A31004	1/4" OD	3/16" ID
A31005	A31005	5/16" OD	1/4" ID
A31006	A31006	3/8" OD	5/16" ID

### Copper Braze Tee

- Extra depth slip fit solder cups
- Bend, cut, flare, swage or pinch
- Simple installation anywhere along line



Part #	Mfg #	Description
A31134	A31134	1/4" ODS x 5/16" ODF, 3/Pk
A31136	A31136	3/8" ODS x 1/2" ODF, 3/Pk

### Swivel Flare Tee with Depressor



A31851



A31852

Part #	Mfg #	Description
A31851	A31851	1/4" Fem SAE Swivel Nut on Run
A31852	A31852	1/4" Fem SAE Swivel Nut on Branch
CON01056	A31852-100	1/4" Fem SAE Swivel Nut on Branch, 100/Pk



# Access Valves

## Access Valve

- Core pre-torqued at 2.9 - 2.95 in-lb



Part #	Mfg #	Description
A31484-100	A31484-100	1/4" MPT Half Union, 100/Pk

## Straight Brass Body Access Valve



Part #	Mfg #	Size
A31726	A31726	3/8" ODS x 1/2" ODF

## Multi-Step Brass Body Access Valve



Part #	Mfg #	Description
A31720	A31720	3/16" ODS x 1/4" or 3/8" ODF Steps

## Pump Repair Parts



Part #	Mfg #	Description
NFT5-8	NFT5-8	1/2" O-Ring Cap

## Back Seating Control Valve

- Ideal for use on precharged line sets
- Eliminates spraying of leak detection dye and refrigerant
- Swivel coupler with double safety grooves
- Made in USA



Part #	Mfg #	Size
X15130956	A33000	1/4" SAE x 1/4" 010

## Valve Core Tools

### Evacuation & Core Remover Tool

- Quarter-turn ball valve shut-off and O-ring seals
- Valve core can be removed and replaced without losing system charge
- Speed-up evacuation, recovery or recharging time through the full flow port
- Storage compartment for spare valve cores
- Made in USA



Part #	Mfg #	Size
A32525N	A32525N	1/4"

### 1/4" Valve Core Tool

- Hollow handle for storage
- Includes (6) extra cores



Part #	Mfg #	Size
A32004	A32004	1/4"

Refrigerant Handling



# Access Valves

## 1/4" Valve Core

- PTFE/Neoprene seal replacement
- Maximum pressure:  
800 psi @ 220°F (104°C)
- Made in USA



Part #	Mfg #	Pkg Qty
A31999	A31999	5/Pk
A31999-25	A31999-25	25/Pk
A31999-100	A31999-100	100/Pk

## Valve Core Torque Tool

- Automatically sets proper torque to 5in-lbs
- Calibrated to precise torquing requirements for core valves
- Works with all Schrader valve cores



Part #	Mfg #	Description
A32008	A32008	Valve Core Torque Tool
A32008-BX	A32008-BX	Valve Core Torque Tool in Display Box, 12/Pk

## Access Valve Service Kit

- Compartmentalized storage case includes:
  - Access valves (A31002, A31003, A31004, A31005, A31006, NFT5-4, A31851, A31852, A32004)
  - Valve core tool with cores
  - plastic core removers
  - Thumbscrew core depressor (A33500)
  - Interior label includes part numbers to make restocking convenient
- Made in USA



Part #	Mfg #	Description
AVK-001	AVK-001	Access Valve Service Kit



# Charging Equipment

## Patriot™ Manifolds

### Patriot™ 2-Valve 1/4" Brass Manifold

- 3-1/8" Metal class 1 (1%) illuminating gauges
- Replacable free floating o-ring system and swiveling hose holder fittings
- Surge dampened gauges for reduced needle movement
- Original free floating dual o-ring sealing system for faster evacuation/charging
- Pull-out proof hanging hook
- Metal hand wheels
- Solid brass forging
- Camouflage design gauges available
- For each Patriot™ sold, JB will donate \$1 to Operation Homefront



Part #	Mfg #	Description
22225	22225	Manifold less Hoses
22233	22233	Manifold with 60" CCLE Hoses
22246	22246	Manifold with 60" CCLS Hoses

## Zeppelin™ Manifolds

### Zeppelin™ 4-Valve 3/8" Aluminum Manifold

- Heavy-duty forged aluminum body
- Full 3/8" bore for fast evacuation
- Sight glass standard
- Surge dampened gauges for reduced needle movement
- Original free floating dual o-ring sealing system for faster evacuation/charging
- Color-coded refrigerant dials for easy reading
- Pull-out proof hanging hook
- Replaceable intake/hose holder fittings for storage
- Soft grip rubber handwheels reduce turning to open/close
- Includes (4) 60" hose set unless otherwise noted
- Made in USA



### 3-1/8" Glow-in-the-Dark Gauges R-22, R-134A, R-404A 4-Valve Zeppelin 3/8" Aluminum Manifold

Part #	Mfg #	Description
25144-JB	25144	Manifold with 60" CCLS UL R-410A Hoses

### 3-1/8" Glow-in-the-Dark Gauges R-22, R-404A, R-410A 4-Valve Zeppelin 3/8" Aluminum Manifold

Part #	Mfg #	Description
25233	25233	Manifold with 60" CCLE Hoses

### 4" Gauges R-22, R-134A, R-404A, R-410A 4-Valve Zeppelin 3/8" Aluminum Manifold

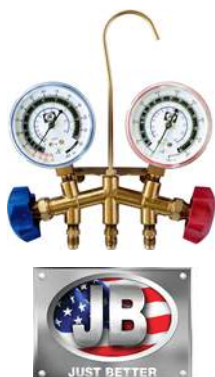
Part #	Mfg #	Description
25708	25708	Manifold with 60" CCLE Hoses

# Charging Equipment

## Standard Brass Manifolds

### Standard Brass 2-Valve Manifold

- Surge dampened gauges for reduced needle movement
- Original free-floating dual o-ring sealing system
- All metal gauges
- Color-coded refrigerant dials for easy reading
- Pull-out proof hanging hook
- Replaceable intake/hose holder fittings for storage
- Easy turning plastic handwheels
- Completely repairable
- Includes (3) 60" hose set unless otherwise noted
- Limited lifetime warranty on manifold bar
- Made in USA



### 2-1/2" Standard Gauges R-22, R-404A, R-410A Brass 2-Valve Brass Manifold

Part #	Mfg #	Description
M2-8-410A	M2-8-410A	Manifold less Hoses
M2-5-410A	M2-5-410A	Manifold with CCLE 60" Hoses

### 2-1/2" Standard Gauges with Boots for Scale R-410A

Part #	Mfg #	Description
M2-21525	M2-21525B	Manifold less Hoses B
M2-21531	M2-21531B	Manifold with CCLE 60" R/Y/B Hoses B

### 2-1/2" Gauges with Boots R-22, R-134A, R-404A 2-Valve Brass Manifold

Part #	Mfg #	Description
M2-21131	M2-21131B	Manifold with CCLE 60" Hoses B

## Revolver Manifolds

### Revolver™ Brass 4-Valve Ball Valve Manifold

- 1/4-Turn full open/close handle
- (4) Internal ball valves
- 3/8" Port for faster evacuation
- Hose holders swivel to the front and rear for flexibility
- Pull-out proof hanging hook
- Soft grip rubber handwheels reduce turning to open/close
- Surge dampened gauges for reduced needle movement
- All metal gauges
- No liquid charging adapter necessary
- Includes (4) 60" hose set unless otherwise noted
- Made in USA



### 3-1/8" Glow-in-the-Dark Gauges R-22, R-404A, R-410A 4-Valve Revolver Brass Manifold

Part #	Mfg #	Description
26225	26225	Manifold Only
26233	26233	Manifold with 60" CCLE Hoses



# Charging Equipment

## M2-Heat Pump Brass Manifold

- Forged brass body
- Because of the significant temperature glide on R-407C, the pressure/temperature scale is based on saturated vapor (dew point DP - superheat calculation)
- For temperatures above 50°, the scale is based on saturated liquid (bubble point BP - subcooling calculation)
- Replaceable intake and hose holder fittings
- Hanging hook
- Class One 1% accuracy gauges
- Heat pump pressures: 800 psi
- Includes (3) 60" hose set unless otherwise noted
- Made in USA



## 3-1/8" Glow-in-the-Dark Class 1 Gauges R-22, R-410A, R-407C Brass Manifold

Part #	Mfg #	Description
M2-HP-5	M2HP5	Manifold with CCLE 60" Hose Set

## Test Equipment

### LD-5000 Prowler Hand-Held Refrigerant Leak Detector

- Accurate for all HFC, HCFC and HFO blends
- Low battery consumption
- Circuit stability
- Long sensor life
- Large, adjustable backlit LCD screen
- High, medium, and low programmable sensitivity
- Includes (4) AA batteries
- Made in USA
- 2-Year replacement warranty



Part #	Mfg #	Description
LD5000-JB	LD-5000	Prowler Leak Detector in Case

### LD-6000IR Aurora® Infrared Refrigerant Leak Detector

- Infrared sensor life tested to last greater than 10 years
- Accurate for all CFC, HFC, HFO-1234YF and HCFC blend refrigerants
- Sensitivity can be programmed to high, medium, or low
- Accurate to 0.10 oz/year
- 8-Segment easy-to-read LED display
- Convenient carrying case
- 8-Hour lithium ion battery
- Visual and audible alerts
- Will not trigger on oil or moisture
- Magnetic hanger
- Meets SAE J2791 leak detection standard



Part #	Mfg #	Description
LD-6000IR	LD-6000IR	Aurora® Leak Detector in Case

## Manifolds

### Standard Side Wheel Manifold, 1/4" Fittings with 36" R/Y/B Standard Hose Set

- Universal gauges with Lexan™ lenses
- Solid forged brass bar
- Color-coded Lexan™ handwheels
- Field proven face seal valve
- R22/R134a



**ROBINAIR**

Part #	Mfg #	Description
MFD00778	40153	R22/R134a Manifold with 36" Hose Set

## Manifold Gauges

### Universal Compound Replacement Gauge

- psi/kPa Pressure readings
- R-22 and R-134A Temperature readings in Fahrenheit



**ROBINAIR**

Part #	Mfg #	Description
GAG00148	11794	Blue (Replaces 11692)
GAG00858	11795	Red (Replaces 11693)

Refrigerant Handling



# Charging Systems

## Refrigerant System Analyzers

### Refrigerant System Analyzer

- Comes with the TITAN™ 4-valve manifold
- External, replaceable vacuum sensor
- 84 NIST Refrigerant profiles included (upgradeable via USB for new refrigerants)
- Built-in pressure/temperature chart reference screen for all refrigerants
- Built-in full scale vacuum sensor reads deep vacuum down to 10 microns
- Dual "K-Type" temperature-compensated sensor ports allow for simultaneous section and liquid readings
- Provides real-time pressure data in selectable time increments: 0.1, 0.2, 0.5, 1 and 2 seconds
- Data logging for on screen review or USB export to PC to generate performance/Excel™ work reports
- Fully gasketed for water and dust resistance
- Pressure sensing resolution (low and high sides):
  - 0.1 psi, 0.01 bar, 1 kPa, 0.1 MPA, 0.01 kg/cm<sup>2</sup>
- Pressure sensing accuracy:
  - 0.5% of Full scale at 25°C
  - 1% of Full scale at 55° to 130°F
  - 2% of Full scale -40° to 120°C
- Working pressure (maximum measurable pressure):
  - Low side: 0-350 psia
  - High side: 0-700 psia
- Operational Temperature: -4° to 122°F (-20° to 50°C)
- 2-Year warranty



Part #	Mfg #	Description
TOL03330	40815	Refrigeration System Analyzer with Titan™ Manifold and 60" Plus II™ Charging Hoses

### Gas Pressure Test Kit

- Helps set manifold pressure for natural or LP gas
- Easier to use than a manometer
- Sensitive diaphragm gauge calibrated in inches of water column
- Tube nipple for easy connection to system manifold



Part #	Mfg #	Description
TOL01426	78060	Complete Kit, 0 - 35"wc Range

## TITAN™ 2-Valve Test & Charging Manifolds with Sight Glass (°F & °C)

- Forged aluminum alloy body makes this unit light weight
- Fourth hose to enable connection to hi-/lo-sides, refrigerant tank and recovery unit or vacuum pump for diagnostics, evacuation and charging without switching hose
- 3/8" Vacuum port
- Front access for easy field recalibration



### 3-1/8" TITAN™ PSI Scale R-22, R-404A, R-410A with Red/Blue Gauges



Part #	Mfg #	Description
MFD01124	49863	Manifold Only
MFD01125	49867	Includes 60" Plus II™ R/Y/B Hose, 1/4" Flare Fittings
MFD01104	49868	Includes 60" Plus II™ R/Y/B Hose, Compact Ball Valve 1/4" Flare Fittings

## TITAN™ 2-Valve Test & Charging Manifolds

- Forged aluminum alloy body makes this unit light weight
- Fourth hose to enable connection to hi/lo sides, refrigerant tank and recovery unit or vacuum pump for diagnostics, evacuation and charging without switching hose
- Sight glass to easily review refrigerant movement
- 3/8" Vacuum port, all other fittings 1/4"
- Front access for easy field recalibration



Part #	Mfg #	Description
MFD01111	49952	Manifold; Titan 2-valve, R134a/404A/407c NO Hose, Ritchie 49952
MFD01180	49803	Manifold; Titan 2-v R134a/22/407c 80mm
MFD01132	49836	Manifold; Ritchie 49836, 2 Valve Titan, Bar/mpa, 3 1/8" Metal Gauge, 1% Accuracy Type, R134a, 404A, 407, Celsius
MFD01190	49870	Manifold; Yellow Jacket 49870 Titan 2-valve Test & Charge Manifold, R-410a, 5/16" Fitting
MFD01191	49869	Manifold; 49869 Yellow Jacket Titan 2 Valve, R-410a, All Fittings 1/4", 5/16-1/4-5/16"
MFD01098	49955	Manifold; Titan, R134a/404A/407c LF Hav-60", Ritchie 49955

# Charging Systems

## 3-1/8" TITAN™ Scale R-12, R-22, R-134A with Red/Blue Gauges



Part #	Mfg #	Description
MFD01347	49840	Manifold Only
MFD01346	49841	Manifold w/ 72" HAVS

## 3-1/8" TITAN™ Scale R-12, R-22, R-134A with Red/Blue Gauges



- 1/2" ACME Charge

Part #	Mfg #	Description
MFD01147	49848	Manifold w/ 120" HAVS

## 3-1/8" TITAN™ Bar/PSI/Mpa (°F/°C) Scale R-22, R-134A, R-404A, R-407C, R-410A, R-422D, R-427A, R-507 with Red/Blue Solar Gauges



Part #	Mfg #	Description
MFD01201	49792	Manifold Only
MFD01202	49795	Manifold w/60" Plus II R/Y/B Hose with 3/8" x 45° Fittings

## 3-1/8" TITAN™ Bar/PSI (°F) Scale R-410A with Red/Blue Gauges



Part #	Mfg #	Description
MFD01084	49862	Manifold Only
MFD01085	49865	Manifold w/60" Plus II™ R/Y/B Hose, 1/4" Flr Fittings
MFD01086	49860	Manifold w/60" Plus II R/Y/B Hose, Compact Ball Valve 1/4" Flr Fittings

## 3-1/8" TITAN™ PSI (°F) Scale R-12, R-22, R-502 with Red/Blue Gauges



Part #	Mfg #	Description
MFD01080	49801	Manifold w/60" Plus II R/Y/B Hose, 1/4" SealRight™ Fittings
MFD01087	49802	Manifold Only
MFD01079	49805	Manifold w/60" Plus II R/Y/B Hose, 1/4" Flr Fittings

## 3-1/8" TITAN™ PSI (°F) Scale R-22, R-134A, R-404A with Red/Blue Gauges



Part #	Mfg #	Description
MFD01126	49883	Manifold Only
MFD01127	49887	Manifold w/60" Plus II R/Y/B Hose, 1/4" Flr Fittings
MFD01128	49889	Manifold w/60" Plus II R/Y/B Hose, 1/4" SealRight™ Fittings

## 3-1/8" TITAN™ PSI (°F) Scale R-134A, R-404A, R-407C with Red/Blue Gauges



Part #	Mfg #	Description
MFD01081	49832	Manifold Only
MFD01082	49835	Manifold w/60" Plus II R/Y/B Hose, 1/4" Flr Fittings
MFD01083	49831	Manifold w/60" Plus II R/Y/B Hose, 1/4" SealRight™ Fittings

## 3-1/8" TITAN™ PSI (°F) Scale R-134A with Red/Blue Gauges



Part #	Mfg #	Description
MFD01146	49847	Manifold w/72" Plus II R/Y/B Hose, 1/4" Acme Fittings

## TITAN™ 4-Valve Test & Charging Manifolds with Sight Glass (°F & °C)

- Forged aluminum alloy body makes this unit light weight
- Fourth hose to enable connection to hi-/lo-sides, refrigerant tank and recovery unit or vacuum pump for diagnostics, evacuation and charging without switching hose
- 3/8" Vacuum port
- Front access for easy field recalibration



## 3-1/8" TITAN™ PSI Scale R-22, R-404A, R-410A with Red/Blue Gauges



Part #	Mfg #	Description
MFD01129	49967	Includes 60" Plus II™ R/Y/B Hose, 3/8" x 45° Fittings
MFD01130	49968	Includes 60" Plus II™ R/Y/B Hose, Compact Ball Valve 3/8" x 45° Fittings

Refrigerant Handling



# Charging Systems

## TITAN™ 4-Valve Test & Charging Manifolds

- Fourth hose to enable connection to hi-/lo sides, refrigerant tank and recovery unit or vacuum pump for diagnostics, evacuation and charging without switching hose
- Forged aluminum alloy body makes this unit light weight
- Sight glass to easily review refrigerant movement
- 3/8" Vacuum port, all other fittings 1/4"
- Front access for easy field recalibration



Part #	Mfg #	Description
MFD01143	49993	Liquid Gauge, NO Hose, R22, R134a, R404A
MFD01209	49969	Less Hose, 5/16"-3/8"-1/4"-5/16" Hose Fittings, Red/blue, R410a C°
MFD01103	46081	Liquid Gauge, 3/8 Hi/lo Charge, 1/2 VAC Port, Without Hose

## 3-1/8" TITAN™ Bar/PSI/Mpa (°F/°C) Scale R-22, R-134A, R-404A, R-407C, R-410A, R-422D, R-427A, R-507 with Red/Blue Solar Gauges



Part #	Mfg #	Description
MFD01203	49892	Manifold Only
MFD01204	49895	Manifold w/60" Plus II R/Y/B Hose with 3/8" x 45° Fittings

## 3-1/8" TITAN™ Bar/PSI (°F) Scale R-22 with Liquid Gauges



Part #	Mfg #	Description
MFD01094	49922	Manifold Only
MFD01095	49925	Manifold w/60" Plus II R/Y/B Hose with 3/8" x 45° Fittings

## 3-1/8" TITAN™ Bar/PSI (°F) Scale R-410A with Red/Blue Gauges



Part #	Mfg #	Description
MFD01088	49962	Manifold Only
MFD01091	49965	Manifold w/60" Plus II R/Y/B Hose with 3/8" x 45° Fittings
MFD01090	49960	Manifold w/60" Plus II R/Y/B Hose with Compact Ball Valve 3/8" x 45° Fittings

## 3-1/8" TITAN™ Bar/PSI (°F) Scales R-410A - Liquid Gauges



Part #	Mfg #	Description
MFD01089	49982	Manifold Only

## 3-1/8" TITAN™ PSI (°F) Scale R-12, R-22, R-502 with Red/Blue Gauges



Part #	Mfg #	Description
MFD01092	49902	Manifold Only
MFD01159	49905	Manifold w/60" Plus II R/Y/B Hose with 3/8" x 45° Fittings

## 3-1/8" TITAN™ PSI (°F) Scale R-22, R-134A, R-404A with Red/Blue Gauges



Part #	Mfg #	Description
MFD01141	49983	Manifold Only
MFD01142	49987	Manifold w/60" Plus II R/Y/B Hose with 3/8" x 45° Fittings





# Charging Systems

## 3-1/8" TITAN™ PSI (°F) Scale R-22, R-410A with Liquid Gauges



Part #	Mfg #	Description
MFD01139	49973	Manifold Only
MFD01140	49977	Manifold w/60" Plus II R/Y/B Hose with 3/8" x 45° Fittings

## 3-1/8" TITAN™ PSI (°F) Scale R-22, R-404A, R-410A with Red/Blue Gauges



Part #	Mfg #	Description
MFD01105	49963	Manifold Only

## 3-1/8" TITAN™ PSI (°F) Scale R-22, R-134A, R-404A with Liquid Gauges



Part #	Mfg #	Description
MFD01144	49997	Manifold w/60" Plus II R/Y/B Hose with 3/8" x 45° Fittings

## 3-1/8" TITAN™ PSI (°F) Scale R-134A, R-404A, R-407C with Red/Blue Gauges



Part #	Mfg #	Description
MFD01096	49932	Manifold Only
MFD01097	49935	Manifold w/60" Plus II R/Y/B Hose with 3/8" x 45° Fittings

## BRUTE II™ 4-Valve Test & Charging Manifolds



- Full 3/8" bore, forged aluminum alloy body
- Lighter than the original Brute™
- Fourth hose enables connection to hi/lo sides, refrigerant tank, and recovery unit or vacuum pump for diagnostics, evacuation and charging without switching hose
- Double o-ring piston
- Exclusive 100-mesh filter in-line on all flare fittings
- Easy-grip color-coded handles
- Heavy-duty hook

Part #	Mfg #	Gauge	Hoses Included:
MFD01195	46150	Manifold; Brute II, R22/134a/407c, Bar/psi Scale C°	

## BRUTE II™ Commercial Grade 4-Valve Test & Charging Manifolds

Part #	Mfg #	Description
MFD01121	46082	Manifold, Red/blue Gauge, 4 @ 3/8" x 60" Heavy-Duty - Str x 45 Degree Hose R12, R22, R502
MFD01137	46092	Manifold, Red/blue Gauge, 4 @ 3/8" x 60" Heavy-Duty - Str x 45 Degree, R22 Hose, R134a, R404A
MFD01138	46094	Manifold; Ritchie 46094 Brute II 4-valve, Liquid Gauge, 3 @ 3/8" x 60" Heavy-Duty - Str x 45 Degree, 1 @ 1/2" x 60" Heavy-Duty - Str x Str Hose, R22, R134a, R404A

## BRUTE II™ Bar/PSI (°F/°C) Scale R-410A with Liquid Gauges

- 3/8" Vacuum port, 1/4" Hi/Lo charge



Part #	Mfg #	Description
MFD01115	46001	Manifold Only

Refrigerant Handling



# Charging Systems

## BRUTE II™ Bar/PSI (°F) Scale R-410A with Red/Blue Gauges

- 3/8" Vacuum port, 1/4" Hi/Lo charge



Part #	Mfg #	Description
MFD01106	46000	Manifold Only
MFD01116	46003	Manifold w/60" Plus II R/Y/B Hose with Compact Ball Valve 3/8" x 45° Fittings

## BRUTE II™ Bar/PSI (°F/°C) Scale R-22 with Liquid Gauges

- 3/8" Vacuum port, 1/4" Hi/Lo charge



Part #	Mfg #	Description
MFD01100	46021	Manifold Only
MFD01101	46026	Manifold w/72" Plus II R/Y/B Hose with 3/8" x 45° Fittings

## BRUTE II™ PSI (°F) Scale R-22, R-410A with Liquid Gauges

- 3/8" Vacuum port, 1/4" Hi/Lo charge



Part #	Mfg #	Description
MFD01118	46011	Manifold Only

## BRUTE II™ PSI (°F) Scale R-22, R-404A, R-410A with Red/Blue Gauges

- 3/8" Vacuum port, 1/4" Hi/Lo charge



Part #	Mfg #	Description
MFD01117	46010	Manifold Only
MFD01119	46013	60" Plus II™ R/Y/B Hose with Compact Ball Valve Fittings 3/8" x 45°

## BRUTE II™ PSI (°F) Scale R-22, R-134A, R-404A with Red/Blue Gauges

- 3/8" Vacuum port, 1/4" Hi/Lo charge



Part #	Mfg #	Description
MFD01122	46040	Manifold Only
MFD01135	46090	Manifold Only
MFD01114	46042	Manifold w/60" Plus II R/Y/B Hose with 3/8" x 45° Fittings
MFD01133	46043	Manifold w/60" Plus II R/Y/B Hose with Compact Ball Valve 3/8" x 45° Fittings

## BRUTE II™ PSI (°F) Scale R-22, R-134A, R-404A with Liquid Gauges

- 3/8" Vacuum port, 1/4" Hi/Lo charge



Part #	Mfg #	Description
MFD01123	46041	Manifold Only
MFD01136	46091	Manifold Only
MFD01134	46048	Manifold w/72" Plus II™ R/Y/B Hose with 3/8" x 45° Fittings

## BRUTE II™ PSI (°F) Scale R-12, R-22, R-502 with Red/Blue Gauges

- 3/8" Vacuum port, 1/4" Hi/Lo charge



Part #	Mfg #	Description
MFD01099	46020	Manifold Only
MFD01120	46080	Manifold Only
MFD01109	46022	Manifold w/60" Plus II R/Y/B Hose with 3/8" x 45° Fittings
MFD01102	46084	Manifold with (3) 3/8" x 60" Heavy-Duty Hose w/ Straight x 45 Fittngs, (1) 1/2" x 60" Heavy-Duty Hose w/ Straight x Straight Fittings

## BRUTE II™ Bar/Mpa (°C) Scale R-134A, R-404A, R-407C with Red/Blue Gauges

Part #	Mfg #	Description
MFD01131	46130	Manifold Only



## BRUTE II™ PSI (°F) Scale R-134A, R-404A, R-407C with Red/Blue Gauges

- 3/8" Vacuum port, 1/4" Hi/Lo charge



Part #	Mfg #	Description
MFD01145	46030	Manifold Only
MFD01113	46032	Manifold w/60" Plus II R/Y/B Hose with 3/8" x 45° Fittings



# Charging Systems

## BRUTE II™ PSI (°F) Scale R-134A, R-404A, R-407C with Liquid Gauges

- 3/8" Vacuum port, 1/4" Hi/Lo charge



Part #	Mfg #	Description
MFD01112	46031	Manifold Only
MFD01107	46038	Manifold w/72" Plus II R/Y/B Hose with 3/8" x 45° Fittings

## Series 41 Manifolds with 2-1/2" Gauges

- 2-1/2" Steel case gauges with 3-2-3% accuracy (Class B)
- Forged solid brass body
- Full size metal valve handles
- Hose anchors forged into back of body at 45°
- Heavy-duty swivel hook
- Flutterless™ technology for easier, more accurate readings
- Sliding double o-ring pistons
- Long-life nylon seat
- Yellow Jacket® charging hose
- Limited lifetime warranty on manifold bar and valves, not gauges



## 2-1/2" PSI Scale R-12, R-22 and R-502 less Hose



Part #	Mfg #	Description
MFD01345	41836	Manifold; R12/134a & Cplr

## 2-1/2" PSI Scale R-12, R-22 and R-502 - Original HA R/Y/B Hose



Part #	Mfg #	Description
MFD00914	41215	Manifold with 60" Hose

## 2-1/2" Bar/PSI/Mpa (°F/°C) Scale R-22, R-134A, R-404A, R-407C, R-409A, R-410A, R-438A, R-507 with Solar Gauges



Part #	Mfg #	Description
MFD01199	41612	Manifold Only

## 2-1/2" Series 41 PSI (°F) Scale R-12, R-22, R-502 with Red/Blue Gauges



Part #	Mfg #	Description
MFD00912	41212	Manifold Only
MFD00913	41213	Manifold w/36" Plus II R/Y/B Hose, 1/4" Flr Fittings
MFD00956	41220	Manifold w/48" Plus II R/Y/B Hose, 1/4" Flr Fittings
MFD00941	41219	Manifold w/72" Plus II R/Y/B Hose, 1/4" Flr Fittings
MFD01055	43213	Manifold w/36" Plus II R/Y/B Hose, 1/4" Flr Fittings
MFD00999	43220	Manifold w/48" Plus II R/Y/B Hose, 1/4" Flr Fittings
MFD00959	43215	Manifold w/60" Plus II R/Y/B Hose, 1/4" Flr Fittings
MFD00949	44213	Manifold w/36" Plus II R/Y/B Hose, 1/4" SealRight™ Fittings
MFD00962	44220	Manifold w/48" Plus II R/Y/B Hose, 1/4" Flr Fittings
MFD00948	44215	Manifold w/60" Plus II R/Y/B Hose, 1/4" Flr Fittings
MFD00961	44219	Manifold w/60" Plus II R/Y/B Hose, 1/4" Flr Fittings
MFD00926	42215	Manifold w/60" Plus II R/Y/B Hose, 1/4" Flr Fittings
MFD01058	42219	Manifold w/72" Plus II R/Y/B Hose, 1/4" Compact Ball Valve

Refrigerant Handling

# Charging Systems

## 2-1/2" kPa/PSI (°C) Scale R-12, R-22, R-502 with Red/Blue Gauges



Part #	Mfg #	Description
MFD01065	42315	Manifold w/60" Plus II R/Y/B Hose, 1/4" Compact Ball Valve

## 2-1/2" Bar/PSI (°C) Scale R-134A, R-404A, R-407C with Red/Blue Gauges



Part #	Mfg #	Description
MFD01153	41332	Manifold Only

## 2-1/2" PSI (°F) Scale R-134A, R-404A, R-507 with Red/Blue Gauges



Part #	Mfg #	Description
MFD00915	41312	Manifold Only
MFD00916	41313	Manifold w/36" Plus II R/Y/B Hose, 1/4" Flr Fittings
MFD00917	41315	Manifold w/60" Plus II R/Y/B Hose, 1/4" Flr Fittings
MFD00942	43315	Manifold w/60" Plus II R/Y/B Hose, 1/4" Flr Fittings
MFD01045	44315	Manifold w/60" Plus II R/Y/B Hose, 1/4" SealRight™ Fittings
MFD00989	44319	Manifold w/72" Plus II R/Y/B Hose, 1/4" SealRight™ Fittings

## 2-1/2" Bar/PSI (°C) Scale R-134A, R-404A, R-507 with Red/Blue Gauges



Part #	Mfg #	Description
41355	41355	Manifold w/60" Plus II R/Y/B Hose, 1/4" Flr Fittings
MFD01332	41382	Manifold Only

## 2-1/2" Bar/PSI (°F) Scale R-410A with Red/Blue Gauges



Part #	Mfg #	Description
MFD00918	41712	Manifold Only
MFD00925	42030	Manifold Only, Clamshell

## 2-1/2" Bar/PSI (°F) Scale R-410A with Red/Blue Gauges



Part #	Mfg #	Description
MFD00931	41710	Manifold w/HCA 60" Plus II R/Y/B Hose, 1/4" Flr Fittings
MFD00930	41702	Manifold w/H CABV 60" Plus II R/Y/B Hose, 1/4" Flr Fittings
MFD01069	41715	Manifold w/60" Plus II R/Y/B Hose*
MFD01156	41711	Manifold w/60" Plus II R/Y/B Hose, Compact Ball Valve*
MFD00973	41703	Manifold w/60" Plus II R/Y/B Hose, FlexFlow Fittings

\* Special R-410A hose: Red & blue hose are 1/4" x 45° 5/16" end, Yellow hose is 1/4" x 45° 1/4" end

## 2-1/2" Bar/PSI Scale R-22, R-134a, R-404A, R-407C, R-410A, R-422D, R-427A and R-507 - Plus II™ R/Y/B Hose



- Solar gauges (°F/°C)

Part #	Mfg #	Description
MFD01200	41615	Manifold with 60" Hose

## 2-1/2" Bar/PSI Scale R-410A - Plus II™ R/Y/B Hose with Standard Fittings



Part #	Mfg #	Description
MFD00919	41709	Manifold with 60" Hose

## 2-1/2" Bar/PSI Scale R-410A - Plus II™ R/Y/B Hose with Compact Ball Valve Fittings



Part #	Mfg #	Description
MFD00920	42715	Manifold with 60" Hose



# Charging Systems

## 2-1/2" Bar/PSI Scale R-12, R-22, and R-502 with Yellow Hose and Standard Fittings



Part #	Mfg #	Description
MFD01000	41204	Manifold with 60" Hose

## Series 41 Manifolds with 3-1/8" Gauges

- 3-1/8" Color-coded gauges in rugged steel cases with polycarbonate crystals
- Gauges feature 1% accuracy (Class 1) for exact reading in critical systems
- Sliding double o-ring pistons reduce wear
- Long life nylon seats
- Forged brass body for durability
- Full porting maximizes capacity and flow
- Some models include color-coded, 60" Plus II™ hose with standard 1/4" flare fittings
- Burst: 4,000 psi (275 bar)
- Working pressure: 800 psi (55 bar)
- UL Recognized hose assemblies File #SA9737



## 3-1/8" PSI Scale R-22, R-404A and R-410A less Hose



Part #	Mfg #	Description
MFD01049	42001	Manifold Only

## 3-1/8" PSI Scale R-12, R-22 and R-134A with Plus II™ R/Y/B Hose & Standard Fittings



Part #	Mfg #	Description
MFD01192	42007	Manifold w/60" Plus II R/Y/B Hose, Clamshell

## 3-1/8" PSI (°F) Scale R-22, R-134A, R-404A with Red/Blue Gauges



Part #	Mfg #	Description
MFD01064	42005	Manifold Only
MFD01360	42006	Manifold w/60" Plus II R/Y/B Hose, Clamshell

## 3-1/8" PSI Scale R-22, R-134a and R-404A - Plus II™ R/Y/B Hose with Standard Fittings



Part #	Mfg #	Description
MFD01168	42006	Manifold with 60" Hose

Refrigerant Handling



# Charging Systems

## 3-1/8" Bar/PSI (°C) Scale R-22, R-134A, R-404A with Red/Blue Gauges



Part #	Mfg #	Description
MFD01167	41622	Manifold Only

## 3-1/8" Bar/PSI (°C) Scale R-22, R-134A, R-407C with Red/Blue Gauges



Part #	Mfg #	Description
MFD01231	41642	Manifold Only

## 3-1/8" PSI Scale R-22, R-404A and R-410A - Plus II™ R/Y/B Hose with Standard Fittings



Part #	Mfg #	Description
MFD01050	42004	Manifold with 60" Hose

## 3-1/8" Bar/PSI (°F) Scales R-410A - Red/Blue Gauges



Part #	Mfg #	Description
MFD01196	42021	Manifold Only
MFD01197	42024	Manifold with 60" Hose (Clamshell)

## Series 41 Deluxe Manifolds with Class 1 Brass Gauges

- Polished solid brass gauges cases with glass crystals
- Movement calibrated at more points with tighter tolerances for full range Class 1 (1% accuracy)
- Upgraded movement with phosphor bronze plates, stainless gears and pinions
- Sliding double o-ring pistons reduce wear
- Long life nylon seats
- Forged brass body for durability
- Full porting maximizes capacity and flow
- Some models include color-coded, 60" Plus II™ hose with standard 1/4" flare fittings
- Burst: 4,000 psi (275 bar)
- Working pressure: 800 psi (55 bar)
- UL Recognized hose assemblies File #SA9737



Part #	Mfg #	Description
MFD01154	42235	Manifold; Series 41 2-Valve Deluxe Brass Gauges, with 60" Hose, Plus II with Compact Valve, Ritchie 42235, R12, R22, R502
MFD01155	42436	Manifold; Series 41 2-Valve Deluxe Brass Gauges, with 60" Hose, Plus II with Compact Valve, Ritchie 42436, R134a, R404A, R507 Ritchie 42436



# Charging Systems

## 3-1/8" PSI (°F) Scale R-12, R-22, R-502 with Red/Blue Gauges in Brass Case



Part #	Mfg #	Description
MFD01020	41232	Manifold Only
MFD01359	41235	Manifold w/60" R/Y/B Hose

## Series 41 Manifolds

- 2-Valve
- Forged brass
- 1% Accuracy over full range
- Basic unit includes:
  - Manifold
  - Gauges
  - Hook
  - Anchors
- Optional Yellow Jacket Plus II™ color-coded charging hose with 500 psi working pressure
- Limited lifetime warranty on manifold bar and valves - not gauges



Part #	Mfg #	Description
MFD00935	41207	Manifold w/36" Red/Blue & 60" Yellow Hose
MFD01048	42213	R-12/502/22 Basic Unit w/36" R/Y/B Plus II Hose w/Compact Ball Valve
MFD00940	45215	R-12/502/22 Basic Unit w/60" R/Y/B Plus II Hose w/FlexFlow Fittings
MFD00976	45219	R-12/502/22 Basic Unit w/72" R/Y/B Plus II Hose w/FlexFlow Fittings
MFD00947	43214	R-12/502/22 Basic Unit w/36" R/Y/B Plus II Hose w/Std Fittings & Case

## NH<sub>3</sub> Ammonia Manifolds

- Heavy-duty manifold with cast iron body and full size metal handles
- Finger-tight one-piece valve stem for positive seal on nylon seat
- Easy, accurate valve adjustment
- Dual temperature/pressure R717 gauge has kg/cm<sup>2</sup> with °C and psi with °F scales ammonia scales



40190



40192

Part #	Mfg #	Description
MFD00933	40190	Manifold Body with Valves
MFD00944	40192	40190 Manifold with Valves & Gauges
GAG00955	40193	40192 Manifold with Valves, Gauges, (3) NHA 48" Hose

## Heat Pump Manifolds

- Steel case with polycarbonate crystal
- High and low-side gauges read up to 800 psi
- Dials with 1% accuracy
- Sliding double o-ring pistons
- Nylon seats
- Forged brass body
- Full porting
- Full-size metal valve handles
- Burst: 4,000 psi (275 bar)
- Working pressure: 800 psi (55 bar)
- UL Recognized hose assemblies File #SA9737



## 3-1/8" R-22, R-407C, R-410A with Red/Blue Gauges

- 1/4-1/4-1/4" Hose holder fittings

Part #	Mfg #	Description
MFD01339	42041	Manifold Only
MFD01338	42040	Manifold w/(3) 60" Black 1/4" Plus II Hose, Fitted Backpack
MFD01340	42044	Heat Pump Manifold with 60" Black Plus II™ Hose

Refrigerant Handling



# Charging Systems

## R-134A A/C Manifolds

- New cars with R-134A require pop-on auto A/C couplers
- "Series 41" automotive manifold
- Comes complete with R-134A gauges, 60" environmental Plus II™ hose and couplers with control valves
- 1/2" Acme and 14mm fittings and hose anchors also included



Part #	Mfg #	Description
MFD00974	41343	Manifold, Valves, Gauges, Acme Fittings, Anchor & 60" Hose
MFD00936	41345	R-134A Manifold w/R-134A Couplers
MFD00988	41346	R-134A Manifold w/Carrying Case

## Manifold Replacement Parts

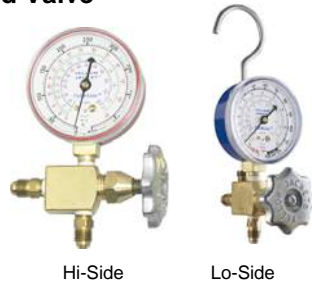


Part #	Mfg #	Description
TOL01512	40279	BRUTE, BRUTE II, BANTAM, 41 Series Swivel Hanging Hook
TOL04121	40281	Series 41 Flare Anchor 1/4" x 3/8" x 1/4" x 1/4"
HDL01019	41041	TITAN Yellow Handle with Screw
HDL01010	41042	TITAN Blue Handle with Screw
HDL01065	41044	TITAN Red Handle with Screw
GLS00950	41045	TITAN/BRUTE II Sight Glass
RTR00836	41046	TITAN/BRUTE II Sight Glass Retainer
GKT04136	41047	TITAN/BRUTE II Gaskets (2)
SCR02145	41048	TITAN Handle Screws (2)
HDL00932	41051	BANTAM Yellow Handle
HDL00933	41052	BANTAM Blue Handle
PST00112	41053	BANTAM Piston Assembly
HDL00934	41054	BANTAM Red Handle
RNG01829	41055	BANTAM O-Rings, 10/Pk
SCR02117	41056	BANTAM Feed Screw
NUT01067	41057	BANTAM Retaining Nut
SCR02100	41058	BANTAM Set of (2) Screws for Handle
KIT09704	41061	BANTAM Sight Glass Assembly (Glass, Ring & Seal)
SCR02144	41090	BRUTE II 2-Handle Screw
HDL01012	41091	BRUTE II Yellow Handle with Screw
HDL01040	41092	BRUTE II Blue Handle with Screw
HDL01026	41094	BRUTE II Red Handle with Screw
NUT01082	41096	BRUTE II Valve Retaining Nut
PST00107	41103	BRUTE, BRUTE II 3/8" Piston Assembly
RNG01710	41109	BRUTE Sight Glass O-Ring
RNG01750	41110	BRUTE O-Rings, 10/Pk
FLR07483	41117	BRUTE Sediment Screen, 4/Pk
SCR01991	41106	BRUTE II Feed Screw
NUT00995	41107	BRUTE Retaining Nut

## Single Gauge Manifolds and Valves

### Single Gauge Manifold and Valve

- Individual manifolds for hi- and lo-sides of system
- Nylon seals
- Double o-ring pistons



Hi-Side

Lo-Side

Part #	Mfg #	Description
MFD00986	40317	Hi-side Manifold with Gauge
MFD00987	40318	Lo-side Manifold R-12, R-22, R-502
MFD01343	40319	Lo-side Manifold R-134A, R-404A, R-407C
MFD01344	40320	Lo-side Manifold R-410A

### Single Manifold Valve



Part #	Mfg #	Description
VAL07246	40325	3-Port Valve, 1/8" FNPT x (2) 1/4" Male Flr



# Charging Systems

## Manifold Replacement Parts (Continued)

Part #	Mfg #	Description
SCR01990	41115	BRUTE Handle Screws (2)
KIT08015	41116	BRUTE Overhaul Kit (4 Pistons, 4 Screens)
SRN00831	41122	Replacement Particulate Filter Screen (5/Pk)
RNG01692	41131	Series 41 Manifold O-Rings, 10/Pk
KIT07496	41133	Series 41/TITAN™ 1/4" Piston, 6/Pk
SCR01887	41134	Series 41/TITAN Feed Screw
NUT01014	41135	Series 41/TITAN Retaining Nut
KIT07494	41141	Series 41 Metal Handle with Screw (4)
KIT07495	41142	Series 41/TITAN/BRUTE Set of (2) Handle Screws
KIT07497	41143	Series 41 Complete Handle Assembly

## Manifold Particulate Filter Coupler

- Traps particles before they damage valve seats or pass into recovery equipment
- Screens are replaceable and cleanable
- Made in the USA



Part #	Mfg #	Description
FLR04535	41119	1/4" Manifold Particulate Filter
FLR04536	41120	3/8" Manifold Particulate Filter
FLR04537	41121	1/2" Manifold Particulate Filter

## Manifold Parts Kit



Part #	Mfg #	Description
KIT13668	41099	Series 41, TITAN and BRUTE II Complete Parts Kit

## Manifold Carrying Case

- Blue carrying cases
- Heavy-duty blow molded plastic
- Hinged carrying handle



Part #	Mfg #	Description
CAS01207	41111	BANTAM, BRUTE & TITAN
CAS00968	41112	BRUTE, BRUTE II & Digital Analyzer Case
TOL03859	40822	Case for 40815 Refrigeration System Analyzer, 6-1/2" x 17" x 14"

## Test Gauges

### Single Test Gauge

- Quick pressure checks



Part #	Mfg #	Description
GAG00933	40341	Red Pressure °F with QC & 12" Hose, Angle Coupling
GAG00934	40342	Blue Compound °F with QC & 12" Hose, Angle Coupling
GAG00915	40331	Red Pressure °F with 19110 Quick Coupler for Recovery Tank Pressure Checks
GAG00916	40332	Blue Compound °F with 19110 Quick Coupler for Recovery Tank Pressure Checks

# Combustion Analyzers

## Combustion Analyzers

### Fyrite® INSIGHT® Plus Residential Combustion Analyzer with Tune-Rite® Software

- Five tools in one:
  - Combustion and efficiency analyzer
  - Room air CO test instrument
  - Flue gas CO tester
  - Dual channel digital thermometer
  - Digital manometer
- (9) User selectable fuels
- Full-color Graphic LCD display with real-time graphs, status and analysis results
- Includes Tune-Rite® on-demand trouble-shooting assistant
- User diagnostics
  - O2 Sensor life indication
  - Calibration reminders
- Pre-calibrated B-Smart® CO sensor with integral NOx filter 0 to 4,000 ppm
- Manual zero/auto-zero (CO) feature
- Reporting kit (optional) includes:
  - Customize test reports with company logo
  - Upload custom fuels
  - Software updates
- Made in USA
- 2-Year limited warranty including sensors



Part #	Mfg #	Description
TOL03851	0024-8515	Fyrite® INSIGHT® Plus Basic Kit
TOL03852	0024-8516	Fyrite® INSIGHT® Plus with Reporting Kit
TOL03885	0024-8517	Fyrite® INSIGHT® Plus Basic Kit with Long-Life O2 Sensor and B-Smart® CO Sensor
TOL03886	0024-8518	Fyrite® INSIGHT® Plus with Long-Life O2 Sensor, B-Smart® CO Sensor and Reporting Kit

### Fyrite® INSIGHT® Plus Parts & Accessories



Part #	Mfg #	Description
TOL03117	0019-3037	Universal Fyrite® Probe Stop
SEN02096	0024-1467	B-Smart® CO Sensor for Fyrite® INSIGHT® InTech® & Monoxor Plus
SEN02487	0024-1591	Long-Life O2 Replacement Sensor for Fyrite® INSIGHT® Plus
SEN02382	0024-1616	CO Sensor (B-Smart®) with Pre-Calibrated NOx Filter, Repl for Fyrite® INSIGHT® Plus
KIT14862	0024-3004	Probe, Hose and Water Trap/Filter Assembly
KIT15937	0024-8242	Differential Pressure & Temperature Kit for Fyrite® Plus INSIGHT® Combustion Analyzer

### Fyrite® InTech® Residential Combustion Analyzer

- B-Smart® pre-calibrated CO sensor simple in-field replacement
- Easy-to-read, high-contrast LCD display with backlight
- (6) User selectable fuels
- Direct measurement of O2, CO2 (0-2,000 ppm), stack and ambient temperature
- Calculated measurement of combustion efficiency CO2, CO (air-free) and excess air
- Internal data storage of 10 complete records
- Includes:
  - Probe
  - (4) AA Batteries
  - Soft carrying case
- Reporting kit (optional) adds:
  - IrDA Printer
  - Rubber boot
  - (4) AA Batteries
  - Hard carrying case
  - USB Cable
  - Fyrite® user software
  - Spare filters
- Made in USA
- 2-Year Limited warranty including sensors



Part #	Mfg #	Description
TOL03850	0024-8511	CO, O2 Sensors with Soft Carrying Case
TOL03877	0024-8512	CO and O2 Sensors with Rubber Boot and Hard Carrying Case with Reporting Kit
TOL03875	0024-8523	CO and O2 Sensors with Rubber Boot and Hard Carrying Case

### Fyrite® InTech® Parts & Accessories



Part #	Mfg #	Description
TOL02794	0024-1400	Wireless IrDA Magnetic Printer for Monoxor® Plus, InTech®, INSIGHT® Plus and PCA® 3 (with Batteries)
SEN02096	0024-1467	B-Smart® CO Sensor for Fyrite® INSIGHT® InTech® & Monoxor Plus
KIT16519	0024-1579	Replacement End Plate less Draft Port for Fyrite® InTech®
FLR07334	0024-1505	NOx Filter Kit
FLR06890	0007-1644	Replacement Filters for Water Trap, 3/Pk
PMP02078	0024-3073	Replacement Pump Assembly
FLR06499	0019-3265	Replacement Water Trap/Filter Assembly for Probe
CAS01989	0024-1461	Rubber Boot
CAS01988	0024-1606	Soft Carrying Case for Fyrite® InTech®

# Combustion Analyzers

## PCA® 3 Commercial/Industrial Combustion Analyzer

- Utilizes B-Smart® sensors
- Measures and displays flue gas oxygen, carbon monoxide, stack temperature, combustion air temperature, draft and differential pressure
- Optional sensors including CO-High, NO, NO2 and SO2
- Internal storage for 500 records
- Full color, multilingual graphic display with backlight, zoom display and dimming mode
- Measures up to (4) gases simultaneously
- (10) Different fuels with ability to load custom fuels
- Made in USA
- 2-Year limited warranty including sensors



Part #	Mfg #	Description
KIT15809	0024-8440	PCA® 3 225 with O2, CO/H2-Compensated Sensors
TOL03884	0024-8444	PCA® 3 265 with O2, CO/H2-Compensated, NO, NO2 Sensors
TOL04021	0024-8445	PCA® 3 275 with O2, CO/H2-Compensated, NO, SO2 Sensors
TOL03964	0024-8448	PCA® 3 235 Kit with O2, CO/H2-Compensated, NO Sensors and Printer
TOL03897	0024-8452	PCA® 3 275 Kit with O2, CO/H2-Compensated, NO, SO2 Sensors and Printer
KIT15810	0024-8447	PCA® 3 225 O2, CO Kit with Printer
KIT15811	0024-8451	PCA® 3 265 O2, CO, NO, NO2 Kit with Printer
TOL03764	0024-8453	PCA® 3 285 O2, CO, NO, CO High Kit with Printer

## PCA® 3 Replacement Parts

Part #	Mfg #	Description
HSE01523	0024-1124	20' Hose Extension for PCA & ECA
SEN01325	0024-0788	Replacement O2 Sensor
SEN01326	0024-0789	Carbon Monoxide Sensor (Low) for Fyrite® ECA 450/PCA®3/PCA®2, Uncalibrated
SEN02482	0024-1541	PCA® 3 B-Smart® CO (H2-Compensated) Pre-Calibrated Sensor
SEN02098	0024-1545	PCA® 3 B-Smart® NO Pre-Calibrated Sensor
ADP01128	0024-1254	Universal AC Power Adapter
KIT15728	0024-8414	12" Thermocouple Replacement Kit
CAB01437	0104-4032	Mini USB Cable for Fyrite® PCA®3, PCA®2, INSIGHT®, & INSIGHT® Plus
CAB01190	0104-4027	Serial Cable DB 9M to DB 9F

## Combustion Analyzer Parts & Accessories

### Fyrite Calibration Gas Cylinder



Part #	Mfg #	Description
CYL00223	0024-0794	1,000ppm CO, 1,000ppm H2, 103 L Calibration Gas Cylinder for Fyrite® ECA 450, PCA®2, & PCA®3

### Balance Air Calibration Gas Cylinder

Part #	Mfg #	Gas	Mix	Balance
CYL00338	0051-4059	R-22	100ppm	Air 34L
CYL00340	3015-3850	R-22	100ppm	Air 103L
CYL00342	3015-3852	R-123	100ppm	Air 103L
CYL00337	0051-4055	R-134a	100ppm	Air 34L
CYL00341	3015-3851	R-134a	100ppm	Air 103L
CYL00339	0051-4071	R-410a	500ppm	Air 34L

### Calibration Gas & Kit

Part #	Mfg #	Description
KIT14829	0024-7059	CO Calibration Kit (No Gas)
CYL00211	0024-0492	CO Calibration Gas, 500 ppm CO
CYL00224	0051-1994	CO Calibration Gas, 100 ppm CO

### Gas Verification Kit

Part #	Mfg #	Description
KIT17374	3015-3430	R-22 Gas Verification Kit, 100ppm
KIT17375	3015-3437	R-134A Gas Verification Kit, 100 ppm
KIT17376	3015-3438	R-123 Gas Verification Kit, 100 ppm

### Calibration Gas Regulator

Part #	Mfg #	Description
REG00603	0051-3299	5/8"-18 UNF for MGS150/250/350/IAM

### Variable Flow Regulator

Part #	Mfg #	Description
REG00604	3015-3849	Variable Flow Regulator, 4.0 LPM

Refrigerant Handling

# Combustion Analyzers

## Combustion Analyzer Case



- For Fyrite® PCA®3, Fyrite® PCA®2, Fyrite® INSIGHT®, Fyrite® INSIGHT® Plus, Fyrite® InTech®, Fyrite® Tech®, Monoxor®III, Monoxor® Plus, and Oxor®III series analyzers

Part #	Mfg #	Description
CAS01797	0024-0865	Hard Carrying Case

## Filters



Part #	Mfg #	Description
FLR06617	0007-1598	Filter Element for Water Trap, 3/Pk
FLR06385	0007-1644	Replacement Filter for Bacharach Water Trap

## Printer Paper



Part #	Mfg #	Description
PAP00005	0024-1310	Printer Paper, (5) Rolls
PAP00004	0006-8733	Printer Paper, (1) Roll
PAP00007	0024-0980	Printer Paper for ECA 450, (5) Rolls

## Sensor



Part #	Mfg #	Description
SEN01323	0024-8106	Replacement O <sub>2</sub> Sensor for Oxor® III

## Fyrite® CO<sub>2</sub> Fluid



- Made in USA

Part #	Mfg #	Description
KIT12374	0010-5057	Fyrite® CO <sub>2</sub> Refill Fluid, 0 - 20% Range for Fyrite® CO <sub>2</sub> Indicators, 3/Pk

## Fyrite® CO<sub>2</sub> Refill Kit



Part #	Mfg #	Range
KIT12376	0011-7047	0 - 20% or 0 - 60%

## Fyrite® CO<sub>2</sub> Repair Kit



Part #	Mfg #	Range
KIT12375	0011-7052	0 - 20% or 0 - 60%

## Fyrite® Single CO<sub>2</sub> Testing Kit

- Includes:
  - Fyrite® indicator
  - Sampling assembly
  - Carrying case
  - Fire efficiency finder
- Made in USA



Part #	Mfg #	Scale Range
KIT15010	0010-5000	0-20.0% (a)

## Drafrite® Gauge



- Made in USA

Part #	Mfg #	Description
GAG01083	0013-3000	Drafrite® Gauge, +0.10 to -0.14"wc
TOL04171	0013-3001	Drafrite® Gauge, +0.05 to -0.25"wc

## MZF Draft Gauge



- Made in USA

Part #	Mfg #	Description
GAG01107	0013-7019	MZF Draft Gauge +0.05 to -.25"wc

## Tempoint® Dial Thermometer



- Made in USA

Part #	Mfg #	Temperature	Stem Lgth
THT02703	0012-7014	200° to 1,000°F	6"

## Thermocouple



Part #	Mfg #	Description
TCP00118	0104-1798	1" Ambient Air Temperature Thermocouple



# Combustion Analyzers

## True Spot® Smoke Test Kits

- Accurate smoke reading takes less than a minute
- Determines efficient combustion and is internationally recognized as the standard method of evaluating smoke density in the flue gases from distillate fuels
- Made in USA



**BACHARACH**

Part #	Mfg #	Description
PAP00006	0021-0019	Filter Paper Sheets, (40) Strips
LUB00066	0021-0040	True Spot® Lubricant
KIT12373	0021-7006	True Spot® Smoke Test Set

## Software

### Fyrite® User Software CD

- For PCA®3, PCA®2, INSIGHT®, INSIGHT® Plus, and InTech®

**BACHARACH**

Part #	Mfg #	Description
TOL03872	0024-1470	Fyrite® User Software CD

### Fyrite® User Software Kit

- Includes CD and USB cable
- For PCA®3, PCA®2, INSIGHT®, INSIGHT® Plus, and InTech®

**BACHARACH**

Part #	Mfg #	Description
TOL03870	0024-1491	Fyrite® User Software Kit

## Fyrite® Oil Burner Testing Kits

### Fyrite® 0010-5022 Standard Oil Burner Testing Kit

- Includes:
  - Fyrite® CO2 indicator (11-7032)
  - Fire efficiency finder/stack loss slide rule (10-5064)
  - Tempoint® dial thermometer (12-7014)
  - MZK Draft gauge (13-7019)
  - True Spot® smoke test kit (21-7006)
  - Moisture absorbent material (11-0121)
  - Sampling hose assembly (11-7029)
  - Carrying case (10-0100)
- Made in USA



**BACHARACH**

Part #	Mfg #	Description
KIT15130	0010-5022	Standard Oil Combustion Kit with MZK Draft Gauge and True Spot Smoke Test Pump

### Fyrite® Oil Burner Testing Kit Parts & Accessories

**BACHARACH**

Part #	Mfg #	Description
TOL03096	0010-5064	Fire Efficiency Finder
KIT12377	0011-0121	Wool Saturator for Probe Tube 10/Pk
HSE01510	0011-7029	Sampling Hose Assembly for Fyrite® Gas Analyzer

Refrigerant Handling



# Fixed Gas Monitors

## Refrigerant Leak Detectors

### PGM-IR Portable Refrigerant Monitor

- Identify and pinpoint very small levels of HFC, CFC or HCFC refrigerants or carbon dioxide gas in ambient air
- LCD Screen displays real-time gas concentrations
- Up to 8 hours operation (typically) on a fully charged battery
- Includes:
  - Battery pack
  - Probe
  - Charger
  - Soft case with shoulder strap
- 2-Year limited warranty
- Made in USA



Part #	Mfg #	Description
TOL04185	3015-5696	PGM-IR Monitor less Internal Purge-Air Bladder
BAT00188	0204-0020	3V Coin Cell Lithium Battery for H25-IR Pro & PGM-IR
FLR06876	3015-3071	In Line Filter, HGM/AGM300
FLR06877	3015-3125	Charcoal Filter Assembly with Fittings

### IAM-100 Integrated Area Monitor

- Real-time continuous gas detection
- Standalone monitor or up to 16 units can be connected to an IAM controller to form a monitoring system
- Fast-responding, long-life sensors
- Integrated visual LED and audible alarms
- (2) Onboard relays to activate shut-off valves, exhaust fans or connect to a BMS or fire panel
- Remote sensor with aesthetic faceplate available for discreet monitoring in decorative interiors



Part #	Mfg #	Description
MON00119	6201-1107	R-410A, 0 to 1,000 ppm, 110VAC
MON00120	6201-1143	R-410A, 0 to 10,000 ppm, 110VAC
MON00123	6201-5107	R-410A, 0 to 1,000 ppm, Remote Sensor with Faceplate, 110VAC
MON00124	6201-5143	R-410A, 0 to 10,000 ppm, Remote Sensor with Faceplate, 110VAC
MON00121	6202-1107	R-410A, 0 to 1,000 ppm, 220VAC
MON00122	6202-1143	R-410A, 0 to 10,000 ppm, 220VAC
MON00125	6202-5107	R-410A, 0 to 1,000 ppm, Remote Sensor with Faceplate, 220VAC
MON00126	6202-5143	R-410A, 0 to 10,000 ppm, Remote Sensor with Faceplate, 220VAC

## Single-Zone Gas Leak Monitors

- Detects and measures any CFC, HFC, HCFC refrigerant gas or ammonia
- Infrared (NDIR) sensing technology
- Provides continuous, unattended monitoring from up to 500' away from measuring point
- Low detection limits (as low as 1 ppm)
- Logging feature enables 200 gas readings to be stored at user-selectable time intervals
- No calibration required



Part #	Mfg #	Description
MON00102	3015-4200	Single Zone Halogen Gas Monitor, HGM-SZ, 120-240VAC, 50/60Hz

## Multi-Zone Gas Leak Monitors

- Monitors up to (16) remote areas, expandable to (48) points
- Infrared (NDIR) sensing technology
- Low detection limits (as low as 1 ppm)
- Long sampling distances (up to 1,200 ft / 365 m)
- On-board visual/audible alarms with (4) relay contacts to mitigate refrigerant loss



### HGM-MZ Multi-Zone Gas Leak Monitor

- 120-240 VAC, 50/60 Hz Input power



Part #	Mfg #	Description
MON00103	3015-5043	4-Zone Halogen Gas Monitor
MON00104	3015-5044	8-Zone Halogen Gas Monitor
MON00105	3015-5045	12-Zone Halogen Gas Monitor
MON00106	3015-5046	16-Zone Halogen Gas Monitor
MON00108	3015-5330	4-Zone Halogen Gas Monitor with Remote Display
MON00109	3015-5331	8-Zone Halogen Gas Monitor with Remote Display
MON00110	3015-5332	12-Zone Halogen Gas Monitor with Remote Display
MON00111	3015-5333	16-Zone Halogen Gas Monitor with Remote Display

# Fixed Gas Monitors

## MZ-RD Remote Display



- Multi-zone accessory for diagnostics, communications and control of a Multi-Zone Gas Leak Monitor
- Can connect to up to (4) Multi-Zone Monitors

Part #	Mfg #	Description
MON00107	3015-5138	HGM-MZ Halogen Gas Monitor, 4-Zone 0-10,000ppm

## Alarm & Accessories



Part #	Mfg #	Description
IND00099	3015-5804	110VAC Audible/Visual Alarm for HGM-MZ/HGM-SZ
IND00100	3015-3076	120VAC Audio-Visual Alarm for HGM-MZ & HGM-SZ
IND00101	3015-5490	Multi-Zone Audible/Visual Alarm, Surface Mount, IP65 Rating, Red Lens
IND00102	3015-5491	Multi-Zone Audible/Visual Alarm, Surface Mount, IP54 Rating, Red Lens
IND00103	3015-5492	Multi-Zone Visual Alarm, Surface Mount, IP65 Rating
IND00104	3015-5493	Multi-Zone Visual Alarm, Surface Mount, IP54 Rating
TUB13899	3015-3235	Multi-Zone Air Sample Tubing, 250'
TUB13900	3015-5762	Air Sample Tubing Coupling, Quick Disconnect

## Multi-Zone Annual Maintenance Kit

- Includes
  - Monitor
  - Line end filters
  - (1) Charcoal and (1) hydrophobic filter
  - (3) End-of-line water stop filter



Part #	Mfg #	Description
KIT17381	3015-5525	4-Zone Monitor Kit with (5) Line End Filters
KIT17382	3015-5526	8-Zone Monitor Kit with (9) Line End Filters
KIT17383	3015-5527	12-Zone Monitor Kit with (13) Line End Filters
KIT17384	3015-5528	16-Zone Monitor Kit with (17) Line End Filters

## Multi-Zone Filter



Part #	Mfg #	Description
FLR06595	3015-2906	Multi-Zone End-of-Line Replacement Filter
FLR06743	3015-3420	Multi-Zone End-of-Line Filter Assembly
COV04893	0007-1650	Multi-Zone Hydrophobic Filter

## Leak Detector Parts & Accessories



Part #	Mfg #	Description
FUS02372	0004-2620	Replacement Power Fuse, 1A 250VAC
COV04895	0007-1655	Manual Drain Water Trap

## Parts & Accessories (Continued)

Part #	Mfg #	Description
FLR08091	0007-1656	Manual Drain Water Trap Replacement Filter
BKR02516	0007-1657	Manual Drain Water Trap Mounting Bracket
FLR08090	3015-2969	Charcoal Filter Mounting Bracket
KIT17377	3015-3429	HGM-300 4-Zone (5) Line -End Filters
KIT17378	3015-3949	HGM-300 8-Zone (9) Line-End Filters
KIT17379	3015-3950	HGM-300 12-Zone (13) Line-End Filters
KIT17380	3015-3951	HGM-300 16-Zone (17) Line-End Filters
PWR00281	3015-4121	120VAC Surge Protector
PWR00282	3015-4123	4-20 mA DC Surge Protector
MOD02662	3015-4230	N2 (JCI Metasys) Communications Package
M0D02663	3015-4231	Lon Works Communication Package
BRD05214	3015-4236	Single Zone Display PC Board
BRD05210	3015-4429	Multizone Key Pad PC Board
KIT17387	3015-4492	Bench Replacement Kit for AGM
KIT17388	3015-4562	IR Bench Replacement Kit CO2
KIT17386	3015-4572	IR Bench Replacement Kit HGM
BLK01480	3015-5072	4-Port Solenoid Block for HGM and CO2, Zone 1-4
BLK01481	3015-5080	5-Port Solenoid Block for HGM and CO2, Zones 1-4 and purge port
BRD05212	3015-5104	Remote Display Main PC Board
BRD05213	3015-5126	Display PC Board, Multi-Zone
PWR00284	3015-5149	Universal Power Supply, Single and Multi-Zone
BRD05216	3015-5153	Power Entry Board, Single and Multi-zone
PMP02183	3015-5176	Multi-zone Replacement Pump
FLR08092	3015-5199	Annual Maintenance Kit, Internal Filters
KIT17363	3015-5404	2-Way Splitter Kit with Line End Filters and Brackets
KIT17364	3015-5405	3-Way Splitter Kit with Line End Filters and Brackets
BRD05218	3015-5478	Main PC Board, Single Zone HGM/AGM
BRD05217	3015-5483	Main PC Board, Multi-Zone HGM/AGM/CO2
COV04894	3015-5512	End-of-Line Water Stop Replacement Filter
BRD05211	3015-5542	Solenoid Valve Manifold Drive PC Board
BRD05219	3015-5546	Microprocessor PC Board, Multi-Zone
KIT17439	3015-5529	Annual Maintenance Kit, Single Zone (1) Line End Filter
MOD02661	3015-5705	BacNet Communications Module Package
KIT17385	3015-5716	Single Zone Filter Conversion Kit, HGM
COV04892	3015-5748	Splash/Spray-Resistant End of Line Filter Assembly
CON01824	3015-5753	Manifold Replacement Fitting
PWR00283	5700-0031	Wall-Mount Uninterruptable Power Supply Backup

Refrigerant Handling

# Gauges

## Manifold Gauges

### 2-1/2" (63.5mm) Standard Steel Gauge

- High quality steel case
- Standard size gauges
- Surge dampened for accuracy
- High-impact clear view Lexan lens
- Recalibration screw
- Full size brass movements
- 1/8" MPT Connections

### R-22, R-404, R-410A 2-1/2" Steel Gauge

- Compound gauge: 30" vacuum to 120 psi, retard to 350 psi
- Pressure gauge: 0 to 800 psi
- Assembled in USA



M2-460



M2-465

Part #	Mfg #	Description
M2-460	M2-460	2-1/2" Compound
M2-465	M2-465	2-1/2" Pressure

### 3-1/8" (80mm) Glow-in-the-Dark Gauge with Steel Case

- Glow-in-the-dark dials store energy to emit light in dimly lit or dark applications
- The R-410A only gauge is not glow-in-the-dark due to pink dial
- High impact clear view Lexan lens with 1/8" MPT connection
- Compound gauge: 30" vacuum to 250 psi, retard to 500 psi
- Pressure gauge: 0 to 800 psi
- Assembled in USA



### R-12, R-22, R-502 3-1/8" Glow-in-the-Dark Gauge

Part #	Mfg #	Description
M2-820	M2-820	3-1/8" Compound
M2-825	M2-825	3-1/8" Pressure

### 3-1/8" (80mm) Liquid Filled Class One Gauge

- Features the four most common refrigerants in use today
- Recalibration screw
- Heavy-duty case
- No leak systems prevents glycerin leak
- Class 1 1% accuracy
- Assembled in USA



### R-22, R-134A, R-404A, R-410A 3-1/8" Liquid-Filled Gauge

Part #	Mfg #	Description
M2-860	M2-860	3-1/8" Compound*
M2-865	M2-865	3-1/8" Pressure*

\* 1% Certified accuracy



# Specialized & General Use Gauges

## Manifold Gauges

### 2-1/2" Heavy-Duty Brass Manifold Gauge

- Solid brass case and premium movements
- Heavy-duty phosphor bronze and stainless steel internal components
- 1% Accuracy (Class 1) calibration
- Flutterless™ technology
- 1/8" MPT Connection



### 2-1/2" Brass Gauge (°F) for Gauge Scales R-12, R-22, R-502

- High side gauge



Part #	Mfg #	Description	Pressure Scale
GAG01025	49047	Brass Pressure	0-500 psi
GAG01026	49048	Brass Compound	30"-0-150 psi
GAG01048	49049	Set of 49047, 49048	

### 2-1/2" Brass Gauge (°F) for Gauge Scales R-12, R-134A, R-404A



Part #	Mfg #	Description	Pressure Scale
GAG01049	49067	Brass Pressure	0-500 psi
GAG01050	49068	Brass Compound	30"-0-150 psi
GAG01132	49069	Set of 49067, 49068	

### 2-1/2" Class B Red/Blue Manifold Gauge

- Bold, high-visibility dials
- Colored temperature scales
- Flutterless™ technology
- 1/8" MPT Connection
- 3-2-3% Accuracy
- Calibration traceable to NIST standards



### 2-1/2" Gauge (°F) for Gauge Scales R-12, R-22 & R-502

Part #	Mfg #	Description	Pressure Scale
GAG00878	49001	Red Pressure	0-500 psi
GAG00879	49002*	Blue Compound	30"-0-120 psi

\* Features retard protection to 350 psi

### 2-1/2" Gauge (°F) for Gauge Scales R-12, R-22, R-502



Part #	Mfg #	Description	Pressure Scale
GAG00913	49005	Red Pressure	Bar & psi
GAG00914	49006	Blue Compound	Bar & psi
GAG00943	49008	Red/Blue Set	

### 2-1/2" Gauge (°F) for Gauge Scales R-12, R-22, R-134A

Part #	Mfg #	Description	Pressure Scale
GAG01149	49013	Red Pressure	0-500 psi
GAG01150	49014	Blue Compound	30"-0-120 psi

### 2-1/2" Gauge (°F) for Gauge Scales R-22, R-134A, R-404A



Part #	Mfg #	Description	Pressure Scale
GAG01084	49015	Red Pressure	0-500 psi
GAG01087	49016	Blue Compound	30"-0-120 psi

### 2-1/2" Gauge (°F) for Gauge Scale R-410A



Part #	Mfg #	Description	Pressure Scale
GAG00882	49035	Red Pressure	0-800 psi
GAG00883	49036**	Blue Compound	30"-0-300 psi

\*\* Features retard protection to 500 psi

Refrigerant Handling



# Specialized & General Use Gauges

## 2-1/2" Gauge (°F) for Gauge Scales R-134A, R-404A, R-507



Part #	Mfg #	Description	Pressure Scale
GAG00880	49051	Red Pressure	0-500 psi
GAG00881	49052	Blue Compound	30"-0-120 psi

## 2-1/2" Gauge (°C) for Gauge Scales R-134A, R-404A, R-507

Part #	Mfg #	Description	Pressure Scale
GAG00984	49055	Red Pressure	Bar & psi
GAG00985	49056	Blue Compound	Bar & psi

## 3-1/8" Dry Large Red/Blue Manifold Gauges

- Flutterless™ technology with brass surge protector to minimize needle pulsation
- Brass gauge movement
- Copper gauge movement
- Copper alloy bourdon tube
- 1/8" MNPT Connection
- Calibrated to 1% accuracy
- Color-coded refrigerant types



## 3-1/8" Dry Manifold Gauge (°F) for Gauge Scales R-12, R-22, R-502

Part #	Mfg #	Description	Pressure Scale
GAG00945	49101	Red Pressure	0-500 psi
GAG00946	49102*	Blue Compound	30"-0-120 psi

\* Features retard protection to 350 psi

## 3-1/8" Dry Manifold Gauge (°F) for Gauge Scales R-12, R-22, R-134A



Part #	Mfg #	Description	Pressure Scale
GAG01074	49103	Red Pressure	0 - 500 psi
GAG01075	49104*	Blue Compound	30"-0-120 psi

\* Features retard protection to 350 psi

## 3-1/8" Dry Manifold Gauge (°F) for Gauge Scales R-22, R-134A, R-404A



Part #	Mfg #	Description	Pressure Scale
GAG01108	49105	Red Pressure	0-500 psi
GAG01109	49106*	Blue Compound	30"-0-120 psi

\* Features retard protection to 500 psi

## 3-1/8" Dry Certified Manifold Gauge (°F) for Gauge Scales R-22, R-404A, R-410A



Part #	Mfg #	Description	Pressure Scale
GAG01095	49237	Red Pressure	0 - 800 psi
GAG01096	49238	Blue Compound	30"-0-350 psi

## 3-1/8" Dry Manifold Gauge (°F) for Gauge Scales R-134A, 404A & 407C



Part #	Mfg #	Description	Pressure Scale
GAG00976	49151	Red Pressure	0 - 500 psi
GAG00977	49152	Blue Compound	30" - 0 - 120 psi

# Specialized & General Use Gauges

3-1/8" Dry Manifold Gauge (°F) for Gauge Scales  
R-22, R-404A, R-410A



Part #	Mfg #	Description	Pressure Scale
GAG00978	49137	Red Pressure	0 - 800 psi
GAG00979	49138**	Blue Compound	30" - 0 - 300 psi

\*\* Features retard protection to 500 psi

3-1/8" Dry Manifold Gauge (°F and °C) for Gauge Scales  
R-410A



Part #	Mfg #	Description	Pressure Scale
GAG00935	49135	Red Pressure	0 - 800 psi
GAG01027	49136**	Blue Compound	30" - 0 - 300 psi

\*\* Features retard protection to 500 psi, psi/bar scale

3-1/8" Dry Manifold Gauge (°C) for Gauge Scales  
R-22, R-134A, R-404A



Part #	Mfg #	Description	Pressure Scale
49169	49169	Red Pressure	Bar/psi
49170	49170	Blue Compound	Bar/psi

3-1/8" Dry Manifold Gauge (°C) for Gauge Scales  
R-134A, R-404A, R-407C



Part #	Mfg #	Description	Pressure Scale
GAG01281	49131	Red Pressure	Bar/psi
GAG01172	49132	Blue Compound	Bar/psi

3-1/8" Dry Manifold Gauge (°C) for Gauge Scales  
R-12, R-22, R-502



Part #	Mfg #	Description	Pressure Scale
GAG01053	49167	Red Pressure	Bar/psi
GAG01054	49168	Blue Compound	Bar/psi

3-1/2" Red/Blue Liquid-Filled Manifold Gauge (°F/°C)

- Offset stem fits all major manifold brands
- No zero adjustment required
- 1/8" MNPT Connection
- Temperature rating: 0° to 122°F
- Calibrated to 1% Accuracy



3-1/2" Liquid-Filled Gauge (°F/°C) for Gauge Scales R-22

Part #	Mfg #	Description	Scale
GAG01123	49511	Red Pressure	0-500 psi/Bar
GAG01124	49512	Blue Compound	30"-0-120 psi/Bar

3-1/2" Liquid-Filled Gauge (°F) for Gauge Scales  
R-22, R-134A, R-404A

Part #	Mfg #	Description	Scale
GAG01141	49513	Red Pressure	0-500 psi
GAG01142	49514	Blue Compound	30"-0-120 psi

Refrigerant Handling



# Specialized & General Use Gauges

## 3-1/2" Liquid-Filled Gauge (°F) for Gauge Scales R-22, R-410A



Part #	Mfg #	Description	Scale
GAG01125	49515	Red Pressure	0 - 800 psi
GAG01126	49516	Blue Compound	30" - 0 - 300 psi

## 3-1/2" Liquid-Filled Gauge (°F) for Gauge Scales R-134A, R-404A, R-407C



Part #	Mfg #	Description	Scale
GAG01127	49517	Red Pressure	0-500 psi
GAG01128	49518	Blue Compound	30"- 0-120 psi

## 3-1/2" Liquid-Filled Gauge (°F) for Gauge Scales R-410A



Part #	Mfg #	Description	Scale
GAG01129	49519	Red Pressure	0-800 psi/Bar
GAG01130	49520*	Blue Compound	30"-0-300 psi/Bar

\* Features retard protection to 500 psi

## 4" Red/Blue Manifold Gauge (°F/°C)

- Flutterless™ technology with brass gauge protector minimizes needle pulsation
- 1% Accuracy Class I calibration
- Brass gauge movement
- Copper alloy Bourdon tube
- 1/8" MNPT Connection
- Color-coded refrigerant types



## 4" Gauge (°F) for Gauge Scales R-22, R-134A, R-404A, R-410A

Part #	Mfg #	Description	Scale
GAG01276	49185	Red Pressure	0 - 800 psi
GAG01277	49186	Blue Compound	30"-0-300 psi

## 2-1/2" Low Pressure Diaphragm Gauge

- Bronze diaphragm made of 2 thin-walled diaphragms soldered together and intended for low-pressure applications only
- Black/steel case



Part #	Mfg #	Range	Connection
GAG00929	78066	0 - 35"wc	1/4" MPT

## Class B General Use Manifold Gauge

- For multiple applications where pressure or vacuum gauges are required
- °F, 3-2-3% Gauge accuracy
- Brass internals
- Painted black case, glass crystal, metal ring
- No restrictor
- Recalibration standard on 2-1/2" and 3-1/2"



## 2-1/2" General Use Gauge

Part #	Mfg #	Range	Connection
GAG00910	49382	0-60 psi	1/4" Male Lower
GAG00911	49385	0-160 psi	1/4" Male Lower
GAG00912	49386	0-200 psi	1/4" Male Lower

## 3-1/2" General Use Gauge

Part #	Mfg #	Range	Connection
GAG00926	49422	0-60 psi	1/4" Male Lower
GAG00927	49424	0-100 psi	1/4" Male Lower

## 2-1/2" Ammonia Gauges with Dual Scale °F/°C

- Permanent gauges on any system or equipment charged with ammonia
- 316 SS Bourdon tube
- Dual temperature and pressure scales
- Equipped with restrictors to protect the gauges against pulsating pressure
- 1/4" NPT Male connection
- Twist-on polycarbonate crystal
- Black steel gauges, steel sockets
- Calibrated to 3-2-3% accuracy



Part #	Mfg #	Range
GAG00899	40201	30"-0-400 psi °F; 76-0-28 Bar °C
GAG00900	40202	30"-0-150 psi °F; 76-0-10 Bar °C

# Specialized & General Use Gauges

## Solar/Light-Powered Digital LCD Gauge Boot

- Rubber
- Color-coded red or blue to match gauge



Part #	Mfg #	Description
GAG01138	49041	Hi-side Solar Gauge (Red Pressure)
GAG01139	49042	Lo-side Solar Gauge (Blue Compound)
TOL03839	49087	Red Gauge Boot for 49041
TOL03840	49088	Blue Gauge Boot for 49042
COV04157	49089	Set of Red & Blue Gauge Boots for 49041 & 49042

## Protective Gauge Boot

- Rubber
- Slip easily around gauges without covering recalibration screw
- Color-coded red or blue to match gauge



Part #	Mfg #	Description
COV03172	49090	Set of 2-1/2" Gauge Covers
COV03161	49091	Red Rubber 2-1/2" Gauge Cover
COV03162	49092	Blue Rubber 2-1/2" Gauge Cover
COV03690	49190	Set of 3-1/8" Gauge Covers
49191	49191	3-1/8" Red Rubber
49192	49192	3-1/8" Blue Rubber

## Manifold Gauge Replacement Crystal Lens



Part #	Mfg #	Description
GLS00848	49010	2-1/2" Replacement Crystal
LNS00847	49100	3-1/8" Replacement Crystal, 80mm

## Vacuum Gauges

### Mechanical Vacuum Gauge

- Bourdon tube type gauge
- 1/8" NPT Male bottom fitting
- More accurate than a compound gauge
- Green case



Part #	Mfg #	Description
GAG00974	69044	3-1/8", 0-30" Hg & 760-0 Torr(mm)
GAG00975	69045	3-1/8" European, 1000-0 Millibar & 30-0" Euro



# Vacuum & Charging Hose

## KOBRA® High Pressure Charging Hose

### KOBRA® CLS Series High Pressure Hose with Low Loss Secure Seal Fitting

- Opens to full flow
- Rebuildable secure seal fitting
- Rebuild kit: 33112RK
- Replacement O-ring: P90022
- Working pressure: 800 psi
- Burst pressure: 4,000 psi
- UL Approved for R-410A
- Made in USA



Part #	Mfg #	Description
CCLS-60	CCLS-60	60" R/Y/B Set
CCLS4-60	CCLS4-60	60" R/Y/B & 3/8" Black Set
CCLS-72	CCLS-72	72" R/Y/B Set

### KOBRA® CLE Series High Pressure Hose with Gasket Seal Fitting

- Blowout resistant depressor and barrel gasket
- Depressor is set to ARI standard for the access valve core
- Replacement depressor: P90514
- Replacement gasket: P511
- Working pressure: 800 psi
- Burst pressure: 4,000 psi
- Made in USA



Part #	Mfg #	Description
CCLE-60	CCLE-60	60" R/Y/B Set

### KOBRA® CLV High Pressure Hose with Ball Valve and 6" Whip End

- 1/4-Turn lever style ball valve with 6" whip end with 1/8" MPT fitting
- Replacement depressor: P90514
- Replacement gasket: P511
- Whip end replacement less ball valve: CLP Series
- Whip end replacement with ball valve: CLV-6
- Working pressure: 800 psi
- Burst pressure: 4,000 psi
- Made in USA



Part #	Mfg #	Description
CCLV-60	CCLV-60	60" R/Y/B Set

### KOBRA® CLBV High Pressure Charging Hose with Ball Valve

- 1/4-Turn lever style full flow ball valve
- Helps meet non-venting requirements
- Replacement depressor: P90514
- Replacement gasket: P511
- Working pressure: 800 psi
- Burst pressure: 4,000 psi
- Made in USA



Part #	Mfg #	Description
CCLBV-60	CCLBV-60	60" R/Y/B Set w/Ball Valve
CCLBV-72	CCLBV-72	72" R/Y/B Set w/Ball Valve

### KOBRA® Hose Repair Parts



Part #	Mfg #	Description
33112RK	33112RK	Secure Seal Rebuild Kit

### Heavy-Duty Black Charging Hose

- Straight fittings by straight fittings
- Working pressure: 900 psi
- Burst: 3,500 psi
- Black only
- Made in USA



Part #	Mfg #	Size
CL6HD-72	CL6HD72	3/8" x 72"
CL2HD-72	CL2HD72	1/2" x 72"

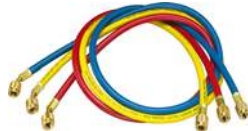
# Vacuum & Charging Hose

## 1/4" Plus II™ Charging Hoses

- Minimum bend radius: 6"
- Nylon permeation barrier meets SAE requirements J2196 for CFC, HCFC and HFC
- UL Recognized assemblies (File SA9737)

## 1/4" Plus II™ Charging Hoses with Double Barrier Protection and HAV Standard Fitting

- Double barrier protection for CFC, HCFC and HFC control and system performance
- UL Recognized (File SA9737)
- Maximum working pressure: 500 psi
- Minimum burst: 2,500 psi
- Blow-off groove channels refrigerant out of the front of the nut to help prevent spray back



Part #	Mfg #	Color	Length
HSE01222	21012	Yellow	12"
HSE01294	21018	Yellow	18"
HSE01172	21036	Yellow	36"
HSE01233	21048	Yellow	48"
HSE01178	21072	Yellow	72"
HSE01443	21112	Yellow	12'
HSE01403	21125	Yellow	25'
HSE01254	21150	Yellow	50'
HSE01175	21060	Yellow	60"
HSE01352	21200	Yellow	100'
HSE01355	21196	Yellow	200'
HSE01751	21310	Blue	10'
HSE01295	21212	Blue	12"
HSE01296	21218	Blue	18"
HSE01173	21236	Blue	36"
HSE01297	21248	Blue	48"
HSE01176	21260	Blue	60"
HSE01179	21272	Blue	72"
HSE01353	21399	Blue	100'
HSE01356	21396	Blue	200'
HSE01752	21710	Red	10'
HSE01298	21612	Red	12"
HSE01299	21618	Red	18"
HSE01174	21636	Red	36"
HSE01300	21648	Red	48"
HSE01177	21660	Red	60"
HSE01180	21672	Red	72"
HSE01354	21799	Red	100'
HSE01357	21796	Red	200'

## 1/4" Plus II™ Charging Hoses (Continued)

### 1/4" Plus II™ Charging Hoses with Double Barrier Protection and HAV Standard Fitting

Part #	Mfg #	Color	Length
HSE01181	21983	R/Y/B	36"
HSE01238	21984	R/Y/B	48"
HSE01182	21985	R/Y/B	60"
HSE01183	21986	R/Y/B	72"
HSE01556	21988	R/Y/B	96"

### 1/4" Plus II™ Hose with Compact Ball Valve End

- Metal handle at end of hose fits tight areas and traps all gas
- Full flow valve
- Uses standard gasket and valve opener
- Burst pressure: 4,000 psi
- Working pressure: 800 psi



Part #	Mfg #	Color	Length
HSE01196	29036	Yellow	36"
HSE01308	29048	Yellow	48"
HSE01199	29060	Yellow	60"
HSE01202	29072	Yellow	72"
HSE01837	29096	Yellow	96"
HSE01838	29110	Yellow	10'
HSE01371	29112	Yellow	12'
HSE01839	29125	Yellow	25'
HSE01573	29150	Yellow	50'
HSE01840	29175	Yellow	75'
HSE01841	29199	Yellow	100'
HSE01197	29236	Blue	36"
HSE01309	29248	Blue	48"
HSE01200	29260	Blue	60"
HSE01203	29272	Blue	72"
HSE01372	29312	Blue	12'
HSE01198	29636	Red	36"
HSE01310	29648	Red	48"
HSE01201	29660	Red	60"
HSE01204	29672	Red	72"
HSE01373	29712	Red	12'
HSE01205	29983	R/Y/B	36"
HSE01243	29984	R/Y/B	48"
HSE01206	29985	R/Y/B	60"
HSE01207	29986	R/Y/B	72"

# Vacuum & Charging Hose

## 1/4" Plus II™ Hose with FlexFlow™ Valve 8" from Angled End

- Valve handle position shows when valve is open, closed or anywhere in between
- Improved smaller ergonomic valve with zero restriction for max flow
- Flexible length of hose between valve and fitting makes access easier to tight areas
- Recommended for R-410A



## 1/4" Plus II™ Hose with SealRight™ Low Loss Anti-Blow Back Fitting

- Low loss anti-blowback SealRight™ fitting traps refrigerant in hose when disconnected helping meet non-venting regulations and preventing finger burns
- 45° End for easy installation in tight areas



Part #	Mfg #	Color	Length
HSE01236	25036	Yellow	36"
HSE01842	25048	Yellow	48"
HSE01843	25060	Yellow	60"
HSE01844	25072	Yellow	72"
HSE01845	25096	Yellow	96"
HSE01846	25110	Yellow	10'
HSE01847	25112	Yellow	12'
HSE01848	25125	Yellow	25'
HSE01849	25150	Yellow	50'
HSE01850	25175	Yellow	75'
HSE01851	25199	Yellow	100'
HSE01387	25260	Blue	60"
HSE01388	25660	Red	60"
HSE01545	25983	R/Y/B	36"
HSE01417	25984	R/Y/B	48"
HSE01251	25985	R/Y/B	60"
HSE01256	25988	R/Y/B	96"
HSE01249	25986	R/Y/B	72"

Part #	Mfg #	Color	Length
HSE01288	22012	Yellow	12"
HSE01234	22024	Yellow	24"
HSE01184	22036	Yellow	36"
HSE01235	22048	Yellow	48"
HSE01190	22072	Yellow	72"
HSE01370	22110	Yellow	10'
HSE01404	22112	Yellow	12'
HSE01635	22125	Yellow	25'
HSE01405	22150	Yellow	50'
HSE01187	22060	Yellow	60"
HSE01289	22212	Blue	12"
HSE01185	22236	Blue	36"
HSE01239	22248	Blue	48"
HSE01188	22260	Blue	60"
HSE01191	22272	Blue	72"
HSE01440	22312	Blue	12'
HSE01290	22612	Red	12"
HSE01186	22636	Red	36"
HSE01272	22648	Red	48"
HSE01189	22660	Red	60"
HSE01192	22672	Red	72"
HSE01441	22712	Red	12'
HSE01193	22983	R/Y/B	36"
HSE01240	22984	R/Y/B	48"
HSE01194	22985	R/Y/B	60"
HSE01195	22986	R/Y/B	72"
HSE01433	22988	R/Y/B	96"

Refrigerant Handling





# Vacuum & Charging Hose

## 1/4" Plus II™ Charging Hoses for 5/16" Service Ports for R-410A

- For 5/16" flare service ports
- Compatible with both POE & PVE oils
- Burst pressure: 4,000 psi
- Working pressure: 800 psi
- Minimum bend radius: 6"
- UL Recognized assemblies File SA9737



## 1/4" Plus II™ Hose with Female Flare Fittings

- 1/4" Fem flare on manifold connection and 5/16" Fem flare angled on service end



Part #	Mfg #	Color	Length
HSE01753	21426	Blue	72"
HSE01641	21485	R/Y/B	60"
HSE01861	21486	R/Y/B	72"

## 1/4" Plus II™ Hose with 1/4" Compact Ball Valve

- Red and Blue: 1/4" x 5/16"
- Yellow: 1/4" x 1/4"



Part #	Mfg #	Color	Length
HSE01852	29403	Yellow	36"
HSE01340	29405	Yellow	60"
HSE01853	29406	Yellow	72"
HSE01854	29423	Blue	36"
HSE01341	29425	Blue	60"
HSE01855	29426	Blue	72"
HSE01856	29463	Red	36"
HSE01342	29465	Red	60"
HSE01857	29466	Red	72"
HSE01858	29483	R/Y/B	36"
HSE01589	29485	R/Y/B	60"
HSE01569	29486	R/Y/B	72"

## 1/4" Plus II™ Hose with 5/16" Compact Ball Valve



Part #	Mfg #	Color	Length
HSE01645	29995	R/Y/B	60"

## 1/4" Plus II™ Heavy-Duty Charging Hoses

- Heavy use construction for substantially increased service life
- Flexible for all-weather easy handling
- Pulls 75 micron vacuum or better on 36" hose
- Minimum burst: 4,000 psi
- Working pressure: 800 psi
- Operating temperature: -22° to 176°F (-30° to 80°C)
- Minimum bend radius: 6"

## 1/4" Plus II™ HD Hose with HCA Hose Straight x Angle



Part #	Mfg #	Model	Length
HSE01520	15006	HCA-6	6"
HSE01815	15012	HCA-12	12"
HSE01475	15024	HCA-24	24"
HSE01225	15036	HCA-36	36"
HSE01304	15048	HCA-48	48"
HSE01211	15060	HCA-60	60"
HSE01245	15072	HCA-72	72"
HSE01476	15096	HCA-96	96"
HSE01126	15110	HCA-110	10'
HSE01477	15112	HCA-112	12'
HSE01455	15125	HCA-300	25'
HSE01397	15150	HCA-600	50'
HSE01816	15175	HCA-900	75'

## 1/4" Plus II™ HD Hose with FlexFlow Valve



Part #	Mfg #	Length
HSE01375	25836	36"
HSE01422	25860	60"
HSE01330	25872	72"
HSE01437	25896	96"
HSE01237	25925	25'

Refrigerant Handling



# Vacuum & Charging Hose

## 1/4" Plus II™ Heavy-Duty Charging Hose with Ball Valve



Part #	Mfg #	Length
HSE01546	29836	36"
HSE01633	29848	48"
HSE01376	29860	60"
HSE01588	29872	72"
HSE01473	29896	96"
HSE01489	29925	25'

## 1/4" Plus II™ Hose with HCL Straight x 90°



Part #	Mfg #	Model	Length
HSE01818	15212	HCL-12	12"
HSE01819	15224	HCL-24	24"
HSE01570	15236	HCL-36	36"
HSE01820	15248	HCL-48	48"
HSE01821	15260	HCL-60	60"
HSE01314	15272	HCL-72	72"

## 1/4" Plus II™ Hose with HCS Straight x Straight



Part #	Mfg #	Model	Length
HSE01617	15412	HCS-12	12"
HSE01823	15424	HCS-24	24"
HSE01824	15436	HCS-36	36"
HSE01825	15448	HCS-48	48"
HSE01616	15460	HCS-60	60"
HSE01777	15472	HCS-72	72"

## 3/4" Plus II™ Heavy-Duty Charging Hoses

- Large 3/4" ID designed to save time in charging or evacuation of centrifugals and other large systems
- Constructed for heavy-duty use with most refrigerants
- Minimum burst: 3,000 psi
- Maximum working pressure: 600 psi
- Operating temperature: -20° to 200°F (-28.8° to 93.3°C)
- Minimum bend radius: 12"
- Not for use with NH<sub>3</sub>



## "E" Plus II™ HD Hose 3/4" Fir x 3/4" Fir with O-Ring Seal



Part #	Mfg #	Model	Length
HSE01784	18412	E-12	12"
HSE01560	18424	E-24	24"
HSE01565	18436	E-36	36"
HSE01480	18448	E-48	48"
HSE01381	18460	E-60	60"
HSE01429	18472	E-72	72"
HSE01481	18496	E-96	96"
HSE01252	18510	E-120	120"
HSE01482	18512	E-144	144"
HSE01586	18525	E-300	300"
HSE01812	18550	E-600	600"

## Plus II™ HD Hose 3/4" Hex x 3/4" Hex with O-Ring Seal



Part #	Mfg #	Length
HSE01607	20824	24"
HSE01608	20872	72"
HSE01609	20896	96"
HSE01471	20910	10'
HSE01472	20912	12'
HSE01460	20925	25'
HSE01597	20950	50'



# Vacuum & Charging Hose

## 3/8" Plus II™ "B" Charging Hoses

- Pulls a vacuum much faster than the 1/4" hose
- Minimum burst: 3,000 psi
- Maximum working pressure: 600 psi
- Operating temperature: -20° to 180°F (-28.8° to 82.2°C)
- Minimum bending radius: 6"



## Plus II™ "B" Hose with 1/4" Straight x 1/4" 45° Fittings



Part #	Mfg #	Color	Length
HSE01583	28460	Red	60"
HSE01832	20448	Yellow	48"
HSE01833	20460	Yellow	60"
HSE01834	20472	Yellow	72"
HSE01582	28260	Blue	60"

## Plus II™ "B" Hose with 3/8" Straight x FlexFlow Fittings



Part #	Mfg #	Color	Length
HSE01333	26260	Yellow	60"
HSE01758	26272	Yellow	72"

## Plus II™ "B" Hose with 3/8" Straight Flare x 3/8" Straight Flare Fittings



Part #	Mfg #	Color	Length
HSE01434	14536	Yellow	36"
HSE01446	28036	Red	36"
HSE01445	27836	Blue	36"
HSE01312	14548	Yellow	48"
HSE01571	27848	Blue	48"
HSE01572	28048	Red	48"
HSE01448	28060	Red	60"
HSE01231	14560	Yellow	60"
HSE01447	27860	Blue	60"
HSE01450	28072	Red	72"
HSE01444	14572	Yellow	72"
HSE01449	27872	Blue	72"
HSE01595	14596	Yellow	96"
HSE01596	14610	Yellow	10'
HSE01813	14612	Yellow	12'
HSE01428	14625	Yellow	25'
HSE01398	14650	Yellow	50'
HSE01313	14675	Yellow	75'
HSE01814	14699	Yellow	100'

## Plus II™ "B" Hose with 3/8" Straight Flare x 3/8" 45° Flare Fittings



Part #	Mfg #	Color	Length
HSE01293	18160	Yellow	60"
HSE01382	18172	Yellow	72"

Refrigerant Handling



# Vacuum & Charging Hose

## Plus II™ Heavy-Duty Combination Charging/Vacuum Hoses

- Minimum burst: 3,000 psi
- Maximum working pressure: 600 psi
- Operating temperature: -22° to 176°F (-30° to 80°C)

## 3/8" Plus II™ Heavy-Duty Hose with 3/8" Straight Flare x 3/8" Straight Flare Fittings

- Minimum bend radius: 8"



Part #	Mfg #	Model	Length
HSE01328	15612	BC-12	12"
HSE01315	15636	BC-36	36"
HSE01302	15648	BC-48	48"
HSE01212	15660	BC-60	60"
HSE01232	15672	BC-72	72"
HSE01364	15696	BC-96	96"
HSE01130	15710	BC-120	10'
HSE01265	15712	BC-144	12'
HSE01132	15720	BC-240	20'
HSE01457	15725	BC-300	25'
HSE01369	15750	BC-600	50'
HSE01549	15775	BC-900	75'

## 3/8" Plus II™ Heavy-Duty Hose with 3/8" Str Flare x FlexFlow™

- Minimum bend radius: 8"



Part #	Mfg #	Length
HSE01755	26036	36"
HSE01640	26048	48"
HSE01242	26060	60"
HSE01250	26072	72"
HSE01438	26096	96"
HSE01505	26110	10'

## 3/8" Plus II™ Heavy-Duty Hose with 1/4" Flare x 1/4" 45° Fittings



- Minimum bend radius: 8"

Part #	Mfg #	Length
HSE01324	20236	36"
HSE01835	20248	48"
HSE01394	20260	60"
HSE01246	20272	72"

## Plus II™ Heavy-Duty Hose with 3/8" Straight Flare x 1/4" 45° Fittings



Part #	Mfg #	Model	Length
HSE01323	16236	BCA-36	36"
HSE01244	16248	BCA-48	48"
HSE01303	16260	BCA-60	60"
HSE01279	16272	BCA-72	72"

## Plus II™ Heavy-Duty Hose with 3/8" Flare x 3/8" 90° Fittings



- Minimum bend radius: 8"

Part #	Mfg #	Length
HSE01512	19636	36"
HSE01374	19660	60"
HSE01558	19672	72"

## "C" Plus II™ Heavy-Duty Hose with 1/2" Flare x 1/2" Flare Fittings

- Minimum bend radius: 10"



Part #	Mfg #	Model	Length
HSE01329	15836	C-36	36"
HSE01292	15848	C-48	48"
HSE01280	15860	C-60	60"
HSE01213	15872	C72	72"
HSE01291	15896	C-96	96"
HSE01214	15910	C-120	120"
HSE01255	15912	C-144	144"
HSE01136	15920	C-240	240"
HSE01456	15925	C-300	300"
HSE01554	15950	C-600	600"

# Vacuum & Charging Hose

## "D" Plus II™ Heavy-Duty Hose with 5/8" Flare x 5/8" Flare Fittings

- Minimum bend radius: 10"



Part #	Mfg #	Model	Length
HSE01390	16036	D-36	36"
HSE01391	16048	D-48	48"
HSE01350	16060	D-60	60"
HSE01392	16072	D-72	72"
HSE01499	16096	D-96	96"
HSE01419	16112	D-144	144"
HSE01458	16125	D-300	300"

## Plus II™ Heavy-Duty Hose with 1/2" Flare x 3/8" Flare Fittings

- Minimum bend radius: 10"



Part #	Mfg #	Length
HSE01591	19248	48"
HSE01389	19260	60"
HSE01217	19272	72"
HSE01218	19296	96"

## Plus II™ Heavy-Duty Hose with 3/8" Flare x 3/8" Flare Fittings

- Minimum bend radius: 10"



Part #	Mfg #	Length
HSE01384	20636	36"
HSE01461	20648	48"
HSE01219	20660	60"
HSE01220	20672	72"
HSE01221	20696	96"
HSE01415	20712	12'

## "CA" Plus II™ Heavy-Duty Hose with 1/4" Angle End x 1/2" Flare Fittings

- Minimum bend radius: 10"
- 36" Hose will pull to 25 microns and lower
- Hoses longer than 8' not recommended for evacuation



Part #	Mfg #	Model	Length
HSE01761	16448	CA-48	48"
HSE01622	16460	CA-60	60"
HSE01316	16472	CA-72	75"
HSE01215	16496	CA-96	96"

## "DA" Plus II™ Heavy-Duty Hose with 1/4" Angle End x 5/8" Flare Fittings

- Minimum bend radius: 10"
- 36" Hose will pull to 25 microns and lower
- Hoses longer than 8' not recommended for evacuation



Part #	Mfg #	Model	Length
HSE01587	16648	DA-48	48"
HSE01216	16696	DA-96	96"

Refrigerant Handling

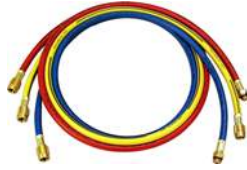


# Vacuum & Charging Hose

## R-134A System Hoses and Fittings

### Automotive Manifold Hoses for R-134A Systems

- 1/4" Hose combining Plus II™ hose with Acme fittings to meet SAE requirements
- "Plus II™" double-barrier protection in a hose manufactured specifically for automotive applications
- 1/2" Acme end uses 19020 gasket
- UL Recognized assemblies
- Operating temperature: -20° to 180°F



Part #	Mfg #	Color	Conn	Length
HSE01317	27236	Blue	1/2" Fem x 14mm M	36"
HSE01318	27636	Red	1/2" Fem x 14mm M	36"
HSE01327	27248	Blue	1/2" Fem x 14mm M	48"
HSE01326	27648	Red	1/2" Fem x 14mm M	48"
HSE01359	27102	R/Y/B	1/2" Fem x 14mm M	60"

## Original 1/4" Charging Hoses

- Specially formulated rubber tube resists most refrigerants and assures long work life
- Blow-off groove channels refrigerant out of the front of the nut to help prevent spray back
- Hose cover pin-pricked to resist bubbling and bursting
- Minimum burst: 2,500 psi
- Maximum working pressure: 500 psi
- Operating temperature: -40° to 180°F (-40° to 82.2°C)
- Minimum bend radius: 6"



### 1/4" Original Hose with 1/4" Straight x 1/4" 45° Angle Brass Fittings

Part #	Mfg #	Model	Color	Length
HSE01229	21012	HA12Y	Yellow	12"
HSE01259	21024	HA24Y	Yellow	24"
HSE01262	21048	HA48Y	Yellow	48"
HSE01163	21060	HA60Y	Yellow	60"
HSE01511	21096	HA96Y	Yellow	96"
HSE01402	21125	HA300Y	Yellow	25'
HSE01257	21212	HA12B	Blue	12"
HSE01260	21224	HA24B	Blue	24"
HSE01161	21236	HA36B	Blue	36"
HSE01167	21272	HA72B	Blue	72"
HSE01258	21612	HA12R	Red	12"
HSE01261	21624	HA24R	Red	24"
HSE01162	21636	HA36R	Red	36"
HSE01165	21660	HA60R	Red	60"
HSE01168	21672	HA72R	Red	72"
HSE01169	21983	HA36RYB	R/Y/B	36"
HSE01210	21984	HA48RYB	R/Y/B	48"



# Vacuum & Charging Hose

## Charging Hose

### 1/4" Enviro-Guard™ Hose with Quick Seal™ Fittings

- Special barrier material prevents virtually any permeation of refrigerant, yet remains flexible
- 45° Quick Seal™ fittings
- Working pressure: 740 psi
- Burst pressure: 3,700 psi



Part #	Mfg #	Color	Length
KIT05121	69060A	RYB	60"
HSE00362	69072A	RYB	72"

## 9" FlexFlow™ & Low Loss Adapter Hose

- Easy retrofit of existing "Plus II™" hose with FlexFlow capabilities
- Flexible hose between valve and fitting for handling in tight areas
- Operating temperature: -20° to 180°F
- UL Recognized assemblies (File SA9737 valves SA10088)



Part #	Mfg #	Description
VAL07572	29001	1/4" Yellow Ball Valve Adapter
VAL08311	29201	1/4" Blue Ball Valve Adapter
HSE01483	29601	1/4" Red Ball Valve Adapter
ADP00919	25002	1/4" Yellow FlexFlow™ Adapter
HSE01247	25202	1/4" Blue FlexFlow™ Adapter
HSE01248	25602	1/4" Red FlexFlow™ Adapter
HSE01226	25802	1/4" Heavy-Duty FlexFlow™ Adapter
HSE01227	26002	3/8" Heavy-Duty FlexFlow™ Adapter
ADP00982	27002	Acme 1/2" Yellow FlexFlow™ Adapter
HSE01228	25980	R/Y/B 3/Pk: 25002, 25202, 25602
HSE01365	29980	R/Y/B 3/Pk: 29001, 29201, 29601

## Stainless Steel Hose

- Stainless steel braid wrapping a stainless steel core
- Prevents permeation and moisture infusion
- Use with all standard and new alternative refrigeration oils and refrigerants including R-123
- Applications: Vacuum and charging, vibration isolation, moveable components and permanent application
- Not for use with NH<sub>3</sub>

### Flare Stainless Steel Assembly for Display Cases

- Assemblies are made with combination male and female flares



Part #	Mfg #	Description
HSE01562	82536	36", 3/4" MFlr x MFlr
HSE01420	84136	36", 1/4" FFlr x FFlr

### Quick Coupler Stainless Steel Hose Assembly for Vacuum/Charging

- Brass quick coupler
- Standard 45° angle at one end on 1/4" and 3/8" (90° available)
- Straight fittings only on 1/2", 5/8" and 3/4"



Part #	Mfg #	Description
HSE01273	81636	36", 1/4" Straight x 45°
HSE01274	81648	48", 1/4" Straight x 45°
HSE01275	81660	60", 1/4" Straight x 45°
HSE01276	81736	36", 3/8" Straight x 45°
HSE01277	81748	48", 3/8" Straight x 45°
HSE01278	81760	60", 3/8" Straight x 45°
HSE01411	81860	60", 1/2" Straight

### Sweat Fitting Stainless Steel Assembly

- Manufactured with straight, copper sweat ends
- Male sweat to fit inside mating tube
- Female sweat to fit outside mating tube



Part #	Mfg #	Description
HSE01395	86118	18", 1/4" FSwt
HSE01396	85118	18", 1/4" MSwt
HSE01469	85236	36", 3/8" MSwt
HSE01470	85536	36", 3/4" MSwt

Refrigerant Handling

# Vacuum & Charging Hose

## Ammonia Charging Hoses

- Designed with steel quick couplers at both ends
- Available black only

### NHA Ammonia Charging Hose 1/4" Str Flr x 1/4" 45°

- Regular CH20 gaskets for 1/4" hoses (19010, 19020)
- Minimum burst: 2,500 psi (172 bar)
- Maximum working pressure: 500 psi (34 bar)
- Operating temperature for 1/4": -20° to 176°F (-28.8° to 80°C)
- Minimum bend radius: 6" (152 mm)



Part #	Mfg #	Model	Length
HSE01270	16848	NHA-48	48"
HSE01425	16872	NHA-72	72"
HSE01271	16896	NHA-96	96"

### NBC Ammonia Charging Hose 3/8" Str Flr

- CH11 gaskets for 3/8" hoses (19011)
- Minimum burst: 2,500 psi (172 bar)
- Maximum working pressure: 500 psi (34 bar)
- Operating temperature for 3/8": -22° to 176°F (-30° to 80°C)
- Minimum bend radius: 8" (203 mm)



Part #	Mfg #	Model	Length
HSE01642	19472	NBC-72	72"

### Steel Half Union Ammonia Fitting



Straight

Part #	Mfg #	Description
FTG01129	16801	1/4" MFlr x 1/4" MPT Str
UNN00875	16802	1/4" MFlr x 1/4" MPT 90°
UNN00876	16803	3/8" MFlr x 1/4" MPT Str

## Cylinder Valve Hoses

- Finger tight drum fitting
- Designed for finger tight operation on 125# and 145# refrigerant cylinders
- Gaskets seal without wrenches



### 1/4" Original Cylinder Valve Hose with Finger Tight Drum Fitting



- Burst pressure: 2,500 psi (172 bar)
- Working pressure: 500 psi (34 bar)
- Operating temperature: -20 to 180°F (-28.8 to 82.2°C)
- Minimum bend radius: 6"

Part #	Mfg #	Description
HSE01367	18072	1/4" FFlr x 3/4" NPS

## 3/4" Vacuum Hose



- Designed to save time in charging or evacuation of centrifugals and other large systems
- 3/4" NPTE Ends
- Minimum burst: 3,000 psi (206 bar)
- Maximum working pressure: 600 psi (41 bar)
- No fittings

Part #	Mfg #	Length
HSE00308	00268	4'
HSE00309	00269	6'
HSE00296	00087	15'
HSE00297	00209	25'

## Hose Gaskets



Part #	Mfg #	Description
GKT03872	19015	CH80 Gasket for 1/2" - 5/8" Hose, 10/Pk
KIT07454	19020	CH20 for 1/4" Hose, 5/16" Hose, and 1/2" Acme Hose, 10/Pk



# Vacuum & Charging Hose

## Access Fittings

### Half Union Access Fitting

**ROBINAIR**

Part #	Mfg #	Description
FTG00130	40401	1/4" MPT or 5/16" OD Solder, 6/Card

### Solder Union Access Fitting

**ROBINAIR**



40427

Part #	Mfg #	Description
UNN00043	13142	1/4" MFL x 1/4" OD Copper Tube Extension, 6/Pk
FTG00129	40427	1/4" MFL x 1/4" OD or 3/8" ID Solder, 6/Pk, Comes with Valve Core Remover (40535)

### Quick Seal™ Fitting Repair Kit

**ROBINAIR**



Part #	Mfg #	Description
KIT07725	18451	45° 1/4" Quick Seal™ Repair Kit

### Tee Access Fitting

**ROBINAIR**

Part #	Mfg #	Description
TEE00829	50386	Access Swivel Tee, 1/4" MFL Branch with Core x 1/4" MFL Run x 1/4" FFL Swivel Run with Depressor, Bulk, 25/Pk

## Piercing Valves

### Tube Piercing Valve with Flow Control

- Connector: 1/4" SAE

**ROBINAIR**



Part #	Mfg #	Description
VAL04437	40288	Fits 3/16", 1/4", 5/16", 3/8" OD

## Thermometers

### Dial Pocket Thermometer

- Includes a pocket clip carrying case

**ROBINAIR**



Part #	Mfg #	Temperature Range	Dial Facer
THR00020	10597	0° to 220°F	1"

## Tools

### Shim Valve Protector Tool

**ROBINAIR**

Part #	Mfg #	Description
TOL04195	100210	Tool

Refrigerant Handling



# Hose Adapters, Valves, & Parts

## SuperEvac™ Evacuation Systems

- All systems include a 2-valve manifold and (2) 3/8" vacuum hoses
- Vacuum valves, included with all systems, allow core removal and system isolation



### System I Basic System



Part #	Mfg #	Description
TOL01491	93865	1/2" System I: 2-Valve Manifold, (2) 48" Vacuum Hoses, (2) Valves
KIT15281	93866	3/8" System I: 2-Valve Manifold, (2) 48" Vacuum Hoses, (2) Valves

## SuperEvac™ Evacuation System II

- System II adds 69075 electronic gauge and standard ratchet wrench to Basic System



Part #	Mfg #	Description
TOL01906	93875	1/2" System II: 2-Valve Manifold, (2) 48" Vacuum Hoses, (2) Valves & Electronic Vacuum Gauge, Ratchet Wrench
GAG01120	93876	3/8" System II: 2-Valve Manifold, (2) 48" Vacuum Hoses, (2) Valves & Electronic Vacuum Gauge, Ratchet Wrench

## SuperEvac™ Evacuation System III

- System III adds a 6 or 8 cfm SuperEvac pump and 69075 electronic gauge and standard ratchet wrench



Part #	Mfg #	Description
KIT07883	93885	3/8" System III: 2-Valve Manifold, (2) 48" Vacuum Hoses, (2) Valves, Electronic Vacuum Gauge & 4 or 6 cfm SuperEvac Pump, Standard Ratchet Wrench

## SuperEvac™ Evacuation Manifold (FFIr)

- Flutterless™ gauge
- Non-restricting, full flow valves for fast vacuum
- 1/4-Turn full flow
- Extra port for electronic gauge
- Includes step-down adapter to connect to 3/8" pump intake



1-Valve 2-Valve



Part #	Mfg #	Description
MFD01227	93851	Sgl-Valve w/1/4" Schrader Mount w/3/8" FFir
MFD00945	93850	Sgl-Valve w/1/4" Schrader Mount w/1/2" FFir
MFD01193	93852	Sgl-Valve w/Low Side Gauge Mount w/3/8" FFir
MFD00967	93855	Sgl-Valve w/Low Side Gauge Mount w/1/2" FFir
MFD01194	93853	2-Valve w/Low Side Gauge Mount w/3/8" FFir
MFD00954	93860	2-Valve w/Low Side Gauge Mount w/1/2" FFir

## Complete Hose Parts Kit



- Includes:
  - (5) 1/8" Gaskets (19021)
  - (5) 1/8" Valve openers (19304)
  - (100) 1/4" Gaskets (19020)
  - (10) 1/4" Valve openers (19302)
  - (10) 1/4" Valve openers (19301)
  - (10) 3/8" Gaskets (19011)
  - (10) 1/2" - 5/8" Gaskets (19015)
  - (10) Cylinder valve gaskets (18001)
  - (10) SealRight™ o-rings (19037)
  - (4) SealRight™ plug assemblies (19038)
  - (4) SealRight™ nut & clips (19039)
  - Kit box with label for above parts (19004)



Part #	Mfg #	Description
HSE01749	19003	Kit in (12) Compartment Case

## Core Tools

### Accessories for 19000/18990/18993



Part #	Mfg #	Description
RNG01747	18995	O-Ring Kit

# Hose Adapters, Valves, & Parts

## Valve Core Tool

- Self-contained tool for quickly removing and replacing cores



Part #	Mfg #	Description
TOL03220	19306	Handle Contains (6) Cores

## Access Fittings

### Liquid Charging Adapter

- Reduces liquid flow to a level below compressor capacity
- Refrigerant flashes off into a saturated vapor to speed entry
- Eliminates the time and work of heating cylinders
- Blue color-coded aluminum



Part #	Mfg #	Description
ADP01050	41124	5/16"
ADP01099	41123	1/4" Liquid Charging Adapter
RNG01867	41132	1/4" Replacement Adapter O-Ring/Orifice

### Vacuum Pump Adapter

- Convert a 3/8" or 1/2" vacuum pump intake into flare and Acme compatible fittings



Part #	Mfg #	Description
ADP01121	36018	1/2" Pump Adapter with 1/4" Flr x 1/2" Acme Male Fittings
ADP01122	36019	3/8" Pump Adapter with 1/4" Flr x 1/2" Acme Male Fittings

### Vacuum Pump Intake Adapter

- Reducing adapter for intakes on SuperEvac™ and other pumps



Part #	Mfg #	Description
ADP00938	19130	3/8" FFlr x 1/4" MFlr
ADP00921	19131	1/2" FFlr x 3/4" MFlr
ADP00939	19132	1/2" FFlr x 1/4" MFlr
ADP00915	19133	3/8" FFlr x 1/2" MFlr

## Cylinder Valve Adapter

- Finger tight adapters fit 125 lb and 145 lb cylinders
- No wrench required
- Seal remains seated



Part #	Mfg #	Description
ADP00917	19105	3/4" NPS with 1/4" Male Flare
ADP00918	19106	3/4" NPS with 3/8" Male Flare

## High/Low-Side Adapter



Part #	Mfg #	Description
ADP01224	36211	1/4" x 13mm Low-Side Adapter
ADP01225	36212	1/4" x 16mm High-Side Adapter

## Add-a-Hose Coupler



Part #	Mfg #	Description
CPL01091	19144	1/4" MFlr
CPL01092	19146	3/8" MFlr
CPL00956	19148	1/2" MFlr

## Gauge Quick Coupler with CH14 Adjustable Valve Opener



Part #	Mfg #	Description
CPL00939	19110	1/4" Fe QC x 1/8" FNPT

## 45° R-410A Quick Coupler with Schraeder Core in Male End



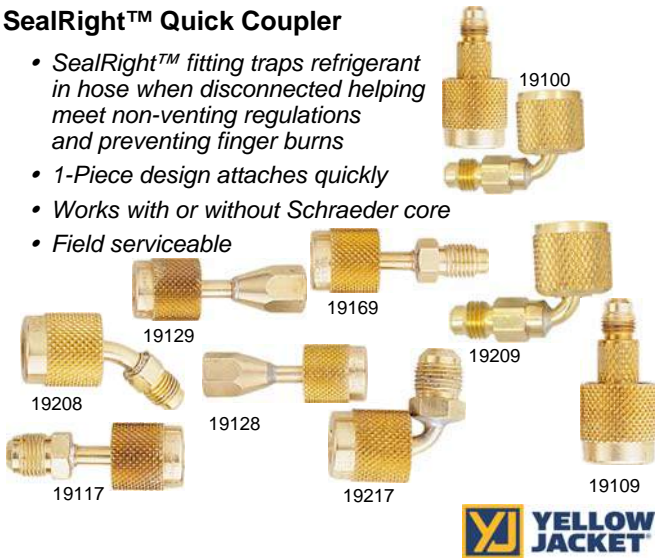
Part #	Mfg #	Description
CPL01043	19173	5/16" 45° Fe QC x 1/4" M Flare

Refrigerant Handling

# Hose Adapters, Valves, & Parts

## SealRight™ Quick Coupler

- SealRight™ fitting traps refrigerant in hose when disconnected helping meet non-venting regulations and preventing finger burns
- 1-Piece design attaches quickly
- Works with or without Schraeder core
- Field serviceable



Part #	Mfg #	Description
CPL00924	19109	1/4" Straight SR x 1/4" M Flare
CPL00928	19208	1/4" 45° SR x 1/4" M Flare
CPL00925	19209	1/4" 90° SR x 1/4" M Flare
CPL00944	19128	1/4" Straight x 1/8" FNPT
CPL01002	19100	Set of 19109 & 19209
CPL00945	19117	1/4" SealRight Str x 3/4" M Flare
CPL00948	19217	1/4" 90° SR x 3/8" M Flare
CPL00949	19218	1/4" 90° SR x 1/4" FPT
CPL00955	19129	1/4" Straight SR x 1/4" FNPT
CPL01029	19163	1/2" ACME SealRight x 1/4" MFlr
CPL01113	19169	1/2" ACME SealRight x 1/2" ACME

## SealRight™ Repair Assembly Component



Part #	Mfg #	Description
RNG01691	19037	1/4" O-Ring, 10/Pk
KIT07554	19039	1/4" SealRight Nut w/Clip
KIT07517	19040	1/4" SealRight™ Rebuild Kit
KIT08092	19041	SeakRight Overhaul Kit Includes 19037, 19038, 19039, 19040, 19041
GKT04252	19045	Gasket Set for SealRight Quick Couplers

## Straight Quick Coupler



Part #	Mfg #	Description
CPL00947	19125	1/8" QC x 1/4" MFlr (Ford)
CPL00946	19120	3/16" QC x 1/4" MFlr (GM)
CPL01014	19101	1/4" QC x 1/4" MFlr
CPL00932	19102	1/4" QC x 3/8" MFlr
CPL00940	19111	1/4" QC Str x 1/8" MPT
CPL00941	19116	1/4" QC Str x 1/4" MPT
CPL00942	19118	1/4" QC Str x 1/4" FPT
CPL01247	19103	3/8" QC x 3/8" MFlr
CPL00933	19104	3/8" QC x 1/4" MFlr
CPL00965	19114	3/8" QC x 1/2" MFlr
CPL01000	19115	1/2" QC x 3/8" MFlr
CPL00964	19171	1/4" F QC x 1/4" MFlr
CPL00988	19172	3/4" F QC x 1/4" MFlr

# Hose Adapters, Valves, & Parts

## 45° R-410A Quick Coupler with Schrader Core in Male End



Part #	Mfg #	Description
CPL01044	19174	1/4" 45° F QC x 5/16" MFir
CPL01248	19175	5/16" 45° F QC x 5/16" MFir

## Quick Coupler-Style Braze-In Fittings

- Braze-in brass fitting with replaceable soft seat



Part #	Mfg #	Description
FTG01025	19082	1/4" Str FFir with CH20 Gasket
FTG00883	19088	1/2" Str FFir with Quad Ring

## 90° Quick Coupler



Part #	Mfg #	Description
CPL00927	19201	1/4" 90° F QC x 1/4" MFir
CPL00963	19191	1/4" 90° F QC x 1/4" MFir
CPL00989	19192	3/8" 90° F QC x 1/4" MFir

## Gauge Quick Coupler

- With CH14 adjustable valve opener



Part #	Mfg #	Description
CPL00997	19210	1/4" F QC 90° x 1/8" FPT
ADP01178	19122	1/4" QC Str x 5/16" MFir

## Auto Acme Coupler - Auto Straight



Part #	Mfg #	Description
CPL01119	19142	1/2" Acme Union
CPL00943	19161	1/2" Acme Male x 1/4" Fem Flr
CPL00935	19165	1/2" Acme Fem x 1/4" M Flr
ADP01140	19158	1/2" Acme Fem x 14mm Male
FTG00865	19157	14mm Male x 1/4" Male Flr
CPL00998	19156	14mm Male x 3/8" Male Flr
CPL00950	40265	1/2" Acme Male x 1/8" NPT Half Union

## Automotive R-134A Economy A/C Coupler

- Basic coupler with no control valve
- Snaps on for instant flow



Part #	Mfg #	Description
CPL00957	41317	Low-Side
CPL00958	41318	High-Side

## Automotive R-134A Premium A/C Coupler with Control Valve

- Quick, easy connect/disconnect
- Control valve for access to systems even at working pressures
- Integral safety sleeve holds coupler to service port
- Highest flow characteristics
- Low profile for tight applications



Part #	Mfg #	Description
CPL00929	41301	Chrome Hi-Side x 14mm
CPL00930	41302	Chrome Lo-Side x 14mm
CPL01006	41328	Low Side x 3/8" MFir
CPL00959	41337	High Side x 1/4" MFir
CPL00960	41338	Low Side x 1/4" MFir

Refrigerant Handling

# Hose Adapters, Valves, & Parts

## R1234yf A/C Coupler

- Interface with R1234yf service ports
- Easy connect/disconnect
- 12mm FPT
- SAE J639, J2888, and J2911 certified



Part #	Mfg #	Description
CPL01251	41441	High-Side Auto-Coupler
CPL01252	41442	Low-Side Auto-Coupler

## Coupler/Hose Parts

### Quick Coupler Gasket

- Designed for optimum performance with Yellow Jacket® charging hoses
- Works with all refrigerants
- Manufactured to strict tolerances to resist blow-out



Part #	Mfg #	Description
GKT03847	19005	CH20/100 Gasket for 1/4" Hose, 100/Pk
KIT07453	19011	CH11 Gasket for 3/8" Hose, 10/Pk
GKT03871	18001	Cylinder Valve Gasket (Flat Washer), 10/Pk
GKT03860	19021	1/8" Gasket for 1/8" Coupler, 10/Pk
KIT07452	19010	(6) CH20 & (3) CH14 Gaskets for 1/4" Hose Opener
RNG01858	19012	E Hose, 3/4" Hose Gaskets, 10/Pk

### Copper Gasket



Part #	Mfg #	Description
GKT04697	59655	3/4", 10/Pk

## Quick Coupler O-Ring

- Designed for optimum performance with Yellow Jacket® charging hoses
- Works with all refrigerants
- Manufactured to strict tolerances to resist blow-out



Part #	Mfg #	Description
RNG01690	19025	1/4" Quad O-Rings, 10/Pk
RNG01892	19026	3/8" Quad O-Rings, 10/Pk
RNG01748	19027	1/2" Quad O-Rings, 10/Pk
KIT07476	19038	Plug Assembly w/Seals
GKT04221	19030	Rubber Gasket O-Ring for 19130 & 19133, 10/Pk
GKT04051	41305	O-Ring Kit for 41318 & 41317, 6/Pk
RNG01709	41300	O-Rings for Automotive R-134A A/C Couplers, 2/Pk

## Adjust-A-Valve™ Opener

- Patented valve opens out-of-tolerance Schrader valves



Part #	Mfg #	Part #	Description
TOL01509	19301	CH75	1/4" Valve Opener, 10/Pk
TOL01465	19302	CH14	Adj Valve Opener, 10/Pk
TOL01508	19304	-	1/8" Valve Opener, 10/Pk

## Vacuum/Charging Valves

### 5/16" 4-In-1 Vacuum/Charge Ball Valve & Core Tool

- Core removal access to evacuate and charge through an unrestricted line for increased speed and higher vacuum
- Core replacement
- Core removal allows recovery unit to work at maximum efficiency, speeding the recovery process
- For use with R-410A and mini-splits



Part #	Mfg #	Description
TOL03900	18981	5/16" Vacuum/Charge
VAL09094	18988	5/16" Rethread Accessory
VAL09095	18989	5/16" Schrader Rethreader
KIT15853	18984	Seal Kit for 18985 Valve

# Hose Adapters, Valves, & Parts

## Vacuum/Charging Ball Valve for Full Flow

- Straight flow-through valves connect hoses and provide full-flow capacity
- No angles for restriction or pressure drops
- Handle position shows when valve is open, securely closed, or anywhere in between



Part #	Mfg #	Connections
VAL07316	93833	1/4" SAE MFlr x 1/4" FPT
VAL07200	93834	1/4" SAE MFlr x 1/4" MFlr
VAL07199	93844	1/4" SAE MFlr x 1/4" FFlr
VAL07445	93832	3/8" SAE MFlr x 1/4" FPT
VAL07320	93836	3/8" SAE MFlr x 3/8" MFlr
VAL07203	93846	3/8" SAE MFlr x 3/8" FFlr
VAL07321	93838	1/2" SAE MFlr x MFlr
VAL08493	93840	1/2" SAE MFlr x FFlr
VAL07434	93830	1/2" SAE MFlr x 1/2" MFlr
VAL07319	93848	1/2" SAE MFlr x 1/2" FFlr

## 5/16" Compact Ball Valve for Special R-410A Applications

- Metal valve handle
- Add to hoses for charging and recovery
- Minimum burst: 4,000 psi
- Maximum working pressure: 800 psi
- UL Recognized



Part #	Mfg #	Description
VAL08779	93825	5/16" FFlr x 1/4" MFlr

## 1/4" and 5/16" Vacuum/Charge Ball Valve Accessories



Part #	Mfg #	Description
TOL01544	18980	2-Piece Core Tool Accessory Set
TOL01430	18978	Schrader Rethreading Accessory
TOL01431	18979	Broken Schrader Remover Accessory
GKT03859	18973	Gaskets for 18975, 5/Pk
KIT12244	18974	Seal Kit with Core, Cap, (4) O-Rings & Gasket
KIT07882	18997	Grappler Rod/Nut Assembly

## Vacuum/Charge Valve



Part #	Mfg #	Description
VAL07317	18990	Vacuum/Charge Valve w/Side Port
TOL01429	19000	Original Vacuum/Charge Valve

## Modified Needle Valve

- In-line control



Part #	Mfg #	Description
VAL07305	69670	Bleed Valve (1/4" Flr Threads)

Refrigerant Handling



# Hose Adapters, Valves, & Parts

## Retrofit Accessory Tools

### Universal Valve Core Remover/Installer

- For easy replacement of standard and GM R-12 large bore valve cores



Part #	Mfg #	Description
KIT17936	36270	Double-Ended Univ Valve Core Remover/Installer

### Universal R-134A Large Bore Core Remover/Installer



Part #	Mfg #	Description
TOL02142	36271	Univ Lg Bore Core Remover/Installer





# Indoor Air Quality

## Anemometers

### TH4200 Anemometer



- Ft/min: 10-8,800fpm
- Also measures Km/her, knots and M/S
- Temperature range: 32° to 140°F (0° to 60°C)
- Data-hold and low battery indication
- Sensitive for low/high air velocity
- Coiled cable vane head
- Includes soft carrying case and battery

Part #	Mfg #	Description
TOL02775	2042-0000	TH4200 Anemometer

## CO Monitors

### Monoxor® Plus CO Monitor



- Measures levels between 0 - 2,000 ppm (in 1 ppm increments)
- Measures ambient temperature, flue gas temperature (requires optional probe 0019-7111) and differential temperature capability
- B-Smart® pre-calibrated sensor - easy field replacement
- High-contrast monochrome graphic LCD display with back light
- Shows CO ambient readings, trending graph, calibration reminders and 10-record internal memory
- Default CO alarm setting with user-changeable set point measures
- Operating temperature: 23°-113°F (5°-45°C)
- Probe maximum temperature: 1,000°F (538°C)
- Includes:
  - 6' Hose/probe assembly
  - Water trap/filter
  - Hard carrying case
  - Instruction manual
- 2-Year limited warranty, including sensor
- Made in USA

Part #	Mfg #	Description
KIT16754	0019-8117	Monoxor® Plus CO Monitor with (4) AA batteries
KIT16755	0019-8118	Monoxor® Plus CO Monitor with (8) AA Batteries, Printer, Software and USB Cable

### Snifit® 50 Accessories

Part #	Mfg #	Description
TOL02902	0019-7060	Snifit® 50 Analyzer with Instructions
TOL03289	0019-7061	Sensor, Replacement with Gasket for Snifit® Analyzer

## Snifit® + CO Personal Monitor



- LED Visual, audible and vibrating alerts for low/high, TWA and STEL conditions
- Backlit for viewing in dark areas
- Displays 0 to 999 ppm, then % by volume
- Low battery indication
- Operates (2) years then dispose, no parts to replace
- Made in USA



Part #	Mfg #	Description
TOL04037	0019-7600	Snifit® + CO Personal Monitor

## Sling Psychrometers

### Sling Psychrometer

- Portable (7.5" long x 1" diameter)
- Slide rule construction
- Built-in water reservoir for several hours of testing
- Thermometers constructed of shock-resistant glass
- 1° Scale divisions
- Accurate to within ±5% R. H.
- Made in USA



Part #	Mfg #	Temperature Range
TOL02776	0012-7012	20° - 120°F, Red Spirit Filled
MTR01015	0012-7043	-5° - 50°C, Red Spirit Filled
MTR01091	0012-0266	25° - 120°F, Red Spirit Filled Thermometer Replacement
KIT12491	0012-0011	Wick Replacement Kit - (4) Wicks
CAP01006	0006-5456	Cap for Sling Psychrometer

## Digital Wall Thermometers

### TH3000 Dual-Channel Digital Thermometer

- Temperature range: -50° to 1,999°F (-50° to 1,300°C)
- T1-T1 Differential measurement
- Data-hold and max-hold functions
- Includes:
  - Protective boot
  - (2) K-type 39" thermocouples
  - Battery



Part #	Mfg #	Description
TOL02777	2030-0000	TH3000 Dual-Channel Digital Thermometer

Refrigerant Handling

# Leak Monitors & Detectors

## Leak Detectors

### GSD600 Gas Leak Detector

- Detects methane and propane gas
- Automatic calibration feature
- 5 Level LED alarm
- Built-in earphone jack with mute function
- Flexible probe
- Auto power-off feature



Part #	Mfg #	Description
MTR01210	GSD600	Gas Leak Detector

### RLD-1 Refrigerant Leak Detector

- Detects halogenated refrigerants including R-134A, R-404A, R-407C, R-410A, R-22
- Suction pump provides instant response and quick sensor clearing
- Clear leak indication with audio and tri-color visual LED display
- High-medium-low leak sensitivity selector
- Reference leak source included
- Ambient concentration reset
- Automatic zero and background compensation



Part #	Mfg #	Description
MTR01366	RLD-1	Refrigerant Leak Detector

### Ultrasonic ULD-300/TMULD-300 Leak Detector Kit

- Detects any pressurized gas leak
- Locates arcing in an electrical system
- Useful in finding the ends of buried PVC pipes
- Tests the "air-tightness" of weather seals, tanks, ovens, refrigerators, etc.
- Locates leaks in duct work
- 33-Hour 9V alkaline battery



Part #	Mfg #	Description
TOL02062	ULD-300	Ultrasonic Leak Detector
TOL01948	TMULD-300	Ultrasonic Leak Detector Kit

## Leak Detectors

### H-10Pro All-in-One Refrigerant Leak Detector

- Detects all CFC, HFC and HCFC refrigerants
- Manual or automatic, auto zero balance control
- Pass and fail test mode
- Unique sensor calibration system
- Pinpoints both small and large leaks
- Operates on battery or AC power
- Made in USA



Part #	Mfg #	Description
TOL04318	3015-8004	H-10 Pro Refrigerant Leak Detector with North American Wall Plug

### H-10 Pro All-in-One Refrigerant Leak Detector Accessories



Part #	Mfg #	Description
KIT15745	3015-0638	Standard Probe for H-10G & H-10P
BAT00055	3015-0103	12V Replacement Battery for H-10 Pro, H-10 PM
TOL02943	3015-0119	120-240VAC Universal Input Wall Adapter with North American and International Wall Plugs
SEN01566	3015-0486	Replacement Refrigerant Sensor
TIP00182	3015-0641	Clear Probe Tip
TIP00177	3015-0680	Rubber Probe Tip
KIT15218	3015-0781	Tune-Up Kit with Sensor, Calibration Bottle, 100 Filters, (3) Airflow Balls, and (3) Rubber Tips
KIT15199	3015-0784	H10PM/ H10G Maintenance Kit with 100 Filters, (3) Airflow Balls, and (3) Rubber Probe Tips
BOT00014	3015-0864	Leak Reference Bottle

# Leak Monitors & Detectors

## MGS-150 Leak Detector

- Infrared, semiconductor, and electrochemical sensor options
- Fast-response sensors detect leaks quickly
- Long-life semi-conductor sensors
- Robust design and remote sensor options allow units to be placed where needed
- Available in a variety of housing, including IP66 and duct mount



Part #	Mfg #	Description
MON00127	6300-1090	CO2 IR Sensor, 0 to 5,000 ppm, IP41 Housing
MON00128	6300-1091	CO2 IR Sensor, 0 to 10,000 ppm, IP41 Housing
MON00129	6300-1092	CO2 IR Sensor, 0 to 20,000 ppm, IP41 Housing
MON00139	6300-1101	R-134a SC Sensor, 0 to 1,000 ppm, IP41 Housing
MON00142	6300-1107	R-410A SC Sensor, 0 to 1,000 ppm, IP41 Housing

## MGS-150 Parts & Accessories



Part #	Mfg #	Description
MON00145	6300-1109	SC Sensor and Transmitter, R-22 0-1,000ppm for IP41
MON00130	6300-2090	IR Sensor and Transmitter, CO2 0-5,000ppm for IP66
MON00131	6300-2091	IR Sensor and Transmitter, CO2 0-10,000ppm for IP66
MON00132	6300-2092	IR Sensor and Transmitter, CO2 0-20,000ppm for IP66
MON00140	6300-2101	SC Sensor and Transmitter, R-134A 0-1,000ppm for IP66
MON00143	6300-2107	SC Sensor and Transmitter, R-410A 0-1,000ppm for IP66
MON00146	6300-2109	SC Sensor and Transmitter, R-22 0-1,000ppm for IP66
MON00133	6300-4090	IR Sensor and Transmitter, CO2 0-5,000ppm for IP66 with Remote Sensor
MON00134	6300-4091	IR Sensor and Transmitter, CO2 0-10,000ppm for IP66 with Remote Sensor
MON00135	6300-4092	IR Sensor and Transmitter, CO2 0-20,000ppm for IP66 with Remote Sensor
MON00141	6300-4101	SC Sensor and Transmitter, R-134A 0-1,000ppm for IP66 with Remote Sensor
MON00144	6300-4107	SC Sensor and Transmitter, R-410A 0-1,000ppm for IP66 with Remote Sensor

## Leak Detectors (Continued)

### MGS-150 Parts & Accessories

Part #	Mfg #	Description
MON00147	6300-4109	SC Sensor and Transmitter, R-22 0-1,000ppm for IP66 with Remote Sensor
MON00136	6300-8090	IR Sensor and Transmitter, CO2 0-5,000ppm for IP66 with Airflow/Duct Mount
MON00137	6300-8091	IR Sensor and Transmitter, CO2 0-10,000ppm for IP66 with Airflow/Duct Mount
MON00138	6300-8092	IR Sensor and Transmitter, CO2 0-20,000ppm for IP66 with Airflow/Duct Mount

## MGS-250 Leak Detector



- Long-life, non-dispersive infrared (NDIR) sensor
- Detects all refrigerants
- Fast-responding, refrigerant-specific sensor with no cross-interference from other gases
- No field calibrations required
- Modbus RTU interface connects to BAS/BMS systems
- On-board alarm relay

Part #	Mfg #	Description
MON00112	6401-0500	IR Halocarbon Detector, Broadband Version
MON00113	6401-0501	IR R-22 Detector
MON00114	6401-0502	IR R-123 Detector
MON00115	6401-0503	IR R-134A Detector
MON00116	6401-0508	IR R-410A Detector
MON00117	6401-0513	IR HFO1234YF Detector
MON00118	6401-0514	IR HFO1234ZE Detector

## MGS-250 Parts & Accessories



Part #	Mfg #	Description
BAS02726	6400-0014	Replacement Mounting Base, for IR
SEN02335	6400-0015	Replacement Halocarbon Detector, IR Broadband
SEN02336	6400-0016	Replacement R-22 Detector
SEN02337	6400-0017	Replacement R-123 Detector
SEN02338	6400-0018	Replacement R-134a Detector
SEN02339	6400-0023	Replacement R-410A Detector
SEN02340	6400-0028	Replacement IR Detector, HFO1234YF
SEN02341	6400-0029	Replacement IR Detector, HFO1234ZE
SHD00586	6900-0001	Splash Shield

Refrigerant Handling

# Leak Monitors & Detectors

## Informant® 2 Dual Purpose Leak Detector

- Detects refrigerants and combustible gases
- Audible indicator with mute
- Interchangeable sensors set at the tip for pinpoint accuracy and instant response time
- Flashing probe tip
- Dual LED displays
- Low battery indicator
- Optional boot and flashlight
- UL-913 Certified intrinsically-safe
- Made in USA



Part #	Mfg #	Description
TOL02689	0019-8038	Contractor Kit with Hard Carrying Case
TOL02706	0019-8042	Detector Kit with (5) Filters and Soft Carrying Case
TOL02703	0019-8045	Deluxe Detector Kit with Flashlight, Rubber Boot, (6) AA Batteries, (5) Filters and Hard Carrying Case
TOL03131	0019-8040	Refrigerant Only Detector Kit with (5) Filters and Soft Carrying Case
TOL03132	0019-8043	Deluxe Refrigerant Only Detector Kit with (5) Probe Filters, (6) AA Batteries, Rubber Boot, Soft Carrying Case, and a MagLite®

## Informant® 2 Dual Purpose Leak Detector Accessories



Part #	Mfg #	Description
SEN01377	0019-0499	Replacement Combustibles Sensor
SEN01347	0019-0510	Replacement Refrigerant Sensor
TOL03956	0019-0507	Red Combustible Probe Tip less Sensor
TOL02875	0019-0473	Blue Refrigerant Probe Tip less Sensor
CAS01796	0019-0497	Protective Rubber Boot for Informant & Informant 2
FLR06506	0019-0509	Replacement Filters for Informant 2 & Informant, 5/Pk

## Tru Pointe® Refrigerant Leak Detector

- Detects any refrigerant containing chlorine, fluorine or bromine gas
- Accurate in environments where high levels of refrigerant vapors are present
- Audible and visual alarms
- Made in USA



Part #	Mfg #	Description
TOL02782	0019-8106	Tru-Pointe® Refrigerant Leak Detector
SEN01375	0019-0559	Replacement Sensor

## Tru Pointe® Ultra Leak Detector Accessories



Part #	Mfg #	Description
TOL03440	0028-8006	Soundblaster® Ultrasonic Sound Generator

## Leak Detector Kits

### Leakator® 10 Leak Detector Kit

- Detects acetone, acetylene, benzene, butane, ethanol, ethylene oxide, gasoline, hexane, hydrogen, industrial solvents, methane, paint thinners, propane, natural gas, and naptha
- Audible indicator
- Sensitivity: 20 ppm useable sensitivity (methane)
- Sensitivity thumb-wheel control
- Operational status LEDs
- Patented solid state sensor
- 20" Flexible probe for hard to reach locations
- UL-913 Certified intrinsically-safe
- CE mark
- Make in USA



Part #	Mfg #	Description
TOL02705	0019-7051	Leakator® 10 Kit

### Leakator® Jr. Leak Detector Kit

- Detects acetone, acetylene, benzene, butane, ethanol, ethylene oxide, gasoline, hexane, hydrogen, industrial solvents, iso-butane, methane, methanol, paint thinners, propane, natural gas, and naptha
- (1) Variable frequency LED
- Audible indicator
- Sensitivity: 20/50 ppm useable sensitivity (methane)
- Operational status LED
- 12" Flexible probe
- UL-913 Certified intrinsically-safe
- CE Mark



Part #	Mfg #	Description
TOL02784	0019-7075	Leakator® Junior

# Leak Monitors & Detectors

## Leakator® Jr. Portable Combustible Gas Leak Detector Accessories



Part #	Mfg #	Description
SEN01374	0019-0575	Rep Combustible Gas Sensor, Leakator Jr.

## Tru Pointe® 1100 Leak Detector Kit

- Unaffected by presence of other gases or sounds in test area, wind, or temperature fluctuations
- Includes high-quality noise attenuating headphones compatible with hard hats
- Unique AudioZoom™ volume control
- Made in USA



Part #	Mfg #	Description
TOL03443	0028-8002	Tru Pointe® with Headphones
TOL03445	0028-8012	Tru Pointe® with Headphones and Soundblaster®

## Tru Pointe® 2100 Leak Detector Kit

- Detects any gas leak regardless of chemical property or concentration
- Ideal for stream trap testing, detecting bearing wear, gas and valve leaks
- Unaffected by wind or temperature fluctuations, other sounds or gases in the test area
- Unique AudioZoom™ volume control
- Includes:
  - Headphones
  - 6" Touch probe
  - Segmented 3' extension touch probe
  - 6" Wave guide
- Made in USA



Part #	Mfg #	Description
TOL03444	0028-8003	Tru Pointe® with Headphones
TOL03446	0028-8013	Tru Pointe® with Headphones and Soundblaster®

## Tru Pointe® Ultra Leak Detector Kit

- Airborne frequency response: 34kHz - 42kHz
- Analog controlled heterodyne
- Unaffected by wind, presence of other gases or high concentrations
- 10-Step LED bar graph shows signal strength
- On-the-fly sensitivity adjustment aids in locating leaks quickly
- True sound reproduction ensures fast recognition of leaks
- Made in USA



Part #	Mfg #	Description
TOL03436	0028-8000	Tru Pointe® Ultra with Folding Headset
TOL03437	0028-8010	Tru Pointe® Ultra with Folding Headset and Soundblaster®
TOL03438	0028-8001	Tru Pointe® Ultra HD with Stereo Headphones
TOL03439	0028-8011	Tru Pointe® Ultra HD Leak with Stereo Headphones and Soundblaster®

## Leak Detector Kits

### SRL2 Infrared Refrigerant Leak Detector Kit

- Senses change in refrigerant concentration
- Sensitivity below 0.1 oz/yr
- Inherently handles background refrigerant without re-adjustment; won't trigger on oil or moisture
- 8-Hour rechargeable lithium battery
- Detects CFC, HFC, HCFC and blends
- Auto-recalibration
- Includes:
  - Advanced refrigeration leak detector (SRL2K7)
  - 9" Flex probe extension (RFE2)
  - 9" Needle tip probe (RRE2)
  - Wall and vehicle chargers
  - (10) Filters and (5) O-rings
  - Blow-molded hard case (ABMK3)
  - Operator's manual



Part #	Mfg #	Description
SEN01565	SRL2K7	Advanced Refrigerant Leak Detector Kit

Refrigerant Handling



# Leak Monitors & Detectors

## SRL8 Heated Diode Refrigerant Leak Detector Kit

- Senses absolute concentration
- Sensitivity below 0.1 oz/yr
- 15-Hour rechargeable lithium battery
- Detects CFC, HFC, HCFC and blends
- Most sensitive to R-22
- Manual or automatic zeroing
- Can trigger on moisture and oil
- Includes:
  - Refrigeration leak detector (SRL8)
  - 9" Flex probe extension (RFE2)
  - 9" Needle tip probe (RRE2)
  - Wall and vehicle chargers
  - (10) Filters and (5) O-rings (RFL-2)
  - Blow-molded hard case (ABMK3)
  - Operator's manual



Part #	Mfg #	Description
TOL03298	SRL8	Heated Diode Refrigerant Leak Detector Kit

## Head Sensor



Part #	Mfg #	Description
SEN01832	RHD1	Head Sensor for SRL8

## Leak Detectors

### TIF 8900 Combustible Gas Leak Detector

- Automatic warm-up
- Audible "geiger counter" signal
- Adjustable sensitivity as low as 5ppm
- Cordless operation
- LED Leak intensity lights
- 16" Stainless flexible probe
- Made in USA



Part #	Mfg #	Description
SEN01296	TIF8900	Combustible Gas Detector

## TIF ZX Heated Pentode™ Refrigerant Leak Detector

- Detects all halogenated refrigerants
- Tri-color visual leak size indicator
- Mute feature silences audible alarm
- Sensor status indication
- 16" Flexible stainless probe
- Standard power source: 4.8V nickel-cadmium rechargeable battery pack standard
- 3-Year warranty
- Made in USA



Part #	Mfg #	Description
SEN01163	TIFZX	Refrigerant Leak Detector Kit

## Leak Detector Kits

### Heated Pentode™ Refrigerant Leak Detector TIFZXKIT

- Detects all halogenated refrigerants
- 16" Flexible stainless probe
- Sensor status indication
- Sensitivity: <0.1oz/yr, as low as 0.05 oz/yr (R-12)
- Tri-color visual leak size indicator
- Tactile keypad controls
- Mute feature and audible alarm
- Power sources:
  - 4.8V NiCad rechargeable battery pack
  - NiMH rechargeable battery
- UL Classified and CE approved
- 3-Year limited warranty



Part #	Mfg #	Description
TOL04196	TIFZXKIT	TIFZX with (2) Sensors, Spare Filter, Battery Benchtop Charger, 12 VDC and 110V Chargers, (2) Batteries, and Blow-Molded Padded Case

## Glasses

### Fluorescent Glasses



Part #	Mfg #	Description
GLS00896	69415	Fluorescent Viewing Glasses

# Leak Monitors & Detectors

## Leak Detection Flashlights

### Micro LED UV Leak Detection Light

- Aluminum body
- Individual reflectors surround each of (5) LEDs recessed for protection in the stainless steel head
- 110,000+ Hour LEDs
- Constant ON switch
- Sealing locks out moisture
- Includes AA Alkaline battery
- Limited lifetime warranty



Part #	Mfg #	Description
TOL03700	69782	Flashlight, Leak Detector Micro UV LED 395-415nm
TOL02041	69788	Micro UV LED & Dye Kit for Auto
TOL02040	69789	Micro UV LED Flashlight & Dye Kit for ACR

### AC Powered UV Lamp Lens



Part #	Mfg #	Description
LNS00848	69468	Replacement UV Filter Lens

## Refrigerant Leak Detectors

### Universal A/C Disposable Injector

- Self-contained
- Not for direct injection into R-410A systems
- One ounce application includes (2) 1/2 oz applications for regular split systems or (4) 1/4 oz applications for small appliances or auto AC



Part #	Mfg #	Description
CHM00740	69700 - 6/CASE	1 oz, 6/Pk
CHM00486	69721	1 oz, 2/Pk
CHM00487	69727	1 oz, 1/Pk

### Universal A/C Dye Applicator

- For A/C and refrigeration systems with mineral, alkyl or polyolester lubricants
- (4) 1/4 oz Applications of dye in each disposable tube
- Hose features back flow check valve



Part #	Mfg #	Description
CHM00485	69702	Hose Plus (2) Injectors
HSE01474	69705	Injector Hose with SealRight

### Calibrated A/C Screw Injection

- 2 oz Injector
- Calibrations are clearly marked on injector
- Connect to A/C lo-side and rotate handle
- Maximum port pressure: 250 psi



Part #	Mfg #	Description
TOL03693	69729	Universal Screw Injector
TOL02175	69731	Auto R-134A Calibrated A/C Screw Injector with Service Coupler

### Fluorescent Scanner System II Bulb



Part #	Mfg #	Description
BUL00848	69466	Replacement UV Bulb with Ballast

Refrigerant Handling



# Electronic Leak Detectors

## Leak Detectors

### H2 Electronic Leak Detector

- Use in conjunction with tracer gas mixture to detect leak rates less than 5 ppm
- Over 300 hour sensor life
- 17" Probe length
- Powered by (4) AA alkaline batteries
- 8 Hours of continuous life
- EN35422 and EN14624 Approvals



Part #	Mfg #	Description
TOL04044	69341	H2 Leak Detector
TOL04045	69342	Replacement H2 Sensor & Filter for H2 Leak Detector
CAS02032	69343	Grey Carrying Case with Inserts for H2 Leak Detector

## Leak Detection Flashlights

### RLD2 Leak Detector Flashlight

- (6) UV LEDs
- Laser pointer for pinpointing leak
- (3) LED Flashlight
- Operating temperature: 0° to 50°C
- 4-Operating modes:
  - Flashlight
  - UV Light
  - Laser light
  - UV/Laser light combo
- Includes:
  - Detachable key chain carabineer
  - (1) AAA Alkaline battery



Part #	Mfg #	Description
TOL03302	RLD2	Leak Detection Flashlight

## Leak Detectors

### AccuProbe™ Leak Detector



- Positively identifies lead source for all refrigerants
- Position probe for close-up or extended 18" detection
- Replaceable filters
- Sensor failure mode
- Automatic calibration
- Includes lead standard bottle of non-ozone depleting chemical
- 2-Year limited warranty (1-year on sensor)
- Sensor not poisoned by large amount of refrigerant



Part #	Mfg #	Description
TOL03680	69336	AccuProbe® UV Leak Detector

### AccuProbe™ II Leak Detector



- Sensitivity: 0.06 oz/yr HFCs R-134a, 0.03 oz/yr HCFCs R-22
- Sensor life: over 300 hours service life with minimal cleaning and no adjustments
- Probe length: 17"
- Warm up time: 20 seconds or less
- Power: (4) AA alkaline batteries, 6 hours continuous life



Part #	Mfg #	Description
TOL03226	69354	AccuProbe II Leak Detector

### Carbon Dioxide Gas Leak Detector

- Lightweight
- 1-Button operation
- (2) Sensitivity modes
- Blow-molded carrying case
- Visual and audible leak detection signal
- (4) AA Batteries provide 20 hours of operation
- Low battery indicator
- Automatic power-off



Part #	Mfg #	Description
TOL04040	69396	Carbon Dioxide Gas Leak Detector





# Electronic Leak Detectors

## Combustible Gas Leak Detector

- Detects all hydrocarbon and other combustible gases including propane, methane, butane, industrial solvents and more
- Ultra-sensitive sensor detects less than 15 ppm methane and better than 12 ppm for propane
- Automatic calibration and zeroing
- Long life sensor easily replaced after full service life
- Alarm with mute
- Illuminated bar graph
- 17" Probe for extended reach
- 1-Year warranty on sensor
- 2-Year limited warranty



Part #	Mfg #	Description
TOL02113	69373	Combustible Gas Detector with Case

## Leak Detector Parts and Accessories



69384



69385



Part #	Mfg #	Description
KIT09391	69383	Kit Sensor, Filters, Bottle for 69365
KIT09396	69384	Replacement Sensor and Filter for AccuProbe Leak Detectors
FLR06093	69385	Sensor Filters for AccuProbe Leak Detectors, 5/Pk
TOL03738	69386	Leak Sensor Bottle
CAS01329	69387	Carrying Case with Inserts for Hand-Held Leak Detectors
SEN01228	69371	Replacement Sensor for 69370
ADP01130	69380	A/C Adapter 110-115VAC/50-60Hz for AccuProbe, US Plug, UL Listed
BAT00035	69794	Lithium Battery for Micro LED UV Leak Detection Kit (Older Style Light with Black Casing), 2/Pk



# Electronic Instruments

## Psychrometers

### Digital Psychrometer

- Set systems at specific superheat or subcooling temperatures
- Use actual wet and dry bulb measurements and factory charts
- Display for °F or °C
- Data hold
- Auto power off
- Display relative humidity and temperature simultaneously



Part #	Mfg #	Temperature Range
TOL01397	69008	6-5/8"H x 1-7/8"W x 7/8"D Pocket Sized

### Sling Psychrometer

- Measures wet and dry bulb temperatures of surrounding air for immediate conversion of readings to relative humidity percentage
- Self-contained one-piece unit
- Calibrated and easy-to-read
- "Slide rule" scale is part of the case
- Accurate to 1% of "Hygrometric Tables"



Part #	Mfg #	Description
TOL01487	69010	Sling Psychrometer

## Superheat Calculation Kits

### Superheat Calculation Kit

- Easily take an internal temperature reading for calculating system superheat
- Reads from -58°F to 302°F (-50° to 150°C)
- °F/°C Switchable
- Remove and replace broken Schrader cores without opening system
- Chase damaged threads
- Use as vacuum valve to increase flow and reduce vacuum and charging time



Shown with Case



Part #	Mfg #	Temperature Range
KIT07684	69103	Superheat Kit less Accessory Kit
KIT07518	69104	Superheat Kit with Accessories

### Superheat Calculation Kit Accessory



- Accessories also available:
  - 18975 Improved vacuum/charge valve
  - 18978 Schrader rethreading accessory
  - 18979 Broken Schrader remover accessory
  - 18980 2-Pc Accessory Set
  - 18997 Grappler rod and nut assembly

Part #	Mfg #	Temperature Range
KIT07519	69106	Digital Thermometer -40°F to 230°F with Nut

### SuperHeat/SubCool Calculator with Thermometer and P/T Chart

- Pre-programmed with (24) popular refrigerants:
  - R-22 R-32 R-134A R-290 R-404A
  - R-407A R-407C R-407F R-408A R-409A
  - R-410A R-414B R-417A R-421A R-422A
  - R-422B R-422C R-422D R-427A R-434A
  - R-437A R-438A R-441A R-507A
- Faster, more accurate pipe temperature measurements
- Clamp-on K-type thermocouple
- Displays bubble, saturated and dew point temperatures
- Touch-button
- Hold function keeps data on the LCD even when thermocouple is disconnected
- Units of measure:
  - Temperature = F or C
  - Pressure = BAR, Mpa, kg/cm2 or psi
- Pressure Entry Range: 0 to 600 psi
- Battery type/life: 9V / 100 hours
- Auto-off timing: 1 hour
- Includes: instrument, clamp temperature probe with 3' cord, battery and instruction manual



Part #	Mfg #	Temperature Range
TOL03945	69196	SuperHeat/SubCool Calculator with Thermometer and P/T Chart

# Electronic Instruments

## Vacuum Gauges

### Digital Vacuum Gauge

- Displays 7 different units of vacuum (microns, milliTorr, Torr, millimeters of mercury, millibar, kiloPascal and Pascal)
- Cleanable, replaceable plug-in sensor automatically compensates for temperature with no calibration
- 12" Coiled sensor cord with 24" stretch
- 9V Alkaline battery



Part #	Mfg #	Temperature Range
GAG01064	69086	Hand-Held Vacuum Gauge, Fabric Carry Pouch Included

### Digital LCD Economy Vacuum Gauge

- Gauge tracks 14 increments from atmosphere to 25 microns
- 9V Alkaline battery



Part #	Mfg #	Temperature Range
GAG00951	69080	Vacuum Gauge with Battery, Hook & Pouch

### SuperEvac™ LCD Vacuum Gauge

- Thermocouple sensor technology combined with advanced IC electronics not found with thermistor sensors or analog meters
- Accurate readings from atmosphere to 1 micron
- Compact design with case for sensor, cable and brass connector
- "D" Cell battery for approximate 70 hour battery life



Part #	Mfg #	Description
GAG00941	69075	Atmosphere to 1 micron Full Range

### Deluxe LED Vacuum Gauge

- Response time: 3 seconds
- Calibration: automatic
- Warm up: 3 seconds
- Sensor cable: 9'
- Sensor connection: 1/4" Male flare with isolation valve
- Operating temperature range: -30° to 150°F (-34° to 65°C)
- Storage temperature range: -30° to 150°F (-34° to 65°C)
- Accuracy: +/- 15% of reading
- Power cord: 6'
- Dimensions: 4-1/4" x 5-1/2" x 1-1/2"
- Carrying case: 12-1/4" x 8" x 3-1/2" heavy-duty plastic



Part #	Mfg #	Temperature Range
TOL01461	69060	115V LED Vacuum Gauge Kit Complete with Case
GAG00931	69063	230V LED Vacuum Gauge Kit Complete with Case

### Vacuum Gauge Replacement Parts



69073



69087



Part #	Mfg #	Description
SEN02248	69101	Replacement Sensor and Cord Assembly
TOL03843	69058	Replacement Cord for 69075 Vacuum Gauge
SEN01769	69064	Sensor for 69060 and 69063
VAL07440	69067	Ball Valve for Sensor 69064, 1/8" NPT Fem x 1/4" M Flr
SEN01056	69073	Replacement Sensor for 69070, 69075
ADP01022	69071	Brass Connector 1/4" Fem Flr x 1/4" Fem Flr
SEN01393	69087	Replacement Sensor for 69086 and Refrigeration System Sensor
CAB01277	69088	Replacement Cable for 69086
CAS01331	69081	Replacement Soft-Sided Protective Case for 69080 and Refrigeration System Analyzer
FTG01161	69095	Tee Fitting for 69080

Refrigerant Handling

# Heating Instruments

## Fuel Oil Test Kit

- Determines pump efficiency, cut-off, suction, etc.
- Analyzes/troubleshoots burner efficiency
- Complete kit includes:
  - 2" Gauge
  - 30" 0-150 lb Scale
  - 12" Yellow Jacket hose with fittings
  - Heavy-duty plastic case



Part #	Mfg #	Description
TOL01425	78020	10A Complete Kit
HSE01555	78011	12" Hose, No Valve Opener

## Gas Pressure Testers

### Gas Pressure Test Kit

- Helps set manifold pressure for natural or LP gas
- Easier to use than a manometer
- Sensitive diaphragm gauge calibrated in inches of water column
- Tube nipple for easy connection to system manifold



Part #	Mfg #	Description
TOL01437	78055	Complete Kit, 0-10"wc Range
HSE01585	78062	Hose Tubing w/Nipple
FTG01140	78064	Brass Barb Fitting
HLD00309	78063	Carrying Case for 78055
NIP00267	78065	Rubber Nipple for Gauge

## Gas Test Gauges

### 2" Gas Test Gauge

- Brass threaded bell for leak tight connection



Part #	Mfg #	Pressure	End
GAG00947	78077	0-15 lb	3/4" Pipe
TOL02100	78080	0-30 lb	3/4" Pipe
TOL02850	78087	0-60 lb	3/4" Pipe
GAG00983	78090	0-100 lb	3/4" Pipe
TOL02849	78085	0-30 lb	1" Pipe
GAG01041	78095	0-100 lb	1" Pipe

### 3-1/2" Gas Test Gauge

- Brass threaded bell for leak tight connection



Part #	Mfg #	Pressure	End
GAG01152	78088	0-30 lb	1" Pipe
GAG01042	78089	0-100 lb	1" Pipe

## Refractometers

### Hand-Held Refractometer

- Accurately predict remaining mineral oil in the system down to 1%
- Refractive range: 1.435 to 1.520 at room temperature



Part #	Mfg #	Description
TOL01504	69000	Hand-Held Refractometer w/Case

## Manometers

### Digital Electronic Manometer

- Continuous display of the measured positive or negative pressure
- Measurements from -19.95" to +19.95" water gauge
- 0.05" WG Resolution
- Large LCD display
- Automatic power-off, long battery life
- Includes 18" tubing and fitting



Part #	Mfg #	Description
TOL02117	78050	Digital Electronic Manometer
TUB11122	78071	Tubing with Fitting

### Water-Type Manometer

- Helps set manifold pressure for natural or LP gas
- Economical plastic tube manometer
- Strong magnet on manometer holds it in convenient upright position
- Includes tubing with fitting



Part #	Mfg #	Description
TOL01541	78070	-2"-0-7-1/2" Scale
TOL01442	78075	-2"-0-15" Scale

# Heating Instruments

## Test Leads

### Test Lead Set

- Set of (2) leads
- 3' Length
- Clips with red or black insulators on each end
- 120-240VAC



Part #	Mfg #	Description
LED00372	69529	Large Annie T-14-3 & HI TL4, 20A
LED00354	69532	Small Annie HI TL-1 & Cord
LED00355	69531	3' Black And Red Test Lead Set, 10A with Medium Clip
LED00357	69528	6' Black And Red Test Lead Set, 10A with Medium Clips on One End, Female Plug on Other

## Test Leads & Clips

### MagJumper Magnetic Terminal Kit



Part #	Mfg #	Description
TOL04186	MAG-1	20" Wire with (2) Magnetic Tips

## Leak Test Gauge



- Gas gauge testers
- Ideal for pressure testing all new installation for leaks and passing inspection code
- Special sensitive diaphragm gauges for more accurate low pressure reading



Part #	Mfg #	Description
GAG00973	TG-30	3/4" FPT, 30 psi
GAG01090	TG-30-1	1" FTP, 30 psi



# HVACR System Tools

## Retaining Ring Pliers

### Retaining Ring Pliers - Combination Internal/External

- 6-Point broached jaw for accurate tip alignment
- Adjustable for hex tips
- High handle-to-jaw ratio
- Push-button convertibility for internal and external use
- Adjustable stop for efficient internal ring installation and prevention of external ring damage
- Spring return for easy control
- Includes pouch with (5) pairs of alloy steel replaceable tips and hex wrench



Part #	Mfg #	Description
TOL02867	60593	Small Pliers for 1/4" - 1" Internal & 1/8" - 1" External Rings

## Refrigerant Recovery Pliers

### Refrigerant Recovery Pliers Parts

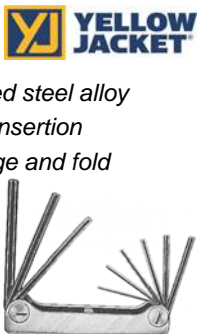


Part #	Mfg #	Description
KIT07729	60668	Replacement Needle & Gasket for 60667 Pliers

## Folding Hex Key Sets

### Fold-Up Hex Key Set

- Easily locate correct key size
- Each key is premium 8650 heat-treated steel alloy
- Chamfered square cut ends for easy insertion
- Keys snap-to-work position for leverage and fold into handle for compact storage
- Corrosion-resistant finish
- Smooth one-piece handle
- Sizes clearly marked
- Replacement keys available



Part #	Mfg #	Description
TOL01502	60700	Set of 8 Sizes: 1/20", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64" & 5/32"
TOL01503	60710	Set of 10 Sizes: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32" & 1/4"

## L-Style Hex Key Sets

- Long side for accessing hard-to-reach places
- Short side for higher torque situations and low clearances

### Hex Key Set

- 12-Piece set with case
- Premium 8650 heat-treated steel alloy construction
- Chamfered square cut ends for easy insertion
- Corrosion-resistant finish
- Patented organizer case with identifying slots that lock keys in place when not in use



Part #	Mfg #	Description
TOL01521	60670	Standard End
TOL01522	60685	Ball End

## Hex Key Adapter

- Fits Yellow Jacket® service wrenches
- Used on liquid and suction base valves on residential and commercial units up to 7-1/2 tons
- Works for 3/16" and 5/16" hex valves
- Heat-treated for toughness
- Black oxide plating



Part #	Mfg #	Description
TOL01410	60609	Hex Key Adapter

## Service Wrenches

### Straight Service Wrench

- Square openings 1/4" and 3/16" at one end; 3/8" and 5/16" at other end



Part #	Mfg #	Description
TOL01408	60613	Straight Service Wrench

# HVACR System Tools

## Service Wrench & Adapter

- Hex has 3/16" and 5/16" hex sizes



Part #	Mfg #	Description
TOL01517	60610	Service Wrench & Adapter

## System Tubing Tools

### Fan Blade Puller and More

- All-steel design
- 15/16" Hex head included
- Pulls off fan blades
- Removes pulleys and sheaves
- 5/8" Shaft milled back 1-1/2" and undersized for 1/2" shaft opening
- Removes squirrel cage type blower wheel
- Self-centering alignment tool included



Part #	Mfg #	Description
TOL01510	60590	Fan Blade Puller Complete
TOL01511	60591	(4) Replacement "Fingers"

### Deluxe 45° Flaring Tool

- Designed for R-410A flaring requirements
- Automatic tube height gauge
- Self-centering flaring yoke for more precise flares
- Multi-faceted burnishing cone
- Rugged one-piece construction



Part #	Mfg #	Description
TOL03215	60278	1/8" - 3/4" OD

## Ratchet Hand Bender Kit

- 1-Hand bending of soft copper, aluminum and light-wall hydraulic tubing from 3/8" - 7/8"
- Bending shoes change quickly
- Trouble-free ratchet mechanism
- Index marks ensure bending to length



Part #	Mfg #	Description
TOL01441	60331	Complete Kit

## Swaging and 45° Flaring Tool Kits with Case

- Flare and swages copper and similar materials
- Hardened, chrome-plated adapters are interchangeable to convert sizes and functions
- Slip-on self-centering steel yoke with feed screw and extra long handle
- Deeply knurled adapters for sure grip



Part #	Mfg #	Description
TOL01407	60440	3/16" to 3/4" OD

## Tubing Expander/Swager

- Precise swaging on the job
- Re-round deformed tubes and fittings
- Salvage shorts and scrap to make couplings
- Handles, tapered expanding pin and other moving surfaces heat treated for durability
- Use on 0.063" wall soft copper and aluminum to 1-5/8" OD
- Use on 0.047" wall soft steel to 7/8" OD



Part #	Mfg #	Description
TOL02058	60407	Kit Expands 5/16" to 1-5/8" OD

Refrigerant Handling

# HVACR System Tools

## Hydraulic Tube Expander Kit for Flaring/Swaging

- 1-Hand operation
- Eliminates fittings
- Hydraulic power
- Lightweight and portable



Part #	Mfg #	Head Sizes:
TOL03816	60493	3/8", 1/2", 5/8", 3/4", 7/8", 1-1/8", 1-3/8", 1-5/8" Tubing OD

## Vacuum/Charging Valves

### Compact Ball Valve for Full Flow

- Metal valve handle
- Add to hoses for charging and recovery
- Minimum burst: 4,000 psi
- Maximum working pressure: 800 psi
- UL Recognized assembly



93843

Part #	Mfg #	Description
VAL07476	93843	1/4" Compact Ball Valve 45°
VAL07517	93842	1/4" Compact Ball Valve 45°, 3/Pk

### Gas Retention Valve

- Controls refrigerant flow from access fitting
- Closes Schraeder before disconnecting
- 1/4" Female flare x 1/4" male flare



Part #	Mfg #	Description
VAL07202	18993	Control Valve and Core Tool

## 1/4" 4-In-1 Vacuum/Charge Ball Valve & Core Tool

- Core replacement
- Extra 1/4" side port to attach electronic micron vacuum gauge right at system for greater accuracy
- Core removal access to evacuate and charge through an unrestricted line for increased speed and higher vacuum
- Core removal allows recovery unit to work at maximum efficiency, speeding the recovery process



Part #	Mfg #	Description
TOL01391	18975	Vacuum/Charge Valve with Side Port
TOL02115	18971	Vacuum/Charge Valve less Side Port

## System Tools

### Tight Spot™ Flare Cut-Off Tool

- Designed for tight situations where only the flare must be removed
- Makes clean right angle cuts on 1/4", 5/16", and 3/8" OD copper tubing
- Interchangeable arbors for the (3) sizes included



Part #	Mfg #	Description
TOL01662	60122	Flare Cut-Off Tool w/Arbors

### Tube Deburring Tool



60163



60164



60165



60166

Part #	Mfg #	Description
TOL01462	60163	Tube Deburring Tool
TOL01434	60164	Replacement Blade for 60163
TOL03296	60165	Economy Deburr for 60139 Tube Cutter
TOL03297	60166	Economy Deburr for 60146 Tube Cutter



# HVACR System Tools

## Tube Reamer/Burr Remover

- Heavy-duty shell with steel blades



Part #	Mfg #	Description
TOL01433	60161	Tube Reamer - 1/6" Up To 1-3/8"

## Ratchet Hand Bender



Part #	Mfg #	Description
TOL04046	60326	1/4" OD Bending Mandrel
TOL04047	60327	5/16" OD Bending Mandrel
TOL04051	60332	3/8" OD Bending Mandrel
TOL04052	60333	1/2" OD Bending Mandrel
TOL04053	60334	5/8" OD Bending Mandrel
TOL01868	60335	3/4" OD Bending Mandrel
TOL02070	60336	7/8" OD Bending Mandrel

## Ratchet Hand Bender Part

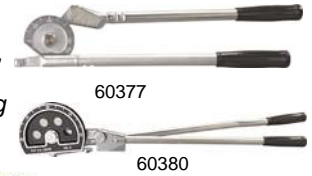


60342

Part #	Mfg #	Description
TOL04048	60328	#20 Lever Screw
TOL01470	60337	Crossbar Assembly
TOL04049	60329	Crossbar Assy - 3/4" to 7/8"
TOL04050	60330	Crossbar Assy - 1/4" to 5/8"
TOL04054	60338	Plastic Carrying Case
TOL01471	60339	Ratchet Body
ADP01018	60342	Reverse Bend Adapter
TOL04056	60344	Catch Pin & Spring
TOL04057	60345	Catch Lever
TOL04058	60346	Flat Spring
TOL04059	60347	Feed Lever
NUT01047	60348	Wing Nut & E-Clip
TOL04060	60349	Tension Spring
TOL04055	60340	Ratchet Bar

## Full Range Heavy-Duty Tube Bender for 1/4" - 7/8" Radius

- Fast bends on AC&R copper, brass, aluminum, steel, and soft stainless steel tubing
- Special hardened wearing surfaces



Part #	Mfg #	Tube Size	Bending Radius
TOL01888	60373	1/4" OD	9/16"
TOL01887	60375	3/8" OD	15/16"
TOL01514	60377	1/2" OD	1-1/2"
TOL01531	60378	5/8" OD	2-1/4"
TOL01478	60379	3/4" OD	3"
TOL01479	60380	7/8" OD	3"

## Full Range Heavy-Duty 3-In-1 Tube Bender



Part #	Mfg #	Tube Size	Bending Radius
TOL01515	60390	1/4", 5/16", 3/8" OD	15/16"

## Spring Tube Bender for 1/4" - 7/8"

- Specially designed Yellow Jacket® spring benders slip over soft copper and aluminum tubing during bending to help prevent tube collapse
- Silver-plated finish
- Works for soft copper and aluminum tubing



Part #	Mfg #	Tube Size
TOL02125	60354	1/4" OD
TOL02126	60355	5/16" OD
TOL02127	60356	3/8" OD
TOL02128	60357	7/16" OD
TOL02129	60358	1/2" OD
TOL02130	60359	5/8" OD
TOL01557	60360	3/4" OD
TOL01558	60361	7/8" OD
TOL01466	60352	4-Pc Set 1/4", 3/8", 1/2" & 5/8" OD
TOL01549	60353	4-Pc Set 1/2", 5/8", 3/4" & 7/8" OD
TOL01530	60351	6-Pc Set 1/4", 5/16", 3/8", 7/16", 1/2" & 5/8" OD

Refrigerant Handling



# HVACR System Tools

## Heavy-Duty 45° Flaring Tools

- Heavy-duty tool designed for tight places
- Hardened steel flaring bar to resist tube slippage
- Forged steel yoke slips over bar and locks with a turn
- Precision threaded feed screw and long handle



Part #	Mfg #	Description
TOL01406	60210	3/16" to 5/8" OD
TOL02119	60230	1/2", 5/8", 3/4" OD
TOL01475	60212	Flaring Bar 3/16" to 5/8" OD for 60210
TOL02036	60232	Flaring Bar 1/2" to 3/4" OD for 60230
TOL01476	60290	Large Flaring Tool for 3/4", 7/8", 1", 1-1/8" OD
TOL01477	60292	Flaring Bar 3/4" to 1-1/8" OD for 60290
TOL02452	60293	Flaring Yoke for 60290

## Universal 45° Flare/Burnish Tool

- Bar holds all inch and metric size tubing up to 5/8"
- Compact flare bar, easy to use in tight spaces
- Multi-faceted cone rolls out precise 4: flare and polishes simultaneously



Part #	Mfg #	Capacity
TOL01520	60275	For 3/16" to 5/8" OD

## Flare/Burnish Tool

- Multi-faceted cone rolls a precise flare and polishes it on brass, copper and aluminum



Part #	Mfg #	Description
TOL01519	60270	3/16" to 5/8" OD

## Eccentric Cone Flaring Tool

- Black oxide-finished steel flaring bars
- Recommended by some mini-split manufacturers for R-410A flare



Part #	Mfg #	Description
TOL02120	60295	3/16" to 3/4" OD

## 45° Flaring Kit - Full Range

- Includes:
  - Yoke
  - (2) Bars
  - Case
  - Instruction



Part #	Mfg #	Description
TOL01463	60240	3/16" to 3/4" OD

## 45° Flaring/Cutting Kit - Full Range

- Includes:
  - Yoke
  - (2) Bars
  - 60101 Cutter
  - Case
  - Instruction



Part #	Mfg #	Description
TOL01447	60260	3/16" to 3/4" OD

## Swaging and 45° Flaring Tool Kits with Case

- Flare and swages copper and similar materials
- Hardened, chrome-plated adapters are interchangeable to convert sizes and functions
- Slip-on self-centering steel yoke with feed screw and extra long handle
- Deeply knurled adapters for sure grip



Part #	Mfg #	Description
KIT08421	60453	1/2" to 3/4" OD
TOL01480	60455	3/4" to 1-1/8" OD

# HVACR System Tools

## Flaring Tool Accessories



Part #	Mfg #	Description
TOL02056	60443	Complete Yoke 60440/60453
ADP01100	60444	3/16" & 3/8" Adapter

## Tubing Expander/Swager

- Precise swaging on the job
- Re-round deformed tubes and fittings
- Salvage shorts and scrap to make couplings
- Handles, tapered expanding pin and other moving surfaces heat treated for durability
- Kit includes:
  - Handles
  - (6) Heads
  - Deburring tool
  - Carrying case
  - Instructions
- Use on 0.063" wall soft copper and aluminum to 1-5/8" OD
- Use on 0.047" wall soft steel to 7/8"OD



Part #	Mfg #	Description
TOL02091	60413*	5/16" Expander Head Only 0.039" Max Wall
TOL03730	60414	3/8" Expander Head Only 0.039" Max Wall
TOL03057	60417	3/4" Expander Head Only, 0.047" Max Wall
TOL02092	60422	1-3/8" Expander Head, Only 0.063" Max Wall
TOL02093	60424*	1-5/8" Expander Head, Only 0.063" Max Wall

\* Optional sizes sold separately

## Hydraulic Tube Expander Kit for Flaring/Swaging

- 1-Hand operation
- Eliminates fittings
- Hydraulic power
- Lightweight and portable
- Includes carrying case and instructions



Part #	Mfg #	Description
TOL04111	60497	Expander Kit, Heads for 3/8", 1/2", 5/8", 3/4", 7/8", 1-1/8" Tubing OD

## Punch-Type Swaging Tool



- Durable, heat-treated tool
- Expands one end of copper tubing for connecting same size tubes



Part #	Mfg #	Description
TOL02121	60463	3/16" OD Punch
TOL02122	60464	1/4" OD Punch
TOL02123	60465	5/16" OD Punch
TOL01481	60466	3/8" OD Punch
TOL01992	60467	1/2" OD Punch
TOL01993	60468	5/8" OD Punch
TOL01482	60469	3/4" OD Punch
TOL01483	60470	7/8" OD Punch
TOL01440	60460	(6) Size Multi-Swage 3/16" to 5/8"
TOL01516	60475	4-Pc Set in Pouch: 1/4", 3/8", 1/2" & 5/8"
TOL01445	60476	5-Pc Set in Pouch: 1/4", 5/16", 3/8", 1/2" & 5/8"
TOL02572	60461	Set with Clamping Bar, (6) Punches 3/16 - 5/8"

## Pinch-Off Tool



Part #	Mfg #	Description
TOL01419	60661	Plier-Type Pinch-Off Tool
TOL01474	60665	Pinch-Off & Reround Tool
TOL01565	60666	Vise Grip® RR Pinch-Off Tool

Refrigerant Handling

# HVACR System Tools

## Fin Straightener

- Straightens condenser and evaporator fins
- Cleans away lint, rust, dirt and other debris
- Adjustable tension
- Sturdy metal body



Part #	Mfg #	Description
TOL01421	61170	Large Handle Fin Straightener
TOL01420	61150	Fin Straightener

## Ergonomic FinFix™ Combs

- Improved shape conforms to hand and thumb for more comfortable grip
- Color-coded nylon fin combs
- Straightens and cleans fins on standard and high efficiency condensers and evaporators



### Individual FinFix™ Comb

Part #	Mfg #	Description	FPI
TOL01862	61151	FinFix™1/Orange	8 & 10
TOL01863	61152	FinFix™2/Yellow	9 & 15
TOL01864	61153	FinFix™3/Blue	11 & 13
TOL01865	61154	FinFix™4/Green	12 & 14
TOL01486	61155	FinFix™5/Lime	16 & 17
TOL01866	61156	FinFix™6/Red	18 & 20
TOL01867	61157	FinFix™7/Purple	21/22 & 23/24

### FinFix™ Combs in Bags of 6

- Set of (6) assorted colors

Part #	Mfg #	Description	FPI
TOL01446	61158	Set of 6 Assorted	8 - 20

### FinFix™ Combs in Bags of 25

Part #	Mfg #	Description	FPI
TOL03734	61161	FinFix™1/Orange	8 & 10
TOL03735	61162	FinFix™2/Yellow	9 & 15
TOL03736	61163	FinFix™3/Blue	11 & 13
TOL01496	61167	FinFix™7/Purple	21/22 & 23/24

## 6-In-1 Fin Straightener

- Straightener sizes are marked on head - 8, 9, 10, 12, 14 & 15 fins per inch



Part #	Mfg #	Description
TOL01525	61171	Compact 4" Length
TOL01526	61172	Heads for 61171
HDL00879	61173	Handle for 61171

## Mini-Split Tool Kit

- Meets manufacturers' specifications on mini-split installations and repairs
- R-410A Service tools
- Includes:



- Heat Pump Manifold
- 60" Plus II Hoses rated 4,000 psi minimum burst and 800 psi maximum working pressure
- Eccentric cone flare tool for 3/16" to 3/4" OD tubing
- Mini-split hex keys: 5/32", 3/16", 5mm, 6mm
- 45° R-410A Coupler 5/16" Fem QC x 1/4" M Flr for connecting the vacuum gauge to the valve core tool or for adapting other 5/16" fittings
- 5/16" Vacuum/charge valve with side port
- Adjustable metric torque wrench
- Tube cutter and deburring tool
- 16" Nylon tool bag with strap and over 25 pockets

### Mini-Split Tool Kit for R-22, R-407C, R-410A Heat Pump Manifold

- Includes 1/4" Plus II R/Y/B 60" length hose with 1/4" Flr fittings, and (Blue) 1/4" Fem Flr on manifold connection and 5/16" Fem Flr angled on service end

Part #	Mfg #	Description
TOL03912	60991	Tool Kit with Bag for R-22, R-407C, R-410A Heat Pump Manifold
HLD00543	60990	16" Nylon Tool Bag Only

## Tube Benders

### 3-in-1 180° Tubing Bender



Part #	Mfg #	Description
TOL02821	2002-6700	For 1/4", 5/16", and 3/8" OD Tubing

# HVACR System Tools

## System Tubing Tools

### HT278 9-Piece Flaring & Cutting Kit

- 1/8" to 1-1/8" Tube cutter
- 1/8" to 3/4" Flaring tool with (9) flaring sizes
- Refrigeration ratchet wrench
- (5) 3/16" to 3/4" Swaging heads
- For soft copper, brass and aluminum tubing



Part #	Mfg #	Description
TOL02773	2002-6500	9-Piece Flaring, Swaging and Cutting Kit

## Oil Pumps & Injectors

### Max-Flow™ Combination Oil Pump & Pumping Tube

- Removes oil for recovery and conversion
- Adds oil to existing systems
- Pumps oil into compressor on the down stroke while system is under pressure making pumping easier with a positive stroke
- Pumps against 200 psi pressure
- Universal stopper adjusts to all standard openings in 1, 2-1/2 and 5 gallon oil containers
- Use with alkyl-benzene, ester-based, polyolester, mineral and synthetic oil
- Includes suction transfer hose and fittings



Part #	Mfg #	Description
TOL01454	77940	2.6 oz per Stroke

### Max-Flow™ Deluxe Oil Pump

- Removes oil for recovery and conversion
- Adds oil to existing systems
- Fits all size containers
- Foot stand base provides support and leverage while pumping against high pressures of a running compressor
- Pumps against 250 psi pressure
- Operating unit in reverse with adapter hose accessory removes oil from equipment quickly and efficiently
- Use with alkyl-benzene, ester-based, polyolester, mineral and synthetic oil



Part #	Mfg #	Description
TOL01424	77930	3.8 oz per Stroke

## Oil Pump & Injector Parts

### Oil Pump Part



Part #	Mfg #	Description
FTG00900	77920	Adapter Fitting Straight 1/8" MNPT x 1/4" Flr for 77940
FTG00901	77921	Adapter Fitting 90° 1/8" MNPT x 1/4" Flr for 77940
HSE01362	77922	24" Suction Hose, 1/4" Fitting on One End for 77940
KIT07456	77931	O-Ring Kit for 77930
HSE01223	77938	1/2" x 24" Flex Suction Hose, Fitting on One End for 77930
HSE01552	77939	3/8" x 24" Flex Suction Hose, Fitting on One End for 77930
TOL01750	77941	Auto Stopper for Oil Container Openings for 77940 Pump
KIT07949	77942	O-Ring Kit for 77940

Refrigerant Handling



# HVACR System Tools

## Parts & Accessories

### Empty Parts Box

- Dimensions: 11" x 6-3/4" x 3/4"



Part #	Mfg #	Description
BOX02102	60177	(6) Compartments
BOX02103	60178	(12) Compartments
BOX02081	60135	(18) Compartments



# Refrigerant Line Components

## AC Accoflex® Tubing Insulation by Armacell

- Flexible rubber
- UV-Resistant



### Tubing Insulation - 3/8" Wall

Part #	Mfg #	Size ID	Length
INS02825	JUL-38	3/8"	600'
INS02848	7-3812	1/2"	480'
INS02819	JUL-58	5/8"	390'
INS02820	JUL-34	3/4"	330'
INS02821	JUL-78	7/8"	270'
INS02847	7-381-18	1-1/8"	210'
INS02849	7-381-38	1-3/8"	180'
INS02850	7-381-58	1-5/8"	120'
INS02822	7-382-18	2-1/8"	96'
INS02823	7-382-58	2-5/8"	72'
INS02824	7-383-18	3-1/8"	54'

### Tubing Insulation - 1/2" Wall



Part #	Mfg #	Size ID	Length
INS02834	7-1238	3/8"	450'
INS02827	7-1212	1/2"	396'
INS02835	7-1258	5/8"	300'
INS02833	7-1234	3/4"	240'
INS02836	7-1278	7/8"	210'
INS02851	7-121-18	1-1/8"	150'
INS02828	7-121-38	1-3/8"	120'
INS02829	7-121-58	1-5/8"	90'
INS02852	7-122-18	2-1/8"	60'
INS02831	7-122-58	2-5/8"	60'
INS02832	7-123-18	3-1/8"	42'

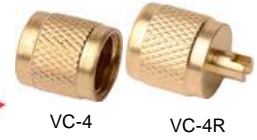
### Tubing Insulation - 3/4" Wall



Part #	Mfg #	Size ID	Length
INS02844	JUL-38	3/8"	240'
INS02838	JUL-12	1/2"	210'
INS02845	JUL-58	5/8"	144'
INS02843	JUL-34	3/4"	138'
INS02846	JUL-78	7/8"	120'
INS02837	7-341-18	1-1/8"	90'
INS02840	7-341-58	1-5/8"	60'
INS02841	7-342-18	2-1/8"	54'
INS02842	7-342-58	2-5/8"	48'

## Flare Cap

- R Suffix: includes core remover



Part #	Mfg #	Size	Qty
CAP01012	VC-4	1/4"	12/Pk
CAP00997	VC-4R	1/4"	12/Pk

## Cop Cap™ Locking Valve Cover



Part #	Mfg #	Description
TOL02066	VCC-4	Locking Valve Cap, 2/Pk

## Elbow (MPT)



Part #	Mfg #	Size
FTG01101	VE-2	1/8"

## Swivel Nut with Depressor

- Female flare forged



Part #	Mfg #	Size	Qty
FTG01102	VS-4	1/4"	6/Pk

## Swivel Tee less Depressor



VST-4X



VST-44X

Part #	Mfg #	Description
FTG01105	VST-4X	1/4" Access on Run x 1/4" Female Flare less Depressor 3/Pk
FTG01106	VST-44X	1/4" Access on Run x 1/4" Access on "T" less Depressor, 3/Pk

Refrigerant Handling



# Refrigerant Line Components

## Swivel Tee with Permanent Depressor



Part #	Mfg #	Description
FTG01103	VST-4	1/4" Access on Run x 1/4" Female Flare w/Depressor on Female Swivel Branch End, 3/Pk
FTG01104	VST-44	1/4" Access on Run x 1/4" Access on "T" - Female Swivel on Run, 3/Pk
FTG00948	VST-44B	1/4" Access on Run x 1/4" Access on "T" - Female Swivel on Run, 150/Pk

## Threaded Tee



Part #	Mfg #	Description
FTG01107	VT-4	1/4" Access All Ends, 2 Flare Nuts, 1 Core and Cap
FTG01108	VT-24	1/8" MPT x 1/4" Male Flare on Run x Access on Run, 3/Pk
FTG01109	VTR-24	1/8" MPT x 1/4" Male Flare on Run x Access on Branch, 3/Pk

## Solder Tee Type



Part #	Mfg #	Size	Qty
FTG00926	VTS-10	5/8" OD Tube	Each
FTG00927	VTS-12	3/4" OD Tube	Each
FTG00928	VTS-14	7/8" OD Tube	Each
FTG00929	VTS-18	1-1/8" OD Tube	Each
FTG01110	VTS-46	1/4" ODS x 5/16" ODF	3/Pk
FTG01111	VTS-56	5/16" ODS x 3/8" ODF	3/Pk
FTG01112	VTS-68	3/8" ODS	3/Pk
FTG01113	VTS-810	1/2" ODS	3/Pk

## Solder Tube Elbow



Part #	Mfg #	Size
FTG00934	VTS-3-10	5/8" ODS
FTG00935	VTS-3-12	3/4" ODS
FTG00936	VTS-3-14	7/8" ODS
FTG00937	VTS-3-18	1-1/8" ODS

## Full Union (Flare)

- Forged flare nut



Part #	Mfg #	Size	Qty
FTG01115	VUR-4	1/4"	6/Pk

## Valve Core



Part #	Mfg #	Description
COR00110	VVC-1	Replacement Valve Core, 6/Pk

## Brass Swivel Union (Flare)



Part #	Mfg #	Size
DUS4-4	DUS4-4	1/4"

## Access Fittings

### Brass Caps

- Knurled ridges
- Pack of (6) ea.
- Quick seal



Part #	Mfg #	Description
CAP00470	40572	1/4" Solid Brass

## Quick Seal™ Adapter

- Solid brass fitting
- Automatically shuts off charging hose

## Solder Union Type Tube Extension

- Feature 1/4" MFL access
- Furnished with valve cores
- 6/Pack



Part #	Mfg #	Description
UNN00041	40416	1/4" MFL x 1/8" OD Copper
UNN00045	40420	1/4" MFL x 3/8" OD Copper



# Refrigerant Line Components

## Tee Fitting

- 3/Pack



Part #	Mfg #	Description
TEE00201	40386	1/4" MFL Run x 1/4" FFL Run w/Depressor x 1/4" MFL Branch with Core, 3/Pk
TEE00200	40396	1/4" MFL Branch with Core x 1/4" FFL Swivel Run, 3/Pk
TEE00202	40398	1/4" MFL Run x 1/4" MFL Run with Core x 1/4" FFL Swivel Branch w/Depressor 3/Pk

## Valve Core



Part #	Mfg #	Description
VAL04458	13145	1/4" Brass Valve Core Remover/Installer with (6) Valve Cores
TOL02223	18561	Solid Brass Body Remover/Installer
VAL04454	40352	Valve Cores, 6/Pk

## Clamps

### Cushion Clamp



- Steel with electro-dichromate finish to resist corrosion
- Lock nut has a nylon insert for a positive lock
- Polymeric grommet withstands temperature from -25° to 125°C and resists the effects of most oils, chemicals and industrial cleaning compounds

Part #	Mfg #	Size
CMP01052	538-1/4	1/4"
CMP01053	538-3/8	3/8"
CMP01054	538-1/2	1/2"
CMP01056	538-3/4	3/4"
CMP01055	538-5/8	5/8"
CMP01057	538-7/8	7/8"
CMP01058	538-1-1/8	1-1/8"
CMP01059	538-1-3/8	1-3/8"
CMP01060	538-1-5/8	1-5/8"
CMP01061	538-2-1/8	2-1/8"
CMP01062	538-2-5/8	2-5/8"
CMP01063	538-3-1/8	3-1/8"
CMP01064	538-3-5/8	3-5/8"
CMP01065	538-4-1/8	4-1/8"

## Refrigerant Recovery

### Refrigerant Recovery Cylinder

- DOT Classified for recovery, recycling, service and reclaim
- Liquid and vapor valves installed, yellow/gray



Part #	Mfg #	Description
CYL00204	2033	30 lb Recovery Cylinder with 3/4" MPT Plug
CYL00206	2035	30 lb Recovery Cylinder with Float Switch
CYL00205	2053	50 lb Recovery Cylinder 3/4" MPT Plug
CYL00207	2055	50 lb Recovery Cylinder with Float Switch
CYL00208	2100	100 lb Recovery Cylinder
CYL00209	2255	250 lb Recovery Cylinder

### Insta-Charge

- Charges liquid refrigerant
- Connects directly to refrigerant can or cylinder valve
- Lightweight aluminum



Part #	Mfg #	Description
TOL02456	RC-1	Insta-Charge, Low Pressure Tip

### Insta-Tap Refrigerant Recovery Tool

- Evacuates refrigerant before disposal
- Fits 3/16" to 7/8" OD tubing



Part #	Mfg #	Description
TOL01983	QT-100	Quick-Tap 2 Tool, 1/4", 5/16" & 3/8" OD
TOL01984	QT-100N	Replaceable Hardened Steel Needle & Gasket for QT-100
GKT04220	QT-100G	Replacement Gasket Only, 3/Pk

Refrigerant Handling

# Refrigerant Line Components

## Piercing Valves

### Quick-Tap

- Valve core in the 1/4" male port
- Valve core can be removed or changed at any time without loss of refrigerant if needle is front seated



Part #	Mfg #	Tube Size	Qty
VAL07554	QT-1	1/4", 5/16", 3/8" OD	Each
VAL07555	QT-2	1/2", 5/8" OD	Each

### Quick-Tap-2

- Valve core in the 1/4" male port
- Valve core can be removed or changed at any time without loss of refrigerant if needle is front seated
- Nylon handle in lieu of hex wrench



Part #	Mfg #	Tube Size	Qty
VAL07557	QTH-2	1/2", 5/8" OD	Each

### Self-Tapping Water Tap Valve



Part #	Mfg #	Tube Size	Qty
VAL08246	QAV-2	3/8" to 1-1/8" OD	Each

### "MAC" Line Piercing Valve

- Uniport: (1) connection for piercing and servicing
- Needle automatically back seats after servicing



Part #	Mfg #	Tube Size	Qty
VAL07548	QTM-1	1/4", 5/16", 3/8" OD	Each
VAL07549	QTM-2	1/2", 5/8" OD	Each
TOL02811	QTM-3	3/16", 1/4" OD	Each
TOL02876	QTM-1B	1/4", 5/16", 3/8" OD	100/Cs
TOL02877	QTM-2B	1/2", 5/8" OD	100/Cs

## Core Removal Tool

- To remove and replace valve cores without losing the refrigerant charge
- Connects to any 1/4" male flare fitting



Part #	Mfg #	Description
TOL01830	VCRT-1	Core Removal Tool
ROD01148	VCRT-1R	Extractor Rod Assembly
RNG01784	VCRT-1RK	O-Ring Kit
TOL01831	VCRT-1S	Replacement Shut Off Stem

## Refrigerant Labels

- 3" x 4" Self-adhesive vinyl labels
- High-tack acrylic adhesive, UV-cured screen printing



04022

Part #	Mfg #	Description
LBL00237	4011	R-11 Warning Label, 10/Pk
LBL00238	4012	R-12 Warning Label, 10/Pk
LBL00235	4022	R-22 Warning Label, 10/Pk
LBL00251	4056	R-409A (FX56) Warning Label, 10/Pk
LBL00225	4123	R-123 Warning Label, 10/Pk
LBL00224	4134	R-134A Warning Label, 10/Pk
LBL00247	4401	R-401A (MP39) Warning Label, 10/Pk
LBL00248	4402	R-402A (HP80) Warning Label, 10/Pk
LBL00249	4404	R-404A (HP62/FX70) Warning Label, 10/Pk
LBL00264	4407	R-407C (SUVA 9000/KLEA 66) Warning Label, 10/Pk
LBL00240	4410	R-410A (AZ20) Warning Label, 10/Pk
LBL00250	4451	R-401B (MP66) Warning Label, 10/Pk
LBL00254	4500	R-500 Warning Label, 10/Pk
LBL00392	4507	R-507 (AZ50) Warning Label, 10/Pk
LBL00284	4700	Non Flammable Gas Label, 10/Pk, 4" x 4"
LBL00243	4850	Refrigerant Removed Label, 10/Pk, 3" x 4"
LBL00244	4852	System Refrigerant/Oil Label, 10/Pk, 3" x 4"
LBL00245	4870	Polyol Ester Oil Label, 10/Pk, 2" x 3"

# Refrigerant Recovery Machines

## Refrigerant Recovery Units

### Automatic Refrigerant Recovery System

- For medium and high pressure refrigerants including R-410A
- Automatic liquid to vapor switching
- Automatic safety shut-off
- Self-clearing
- Quick hook-ups
- Pressure gauges
- 115V, 60Hz Power source
- Ample heat exchange
- Includes (4) 60" hose with ball valves
- 1-Year warranty



**ROBINAIR**

Part #	Mfg #	Description
TOL02170	25200B	Automatic Refrigerant Recovery System

### High Performance Twin Cylinder Recovery Machine

- Oil-less compressor
- Oversized condenser and fan design
- Fast, efficient liquid and vapor recovery
- High pressure shut-off
- Completely field repairable
- Only 27 lbs



**ROBINAIR**

Part #	Mfg #	Description
TOL03287	RG6	Robinair® Recovery Machine

### Compact Lightweight Recovery Machine

- 40% Smaller footprint to comparative units
- Oil-less compressor
- Recovers both liquid and vapor
- High pressure shut-off
- Only 18 lbs



**ROBINAIR**

Part #	Mfg #	Description
TOL04543	RG3	The Cube™ Ultralight Refrigerant Recovery Machine

## Refrigerant Recovery Systems

### RecoverX Refrigerant Recovery System

- Recovers most CFC, HCFC, and HFC refrigerants
- Vapor, liquid, push/pull capabilities
- 1/2 hp Oil-less compressor
- Automatic shut-off at 15" of vacuum



Part #	Mfg #	Description
TOL02858	95760	RecoverXLT® R60A, 115V/60Hz, Built-In Constant Pressure Regulator

### RecoveryXLT™ Oil-Less Universal Refrigerant Recovery Machine

- Fast recovery of Class II, III, IV and V refrigerants including R-410A
- Patented single valve control for easy change over from liquid to vapor to purge
- Lightweight case designed for easy carrying
- Automatic shut-off at 15" of vacuum and automatic restart if pressure rises
- CPR Valve to regulate refrigerant input and protect the life of the compressor
- Auto purge clears residual refrigerant for quick change from one refrigerant to another
- Capabilities: Vapor, liquid, push/pull
- Compressor: 1/2 hp, oil-less
- Dimensions: 19.3" x 12.4" x 12.5"
- 3-Year warranty on compressor



Part #	Mfg #	Description
TOL02866	95762	RecoverXLT with Tank Overfill Switch 115V/60Hz
TOL03218	95763	RecoverXLT 230V/50Hz (Euro & UK Plug)

Refrigerant Handling

# Refrigerant Recovery Machines

## RecoverX Refrigerant Recovery System for Smaller Systems & Push/Pull Applications



- Maximum air flow and cool running even in high ambient temperatures
- High strength HDPE case for lightweight and rugged use
- Whisper-quiet 1/6 hp oil-filled reciprocating hermetic compressor charged with polyolester oil
- Oil drain port
- Controls and gauges inset for protection
- High pressure switch with automatic reset and external circuit breaker



Part #	Mfg #	Description
TOL02911	95700	115V/60Hz

## YJ-LTE™ Oil-Less Refrigerant Recovery System



- 1/2 hp
- For fast recovery of Class III, IV, and V refrigerants, including R-410A
- Direct drive fan
- 2-1/2" Liquid-filled condenser pressure gauge
- Single valve control panel
- Cup-style piston seals
- 1-Year warranty



Part #	Mfg #	Description
TOL04172	95730	115V YJ-LTE™ Refrigerant Recovery System

## Refrigerant Recovery System Parts & Accessories

### Refrigerant Recovery Cylinder

- Y-Valve for liquid/vapor



Part #	Mfg #	Description
TNK00867	95002	30 lb Cylinder, Yellow/Gray, 1/4" Flr less Float
CYL00198	95007	50 lb Cylinder, Yellow/Gray, 1/4" Flr less Float
CYL00199	95012	30 lb Cylinder, Yellow/Gray, 1/4" Flr with Float
CYL00200	95013	50 lb Cylinder, Yellow/Gray, 1/4" Flr with Float

## DCL Liquid Line Filter Drier



- High moisture capacity and acid absorption
- 80% Molecular sieve and 20% activated alumina

Part #	Mfg #	Inlet	Outlet	Connection
DHY01466	DCL052	1/4" Flr	1/4" Flr	SAE

\* Extended Connections

## RecoverX & RecoverXLT Machine Replacement Parts



Part #	Mfg #	Description
SEN01770	68028	120V 4-Sensor Expander Box
RLY03166	95187	Compressor Relay
KIT15644	95457	Filter Screen and O-Ring
SWT03527	95216	Rocker Switch
SEN01988	95248	Umbilical Cord Overfill Sensor
SWT03044	95325	High Pressure Switch
SWT03392	95338	Low Pressure Switch
GAG01274	95451	High Pressure Gauge
GAG01275	95452	Low Pressure Gauge
MFD01198	95453	Manifold Assembly
CPT01728	95190	Capacitor for 115V Machines

## Compressor Service Parts for Oil-Less Recovery Machines

- Use with R50A, R60A, R70A, R100, RecoverXLT



Part #	Mfg #	Description
KIT13725	95121	Compressor Kit for Oil-Less Refrigerant Recovery Machines R50A, R60A, R70A, R100, RecoverXLT

## RecoverX & RecoverXLT Sight Glass

- Indicates when all liquid has been recovered



Part #	Mfg #	Description
GLS00951	41145	1/4" Flr x 1/4" Fem Flr

## The Trap Separator

- Traps sealant, dye, and lubricant
- 1/4" Flare fittings
- Made in the USA



Part #	Mfg #	Description
FLR07121	38087	The Trap Separator
FLR07122	38081	Replacement Filter Pack for The Trap Separator

# Refrigerant Recovery

## Gauges

### SVG3 Easy View Digital Micron Vacuum Gauge

- Rugged mechanical design with rubberized case for field use
- Rate calculator indicates how fast system pressure is rising or falling
- Schrader depressor to minimize hose connections and potential leaks
- Range: 0 to 9,999 microns
- High resolution: 1 micron of mercury
- Bottom line displays rate (microns/minute) to determine system tightness
- Contaminated sensor test
- Bright backlight flashes and stopwatch starts when alarm is triggered
- Loud high and low settable alarms with stopwatch
- Fast response and high resolution
- Magnetic hanger hangs at easy-to-view angle



Part #	Mfg #	Description
GAG01299	SVG-3	Vacuum Gauge

## Refrigerant Recovery Units

### Allvac Universal High & Low Pressure Refrigerant Recovery Unit

- Combines capabilities of Evac Commercial and Lovac systems to offer great recovery rates on R-11, R-12, R-22, R-113, R-123, R-134a, R-404, R-500, R-502, R-410A and other high pressure refrigerants or blends
- Open-drive compressor provides years of reliable service, even on refrigerants heavily contaminated with oil, air, moisture, and acids
- Easy to switch between refrigerants
- Air/water cooled option incorporates a water cooled plate exchanger in line with the air cooled condenser. This model may operate with or without condensing water
- 3/4" Flare connections
- Low pressure switch: 15 or 29" Hg
- Electromechanical controls
- Includes:
  - (1) 48 cu in Drier core
  - (1) 50' Power cord for controls
  - (1) 12' Tank float cable
  - (1) 50' Power cord for unit
  - (2) 3/4" to 5/8" Fittings
  - (2) 5/8" to 1/2" Fittings
  - (2) 3/4" x 10' Recovery hose with ball valves
  - (1) 3/4" x 20' Recovery hose with ball valve
- ETL Certified to UL-1963 standards



Part #	Mfg #	Electrical	Motor HP	Amps	Condenser	Weight
TOL01835	ARH-A-230-3-E	240-3-60, 220-3-50	3 hp	15A	Air	340 lbs
TOL01836	ARH-A-240-1-E	240-1-60, 220-1-50	3 hp	20A	Air	340 lbs
TOL01837	ARH-A-460-3-E	460-3-60, 415-3-50	3 hp	15A	Air	340 lbs
TOL01839	ARH-A-D24-1-E	460-1-60, 240-1-50	3 hp	30A	Air	375 lbs
TOL01841	ARH-W-240-1-E	240-1-60, 220-1-50	3 hp	20A	Air/Water	345 lbs
TOL01840	ARH-W-230-3-E	240-3-60, 220-3-50	3 hp	15A	Air/Water	345 lbs
TOL01842	ARH-W-460-3-E	460-3-60, 415-3-50	3 hp	15A	Air/Water	345 lbs



# Refrigerant Recovery

## Cheetah Recovery Unit with Welch 10.6 CFM Vacuum Pump

- Compatible with R1233zd(E), R11, R113, R123, R114, R245fa
- Recovers R123 at 123 lbs/min liquid and .91 lbs/min vapor
- Recovers R1233zd(E) at 144 lbs/min liquid and 1.5 lb/min vapor
- Upright cart mount with large tires for easy portability
- Easy to switch from liquid to vapor recovery
- 3/4" Male flare connections or optional quick connects
- Automatic low pressure and high pressure safety cutoff
- Built-in hose evacuation setting
- 10.6 CFM Heavy-duty vacuum pump
- Pulls greater than 29" Hg vacuum
- Standard 3/4" garden hose connection
- Dimensions: 44" x 22" x 26"
- Includes:
  - (2) 41 cu in Filter driers
  - (1) 12' Tank float cable
  - (1) 25' Power cord
  - (2) 3/4" x 10' Recovery hose with ball valves
  - (1) 3/4" x 15' Recovery hose with ball valve
- ETL Certified to UL-1963 standards
- Rated in accordance with ARI Standard 740-1998



Part #	Mfg #	Electrical	Motor HP	Amps	Condenser	Weight
TOL04379	CLP-115-E	103-50-1, 127-60-1	2 hp	20A	Water	228 lbs
TOL04380	CLP-240-E	220-50-1, 240-60-1	2 hp	20A	Water	228 lbs

## Cheetah Refrigerant Recovery Unit Mounted with ASME Tank

Part #	Mfg #	Capacity	Electrical	Amps	Condenser	Weight
TOL04381	CLP-115-A-120	120 gal	115-1-60, 110-1-50	15A	Water	1,785 lbs
TOL04382	CLP-240-A-120	120 gal	230-1-60, 220-1-50	15A	Water	1,785 lbs
TOL04383	CLP-115-A-250	250 gal	115-1-60, 110-1-50	15A	Water	2,050 lbs
TOL04384	CLP-240-A-250	250 gal	230-1-60, 220-1-50	15A	Water	2,050 lbs
TOL04385	CLP-115-A-500	500 gal	115-1-60, 110-1-50	15A	Water	2,275 lbs
TOL04386	CLP-240-A-500	500 gal	230-1-60, 220-1-50	15A	Water	2,275 lbs
TOL04387	CLP-115-A-850	850 gal	115-1-60, 110-1-50	15A	Water	2,300 lbs
TOL04388	CLP-240-A-850	850 gal	230-1-60, 220-1-50	15A	Water	2,300 lbs
TOL04389	CLP-115-A-1000	1000 gal	115-1-60, 110-1-50	15A	Water	2,475 lbs
TOL04390	CLP-240-A-1000	1000 gal	230-1-60, 220-1-50	15A	Water	2,475 lbs



# Refrigerant Recovery

## Diablo Residential & Light Commercial Refrigerant Recovery Unit

- Compatible with all high-pressure refrigerants, including R-410A
- Increases recovery rates up to 30%
- 1-1/8" Piston allows for movement of greater volumes of refrigerant, and increases durability and longevity
- Simple operation
- Injection mold design with internal channels increases airflow across the compressor head and motor
- ETL Certified to UL-1963 standards
- Rated in accordance with ARI Standard 740-1998
- Made in the USA



Part #	Mfg #	Electrical	Motor HP	Amps
TOL03083	DIABLO 115V	115-1-60, 110-1-50	0.75 hp	15A
TOL03084	DIABLO 240V	230-1-60, 220-1-50	0.50 hp	15A

## Evac Commercial Recovery Unit

- Services R-12, R-22, R-134a, R-502, R-410A and other high-pressure refrigerants
- Recovers R-22 at 325 lbs/min liquid and 6 lbs/min vapor
- Open drive compressor provides years of reliable service, even on refrigerants heavily contaminated with oil, air, moisture, and acids
- Easy to purge lines and switch from liquid to vapor recovery modes
- 3/4" Flare connections
- Low pressure switch: 15" Hg
- 3-Pin BH float connection
- Electromechanical controls
- Equipped with in-line oil separator
- Includes:
  - (1) 48 cu in Drier core
  - (1) 50' Power cord for controls
  - (1) 12' Tank float cable
  - (1) 50' Power cord for unit
  - (2) 3/4" to 5/8" Fittings
  - (2) 5/8" to 1/2" Fittings
  - (2) 3/4" x 10' Recovery hose with ball valves
  - (1) 3/4" x 20' Recovery hose with ball valve
- ETL Certified to UL-1963 standards
- Rated in accordance with ARI Standard 740-1998



Part #	Mfg #	Electrical	Motor HP	Amps	Condenser	Weight
TOL01161	CRH-A-240-1-E	240-1-60, 220-1-50	3 hp	30A	Air	275 lbs
TOL01165	CRH-A-D24-1-E	230-1-60	5 hp	30A	Air	285 lbs
TOL01167	CRH-A-575-3-E	575-3-60	5 hp	15A	Air	275 lbs
TOL01169	CRH-W-230-3-E	240-3-60, 220-3-50	3 hp	20A	Air/Water	275 lbs
TOL01171	CRH-W-240-1-E	240-1-60, 220-1-50	3 hp	30A	Air/Water	275 lbs
TOL01173	CRH-W-460-3-E	480-3-60, 360-3-50	3 hp	15A	Air/Water	275 lbs
TOL01177	CRH-W-D24-1-E	230-1-60	5 hp	30A	Air/Water	285 lbs
TOL01175	CRH-W-575-3-E	575-3-60	5 hp	15A	Air/Water	275 lbs

# Refrigerant Recovery

## Evac Commercial Recovery Unit (R-410A)

- Recovers R-410A at 195 lbs/min liquid and 3.95 lbs/min vapor
- Open drive compressor provides years of reliable service, even on refrigerants heavily contaminated with oil, air, moisture, and acids
- Easy to purge lines and switch from liquid to vapor recovery modes
- 3/4" Flare connections
- Low pressure switch: 15" Hg
- 3-Pin BH float connection
- Electromechanical controls
- Equipped with in-line oil separator
- Includes:
  - (1) 48 cu in Drier core
  - (1) 50' Power cord for controls
  - (1) 12' Tank float cable
  - (1) 50' Power cord for unit
  - (2) 3/4" to 5/8" Fittings
  - (2) 5/8" to 1/2" Fittings
  - (2) 3/4" x 10' Recovery hose with ball valves
  - (1) 3/4" x 20' Recovery hose with ball valve
- ETL Certified to UL-1963 standards
- Rated in accordance with ARI Standard 740-1998



Part #	Mfg #	Electrical	Motor HP	Amps	Condenser	Weight
TOL03465	CRH-A-230-3-E-R410A	240-3-60, 220-3-50	3 hp	20A	Air	275 lbs
TOL03466	CRH-A-240-1-E-R410A	240-1-60, 220-1-50	3 hp	30A	Air	275 lbs
TOL03467	CRH-A-460-3-E-R410A	480-3-60, 360-3-50	3 hp	15A	Air	275 lbs
TOL03469	CRH-A-D24-1-E-R410A	230/460-1-60/50	5 hp	30A	Air	285 lbs
TOL03468	CRH-A-575-3-E-R410A	575-3-60	5 hp	15A	Air	275 lbs
TOL03470	CRH-W-230-3-E-R410A	240-3-60, 220-3-50	3 hp	20A	Air/Water	275 lbs
TOL03471	CRH-W-240-1-E-R410A	240-1-60, 220-1-50	3 hp	30A	Air/Water	275 lbs
TOL03472	CRH-W-460-3-E-R410A	480-3-60, 360-3-50	3 hp	15A	Air/Water	275 lbs
TOL03474	CRH-W-D24-1-E-R410A	230/460-1-60/50	5 hp	30A	Air/Water	285 lbs
TOL03473	CRH-W-575-3-E-R410A	575-3-60	5 hp	15A	Air/Water	275 lbs





# Refrigerant Recovery

## Evac Commercial Recovery Unit (MO29)

- Services MO29 refrigerant
- Recovers at 325 lbs/min liquid and 6 lbs/min vapor
- Open drive compressor provides years of reliable service, even on refrigerants heavily contaminated with oil, air, moisture, and acids
- Easy to purge lines and switch from liquid to vapor recovery modes
- 3/4" Flare connections
- Low pressure switch: 15" Hg
- 3-Pin BH float connection
- Electromechanical controls
- Equipped with in-line oil separator
- Includes:
  - (1) 48 cu in Drier core
  - (1) 50' Power cord for controls
  - (1) 12' Tank float cable
  - (1) 50' Power cord for unit
  - (2) 3/4" to 5/8" Fittings
  - (2) 5/8" to 1/2" Fittings
  - (2) 3/4" x 10' Recovery hose with ball valves
  - (1) 3/4" x 20' Recovery hose with ball valve
- ETL Certified to UL-1963 standards
- Rated in accordance with ARI Standard 740-1998



Part #	Mfg #	Electrical	Motor HP	Amps	Condenser	Weight
TOL01159	CRH-A-230-3-E	240-3-60, 220-3-50	3 hp	20A	Air	275 lbs
TOL01163	CRH-A-460-3-E	480-3-60, 360-3-50	3 hp	15A	Air	275 lbs
TOL01933	CRH-W-240-1-E-29	240-1-60, 220-1-50	3 hp	30A	Air/Water	275 lbs
TOL01935	CRH-W-575-1-E-29	575-1-60	5 hp	15A	Air/Water	275 lbs

## HandiVac Oil-Less Recovery Unit

- Services R-12, R-22, R-134a, R-500, R-502, R-410A, R-409, MP39 and other high-pressure refrigerants and blends
- Dual 0.75 hp oil-less compressors double recovery rates for servicing commercial cooling units
- Unique compressor head design with discharge ball valve prevents damage due to heavy liquid flow
- Oil-free compressors eliminate maintenance hassles
- Easily switch between refrigerants
- Automatic low pressure shut off: 15" Hg
- Float cable connection has a built in bypass switch for convenience
- Includes:
  - (1) 5 cu in Filter drier
  - (1) 6', 3-Pin float cable (FVC-006)
  - (2) 3/8" to 1/4" Hose adapters
  - (1) Power cord adapter (overseas only)



Part #	Mfg #	Electrical	Motor HP	Amps	Condenser	Weight
TOL01144	RTO-500-115-F	115-1-60, 110-1-50	0.5 hp	15A	-	63 lbs
TOL01145	RTO-500-240-F	230-1-60, 220-1-50	0.5 hp	10A	-	63 lbs



# Refrigerant Recovery

## Lite Evac Portable High-Speed Refrigerant Recovery Unit

- Fast and portable unit for high pressure refrigerants
- Mounted in a solid lightweight aluminum frame with heavy-duty casters for mobility
- 80% Tank full float switch and 12' cable
- Liquid and vapor ports: 1/2" threaded connection
- For use with medium/large tonnage chillers
- 1/2" Flare connections
- Low pressure switch: 15" Hg
- Float connection: 3-pin BH
- R-410A Rated
- Heavy-duty lift handles
- ETL Certified to UL-1963 standards
- Rated in accordance with ARI Standard 740-1998



Part #	Mfg #	Electrical	Motor HP	Amps	Condenser	Weight
TOL03460	LRH-115-E	115-1-60, 110-1-50	-	20A	Air	161 lbs
TOL03461	LRH-240-E	230-1-60, 220-1-50	-	20A	Air	161 lbs

## Lite Evac Cart Mount Portable High-Speed Refrigerant Recovery Unit

- Fast and portable unit for high pressure refrigerants
- Mounted in a solid lightweight aluminum frame with heavy-duty casters for mobility
- 80% Tank full float switch and 12' cable
- Liquid and vapor ports: 1/2" threaded connection
- For use with large tonnage chillers
- 1/2" Flare connections
- Low pressure switch: 15" Hg
- Float connection: 3-pin BH
- R-410A Rated
- Heavy duty lift handles
- Dimensions: 38" x 23" x 24"
- Includes:
  - (2) 30cu.in. Filter driers
  - 80% Tank float cable (12')
  - 50' Power cord
- Certified by ETL to UL-1963 standards
- Rated in accordance with ARI Standard 740-1998



Part #	Mfg #	Electrical	Motor HP	Amps	Condenser	Weight
TOL04580	LRH-HT-A-115-E	115-1-60, 110-1-50	2 hp	20A	Air	-
TOL04581	LRH-HT-A-240-E	230-1-60, 220-1-50	2 hp	20A	Air	-

## Lite Evac Recovery Unit Accessories

Part#	Mfg#	Description
HSE01909	050-010-LRH	Hose Kit Including (2) 10' and (1) 20' Hose, 1/2" Diameter
KIT17795	LRH-WCK	External Water Cooled Condensing Kit with Hose



# Refrigerant Recovery

## Lovac Low Pressure Chiller Recovery Unit

- Fast recovery for large tonnage R-11 and R-123 chillers
- 2.0 hp Open drive compressor tolerates non-condensable better than a vacuum pump
- Easy to purge lines and switch from liquid to vapor recovery modes
- 3/4" Flare connections with isolation ball valves
- Electromechanical controls
- Includes:
  - (1) 48 cu in Replaceable drier core
  - (1) 12' 3-Pin float cable
  - (1) 50' Power cord for unit
  - (2) 3/4 to 5/8" Fittings
  - (2) 5/8" to 1/2" Fittings
  - (2) 3/4" x 10' Recovery hose with ball valves
  - (1) 3/4" x 20' Recovery hose with ball valve
- ETL Certified to UL-1963 standards
- Rated in accordance with ARI Standard 740-1998



Part #	Mfg #	Electrical	Motor HP	Amps	Condenser	Weight
TOL02067	CRL-115-E	115-60-1, 110-50-1	2 hp	20A	Water	160 lbs
TOL02068	CRL-240-E	230-60-1, 220-50-1	2 hp	15A	Water	160 lbs

## MityVac Light Commercial Recovery Unit

- Services R-12, R-22, R-500, R-502, R-134a, MP39, R-409A, R-507 and other high pressure refrigerants and blends
- 2.0 hp Open drive compressor, 1/2" lines, 2-point vapor extraction, and oversized air-cooled condenser allow fast recovery of charges from chillers of 400-tons and larger
- Easy to purge lines and switch from liquid to vapor recovery modes
- Low pressure shut-off: 15" Hg vacuum
- High pressure shut-off: 450 psi
- Requires (4) hose (sold separately)
- Includes:
  - (2) 30 cu in Filter driers
  - (1) 12', 3-Pin float cable (FVC-012)
  - (2) 1/2" Flare swivels
  - (1) Power cord adapter (overseas only)
- ETL Certified to UL-1963 standards
- Rated in accordance with ARI Standard 740-1998



Part #	Mfg #	Electrical	Motor HP	Amps	Weight
TOL01152	MRH-115-E	115-1-60, 110-1-50	2 hp	20A	145 lbs
TOL01154	MRH-240-E	230-1-60, 220-1-50	2 hp	15A	145 lbs



# Refrigerant Recovery

## Refrigerant Recovery & Storage Systems

### Evac/ASME Refrigerant Recovery & Storage System

- Recovers R22 at 325 lbs/minute push/pull, 6.0 lbs/minute vapor
- Hard piped and permanently mounted on ASME tank with casters for mobility
- Dual 250-psi pressure relief valves on diverting valve
- 80% Tank full float switch and 12' cable
- Bottom drain connection
- Liquid and vapor ports: 1/2" threaded connections with isolation ball valves
- For use with large tonnage chillers
- Capable of storing up to 6,448 lbs of R134a at 80% capacity
- 3/4" Flare connections
- Low pressure switch: 29" Hg
- Float connection: 3-pin BH
- 3 hp Motor
- Includes:
  - (1) 48 cu in Filter core
  - (2) 10' x 3/4" Diameter hose
  - (1) 100' Power cord for controls
  - (1) 50' Power cord for unit
  - (1) 12' Tank float cable
  - (2) 3/4" to 5/8" Reducing fittings
  - (2) 5/8" to 1/2" Reducing fittings
- ETL Certified
- Rated in accordance with ARI Standard 740-1998



Refrigerant Handling

Part #	Mfg #	Capacity	Electrical	Amps	Condenser	Weight
TOL03496	CRH-A-240-1-500	500 gal	230-1-60, 220-1-50	15A	Air	2,050 lbs
TOL03497	CRH-A-230-3-500	500 gal	230-3-60, 220-3-50	20A	Air	2,050 lbs
TOL03498	CRH-A-460-3-500	500 gal	460-3-60, 415-3-50	15A	Air	2,050 lbs
TOL03499	CRH-W-240-1-500	500 gal	230-1-60, 220-1-50	15A	Air/Water	2,075 lbs
TOL03500	CRH-W-230-3-500	500 gal	230-3-60, 220-3-50	20A	Air/Water	2,075 lbs
TOL03501	CRH-W-460-3-500	500 gal	460-3-60, 415-3-50	15A	Air/Water	2,050 lbs
TOL03502	CRH-A-240-1-850	850 gal	230-1-60, 220-1-50	15A	Air	2,275 lbs
TOL03503	CRH-A-230-3-850	850 gal	230-3-60, 220-3-50	20A	Air	2,275 lbs
TOL03504	CRH-A-460-3-850	850 gal	460-3-60, 415-3-50	15A	Air	2,275 lbs
TOL03505	CRH-W-240-1-850	850 gal	230-1-60, 220-1-50	15A	Air/Water	2,300 lbs
TOL03506	CRH-W-230-3-850	850 gal	230-3-60, 220-3-50	20A	Air/Water	2,300 lbs
TOL03507	CRH-W-460-3-850	850 gal	460-3-60, 415-3-50	15A	Air/Water	2,300 lbs



# Refrigerant Recovery

## Lite Evac Refrigerant Recovery & Storage Unit

- Pump-out and storage for R12, R22, R500, R502, R134a, MP39, R409a, R507, and other high pressure refrigerants and blends
- Hard piped and permanently mounted on ASME tank with casters for mobility
- Dual 250 psi pressure relief valves on diverting valve
- 80% Tank full float switch and 6' cable
- Bottom drain connection
- Liquid and vapor ports: 1/2" threaded connections with isolation ball valves
- Pressure gauge
- Sight glass tube
- 2 hp Motor
- Includes:
  - (1) 6' 3-Pin float cable
  - (2) 40 cu in Filter cores
  - (1) 50' 12 Gauge power cord
  - (2) 1/2" x 20' Hose
  - (1) 1/2" x 10' Hose
- Rated in accordance with ARI Standard 740-1998



Part #	Mfg #	Capacity	Electrical	Amps	Condenser	Weight
TOL04673	LRH-115-A-120	120 gal	115-1-60, 110-1-50	15A	Air	700 lbs
TOL04682	LRH-W-115-120	120 gal	115-1-60, 110-1-50	15A	Water	700 lbs
TOL04674	LRH-240-A-120	120 gal	230-1-60, 220-1-50	15A	Air	700 lbs
TOL04683	LRH-W-240-120	120 gal	230-1-60, 220-1-50	15A	Water	700 lbs
TOL03969	LRH-380-A-120	120 gal	380/415-3-50	15A	Air	700 lbs
TOL04675	LRH-W-380-120	120 gal	315/380-3-50/60	15A	Water	700 lbs
TOL04676	LRH-115-A-250	250 gal	115-1-60, 110-1-50	15A	Air	850 lbs
TOL04684	LRH-W-115-250	250 gal	115-1-60, 110-1-50	15A	Water	850 lbs
TOL04677	LRH-240-A-250	250 gal	230-1-60, 220-1-50	15A	Air	850 lbs
TOL04685	LRH-W-240-250	250 gal	230-1-60, 220-1-50	15A	Water	850 lbs
TOL04678	LRH-380-A-250	250 gal	315/380-3-50/60	15A	Air	850 lbs
TOL04686	LRH-W-380-250	250 gal	315/380-3-50/60	15A	Water	850 lbs
TOL04679	LRH-115-A-500	500 gal	115-1-60, 110-1-50	15A	Air	1,400 lbs
TOL04687	LRH-W-115-500	500 gal	115-1-60, 110-1-50	15A	Water	1,400 lbs
TOL04680	LRH-240-A-500	500 gal	230-1-60, 220-1-50	15A	Air	1,400 lbs
TOL04688	LRH-W-240-500	500 gal	230-1-60, 220-1-50	15A	Water	1,400 lbs
TOL04681	LRH-380-A-500	500 gal	315/380-3-50/60	15A	Air	1,400 lbs
TOL04689	LRH-W-380-500	500 gal	315/380-3-50/60	15A	Water	1,400 lbs

# Refrigerant Recovery

## Lovac/ASME Refrigerant Recovery & Storage System

- High-speed, high-efficiency recovery and storage of all low pressure refrigerants
- Hard piped and permanently mounted on ASME tank with casters for mobility
- Dual 250 psi pressure relief valves on diverting valve
- 80% Tank full float switch and 12' cable
- Bottom drain connection
- Liquid and vapor ports: 3/4" threaded connection with isolation ball valves
- For use with large tonnage chillers
- Capable of storing up to 7,868 lbs of R-11 at 80% capacity
- Low pressure switch: 29" Hg
- Float connection: 3-pin BH
- 2 hp Motor
- Certified by ETL to UL-1963 standards



Part #	Mfg #	Capacity	Electrical	Amps	Condenser	Weight
TOL03098	CRL-115-A-250	250 gal	127-60-1, 103-50-1	20A	Water	2,050 lbs
TOL03099	CRL-240-A-250	250 gal	240-60-1, 220-50-1	15A	Water	2,275 lbs
TOL03100	CRL-115-A-500	500 gal	127-60-1, 103-50-1	20A	Water	2,275 lbs
TOL03101	CRL-240-A-500	500 gal	240-60-1, 220-50-1	15A	Water	2,275 lbs
TOL03484	CRL-115-A-850	850 gal	127-60-1, 103-50-1	20A	Water	2,875 lbs
TOL03486	CRL-240-A-850	850 gal	240-60-1, 220-50-1	15A	Water	2,875 lbs
TOL03485	CRL-115-A-1000	1,000 gal	240-60-1, 220-50-1	15A	Water	3,585 lbs
TOL03487	CRL-240-A-1000	1,000 gal	240-60-1, 220-50-1	15A	Water	3,585 lbs

## Mityvac/ASME Refrigerant Recovery Unit & Storage System

- Pump-out and storage for R-12, R-22, R-500, R-502, R-134a, MP39, R-409A, R507 and other high pressure refrigerants and blends
- Hard piped and permanently mounted on ASME tank with casters for mobility
- Dual 250 psi pressure relief valves on diverting valve
- 80% Tank full float switch and 6' 3-pin cable
- Bottom drain connection
- Liquid and vapor ports: 1/2" threaded connections with isolation ball valves
- Pressure gauge
- Sight glass tube
- 2 hp Motor
- Includes:
  - (2) 38 cu in Filter cores
  - (1) 100' 12 Gauge power cord
  - (2) 1/2" x 20' Recovery hose
- Rated in accordance with ARI Standard 740-1998



Part #	Mfg #	Capacity	Electrical	Amps	Condenser	Weight
TOL01792	MRH-115-A-250	250 gal	115-1-60, 110-1-50	15A	Air	850 lbs
TOL01793	MRH-240-A-250	250 gal	230-1-60, 220-1-50	15A	Air	850 lbs
TOL01794	MRH-115-A-500	500 gal	115-1-60, 110-1-50	15A	Air	1,400 lbs
TOL01795	MRH-240-A-500	500 gal	230-1-60, 220-1-50	15A	Air	1,400 lbs

# Refrigerant Recovery

## Refrigerant Recovery & Storage Tanks

### ASME High Capacity Refrigerant Storage Tank

- Accepts compete high or low pressure refrigerant charges from large chillers
- Mounted on casters
- Includes:
  - High pressure (-HP) tanks: Dual 250 psi relief valves on diverting valve
  - Low pressure (-LP) tanks: 250 psi rupture disc and 250-psi relief (meets ASME section VIII div 1 and ANSI specifications)
  - Pressure gauge
  - (3) Sight glass windows
  - 80% Tank full float switch
  - Bottom drain connection
  - Liquid and vapor ports: threaded connections with isolation ball valves are supplied standard
- Ball valves may be substituted with quick connect fittings on LP tanks only
- 3/4" Connections accommodate Lovac, Allvac, or Evac Commercial recovery units



Part #	Mfg #	Capacity	Ports Size	Connections	Pressure	Dimensions H x W x L
TNK00837	ASME-120-075-HP	120 gal	3/4" Flare	Ball Valves	High	39" x 85-1/2" x 30"
TNK00838	ASME-120-075-LP	120 gal	3/4" Flare	Ball Valves	Low	39" x 85-1/2" x 30"
TNK00839	ASME-120-075-LP-QC	120 gal	3/4" Flare	Quick Connects	Low	39" x 85-1/2" x 30"
TNK00842	ASME-250-075-HP	250 gal	3/4" Flare	Ball Valves	High	42" x 92" x 30"
TNK00843	ASME-250-075-LP	250 gal	3/4" Flare	Ball Valves	Low	42" x 92" x 30"
TNK00844	ASME-250-075-LP-QC	250 gal	3/4" Flare	Quick Connects	Low	42" x 94" x 30"
TNK00906	ASME-500-075-HP	500 gal	3/4" Flare	Ball Valves	High	49" x 113" x 37"
TNK00907	ASME-500-075-LP	500 gal	3/4" Flare	Ball Valves	Low	49" x 113" x 37"
TNK00908	ASME-500-075-LP-QC	500 gal	3/4" Flare	Quick Connects	Low	49" x 113" x 37"
TNK00909	ASME-850-075-HP	850 gal	3/4" Flare	Ball Valves	High	49" x 166" x 41"
TNK00910	ASME-850-075-LP	850 gal	3/4" Flare	Ball Valves	Low	49" x 166" x 41"
TNK00911	ASME-850-075-LP-QC	850 gal	3/4" Flare	Quick Connects	Low	49" x 192" x 52"



# Refrigerant Recovery

## DOT Refrigerant Recovery Tank

- Tanks service R-11, R-12, R-22, R-113, R-114, R-123, R-134a, and additional high pressure refrigerants and blends
- Fitted with full 3/4" service valves and copper dip tubes to eliminate restrictions and allow faster refrigerant transfer
- For R-410A, use only 30 and 50 lb tanks
- Quick connects are available for tanks servicing low pressure refrigerants



Part #	Mfg #	Description	Port Size	Dry Weight	Dimensions OD x H	Working Pressure
CYL00182	CYL-250	250 lb w/Ball Valves	3/4"	86 lbs	16" x 44"	260 psi
CYL00183	CYL-250-LS	250 lb w/Liquid Switch	3/4"	86 lbs	16" x 44"	260 psi
CYL00184	CYL-250-QC	250 lb w/Quick Connects	3/4"	86 lbs	16" x 44"	260 psi
CYL00185	CYL-250-LS-QC	250 lb w/Quick Connects & Liquid Switch	3/4"	86 lbs	16" x 44"	260 psi
CYL00218	CYL-0250-410A	250 lb w/Ball Valves R-410A Compatible	3/4"	86 lbs	15" x 49"	400 psi
CYL00219	CYL-0250-LS-410A	250 lb w/Ball Valves & Liquid Switch, R-410A	3/4"	87 lbs	15" x 49"	400 psi
CYL00178	CYL-1000	1,000 lb 3/4" Flare w/Ball Valves	3/4"	360 lbs	30" x 58"	260 psi
CYL00179	CYL-1000-LS	1,000 lb w/Ball Valves & Liquid Switch	3/4"	360 lbs	30" x 58"	260 psi
CYL00180	CYL-1000-QC	1,000 lb w/Quick Connects	3/4"	360 lbs	30" x 58"	260 psi
CYL00181	CYL-1000-LS-QC	1,000 lb w/Quick Connects & Liquid Switch	3/4"	360 lbs	30" x 58"	260 psi
CYL00220	CYL-1000-410A	1,000 lb w/Ball Valves R-410A Compatible	3/4"	358 lbs	30" x 58"	400 psi
CYL00221	CYL-1000-LS-410A	1,999 lb w/Ball Valves & Liquid Switch, R-410A	3/4"	86 lbs	15" x 49"	400 psi

## Pumps

### Commercial/Industrial Grade Refrigerant Liquid Pump

- Used to transfer all class I, II, III and IV refrigerants at up to 20 gpm
- 3/4" Male flare connection with quick-connects as an option
- Dimensions: 12"H x 14.5"W x 9"D
- Includes power cord



Part #	Mfg #	Electrical	Motor hp	Amps	Weight
TOL03356	RLP-115	110/115V, 50/60Hz	1.5 hp	15A	55 lbs
TOL03357	RLP-240	220/230V, 50/60Hz	1.5 hp	15A	55 lbs





# Refrigerant Recovery

## Chiller Pressurizers

### Hyperwatt Water Heating Chiller Pressurizer

- 30kW Capacity
- Microprocessor displays step-by-step operating instructions
- When desired chiller pressure level is reached, the pump shuts down
- Automatically re-energizes to maintain stable pressure
- Microprocessor monitors chiller pressure and prevents over-pressurization
- Thermal sensors prevent heating element overload and burnout
- Sensor halts operations should water flow cease
- Portable model easily managed by one man and maneuvered around tight mechanical rooms
- Permanent mount unit is hard piped to a chiller
- Maintains the chiller at slightly positive pressure during seasonal shutdown
- Power: controls and water pump 115-1-60, 110-1-50
- Dimensions: 51" x 22" x 20"
- Includes:
  - 50' Power cord for controls
  - 50' Power cord for recovery unit
  - 20' x 1/4" Refrigerant hose
  - (2) 15' Water hose
  - (2) 3/4" Water swivel fittings



Part #	Mfg #	Electrical	Amps	Mounting	Weight
TOL01243	HPS-C-D24-3	230/460-3-60, 220/415-3-50	20/40A	Service Cart	125 lbs
TOL01245	HPS-P-D24-3	230/460-3-60, 220/415-3-50	20/40A	Permanent Mount	125 lbs
TOL01242	HPS-C-575-3	575-3-50, 575-3-60	20/40A	Service Cart	125 lbs
TOL01244	HPS-P-575-3	575-3-50, 575-3-60	20/40A	Permanent Mount	125 lbs

## Chiller Purge Units

### Minipurge Portable Chiller Air-Purge Unit

#### High-Speed Air Removal from Low or High Pressure Refrigerants

- Temporarily connects to chillers and storage tanks charged with high or low pressure refrigerants and rapidly eliminates non-condensable
- For supplementing thermal purge units during seasonal start ups on R-11 or R-123 chillers
- 1-Year parts warranty



Part #	Mfg #	Electrical	Motor hp	Amps	Weight
TOL01227	MPS-115	115-1-60, 110-1-50	0.5 hp	15A	65 lbs
TOL01228	MPS-240	230-1-60, 220-1-50	0.5 hp	15A	65 lbs



# Refrigerant Recovery

## Oil Recovery & Recharge Systems

- Removes old oil from the refrigerant and replace it with new oil to the chiller compressor
- Increases chiller efficiency without down time
- Self-limiting heater bands for faster distillation
- 1/2" Hoses for increased speed of recovery
- Efficient oil separation minimizes refrigerant loss
- Includes:
  - (2) 10' 1/2" High-pressure refrigerant hoses
  - (1) 10' 3/8" High-pressure refrigerant hose
  - (2) Heater bands
  - (1) 1/2" Sight glass
- 1-Year parts warranty



Part #	Mfg #	Electrical	Amps
TOL01271	POD-115	115-1-50/60	15A
TOL01272	POD-240	240-1-50/60	20A

## Heater Blankets

### Wrap-Around Heater for Refrigerant Cylinder

- Use to heat 30 lb, 50 lb and 125 lb refrigerant cylinders
- Fits cylinders for most recovery units
- Thermostat controlled



Part #	Mfg #	Description
HTR03378	68848	115V Wrap-Around Cylinder Heater
TOL03219	68849	230V Wrap-Around Cylinder Heater





# Scanner & Dye Solutions

## Refrigerant Scanner and Dye Solutions

### Oil & Fluid Dye Solution

- Detects water leakage in any enclosed circulatory system or static system that can be pressurized or agitated
- Glows blue at leak sources in large close-loop water systems
- Made in the USA



Part #	Mfg #	Description
CHM00650	69735	8 oz Oil & Fluid Dye Solution

### Universal A/C Dye Solution

- Field proven and sold worldwide
- Passed thermal stability tests
- One dye for AC/R systems
- Raw material QC assures dye uniformity



Part #	Mfg #	Description
CHM00809	69708	0.5 oz Universal A/C, 12/Pk
CHM00810	69709	1 oz Universal A/C, 12/Pk
CHM00811	69710	2 oz Universal A/C, 12/Pk
CHM00461	69712	8 oz Universal A/C
CHM00812	69713	8 oz Universal A/C, 12/Pk

### Fluorescent Scanner Solution

- Operating temperature is 40°F for all solutions and -100°F for alkylbenzene systems



### Self-Infusing Injector Tube for Mineral Oil System

Part #	Mfg #	Solution Concentration	System Size
CHM00805	69610	01 (.03 oz)	Up to 2.9 lbs
CHM00798	69611	1 (.5 oz)	Up to 4.9 lbs
CHM00797	69612	2 (.5 oz)	Up to 9.9 lbs
CHM00799	69613	3 (.5 oz)*	Up to 25 lbs

\* Use on all split systems

### Self-Infusing Injector Tube for Ester Oil System

Part #	Mfg #	Solution Concentration	System Size
CHM00806	69620	01 (.03 oz)	Up to 2.9 lbs
CHM00807	69621	1 (.5 oz)	Up to 4.9 lbs
CHM00808	69622	2 (.5 oz)	Up to 9.9 lbs
CHM00748	69623	3 (.5 oz)*	Up to 25 lbs

\* Use on all split systems

### Self-Infusing Injector Tube for Alkylbenzene System

Part #	Mfg #	Solution Concentration	System Size
CHM00800	69600	01 (.03 oz)	Up to 2.9 lbs
CHM00802	69601	1 (.5 oz)	Up to 4.9 lbs
CHM00803	69602	2 (.5 oz)	Up to 9.9 lbs
CHM00804	69603	3 (.5 oz)*	Up to 25 lbs

\* Use on all split systems

### Bottle for Mineral Oil System



Part #	Mfg #	Solution Concentration	System Size
CHM00467	69451	1 (0.5 oz)	Up to 4.9 lbs
CHM00282	69453	3 (.5 oz)*	Up to 25 lbs

\* Use on all split systems

### Scan-Off Solution Cleaner

- Water-based biodegradable spray
- Cleans scanner solution from system exterior



Part #	Mfg #	Size
CHM00656	69696	8 oz

## Degreasers

### Natural Degreaser

- Heavy-duty biodegradable degreaser removes scanner solution from system



Part #	Mfg #	Description
CHM00186	69698	19 oz Natural Degreaser #01020

# Service Tools & Meters

## Charging Scales

### Atlas Refrigerant Charging Scale

- Weight capacity: 220 lbs
- Solid state load cell, accurate to 0.25 oz
- All metal construction
- Heavy-duty plastic storage case
- Hand-held remote, auto shut-off after 30 minutes
- Large LCD screen that can be read from a distance and in direct sunlight
- Displays weight in decimal pounds, pounds and ounces, and kilograms
- Indoor/outdoor usage, not waterproof
- Operating temperature: 32° to 122°F
- Operates with 9V battery (included)
- 24-Month warranty



Part #	Mfg #	Description
DS-20000	DS-20000	Refrigerant Charging Scale

## Refrigerant Scales

### Slimline Refrigerant Scale

- (3) Display modes: lbs/oz, decimal lbs, kilograms
- Slim 2.5" thick design
- Can be used with all refrigerants
- 9 VDC Power supply
- Removable control box with prop stand/hanging hook
- 6' Coil cord
- CE Approved



Part #	Mfg #	Description
TOL01952	TIF9010A	110 lb Capacity

## Charging Scales

### CS100 Charging Scale

- Auto zero
- Tethered display with flip-up stand
- Adjustable leveling feet with built-in level indicator
- Handles cylinders up to 330 lbs



Part #	Mfg #	Description
TOL02770	2010-0000	CS100 Charging Scale

## Charging Scales

### Digital Electronic Charging Scale

- Calibration standards traceable to NIST
- Removable control module on retractable 5' coiled cord
- Mechanical overload protection and "OL" alert on LCD
- Industrial grade circuitry for long life performance
- Minus reading shows weight removed from the platform
- Single point load cell strain gauge for long term stability and accuracy
- Mesh filter in charging module protects solenoid valve
- Low flow triggers automatic hold to extend solenoid life
- Schrader valve prevents backflow through solenoid



### 110 lb Digital Electronic Charging Scale

- Platform size: 9" x 9"
- Case size: 15.5" x 12.25"
- Accuracy: +/- 0.5 oz or 0.1% of reading

Part #	Mfg #	Description
TOL01548	68802	110 lb Electronic Scale
TOL01744	68803	110 lb Programmable Scale
CAS01500	68809	110 lb/50KG Scale Case

### 220 lb Digital Electronic Charging Scale

- Platform size: 11.3" x 11.3"
- Case size: 18" x 13"
- Accuracy: +/- 1.0 oz or 0.1% of reading

Part #	Mfg #	Description
TOL02018	68812	220 lb Electronic Scale
TOL02019	68813	220 lb Programmable Scale

### 220 lb Digital Economy Electronic Charging Scale

- Platform size: 10.5" x 10.5"
- Accuracy: 0.5% of reading +/- 1 LSD



Part #	Mfg #	Description
TOL03966	68860	220 lb Electronic Scale

Refrigerant Handling

# Service Tools & Meters

## Charging Scale Accessories

### Charging Scale Upgrade Kit

- Upgrades standard 68802 or 68800 charging scales with programmable charging capability



Part #	Mfg #	Description
KIT08083	68804	115V Charging Scale Upgrade Kit

### Charging Scale Adapter

- Compatible with 68802 or 68800 charging scales



Part #	Mfg #	Description
ADP01126	68806	115V Charging Scale Adapter

## 2-Valve Manifold Sets

### R-12, R-22, R-134A Scale with Red/Blue Gauges

- Gauge pressure: 0 - 250 psi and 0 - 800 psi
- Hose maximum working pressure: 800 psi
- Hose burst pressure: 2,500 psi



Part #	Mfg #	Description
MFD01160	2002-4000	Manifold with 60" R/Y/B Hose with 1/4" Flare Fittings

### R-410A Scale with Red/Blue Gauges

- Gauge pressure: 0 - 500 psi and 0 - 800 psi
- Hose maximum working pressure: 800 psi
- Hose burst pressure: 4,000 psi



Part #	Mfg #	Description
MFD01161	2002-4300	Manifold with 60" R/Y/B Hose with 1/4" Flare Fittings

## 4-Valve Manifolds

### R-410A Scale with Red/Blue Gauges



Part #	Mfg #	Description
MFD01162	2002-4350	Manifold with 3/8" Vacuum Port and Aluminum Block

### R-12, R-22, R-134A Scale with Red/Blue Gauges



Part #	Mfg #	Description
MFD01163	2002-4375	Manifold with 3/8" Vacuum Port and Aluminum Block

## Ball Valve Hose Sets

### 1/4" Hose with 1/4" Flare Fittings for R-134A Systems



- Maximum working pressure: 800 psi
- Burst pressure: 4,000 psi

Part #	Mfg #	Color	Length
HSE01527	2002-4600	R/Y/B	60"

### 1/4" Hose with Ball Valve End for Scales R-12, R-22, & R-134A



- Maximum working pressure: 500 psi
- Burst pressure: 2,500 psi

Part #	Mfg #	Color	Length
HSE01529	2002-0003	R/Y/B	6"

### 1/4" Hose with Ball Valve End for Scale R-410A



- Maximum working pressure: 800 psi
- Burst pressure: 4,000 psi

Part #	Mfg #	Color	Length
HSE01530	2002-0040	R/Y/B	6"

## A/C Ratchet Wrenches

- (4) Clearly marked square openings: 1/4" and 3/16" on one end, 3/8" and 5/16" on the other



Part #	Mfg #	Description
TOL00178	10696	Reversible Wrench

## System Tubing Tools

### Six-in-One Swaging Tool



Part #	Mfg #	Description
TOL00187	12479	For 3/16", 1/4", 3/8", 5/8"

# Tools & Accessories

## Tube Cutters

### Professional Mini-Tube Cutter

- Requires only 1-3/8" swing radius
- Smooth feed mechanism
- Not designed for cutting stainless steel or hard tempered tubing



Part #	Mfg #	Cuts:
TOL03181	88977	1/8" - 5/8" OD Tubing

### Professional Tube Cutter

- Accurate (4) roller tracking system -no spiraling
- Professional reaming tool
- Extra cutting wheel included
- Replacement cutting wheel available (88905)



Part #	Mfg #	Cuts:
TOL03455	88904	1/8" - 1-3/8" Steel & Copper
TOL03535	88905	Replacement Wheel for 88904

### Tube Cutter Replacement Wheels and Screw



Part #	Mfg #	Description
TOL03536	88976	Replacement Wheels and Screw for Tube Cutter
TOL03855	88978	Replacement Wheels and Screw for Mini Tube Cutter

## Tube Cutters

### Tubing Cutter



Part #	Mfg #	Description
TOL02817	2002-0780	Tubing Cutter for 1/8" - 7/8" OD Tubing
TOL02774	2002-1818	Tubing Cutter for 1/8" - 1-1/8" OD Tubing, Aluminum Alloy Body with Chrome Plated Finish, Includes Spare Cutting Wheel

### Inner/Outer Reamer

Part #	Mfg #	Description
TOL02822	2002-6900	Inner/Outer Reamer for 1/8" to 1-5/8" OD Tubing

## Flaring & Cutting Kit



- Includes:
  - 1/8" - 1-1/8" OD Tubing cutter
  - 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", and 5/8" Flaring tool
  - Hard carrying case

Part #	Mfg #	Description
TOL03320	2002-6400	Flaring and Cutting Kit

## Tube Cutters

### Heavy-Duty Mini-Cutter



- Wide body for easy grip
- Large rollers and flare cut-off groove
- Small-Mini has turning radius of only 1-3/16"
- Big-Mini cuts from 1/4" - 1/8" OD and still compact



Part #	Mfg #	Description	Capacity
TOL01403	60160	Small-Mini	1/8" - 5/8" OD
TOL01400	60121	Mini-Cutter	1/8" - 7/8" OD
TOL01401	60142	Big-Mini	1/4" - 1-1/8" OD

## Premium Tube Cutter

- Enclosed precision feed mechanism
- Resists jams
- Wide rollers with flare cut-off groove
- Wheel recessed into cutter body saving 1" in cutting radius
- High quality alloy steel construction makes a sharper cutting wheel edge for less burr
- Spare wheel attached
- Corrosion-resistant finish
- Retractable reamer



Part #	Mfg #	Description	Capacity
TOL01402	60101	Small	1/8" to 1-1/8" OD
TOL01444	60102	Large	1/4" to 1-5/8" OD

Refrigerant Handling

# Tools & Accessories

## Tools

### ROTRAC PLUS Copper Tube Cutter

- Rolling stop to protect cutter wheel
- Protected screw spindle to shield against dirt and jamming
- Lightweight cast aluminum body
- Deburrer swivels up and spare cutter wheel is stored in handle
- Compatible with Yellow Jacket 60120 cutting wheels



Part #	Mfg #	Description
RT70020	RT70020	Copper Tube 1/8" to 1-1/8" OD
RT70021	RT70021	Copper Tube 1/4" to 1-5/8" OD

### Mini Tube Cutter

- Use for cutter copper tubes
- Large knurled knob for fatigue-free pressure control
- (2) Guide rollers with recess assist with cutting close to flares
- Compatible with JB Industries RT70017 and Yellow Jacket 60120 cutting wheels



Part #	Mfg #	Description
RT70105	RT70105	Copper MINICUT 1/8" to 7/8" OD
RT70015	RT70015	Copper MINI MAX 1/8" to 1-1/8" OD

### Replacement Cutter Wheel

- Compatible with mini and professional tube cutters
- 2/Pack



Part #	Mfg #	Description
RT70007B	RT70007B	Replacement Cutter Wheel for ROTRAC PLUS
RT70017B	RT70017B	Replacement Cutter Wheel

## Oil Transfer Pump

- Designed to pump oil into system while unit is operating without shutting down for charging
- Designed to fit all 1, 2-1/2, and 5 gallon containers
- Works against 200 psi of pressure
- Compatible with all oil types including synthetic, mineral, and polyol ester



Part #	Mfg #	Description
PMP02141	T30251	Pumps 2.6 oz per Stroke

## Braze-Rite Adapter

- Nitrogen purging adapter for ACR pipe
- Quickly connects to manifold gauge hose, slips easily and securely into pipe
- Allows for bleed of nitrogen through pipe being brazed, keeping the pipes clean and oxide-free
- Stepped to fit most common ACR pipe sizes
- Made in USA



Part #	Mfg #	Description
TOL04062	BRZ1000	Nitrogen Braze Adapter

## Tube Cutters

### Capillary Tubing Cutter

- Cuts without flattening or constricting tubing



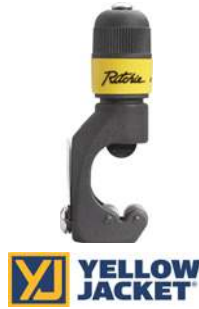
Part #	Mfg #	Description
TOL01807	60195	Capillary Cutter



# Tools & Accessories

## Constrictor/Cutter

- Modification with a special blunt wheel to roll down the tube OD so it can be mated to a smaller tube, i.e. capillary tube



Part #	Mfg #	Description	OD Capacity
TOL01432	60103	Constrictor/Cutter	1/4" to 1-1/8"

## Large Tube Cutter

- Improved spring-loaded instant slide action feed with heat-treated components
- New stronger "I-beam" design
- Aluminum alloy construction for strength and light weight
- Wider body with longer rollers holds tubing better
- Flare cut-off groove
- Contoured handle for better grip
- Handle holds spare cutter wheel
- Separate debur tool slides into cutter body



Part #	Mfg #	Description	OD Capacity
TOL01404	60139	Large	3/8" to 2-5/8"
TOL01452	60146	Large	2" to 5-1/8"

## Pipe Cutter for Black Iron

- Cast iron body holds heat-treated steel cutter wheel
- Fine pitch threads assure easy cuts on black pipe
- Large rollers for clean right angle cuts



Part #	Mfg #	Description
TOL03687	60131	6 lb Pipe Cutter for 1/8" - 2" Pipe

## PVC and Polyethylene Pipe Cutter

- Easy ratchet action
- Unique hooked tube-gripping jaws for clean cut
- Heat-treated, steel alloy blade for long life
- Easily replaceable and completely field-replaceable cutter blade



Part #	Mfg #	Capacity
TOL02614	60191	Through 1-1/4"

## Tube Cutter Parts & Accessories

### Cutter Wheel



60124



Part #	Mfg #	Description
WHL02231	60107	Cutter Wheel for Copper for 60101, 60102, 60103, 10/Pk
TOL03688	60132	Cutter Wheel for 60131
TOL03428	60073	Cutter Wheel for New Style 60121, 10/Pk
TOL03429	60088	Cutter Wheel for 60122 & 60160, 10/Pk
TOL03430	60089	Cutter Wheel for Imperial (75015) 174-F, 274-F, 312-FB, 374-FC, TC1000, TC1020, TC2050, 10/Pk
WHL02212	60098	Cutter Wheel for Stainless 60101, 60102, 60103
WHL02172	60100	Cutter Wheel for Copper 60101, 60102, 60103, 60160
WHL02211	60106	Constrictor Wheels for 60101, 60102, 60103
WHL02178	60110	Cutter Wheel for 60122 & 60160
WHL02179	60111	Cutter Wheel for Imperial (75015) 174-F, 274-F, 312-FB, 374-FC, TC1000, TC1020, TC2050
WHL02210	60112	Cutter Wheel for Stainless Imperial (75046) 174-F, 274-F, 312-FB, 374-FC, TC1000, TC1020, TC2050
WHL02180	60113	Cutter Wheel for Imperial (74761) 206-FA
WHL02225	60115	Cutter Wheel for 60123 & 60139, 10/Pk
WHL02226	60116	Cutter Wheel for 60121 & 60142 (Old Model with Ritchie Imprint), 20/Pk
WHL02165	60120	Cutter Wheel for 60121 & 60142 (Old Model with Ritchie Imprint)
WHL02173	60124	Cutter Wheel for 60123 & 60139
WHL02227	60147	Cutter Wheel for 60146

Refrigerant Handling

# Tools & Accessories

## Tube Cutter Maintenance Kit

- Includes:
  - 60179 - (1) Kit box with label
  - 60100 - (3) Cutter wheels
  - 60079 - (3) New style pin and clips for wheel
  - 60078 - (3) New style reamer and spacers
  - 60106 - (3) Constrictor wheels
  - 60077 - (3) New style reamer screws
  - 60098 - (3) Cutter wheels for stainless
  - 60108 - (3) Screws
  - 60120 - (6) Cutter Wheels
  - 60125 - (6) Screws for cutter wheel
  - 60144 - (3) Cutter pin and clips for wheels
  - 60124 - (3) Cutter wheels
  - 60136 - (3) Cutter wheel screws and retainers
  - 60110 - (3) Cutter wheel (32633)
  - 60083 - (3) Cutter wheel screws (26883)
  - 60111 - (3) Cutter wheel for copper (75015)
  - 60112 - (3) Cutter wheel for stainless (75046)
  - 60082 - (3) Cutter wheel screws (26883)
  - 60113 - (3) Cutter wheels (74761)
  - 60083 - (3) Cutter wheel screws and nuts (77511)



## Tube Cutter Screws



Part #	Mfg #	Description
SCR02157	60075	Cutter Wheel Screw for 60121 5/Pk
SCR01885	60081	Screw for 60122 & 60160
SCR01886	60082	Screw for Imperial 74762, 174-F, 274-F, 312-FB, 374-FC, TC1000, TC1020, TC2050
SCR02158	60085	Screw for 127-FB, 227-FA, TC1050, 60122 & 60160
SCR02160	60087	Screws & Nuts (77511) for 206-FA, 10/Pk
SCR02159	60086	Screw for 174-F, 274-F, 312-FB, 374-FC, TC1000, TC1020 & TC2050, 10/Pk (74762)
SCR01926	60108	Screw for Knob for 60101, 60102, 60103
SCR01930	60125	Cutter Wheel Screw for 60121, 60123, 5/Pk
TOL03167	60136	Screw /Retainer for 60139
TOL03552	60149	Cutter Wheel Screws for 60146, 5/Pk

Part #	Mfg #	Description
KIT07559	60130	Service Counter Parts Cutter Parts Kit

## Tube Cutter Parts



Part #	Mfg #	Description
TOL01513	60078	Reamer for 60101, 60102, 60103
KIT07477	60093	(1) Each Wheel, Pin & Clip for 60101, 60102, 60103
SCR01927	60077	Reamer Screw & Washer for 60101, 60102, 60103
KIT07560	60170	Tube Cutter Parts Kit

## Tube Cutter Pin & Clip



Part #	Mfg #	Description
CLP00949	60079	Wheel Pin & Clip for 60101, 60102, 60103
CLP00950	60144	Cutter Blade Pin & Clip for 60142



# Vacuum Pump Systems

## Vacuum Pumps



- 110V/60Hz; 1/4 hp (QV2); 1/2 hp (QV5)
- 2-Stage vacuum design
- Check valve prevents pump-oil from entering the evacuated system after the pump stops
- Built-in filter eliminates oil mist, and an oil-gas separator removes oil contamination from the exhaust
- Aluminum alloy motor casing
- Motor and pump are integrated to make the unit compact
- Large starting torque designed for low temperature and low voltage operation, the pump will start in temperatures >40°F (>5°C), at its rating input voltage of 110VAC +/-10%
- Oil circulation design

Part #	Mfg #	Description
PMP01742	2002-0001	QV2, 1.7 CFM
PMP01743	2002-0005	QV5, 5.3 CFM

## Vacuum Pumps

### Cool-Tech™ Technology Vacuum Pump **ROBINAIR**

- 2-Stage, 115V 60Hz operation
- Gas ballast
- ISO Valve
- 15 Micron rating



Part #	Mfg #	CFM	Hp	Weight
PMP00662	15400	4	1/2 hp	27 lbs
PMP00661	15600	6	1/2 hp	27 lbs
PMP00938	15120A	10	1/2 hp	38 lbs

### VacuMaster Vacuum Pump

- 2-Stage, 115V 60Hz operation
- 1/2" ACME and 1/4" MFL Intake fitting
- 7.5 oz Oil capacity



Part #	Mfg #	CFM	Hp	Weight
PMP01657	15500	5	1/3 hp	22 lbs
PMP01779	15800	8	1 hp	37 lbs

## Vacuum Pumps

### Eliminator® Series Vacuum Pump

- 2-Stage, direct drive
- Tested to 25 microns
- Capacitor start motor with thermal overload protection
- 3/8" NPT Break-resistant handle encompasses exhaust
- Check valve prevents oil back flow during power failure
- Low profile rocker switch
- All metal construction including all brass fittings
- Heavy-duty power paint is scratch-resistant
- Tethered safety cap prevents oil spills during transit
- Well protected drain valve
- Completely field repairable
- 24-Month over the counter warranty
- Made in USA
- UL Listed



### US Domestic Eliminator® Vacuum Pump

- 110V US Plug
- Motor: 115V @ 60Hz, 1/2 hp 1,725 rpm

Part #	Mfg #	CFM	Intake Ports
DV-3E	DV-3E	3 CFM	1/4" x 3/8" MFlr
DV-4E	DV-4E	4 CFM	1/4" x 3/8" MFlr
DV-6E	DV-6E	6 CFM	1/4" x 3/8" MFlr

### US Domestic Dual Voltage Eliminator® Vacuum Pump

- 220V US Plug
- Motor: 115V @ 60Hz/230V @ 50Hz, 1/2 hp, 1,725/1,425 rpm

Part #	Mfg #	CFM	Intake Ports
DV-3E-250	DV-3E-250	3 CFM	1/4" x 3/8" MFlr

Refrigerant Handling

# Vacuum Pump Systems

## Platinum® Series Deep Vacuum Pump

- 2-Stage, direct drive
- Tested to 15 microns
- 1/2 hp Capacitor start motor with thermal overload protection
- 1/2" NPT Break-resistant handle encompasses exhaust
- Check valve prevents oil back flow during power failure
- Low profile rocker switch
- All metal construction including all brass fittings
- Finned aluminum housing reduces heat during operation
- Tethered safety cap prevents oil spills during transit
- Blankoff isolation valve isolates the pump from the system to determine leaks
- Completely field repairable
- 24-Month over the counter warranty
- Made in USA
- UL Listed



## US Domestic Platinum® Vacuum Pump

- 110V US Plug
- Motor: 115V @ 60Hz, 1/2 hp 1,725 rpm

Part #	Mfg #	CFM	Intake Ports
DV-142N	DV-142N	5 CFM	1/2" x 1/4" x 3/8" MFlr
DV-200N	DV-200N	7 CFM	1/2" x 1/4" x 3/8" MFlr
DV-285N	DV-285N	10 CFM	1/2" x 1/4" x 3/8" MFlr

## Deep Vacuum Pump Accessories

### Black Gold Vacuum Pump Oil

- Pure and non-detergent
- Hydro processed which means it goes through a series of catalytic steps rendering the oil extremely refined, more viscous and more stable
- For industrial oil, the viscosity is an ISO grading at 40°C
- Black Gold vacuum pump oil is an ISO 41, a special to this type of application



Part #	Mfg #	Size
DVO-1	DVO-1	1 pt
DVO-12	DVO-12	1 qt
DVO-24	DVO-24	1 gal

## Deep Vacuum Flexible Metal Hose

- Will not permeate under vacuum
- Positive seal o-ring quick coupler fittings
- Recommended for deep/high vacuum
- Replacement o-ring: P90009
- Made in USA



Part #	Mfg #	Description
D10636	D10636	3/8" x 36" (One 45° Ftg)
D10660	D10660	3/8" x 60" (Straight Ftg)

## DV-T1 The Tank Vacuum Pump Oil Caddy

- Change vacuum pump oil in-between jobs
- Holds up to (5) oil changes
- Made in USA



Part #	Mfg #	Description
DV-T1	DV-T1	Vacuum Pump Oil Caddy

## Digital Vacuum Gauges

### DV-22N Digital Vacuum Gauge

- Reads vacuum units in micron, psia, inhg, mbar, pascal, torr, and mtorr
- Effective range: 20 to 9,000 microns
- Low battery indicator
- Leak proof with o-ring coupler
- Ambient temperature: 32° to 120°F
- Digital display with solid state circuitry
- Powers off after 10 minutes of no use
- Sealed touch buttons
- Retractable hanging hook
- Uses (1) 9V battery (not included)
- Made in USA
- 12-Month warranty



Part #	Mfg #	Description
DV-22N	DV-22N	Hand-Held Digital Vacuum Gauge

# Vacuum Pump Systems

## Digital Micron Gauges

### Supernova Digital Micron Gauge

- Measures in microns, psia, inhg, pascals, torr, mtorr and mbar
- Tests to make sure system is properly evacuated of air and moisture before charging with refrigerant
- Accurate from 12,000 microns down to 10 microns
- Factory calibrated
- Brass fitting on lengthy flexible cord to hard to reach places
- Large, LCD screen
- Programmable alarm and shut-off
- Powered by (3) AA batteries (not included)
- 12-Month warranty



Part #	Mfg #	Description
DV-41	DV-41	Hand-Held Digital Vacuum Gauge with Protective Carrying Case and AC Adapter

## Vacuum Pumps

### Bullet™ 7 CFM Vacuum Pump

- 2-Stage rotary vane
- Intake: 1/4" x 3/8" x 3/8"
- Motor: 1/2 hp
- 6' Power cord
- Oil capacity: 28 oz



Part #	Mfg #	Description
PMP01916	93600	7 CFM, 115V/60Hz Single-Phase

### SuperEvac™ Vacuum Pump

- 115V/60Hz Single-phase
- 2-Stage rotary vane evacuates quickly
- 15 micron field blankoff
- 1/4" and 1/2" Male flare connections
- 1/2 hp, 1,725 rpm Motor



Part #	Mfg #	CFM	Oil Cap	Dimensions H x W x L
PMP01517	93540	4.0	36	11-1/2" x 6" x 16-1/4"
PMP01518	93560	6.0	36	12" x 6-3/4" x 16-1/4"
PMP01519	93580	8.0	32	12" x 6-3/4" x 16-3/4"

### SuperEvac™ Vacuum Pump

- Isolation valve for oil changes without losing vacuum in the system
- Built-in vacuum indicator gauge
- Wide-mouth oil reservoir port
- Doubles as pump exhaust, threaded to attach garden hose for exhausting to remote location
- Easy-to-read oil sight glass
- Large brass oil drain
- Gas ballast valve keeps oil cleaner, longer during evacuation of wet systems
- Heavy-duty rotors and bearings
- Tethered port caps stay with the pump
- Metal with rubber overlay base for stability
- Field Blankoff: 15 microns
- Intake: 1/4" M Flare and 1/2" Male ACME
- Internal capacitor thermal overload temperature: 40°C
- Motor: 1/2 hp, 1,725 rpm
- Cycle voltage: 115V @ 60Hz



Part #	Mfg #	CFM	Oil Cap	Dimensions H x W x L
PMP02166	93514	4.0	36 oz	12" x 6-3/4" x 15-1/4"
PMP02167	93515	6.0	34 oz	12" x 6-3/4" x 16-1/4"

Refrigerant Handling



# Vacuum Pump Systems

## SuperEvac™ Vacuum Pump - 4, 6, 8 & 11 cfm

- 2-Stage rotary vane
- Isolation valve for oil changes without losing vacuum in the system
- Built-in vacuum indicator gauge
- Wide-mouth oil reservoir port
- Doubles as pump exhaust, threaded to attach garden hose for exhausting to remote location
- Large oil sight glass
- Large brass oil drain
- Gas ballast valve keeps oil cleaner, longer during evacuation of wet systems
- Internal intake check valve prevents oil backup into the system during a power failure
- Intake filter screen keeps damaging particles from entering the pump
- Heavy-duty rotors and bearings
- Heavy-duty steel handle with lift hook for well-balanced carrying
- Tethered port caps stay with the pump
- Metal with rubber overlay base for stability
- Thermal overload protection



## SuperEvac™ Domestic Vacuum Pump

- Field blankoff: 15 microns
- Motor: 1/2 hp, 1,725 rpm
- Cycle voltage: 115V @ 60Hz
- Power cord: 8'
- Motor mounted switch
- Intake: 1/4" and 1/2" M flare

Part #	Mfg #	CFM	Oil Cap	Dimensions H x W x L
PMP01773	93590	11.0	32.5 oz	11-1/2" x 6" x 17-1/2"

## SuperEvac™ Export Vacuum Pump

- Field blankoff: 15 microns
- Motor: 1/2 hp, 1,725/1,425 rpm
- 95 L/m @ 50Hz
- Cycle voltage: 115/220V @ 50/60Hz

Part #	Mfg #	CFM	Oil Cap	Dimensions H x W x L
PMP01720	93542	4.0	36	11-1/2" x 6" x 16-1/4"
PMP01721	93543	* 4.0	36	11-1/2" x 6" x 16-1/4"
PMP01722	93562	6.0	34	11-1/2" x 6" x 16-1/4"
PMP01723	93563	* 6.0	34	11-1/2" x 6" x 16-1/4"
PMP01744	93582	8.0	43	11-1/2" x 6" x 17-1/2"
PMP01748	93583	* 8.0	43	11-1/2" x 6" x 17-1/2"

\*Euro plug

## SuperEvac™ Vacuum Pump for Ammonia Systems

- 2-Stage rotary vane
- Designed and built to the same specifications as other SuperEvac pumps
- Features a pump exhaust that doubles as an oil fill port
- Thermal overload
- Motor: 1/2 hp
- Power cord: 6' Rocker style switch
- Intake: 1/2" Male pipe
- Field blankoff: 15 microns



Part #	Mfg #	CFM	Oil Cap	Dimensions H x W x L
PMP01922	93530	8.0	47 oz	11-1/2" x 6" x 17-1/2"
PMP02168	93533	190 L/M	47 oz	11-1/2" x 6" x 18-1/4"



# Vacuum Pump Systems

## Bullet™ Vacuum Pump

- Wide mouth oil reservoir port for easier, cleaner filling
- Large oil sight glass
- 2-Stage rotary vane
- Intake: 1/4" x 3/8" x 3/8"
- Thermal overload
- Motor: 1/2 hp, 1725 rpm
- 6' Power cord
- Field blankoff: 25 microns
- 115V @ 60Hz



Part #	Mfg #	CFM	Oil Cap	Dimensions H x W x L
TOL04200	93603	3.0	33.5 oz	11-1/2" x 6" x 16-1/4"
TOL04201	93605	5.0	30 oz	11-1/2" x 6" x 16-1/4"

## Belt Drive 2-Stage Vacuum Pump

- 2-Stage pumps are lab rated at 0.1 micron and feature large oil capacity, vented exhaust, standard belt guards, motor capacitors and automatic overload protection
- Gas ballast standard
- 115V @ 60Hz
- Optional exhaust filters available



Part #	Mfg #	CFM	Oil Cap	Dimensions H x W x L
PMP01699	80210	2.79	1.5 qt	11" x 12" x 18"
PMP01650	80220	5.6	2.5 qt	16" x 13" x 18"
PMP01563	80230	10.6	3.5 qt	19" x 16" x 18"
PMP01652	80240	17.7	4.5 qt	20" x 20" x 21"

## Vacuum Pump Parts



93011, 93012



93047

Part #	Mfg #	Description
FTG01011	93391	Oil Fill Fitting
LEG00147	93034	Universal Pump Leg for Ritchie Vacuum Pumps
ELM03537	93387	Replacement Element for Ritchie 1.5, 2,4, 6 & 8 CFM Vacuum Pumps
COV04416	93649	BULLET Pump Cover Assembly
CPL01250	93050	Coupling Spider
GAG00972	93011	0-30" Vacuum Indicator, SuperEvac
LNS00850	93012	Vacuum Gauge Lens, SuperEvac
SEL00923	93031	Shaft Seal
CPL00952	93047	Vacuum Pump Drive Coupling
CRD00109	93115	6' Long Cord
SWT02559	93117	Rocker Switch for SuperEvac
KIT15332	93367	Complete Parts for Blank-Off Handle, SuperEvac
GLS00900	93365	Oil Sight Glass
DRN00007	93368	Drain/Gas Ballast Plug, SuperEvac
HDL00988	93370	Handle Assembly for Pump Oil Cover
FLR04604	93386	Exhaust Oil Filter for Ritchie 2, 4, 6, & 8 CFM Vacuum Pumps
CAP00904	93390	Pump Oil Cover
FTG01012	93393	Intake Fitting for 8, 11 cfm SuperEvac
RNG01821	93398	O-Ring for SuperEvac Gas Ballast/Drain Plug
CAP01011	93399	3/8" Flr Cap for 4, 6 cfm
GKT04084	93507	Oil Cover Gasket for SuperEvac
GKT03914	93369	Diecast Oil Case Gasket
PMP02075	93561	6 CFM Complete Vacuum Cartridge

Refrigerant Handling

# Vacuum Pump Systems

## Heat Gun for Faster Vacuums

- 600° and 100°F Settings
- Tough, shockproof housing
- Coil defrosting
- Drying out condensation in motors, clutches, etc.
- Includes:
  - Gun
  - Adapter
  - Case



Part #	Mfg #	Description
TOL01518	69092	115V Heat Gun Kit, UL, CSA

## Vacuum Pump Oil

### SuperEvac™ Vacuum Pump Oil

- Refined and formulated for extremely low vapor pressure and high pump efficiency at all temperatures



Part #	Mfg #	Size	Pkg Qty
OIL00067	93091	1 pt	24
OIL00068	93092	1 qt	12
OIL00302	93096	1 gal	6

## Oil & Lubricants

### O-Ring Lubricant

- Lubricate o-rings in manifolds when pistons or o-rings are being replaced



Part #	Mfg #	Description
LUB00042	41118	0.75 oz

## Refillable Oil Injector

- Body and cap are rugged aluminum with o-ring seal
- Male fitting at one end with Schrader
- Ball valve for control on other end with a short length of hose
- Valve depressor in female end
- Maximum working pressure: 600 psi



Part #	Mfg #	Description
TOL02834	69560	1/2 oz Oil Injector with 1/4" MFIR x 1/4" F QC
TOL03739	69561	2 oz Oil Injector with 1/4" MFIR x 1/4" F QC
TOL01532	69562	4 oz Oil Injector with 1/4" MFIR x 1/4" F QC
RNG02044	69564	O-Rings for 2 & 4 oz Injector, 5/Pk
RNG01898	69563	O-Rings for 1/2 oz Injector, 5/Pk





# Parts & Accessories

## Yellow Jacket Replacement Parts



Part #	Mfg #	Description
SWT02502	95173	High Pressure Switch
GKT04593	95349	Compressor Seal Gasket
COV04490	93803	(4) Cover Vanes Set for 93730
KIT09166	93461	Cartridge Kit with Oil Cover Gasket
KIT12366	93481	Vacuum Cartridge Kit with Oil Cover Gasket, 8 CFM
KIT15244	93441	Vacuum Cartridge Kit with Oil Cover Gasket, 4 CFM
HUS03794	68089	Sensor Protective Housing
KIT09643	95123	Compressor Service Kit for R50/R50A
10105	10105	Backpack – Series 41 and Heat Pump Manifold
MOT11543	93046	Replacement Motor for Ritchie 6 CFM Vacuum Pump, 115V
PMP01919	80241	Pump; 91955-007 HYVAC 45
GLS00964	GLS00964	Clearlok Lens for 78061
HSE01253	18520	Heavy Duty Plated Steel Charging, 3/4" Female Flare, 20'
HSE01263	93703	1" Vacuum Tube w/1/2" Wall Clamps Over 1" Male Tube Fitting, 5'
HSE01264	93704	1" Vacuum Tube w/1/2" Wall Clamps Over 1" Male Tube Fitting, 10'
HSE01548	16224	BCA-24 Hi Vacuum Hose
HSE01507	81672	Metal Hose, 1/4" SQCA-72
HSE01508	81772	Metal Hose, 3/8" SQCA-72
HSE01361	25001	Yellow Flexflow Replacement Hose
HSE01644	01299	Hose; 1/2" SQCS-12 Spec QC x MP Fn
HSE01584	00802	Hose; 36", E-36, 3/4" MPT x 3/4" MPT Fn
HSE01128	15120	Hose; 1/4" x 20', NO Isolation
HSE01612	00013	3/4" Heavy-Duty Hose Assembly
ELN00875	93705	Smoke Eliminator Assembly
HSE01623	19596	Plus II 3/8" HD Charging/Vacuum Hose, 3/8" Flr x 3/8" 45°
HSE01748	14821	Hose; HA-12" Blue 1/4" MFir x 45 Flr
CAS02034	60498	Hydraulic Expander Briefcase
TOL01451	95100	Recover-x R100ap Refrigerant Recovery Unit, 115v
TOL03740	TOL03740	2 oz Oil Injector 1/4" MFir x 1/4" F QC
TOL03155	60196	1/4" Tube Mandrel

## Bacharach Replacement Parts



Part #	Mfg #	Description
HSE01759	0024-3023	Standard Hose and Probe Assembly for ECA450 Combustion Analyzer
BAS02174	2054-0120	Model 3600 and 3700 Rubber Feet
BRD03999	3015-5152	Interface Board, 4-20ma for HGM-MZ
CAS01857	3015-0211	Case for H10G
CMP01116	3015-0895	Battery Clamp
COM09545	2045-0021	Model 3700 Compressor Assembly
COV04609	0024-1420	Bayonet Cover Assembly for PCA2 & PCA3
CYL00225	9550-0049	N2 Gas Cylinder
DHY01536	2020-0001	ECO-2020 Inline Filter Drier
DIA00164	0011-0021	Fyrite® Diaphragm
FLR06878	07-1600	Filter
FTG01131	0103-5267	Fitting; for Particulate Filter
FTG01133	2022-0500	Stinger Fitting, 1/8 MPT
FTG01134	2022-0590	Stinger Fitting, 1/8 FPT
GAG01066	2002-0250	R12/22/134a Low Side Gauge, Blue
GAG01067	2002-0550	R12/22/134a High Side Gauge, Red
GAG01068	2002-0410	R-410A Low Side Gauge, Blue
GAG01069	2002-0420	R-410A High Side Gauge, Red
GKT04171	0011-0020	Valve Plunger Gasket
GKT04172	0011-0143	Top Gasket (1999 and Later)
GKT04202	2077-0830	Piston Cup Seal Gasket
GKT04203	2039-0000	Cap Seal Gasket
HDL01023	0024-1377	Probe Assembly Handle, Left, PCA 2
HDL01024	0024-1378	Probe Assembly Handle, Right, PCA 2
HDL01062	0024-1377	Probe Assembly Handle, Left, PCA 2
HDL01063	0024-1378	Probe Assembly Handle, Right, PCA 2
HDL01098	0024-1514	Probe Handle Replacement
KIT12372	0010-5022	Oil Burner Combustion Test Kit
KIT12608	0024-1107	Replacement Water Trap and Filter Assembly
KIT13636	3015-3423	Annual Maintenance Kit; M1110bq
KIT15014	2002-0011	Model 3600 and 3700 Compressor Rebuild Kit
KIT15319	2045-0051	Model 3600 Compressor Assembly Kit
KIT15520	2090-0042	Rebuild Kit for A Stinger Unit
KIT15746	2024-0270	Ball Valve and Knob for Fluoromizer 3700
FLR08093	3015-3411	End of Line Filter Kit for HGM-MZ/SZ
KIT16606	3015-5014	Manifold Assembly; for Fixed Refrigerant Monitors; HGM/RDM/AGM/ADM Series
KNB00183	2043-0100	Valve Knob, Blue

Refrigerant Handling

## Parts & Accessories

### Bacharach Replacement Parts (Continued)

Part #	Mfg #	Description
KNB00184	2043-0110	Valve Knob, Black
KNB00185	2043-0120	Valve Knob, Red
PAP00010	0024-0531	Paper; Either Coated or Uncoated
PMP01917	3015-5019	Replacement Pump for HGM-MZ/SZ
RNG01901	0105-5102	O-ring for ECA Printer, 8 mm OD x 1 mm Wall
RNG01932	0011-0136	Top Cap Rim Ring with Gasket
RNG01940	0105-5103	O-ring, 7 mm OD x 1 mm Wall
SCR02131	2051-1680	Knob
SRP00922	2007-0080	Carrying Strap
TCP00129	0104-1797	Thermocouple, 10' (3.05 M) (for Primary Air)
TOL04155	0024-3070	B-Smart® 3-Year 12-Sensor Program, Pre-calibrated CO, NO & SO2 Sensors Every 9 Months for PCA3
TOL04156	0024-3071	B-Smart® 3-Year 12-Sensor Program, Pre-calibrated CO, CO-high & NO Sensors Every 9 Months for PCA3
TOL04157	0024-3075	B-Smart® 2-Year 2-Sensor Program, Pre-calibrated CO Sensor Every 12 Months for Insight Plus
TOL04158	0024-3076	B-Smart® 2-Year 4-Sensor Program, Pre-calibrated CO Sensor Every 6 Months for Insight Plus
TOL04176	0019-0803	100–240VAC Wall Charger for TruPointe IR
TOL04177	0019-0802	12VDC Car Charger (Cigarette Lighter Plug) for TruPointe IR
TOL04178	0019-0801	(5) Filters and (3) O-rings Kit for TruPointe IR
TOL04179	0019-0804	Replacement Rubberized Boot with Magnet for TruPointe IR
TOL04180	0019-0805	Replacement Probe Tip for TruPointe IR
TOL04181	0019-0806	Replacement Hard-Shell Carrying Case for TruPointe IR
TOL04182	0019-0808	Replacement Flexible Extension, 9" for TruPointe IR
TOL04183	0019-0809	Replacement Rigid Needle Extension, 9" for TruPointe IR
TUB12317	2035-0280	Stinger Tubing, 6.5"
TUB12965	3015-3235	1/4" Sampling Tubing, 250'
TUB13345	0103-6101	Silicone Tubing
VAL08855	2002-0091	80% Shutoff Valve for FM3700
VAL09399	2024-0140	Pressure Relief Valve
VAL10156	2082-0020	Discharge Shut-off Valve
VAL10187	2024-0030	Front Panel Shutoff Valve

### Bacharach Replacement Parts (Continued)

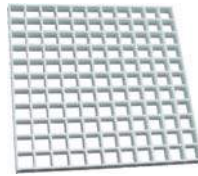
Part #	Mfg #	Description
TOL04020	0019-7110	6' Probe and Hose Assembly for Monoxor Plus
TOL04102	0019-8200	Tru Pointe IR Refrigerant Leak Detector
TOL04144	0024-3050	B-Smart® 2-Year 2-Sensor Program, Pre-Calibrated CO Sensor Every 12 Months for Insight, Monoxor Plus, Intech
TOL04145	0024-3051	B-Smart® 2-Year 4-Sensor Program, Pre-Calibrated CO Sensor Every 6 Months for Insight, Monoxor Plus, Intech
TOL04146	0024-3061	B-Smart® 3-Year 4-Sensor Program, Pre-calibrated CO Sensor Every 9 Months for PCA3
TOL04147	0024-3062	B-Smart® 3-Year 4-Sensor Program, Pre-Calibrated CO-high Sensor Every 9 Months for PCA3
TOL04148	0024-3063	B-Smart® 3-Year 4-Sensor Program, Pre-Calibrated NO Sensor for Every 9 Months for PCA3
TOL04149	0024-3064	B-Smart® 3-Year 4-Sensor Program, Pre-Calibrated NO2 Sensor Every 9 Months for PCA3
TOL04150	0024-3065	B-Smart® 3-Year 4-Sensor Program, Pre-Calibrated SO2 Sensor Every 9 Months for PCA3
TOL04151	0024-3066	B-Smart® 3-Year 8-Sensor Program, Pre-Calibrated CO & NO Sensors Every 9 Months for PCA3
TOL04152	0024-3067	B-Smart® 3-Year 8-Sensor Program, Pre-Calibrated CO & CO-high Sensors Every 9 Months for PCA3
TOL04153	0024-3068	B-Smart® 3-Year 8-Sensor Program, Pre-Calibrated CO & SO2 Sensors Every 9 Months for PCA3
TOL04154	0024-3069	B-Smart® 3-Year 12-Sensor Program, Pre-Calibrated CO, NO & NO2 Sensors Every 9 Months for PCA3
TOL02978	0006-9453	Screwdriver Calibration Tool
TOL03509	3015-5044	HGM-MZ Multi-Zone Halogen Gas Monitor, 8-Zone
TOL03521	3015-5045	HGM-MZ Multi-Zone Halogen Refrigerant Monitor, 12-Zone with Metal Tube Fittings
TOL03522	3015-5046	HGM-MZ Multi-Zone Halogen Refrigerant Monitor, 16-Zone with Metal Tube Fittings
TOL03523	3015-5138	HGM-MZ Multi-Zone Rd Halogen Multi Zone Refrgierant Gas Leak Monitor Remote Display
TOL03902	2002-0100	Digital Pocket Thermometer
KIT16100	3015-5171	4-Zone Expansion Kit for HGM-MZ
TOL02771	2002-2120	PVC Cutter
TOL02772	2002-1434	Spring Tube Bender, 6 Sizes 1/4" - 3/4"

Refrigerant Handling

# Air Movement Products

## Ventilation Products

### Air Return Diffuser



- Egg crate lay-in louver
- White polystyrene 1/2" open cell grid

Part #	Mfg #	Size
DIF00189	650-200	2' x 4' x 3/8"
DIF00188	650-300	2' x 2' x 1/2"
DIF00190	650-100	2' x 4' x 1/2"

### Duct Fan

- For hard to heat or cool rooms
- Installs in branch duct
- 120V



625-AF6

Part #	Mfg #	Description
FAN03164	625-AF6	6" Draft Booster, 240 CFM, 37W, 4/Pk
FAN03165	625-AF8	8" Draft Booster, 420 CFM, 37W, 4/Pk
FAN03166	625-AF10	10" Draft Booster, 650 CFM
FAN03167	625-AF12	12" Draft Booster, 975 CFM
FAN03168	625-AF14	14" Draft Booster, 1,350 CFM

### Versa Cap™ Flue and Hot Stack Cap

- Non-clogging positive draft design
- Adjustable clamp fitting
- UL Listed



Part #	Mfg #	Pipe OD	Single Wall
CAP00919	6-3050	2-7/8" - 5"	3" & 4"
CAP00920	6-5070	4-7/8" - 7"	5" & 6"
CAP00921	6-7090	6-7/8" - 9"	7" & 8"
CAP00922	6-9011	8-7/8" - 11"	9" & 10"
CAP00923	6-1200	11-7/8" - 14-1/2"	12" & 14"

### Roof Louver

- No need for screen
- Square hood, large nailing flange



Part #	Mfg #	Description
LVR00820	6-R50A	Aluminum Roof Louver

### Flue Cap



Part #	Mfg #	Description
CAP01190	EC-1	For 1-1/2", 2", and 3" PVC Pipe

### Roof Flashing

- 24 Gauge galvanized steel
- Automatically adjusts to pipe size and roof angle



Part #	Mfg #	Size
CLR00836	5-11830	1/2" - 3/4" - 1"
CLR00837	5-11840	1 - 1/4" - 1 - 1/2"
CLR00838	5-11853	2"
CLR00839	5-11866	3"
CLR00840	5-11879	4"

### Dryer Venting

#### Aluminum Dryer Vent Hood, Kit & Fitting

- Kit includes:
  - Flexible vinyl tubing
  - (2) Clamps



650-001

Part #	Mfg #	Description
HOD00407	650-001	4" Hood
HOD00408	650-002	3" Hood
HOD00409	650-003	4" Hood & 8' Tubing

#### Louvered Dryer Vent Hood

- Deflecto's SUPurr-Vent
- Ideal for dryer and bathroom fan exhausts
- White



Part #	Mfg #	Description
HOD00411	650-014	4" Hood Only
HOD00412	650-015	4" Hood w/ Bird Guard
HOD00413	650-016	4" Hood, Pipe & Collar (Assembled)
HOD00523	650-017	4" Hood, Pipe & Collar (Unassembled)

# Air Movement Products

## Plastic Wide Mouth Dryer Vent Hood

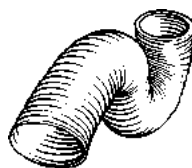
- Includes hood, aluminum pipe and collar (no bird guard)
- White



Part #	Mfg #	Description
HOD00415	650-012	4" Hood (Assembled)
HOD00416	650-013	4" Hood (Unassembled)

## Dryer Vent Hose

- High quality flexible white vinyl tubing



Part #	Mfg #	Size
HSE01343	650-005	3" x 50'
HSE01344	650-006	4" x 50'

## Dryer Vent Hose

- 2-Ply metallic



Part #	Mfg #	Size
DUC01036	FM0450	4" x 50'

## Dryer Hose Clamp

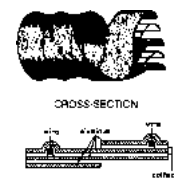
- For 4" hose
- Steel



Part #	Mfg #	Description
CMP00937	650-008	Screw Clamp
CMP00939	650-010	Spring Clamp

## SUPurr-FLEX 5 Ply Duct

- Pure aluminum 5 ply multi-layered flex metallic duct, UL 181 listed
- Will "contain" a fire up to 265°F



FUL0425

Part #	Mfg #	Size
DUC01034	FUL0425	4" x 25'
DUC01035	FUL0625	6" x 25'

## Semi-Rigid Flexible Aluminum Duct

- 8' Length compressed to 28"



Part #	Mfg #	Size
DUC01038	650-021	3" x 8'
DUC01037	650-011	4" x 8'

## Periscope Connection Kit

- For tight space duct venting
- Includes:
  - (1) Male snap-lock fitting
  - (1) Draw-band with clamp
- Adjustable 17" to 28"



Part #	Mfg #	Size
KIT07845	650-020	4"

## Duct Straps

### Metallic Duct Strap Roll

- Galvanized duct strap
- Convenient card board dispenser
- Boxed



Part #	Mfg #	Size	Length	Gauge
SRP00874	710-005	1"	100'	22ga
SRP00870	710-001	1"	100'	26ga
SRP00871	710-002	1"	100'	30ga
SRP00873	710-004	1-1/2"	100'	26ga
SRP00872	710-003	1-1/2"	100'	30ga

# Air Movement Products

## Hanging Wire

- Galvanized
- Helpful for hanging duct work



Part #	Mfg #	Size	Length	Gauge
WIR03456	710-182G	2#	330' Reel	18ga
WIR03457	710-185G	5#	830' Reel	18ga

## Plastic Hanger Strap

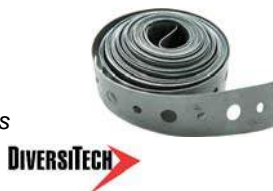
- Load tested to 120 lbs
- Flexible, non-conductive, 3/4"W x 0.050" thick



Part #	Mfg #	Description
SRP00913	710-P100	3/4" x 100' Roll

## Strapping Hanger Iron

- Galvanized vent strapping, hanger iron, plumber's tape, pipe hanger tape and other uses
- 1/4" Centers for bolts or nails



Part #	Mfg #	Size	Length	Gauge
SRP00867	710-A1710	3/4"	10' Roll	28ga
SRP00868	710-A1650	3/4"	50' Roll	28ga
SRP00869	710-A16100	3/4"	100' Roll	28ga

## Woven Polypropylene Duct Strap

- Webbed, high tensile, abrasion and chemical-resistant
- Use for flex duct



Part #	Mfg #	Size	Length	Color
SRP00875	710-100	1-3/4"	100 yd Roll	Black
SRP00876	710-101	1-3/4"	100 yd Roll	Silver
SRP00877	710-102	3"	100 yd Roll	Black
SRP00878	710-103	3"	100 yd Roll	Silver

## Aluminum Foil Tape

### Aluminum Foil Tape

- Use for HVAC and refrigeration systems
- Prevents heating and cooling losses
- Blocks odors and moisture
- Working temperature: -35° to 260°F



Part #	Mfg #	Description
TAP00076	640-AF2	2" x 50 yds
TAP00077	640-AF25	2-1/2" x 50 yds
TAP00078	640-AF3	3" x 50 yd

## Flex Duct Tape

- Acrylic adhesive
- Higher adhesion and tack than traditional cloth duct tapes
- Working temperature: -35° to 260°F
- UL181B-VX for Flex liner



Part #	Mfg #	Size	Color
TAP00083	640-FD2S	2" x 120 yds	Silver
TAP00085	640-FD3S	3" x 120 yds	Silver
TAP00084	640-FD2B	2" x 120 yds	Black
TAP00086	640-FD3B	3" x 120 yds	Black

## UL 181 Listed Foil Tape

- For airtight bonds on joints and seams of fiberglass duct systems
- UL Listed



Part #	Mfg #	Size
TAP00081	640-UL25	2-1/2" x 60 yds
TAP00082	640-UL3	3" x 60 yds

## Specialty Tape

### Stick-E-Tape Aluminum Tape



Part #	Mfg #	Size
TAP00073	50302	2" x 50'

# Air Movement Products

## Foil Scrim Kraft Tape

- Non-tearable, diamond patterned backing with aggressive rubber based adhesive system



Part #	Mfg #	Size
TAP00079	640-FSK2	2" x 50 yds
TAP00080	640-FSK3	3" x 50 yds

## Clear Carton Sealing Tape

- 2.4 mil Thickness



Part #	Mfg #	Size
TAP00065	540-2110C	2" x 110 yds

## Cloth Duct Tape

- Superior performance in sealing air handling systems
- High-tack, excellent strength
- Heavy cloth content for easier tearing and additional strength
- Made in the USA



Part #	Mfg #	Description
TAP00070	PC-600-S	2" x 60 yds, Contractor Grade, Silver
TAP00071	PC-600-B	2" x 60 yds, Contractor Grade, Black
TAP00068	PC-609-S	2" x 60 yds, Industrial Grade, Silver
TAP00069	PC-609-B	2" x 60 yds, Industrial Grade, Black
TAP00066	PC-622-S	2" x 60 yds, Premium Grade, Silver
TAP00067	PC-622-B	2" x 60 yds, Premium Grade, Black

## Duct Tape

### PC 857 Premium Grade Cloth HVAC Duct Tape

- 13.5 Mil Thickness provides high holding power and superior shear strength
- Designed specifically for Class I flex duct applications
- Resistant to flame spread, smoke generation, mold growth, humidity and high temperatures
- Tearable
- Waterproof polyethylene film backing with polyester/cotton blend cloth carrier
- HVAC UL 181B-FX Listed
- Tested in accordance with UL 723
- FSI 15/SDI 30
- Green Building Council - LEED® Point Contributor Product



Part #	Mfg #	Size	Color
TAP00072	PC 857 2SIL	2" x 60 yds	Silver



# Brazing & Soldering

## Acetylene Torches

### Extreme™ Air Acetylene Torch Kit

- Extreme™ swirl technology
- All tips feature quick disconnect couplings
- Color-coded o-rings for gas identification
- Rear valve position
- Includes:
  - Traditional manual lighting torch
  - Hose (AH-12)
  - Handle (G-4)



X-3B



X-4B

**TURBOTORCH**



X-5B



X-5MC



X-6MC

Part #	Mfg #	Model #	Soft Solders To:	Silver Brazes To:	Regulator	Tips	Tank Connection
KIT08348	0386-0335	X-3B	3"	1-5/8"	AR-B	A-3, A-11	B
KIT08349	0386-0336	X-4B	3-1/2"	2"	AR-B	A-5, A-14	B
KIT08306	0386-0338	X-5B	1-1/2"	3/4"	AR-B	A-5	B
TOL04499	0386-0384	X-5MC	1-1/2"	3/4"	AR-MC	A-5	MC
KIT08307	0386-0339	X-6MC	2"	1"	AR-MC	A-3, A-8	MC

### Extreme™ Air Acetylene Standard Tip

- Removable orifice screw
- Color-coded o-rings red for acetylene
- Can be used with any acetylene torch handle (PLF-A5 or G-4)



A-5

**TURBOTORCH**

Part #	Mfg #	Model #	Tip Size	Soft Solders To:	Silver Brazes To:
TIP00131	0386-0100	A-2	1/8"	1/8" - 1/2"	1/8" - 1/4"
TIP00142	0386-0101	A-3	3/16"	1/4" - 1"	1/8" - 1/2"
TIP00143	0386-0102	A-5	1/4"	3/4" - 1-1/2"	1/4" - 3/4"
TIP00144	0386-0103	A-8	5/16"	1" - 2"	1/2" - 1"
TIP00145	0386-0104	A-11	7/16"	1-1/2" - 3"	7/8" - 1-5/8"
TIP00146	0386-0105	A-14	1/2"	2" - 3-1/2"	1" - 2"
TIP00132	0386-0106	A-32	3/4"	4" - 6"	1-1/2" - 4"



# Brazing & Soldering

## Acetylene Professional Tip Pack

**TURBOTORCH**

- Includes:
  - Acetylene tips A-8, A-5 and A-2
  - Striker
  - 8" x 12" Torch shield made with PyroSil™

Part #	Mfg #	Description
KIT15000	0386-0577	Professional Tip Pack for Acetylene

## Extreme™ Self-Lighting Air Acetylene Torch Kit

**TURBOTORCH**

- Extreme™ swirl technology
- Quick disconnect handle and tip
- Replaceable tip
- Color-coded o-rings for gas identification
- Includes:
  - Gauge guards
  - Cylinder wrench
  - Hose (AH-12)
  - Instruction manual



PL-5A DLX-MC



PL-5A-DLX-B



PL-8A-DLX-MC



PL-8A-DLX-B



PL-12ADLX-B



PLF-5A-DLX-MC



PLF-5ADLX-B



PLF-8ADLX-MC



PLF-8ADLX-B

Part #	Mfg #	Model #	Soft Solders To:	Silver Brazes To:	Regulator	Handle	Tip	Tank Connection	Valve Position
KIT08338	0386-0832	PL-5A DLX-MC	1-1/2"	3/4"	AR-MC	G4	PL-5A	MC	Rear
KIT08308	0386-0833	PL-5A DLX-B	1-1/2"	3/4"	AR-B	G4	PL-5A	B	Rear
KIT08309	0386-0834	PL-8A DLX-MC	2"	1"	AR-MC	G4	PL-8A	MC	Rear
KIT08351	0386-0835	PL-8A DLX-B	2"	1"	AR-B	G4	PL-8A	B	Rear
KIT08339	0386-0836	PL-12ADLX-B	4"	2"	AR-B	G4	PL-12A	B	Rear
KIT09453	0386-0864	PLF-5ADLX-MC	1-1/2"	3/4"	AR-MC	PLF-A5	PL-5A	MC	Forward
KIT08342	0386-0865	PLF-5ADLX-B	1-1/2"	3/4"	AR-B	PLF-A5	PL-5A	B	Forward
KIT08343	0386-0866	PLF-8ADLX-MC	2"	1"	AR-MC	PLF-A5	PL-8A	MC	Forward
KIT08344	0386-0867	PLF-8ADLX-B	2"	1"	AR-B	PLF-A5	PL-8A	B	Forward

Supplies





# Brazing & Soldering

## Extreme™ Self-Lighting Air Acetylene Replacement Tip

- Removable orifice screw
- Color-coded O-rings for gas identification



Part #	Mfg #	Model #	Tip Size	Soft Solders To:	Silver Brazes To:
TIP00147	0386-0874	PL-3A	3/16"	1/4" - 1"	1/8" - 1/2"
TIP00148	0386-0818	PL-5A	1/4"	3/4" - 1-1/2"	1/4" - 3/4"
TIP00149	0386-0819	PL-8A	5/16"	1" - 2"	1/2" - 1"
TIP00150	0386-0820	PL-12A	3/8"	2" - 4"	1" - 2"

## Extreme™ Air Acetylene Pro-Line™ Replacement Tip End



Part #	Mfg #	Model #	Description
TIP00160	0386-1064	5A-TE	For PL-5A Tip
TIP00156	0386-1065	8A-TE	For PL-8A Tip
TIP00157	0386-1066	12A-TE	For PL-12A Tip

## Sof-Flame™ Air Acetylene Torch Kit

- Tips have a threaded connection and feature a removable orifice screw
- Includes:
  - Regulator
  - Tip (S-4)
  - Hose (AH-12)
  - Handle (WA-400)
  - Instruction manual



Part #	Mfg #	Model #	Soft Solders To:	Regulator	Tank Connection
TOL03961	0386-0089	WSF-3	1"	AR-MC	MC
KIT08304	0386-0090	WSF-4	1"	AR-B	B



# Brazing & Soldering

## Sof-Flame™ Air Acetylene Tip

- Solid brass construction
- Fits WA-400 torch handle
- Screw-on tip
- Replaces old style "W" series
- Operating pressure range: 5 - 15 psi



**TURBOTORCH**

Part #	Mfg #	Model #	Soft Solders To:
TOL04207	0386-1153	S-1	1/16" - 1/8"

## Professional Cutting Tip

- Type 101

**TURBOTORCH**

Part #	Mfg #	Model #	Description
TIP00170	0387-0145	0-3-101-CS	Cutting Tip Size 0
TIP00176	0387-0146	1-3-101-CS	Cutting Tip Size 1

## TurboTorch® Deluxe Tote Kit

- For high capacity applications, HVAC
- Includes:
  - Hose (AH-12)
  - Ergonomic handle (G-4) with quick disconnect
  - Soft solders and silver brazes
  - Regulator
  - Extreme™ standard tip
  - Extreme™ self-lighting tip
  - Tank connections
  - Tank tote
- Tanks sold separately



TDLX2003B

**TURBOTORCH**

Part #	Mfg #	Model #	Soft Solders To:	Silver Brazes To:	Regulator	Tips	Tank Connection	Tote
KIT14649	0426-0011	TDLX2003	2"	1"	AR-MC	A-5, PL-8A	MC	TT-MC
KIT14650	0386-0574	TDLX2003B	2"	1"	AR-B	A-5, PL-8A	B	TT-150 B



# Brazing & Soldering

## Air-Acetylene Rolling Tote Kit

- Metal framework
- Telescoping pull handle
- Metal sleeve for hot tip storage
- Adjustable vehicle security strap
- Includes:
  - Tips (PL-8A and A-3)
  - Torch handle (G4)
  - Regulator (AR-B)
  - Hose (AH-12)
  - Tote case



**TURBOTORCH**

Part #	Mfg #	Model #	Description
TOL03719	0386-0578	TDLX 2010B	Air-Acetylene Rolling Tote Kit

## Air-Acetylene Components

### Air-Acetylene Snappy Adapter



**TURBOTORCH**

Part #	Mfg #	Model #	Description
ADP01041	0386-0500	SA	For Sof-Flame™ or Threaded Handles

### Acetylene Torch Handle



**TURBOTORCH**

Part #	Mfg #	Model #	Description
HDL00915	0386-0308	G-4	TurboTorch® Handle

### Acetylene Torch Regulator



**TURBOTORCH**

Part #	Mfg #	Model #	Description
REG00433	0386-0725	AR-B	Fits "B" Tank
REG00440	0386-0726	AR-MC	Fits "MC" Tank

### Acetylene Torch Gauge



**TURBOTORCH**

Part #	Mfg #	Model #	Description
GAG00950	0386-1200	AG-1	Acetylene Gauge



# Brazing & Soldering

## Air Acetylene Parts & Accessories

**TURBOTORCH**

Part #	Mfg #	Description
VAL09371	0650-0066	"A" Fuel Check Valve
VAL09372	0650-0065	Reverse Flow Check Valves 2/Pk

## Oxy-Acetylene Kits

### TurboTorch® Oxy-Acetylene Medium-Duty Tote Kit less Tanks

- Kits include:
  - Oxygen regulator CGA-540 (221-05FP)
  - Acetylene regulator CGA-200 (201-05FP)
  - Handle (101-01FP)
  - Cutting attachment (151-01)
  - Cutting tip (1-3-101)
  - Brazing nozzles (0-W-1 and 2-W-1)
  - Rosebud brazing nozzle (VMA-1-15)
  - Safety glasses
  - Striker (1423-0023)
  - Hose (252-03P)
  - B to A Adapter
  - Built-in check valves with flash arrestors
  - Tote case (0386-1241)
- TTV-100-CPT also includes:
  - Type "R" 20 cu ft oxygen cylinder
  - Type "MC" 10 cu ft fuel cylinder



TTV-100-CP

Part #	Mfg #	Model #	Description
KIT12587	0386-1335	TTV-100-CP	Medium-Duty Oxy-Acetylene Cutting & Brazing Kit less Tanks
KIT15036	0386-1336	TTV-100-CPT	Medium-Duty Oxy-Acetylene Cutting & Brazing Kit with Tanks

### TurboTorch® Oxy-Acetylene Tote Kit

- Kits Include:
  - Oxygen regulator CGA-540 (221-05FP)
  - Acetylene regulator CGA-200 (201-05FP)
  - Hose (12.5" Dual "A" 3/16")
  - Safety glasses
  - Striker
  - Handle (103-01FP)
  - (2) Nozzles (00-W-J, 1-W-J)
  - Air fuel tip (PL8-A)
  - Adapter (0386-1231)
  - Check valves
  - Tote case (0386-1241)
- In addition TTV-J-ACP includes:
  - Cutting attachment (CA1260)
  - Cutting tip (0-3-101)
  - Heating tip (3-W-J)



TTV-J-ACP  
Less Tanks

Part #	Mfg #	Model #	Description
KIT14655	0386-1338	TTV-J-AP	Oxy-Acetylene Cutting & Brazing Kit less Tanks/Tips/Attachments
KIT15003	0386-1345	TTV-J-ACP	Oxy-Acetylene Cutting & Brazing Kit (Old CWK-4) less Tanks

Supplies



# Brazing & Soldering

## TurboTorch® Oxy-Acetylene Light-Duty Tote Kit with Tanks

- TTV-J-APT Includes:
  - Oxygen regulator CGA-540 (221-05FP)
  - Acetylene regulator CGA-200 (201-05FP)
  - Hose (12.5" Dual "A" 3/16")
  - Safety glasses
  - Striker
  - Handle (103-01FP)
  - (2) Nozzles (00-W-J, 1-W-J)
  - Air fuel tip (PL8-A)
  - Tank key (0386-1226)
  - Adapter (0386-1231)
  - Check valves
  - Tote case (0386-1241)
  - Type "R" 20 cu ft oxygen cylinder
  - Type "MC" 10 cu ft fuel cylinder
- In addition TTV-J-ACPT includes:
  - Cutting attachment (CA1260)
  - Cutting tip (0-3-101)
  - Heating tip (3-W-J)



Part #	Mfg #	Model #	Description
KIT15002	0386-1339	TTV-J-APT	Tote Kit with Tanks for Light Duty Cutting, Brazing & Heating less Tips
KIT15037	0386-1346	TTV-J-ACPT	Tote Kit with Tanks for Light Duty Cutting, Brazing & Heating

## Victor® CST Series Light-Duty Oxy Fuel Kit

- CST-P and CST-PT: Braze/weld 1/4" to 1-1/2" for HVAC, refrigeration and plumbing
- CST-CP and CST-CPT: Braze/weld 1/4" to 1-1/2" and cut 1/2" for HVAC, maintenance and repair
- Includes:
  - Oxygen regulator CGA-540 (221-05FP)
  - Acetylene regulator CGA-200 (201-05FP)
  - Hose (12.5" dual "A" 3/16") (252-03P)
  - Safety goggles (1423-0017)
  - Striker (1423-0023)
  - Handle (SKH-7A)
  - Brazing nozzles (0-W-J and 2-W-J)
  - Check valves
  - Tote case (1421-0084), CST-150 and CST-150C (less case), CST-CM (red metal)



Part #	Mfg #	Model #	Oxygen Cylinder	Fuel Cylinder	Cutting Attachment & Tip	Tank Key
KIT12434	0386-1320	CST-P	-	-	0-W-J, 2-W-J	-
KIT12436	0386-1321	CST-PT	Type R*	Type MC*	-	0386-1226
KIT12435	0386-1322	CST-PP	-	-	SLCA1260, 0-3-101	-
TOL02524	0386-1323	CST-PPT	Type R*	Type MC*	SLCA1260, 0-3-101	0386-1226
KIT12437	0386-1324	CST-CM	-	-	SLCA1260, 0-3-101	-
KIT12438	0386-1325	CST-150C	-	-	0-W-J, 2-W-J	-
KIT12439	0386-1326	CST-150	-	-	-	-
KIT16152	0386-1330	CST-AFP	-	-	3-TEMFN, 2-TEN, 0-TEN, UN-J	-

\* 20 cu ft



# Brazing & Soldering

## Oxy-Acetylene Kit Accessories

**TURBOTORCH**

Part #	Mfg #	Description
ADP01045	0950-0115	RH OXY Thread
ADP01046	0960-0052	LH Thread Fuel
TOL03364	0967-0119	Swivel Nozzle 1/8 NPT, 1.39 LG, CGA540

## Regulators

### New Edge™ Series Regulator

- Forged brass body
- Zinc-aluminum housing cap
- High-impact ABS gauge guard
- Stem-type seat mechanism
- Self-reseating relief valve in high pressure models
- Nickel-plated bronze sintered inlet filter
- Color-coded SLAM™ impact absorbing safety knob
- Meets or exceeds CGA E-4, UL 252, and ASTM G-175 promoted ignition test



**TURBOTORCH**

Part #	Mfg #	Model #	High Pressure Gauge	Low Pressure Gauge	Delivery Range	Note:
TOL04437	0781-5100	ESS3-125-346	3,000 psig	200 psig	5 - 125 psig	Medium Cap, Single-Stage
TOL04438	0781-5106	ESS3-15-300	3,000 psig	300 psig	2 - 15 psig	Medium Cap, Single-Stage

### Edge™ Series Journeyman® Regulator Kit

- Heavy-duty outfit
- Includes:
  - (2) ESS4 Series regulators
  - (1) H315FC Torch handle with built-in flashback arrestors and check valves
  - (1) CA2460 Cutting attachment
  - (3) W Welding nozzles sizes 1, 3, 5
  - (1) MFA Heating nozzle size 8
  - (1) 1-1-101 Cutting tip
  - (1) T-Grade hose 20' x 1/4"
  - (1) Striker and tip cleaner
  - (1) Soft-sided shade 5 goggles



**TURBOTORCH**

Part #	Mfg #	Model #	Description
REG00485	0384-2035	0384-2035	Journeyman Heavy-Duty Outfit

## Oxy-Acetylene Components

### Provantage Oxy-Acetylene Single Flame Tip



**TURBOTORCH**

Part #	Mfg #	Model #	Capacity
TIP00158	0386-0552	V-2	1/2" - 1"
TIP00178	0386-0553	V-3	5/8" - 1-1/8"



# Brazing & Soldering

## Provantage Oxy-Acetylene Dual Flame Specialty Tip



**TURBOTORCH**

Part #	Mfg #	Model #	Capacity
TIP00168	0386-0545	D-1	1/4" - 7/8"
TIP00162	0386-0546	D-2	1/2" - 1-1/8"

## Oxy-Acetylene Specialty Tip

**TURBOTORCH**

Part #	Mfg #	Model #	Description
TOL02237	0386-0544	VMA	Multi Flame Tip

## Provantage Oxy-Acetylene Tip Extension

**TURBOTORCH**

Part #	Mfg #	Model #	Description
TIP00161	0386-0557	E-10	10" Flexible

## TurboSkill® Oxy-Acetylene Regulator

- Rear entry



SKR-200R



SKR-540R

**TURBOTORCH**

Part #	Mfg #	Model #	High Pressure Gauge	Low Pressure Gauge	Delivery Range	Note:
REG00448	0426-2006	SKR-200R	400 psig	30 psig	2 - 15 psig	Acetylene CGA-200
REG00449	0426-2005	SKR-540R	4,000 psig	100 psig	4 - 80 psig	Oxygen CGA-540

## TurboTorch® Oxy-Acetylene Regulator

- Rear mount



201-05FP



221-05FP

**TURBOTORCH**

Part #	Mfg #	Model #	High Pressure Gauge	Low Pressure Gauge	Delivery Range	Note:
REG00445	0386-0784	201-05FP	400 psig	30 psig	2 - 15 psig	Acetylene CGA-200
REG00441	0386-0786	221-05FP	4,000 psig	100 psig	4 - 80 psig	Oxygen CGA-540

Supplies



# Brazing & Soldering

## Oxy-Acetylene Regulator Replacement Gauge

- 1-1/2" Replacement gauges are 1/8" NPT
- 2" Replacement gauges are 1/4" NPT



1424-0019

**TURBOTORCH**

Part #	Mfg #	Description
GAG01100	1424-0147	1-1/2", 30#, Red Arc, Gold Tint, Boxed
GAG01112	1424-0148	1-1/2", 100#, Gold Tint, Boxed
GAG01113	1424-0150	1-1/2", 4,000#, Gold Tint, Boxed
GAG01103	1424-0432	1-1/2", 100#/700 kPa, Green Face
GAG01101	1424-0433	1-1/2", 400#/2,800 kPa, Red Face
GAG01102	1424-0434	1-1/2", 4,000#/28,000 kPa, Green Face
GAG01278	0426-8010	2", 600# TurboSkill Black Case
GAG01279	0426-8011	2", 4000# TurboSkill Black Case
GAG01164	1424-0017	2", 400#/2,800 kPa Low Pressure, Gold Tint, Boxed
GAG01104	1424-0018	2", 600#, Gold Tint, Boxed
GAG01005	1424-0019	2", 4,000#/28,000 kPa High Pressure, Gold Tint, Boxed
GAG01082	1424-0381	2", 600#/4,200 kPa Low Pressure, Gold Tint, Boxed
GAG01307	1424-0405	50mm, 30#/200 kPa Low Pressure for SKR200R
TOL04239	1424-0406	50mm, 100#/700 kPa Low Pressure for SKR540R
TOL04240	1424-0407	50mm, 400#/2,800 kPa High Pressure for SKR200R
GAG01093	1424-0463	600#/4,200 kPa Low Pressure for SKRP425
GAG01094	1424-0464	4,000#/28,000 kPa High Pressure for SKRP425
GAG01161	1424-0015	2" x 100 lb Oxygen Gauge

## Oxy-Acetylene Replacement Gauge Lens

**TURBOTORCH**

Part #	Mfg #	Description
GLS00962	1429-0029	1-1/2", 1/4 Turn, Replacement Lens

## Torch Handle

- Built-in flow check valves
- Works with all fuel gases



101-01FP



103-01FP

**TURBOTORCH**

Part #	Mfg #	Model #	Description
HDL00303	0386-0310	101-01FP	Medium-Duty Handle w/Flash Arrestor, 9/16"-18 Hose Conn, 8-1/2" Long
HDL00925	0386-0311	103-01FP	Light Duty Handle, 3/8"-24 Hose Conn, 6" Long
HDL01039	0426-5002	SKH-7A	Green TurboSkill Oxy-Acetylene



# Brazing & Soldering

## Oxy-Acetylene Cutting Attachment

**TURBOTORCH**

- Light-duty, spiral mixer
- May use any fuel gas with proper cutting tips
- Die-forged brass head
- Forged brass body
- Stainless steel lever



CA1260

Part #	Mfg #	Model #	Description
TOL03055	0387-0003	CA1260-CS	3" Cut Capacity 90° Head, Series 3 Tip, J Handle
TOL02221	0386-0380	152-01FP	3" Cut Capacity 90° Head, Series 3 Tip, J Handle CA-1260
TOL02215	0386-0378	151-01FP	6" Cut Capacity 90° Head, Series 3 Tip, 100 Handle CA-250

## CGA Compressed Gas Cylinder Valve Outlet & Connection

**TURBOTORCH**

- Designed by Compressed Gas Association, Standard V-1, 6th Edition, 1987



0967-003



0969-0005

Part #	Mfg #	Model #	Description
TOL03332	0967-0033	CGA 540	Oxygen, 1/4"-18NPT 2-1/4"L Brass Swivel with Filter
NUT01093	0967-0044	CGA 540	Oxygen, .908-1/4 NGO RH(F) Brass Nut Only
FTG01024	0969-0005	CGA 520	Acetylene (B), 1/4"-18NPT 1-3/4"L Brass Swivel with Filter
NUT01043	0969-0003	CGA 520	Acetylene, .899-1/4 NGO RH(F) Brass Nut Only

## Oxy-Acetylene Tote

**TURBOTORCH**

Part #	Mfg #	Description
TOL03046	1421-0084	CutSkill® Portable Oxy-Acetylene Plastic Tote, Case Only
TOL03045	0386-1241	Plastic Portable Tote Case Boxed

## Oxy-Acetylene Parts & Accessories

**TURBOTORCH**

Part #	Mfg #	Model #	Description
VAL08489	0426-8008	SKCV	TurboSkill Check Valve Set

## Propane & MAP-Pro™ Torches

### Extreme™ Self-Lighting Propane & MAP-Pro™ Hand Torch

**TURBOTORCH**

- Extreme™ swirl technology
- High capacity applications
- Self-lighting triggers
- Quick disconnect couplings between handle and tips



TX-503



TX-504

Part #	Mfg #	Model #	LP Soft Solders To:	MAPP Soft Solders To:
TOL02133	0386-1297	TX-503	1/8" - 2"	1/8" - 3"
TOL02134	0386-1293	TX-504	3/4" - 3"	3/4" - 4"

# Brazing & Soldering

## TX-500 MAPP® or Propane Torch Kit



**TURBOTORCH**

Part #	Mfg #	Model #	Description
TOL02132	0386-1299	TX-500	Pro-Pak Includes TX504 Hand Torch & T-503 Tip

## Extreme™ Self-Lighting Torch Replacement Tip

**TURBOTORCH**

Part #	Mfg #	Model #	Description
TIP00164	0386-1298	T-503	Replacement Tip Assembly for TX503, Packaged
TIP00165	0386-1296	T-504	Replacement Tip Assembly for TX504, Packaged

## Standard Propane & MAP-Pro™ Kit

- Includes:
  - Adjustable regulator (R-LP)
  - Handle (H-4)
  - Hose (H-12)
  - Instruction manual



**TURBOTORCH**

LP-2

Part #	Mfg #	Model #	Soft Solders To:	Silver Brazes To:	Tips
KIT08305	0386-0247	LP-1	6"	4"	T-4, T-6
KIT08300	0386-0007	LP-2	4"	2"	T-3, T-5
KIT08299	0386-0006	LP-3	2-1/2"	1-1/4"	T-4

## Standard Swirl Propane & MAP-Pro™ Tip



**TURBOTORCH**

Part #	Mfg #	Model #	Tip Size	LP Soft Solder To:	MAPP Solder To:
TIP00135	0386-0150	T-2	5/16"	1/8" - 1/4"	1/8" - 1/2"
TIP00136	0386-0151	T-3	7/16"	1/4" - 1"	1/4" - 1-1/2"
TIP00133	0386-0152	T-4	1/2"	1/4" - 1-1/2"	1/4" - 2-1/2"
TIP00134	0386-0153	T-5	3/4"	1-1/2" - 2-1/2"	1" - 4"
TIP00137	0386-0154	T-6	1"	1-1/2" - 4"	1-1/2" - 6"



# Brazing & Soldering

## ProLine™ Self-Lighting Propane & MAP-Pro™ Kit

- Patented swirl combustion technology
- Includes:
  - Gauge guard
  - Cinder wrench
  - Regulator (RL-P)
  - Rear valve handle (H-4)
  - Hose (AH-12)
  - Instruction manual



**TURBOTORCH**

Part #	Mfg #	Model #	Tip Size	LP Soft Solder To:	MAPP Solder To:
KIT08340	0386-0838	PL-4TDLX	1-1/2"	3/4"	PL-4T

## ProLine™ Self-Lighting Propane & MAP-Pro™ Tip



**TURBOTORCH**

Part #	Mfg #	Model #	Tip Size	LP Soft Solder To:	MAPP Solder To:
TIP00139	0386-0822	PL-4T	7/16"	1/4" - 1-1/2"	1/4" - 2-1/2"

## "Total LP" Regulator

- Not for acetylene
- Brass construction, adjustable to 60 psi
- Fits standard POL valve and 9/16" 18 Left-hand hose nut



**TURBOTORCH**

Part #	Mfg #	Model #	Description
REG00439	0386-0705	R-LP	Total LP Regulator

## "Total LP" Hose

- 3/16" ID T grade with 9/16" 18 Left-hand thread
- Fits H-4 handle, T-8 torch, R-LP adjustable LP regulator



**TURBOTORCH**

Part #	Mfg #	Model #	Description
HSE01414	1412-0080	H-12	12' Propane Hose

## H-4 Handle

- Valve rear and disconnect
- "B" Size 9/16"-18 hose connections



**TURBOTORCH**

Part #	Mfg #	Model #	Description
HDL00916	0386-0300	H-4	Fits T-2 thru T-6



# Brazing & Soldering

## Extreme™ STK Propane & MAP-Pro™ Torch

- Extreme™ swirl technology
- 360° Swivel tips and easy to clean orifice screws
- Includes:
  - Pressure regulator (STK-R)
  - Connection (CGA-600)
  - Instruction manual



**TURBOTORCH**

Part #	Mfg #	Model #	Tip	LP Soft Solder To:	MAPP Solder To:
TOL02141	0386-0408	STK-1	ST-1	1/8" - 1/2"	1/8" - 3/4"
TOL02011	0386-0403	STK-9	ST-3	1/4" - 3"	1/4" - 3-1/2"
KIT08352	0386-1283	STK-11	ST-11 Dbl	1" - 4"	1-1/2" - 6"
TIP00172	0386-0575	STK-31	ST-3/ST-1	1/8" - 3"	1/8" - 3-1/2"
TOL02012	0386-0851	STK-99	ST-33	1/4" - 3"	1/4" - 3-1/2"

## TurboSkill® Self-Lighting Propane & MAP-Pro™ Hand Torch

- 180° Swivel tip
- Safety trigger lock
- CGA 600 Connection
- cULus listed
- 1-Year warranty



**TURBOTORCH**

Part #	Mfg #	Model #	Description
TOL01999	0426-4001	SK-7000	Preset Flame, CGA 600 Connection

## Extreme™ STK Hand Torch Tip

- Extreme™ Swirl technology
- 360° Swivel tips



**TURBOTORCH**

Part #	Mfg #	Model #	LP Soft Solder To:	MAPP Soft Solder To:
TIP00166	0386-0170	ST-1	1/8" - 1/2"	1/8" - 3/4"
TIP00138	0386-0171	ST-3	1/4" - 3"	1/4" - 3-1/2"
TIP00167	0386-0183	ST-4	1-3/8" - 2"	1-3/8" - 2-1/2"



# Brazing & Soldering

## Extreme™ STK Self-Lighting Hand Torch Tip Assembly Only

- Fits existing STK-9 and STK-99 torches



**TURBOTORCH**

Part #	Mfg #	Model #	LP Soft Solder To:	MAPP Soft Solder To:
TIP00140	0386-0850	ST-33	1/4" - 3"	1/4" - 3-1/2"

## Extreme™ STK Dual Gas Adjustable Torch Regulator

- CGA 600 Connection
- Fits ST tips and TS-12 hose



**TURBOTORCH**

Part #	Mfg #	Model #	Description
TIP00175	0386-0687	STK-R	Fits ST Tips and TS-12 Hose

## Pencil Flame Propane Torch

- Solid brass construction
- Flame control valve
- Use with any 14.1 oz propane & MAP-Pro™ tank
- For light application jobs



**TURBOTORCH**

Part #	Mfg #	Model #	Description
TOL02004	0386-0860	TP-10	Pencil Flame

## Replacement Tip End

**TURBOTORCH**

Part #	Mfg #	Model #	Description
TIP00179	0386-1263	44TL-TE	Replacement Tip End Fits ST-33, STK-99, TL-44

## Deluxe Portable Torch Kit

- Complete starter kit for soldering and brazing
- Includes:
  - Tool bag
  - Self-lighting tip (PL-3T)
  - Handle
  - STK-R Regulator (CGA-600)
  - 12' Hose and hose clamp
  - Tip (PL-4T)
  - Heat shield (PL-812)



**TURBOTORCH**

Part #	Mfg #	Model #	Description
KIT15614	0386-1397	PL-DLXPT	Self-Igniting with Propane or MAP-Pro Fuel



# Brazing & Soldering

## Propane & MAP-Pro™ Snake Kit

- Includes:
  - 360° Swivel flame tube
  - Push trigger ignition
  - Regulator (STK-R)
  - Tank rack with retainer (TSR)



PS-3T



TS-1B

**TURBOTORCH**

Part #	Mfg #	Model #	Handle	Hose	Tips
KIT08341	0386-0840	PS-3T	H-4	H-12	PL-3T
KIT08337	0386-0230	TS-1B	TSH	H-13	ST-4

## TurboTest Refrigerant Leak Detector

- Fits standard TurboTorch® MAP-Pro™ (MT-1) or Propane (PT-1) tanks
- Capable of detecting leaks of 8 ox per year
- Brass construction with stainless steel shield
- Sniffer tube swivels 360° for easy handling



**TURBOTORCH**

Part #	Mfg #	Model #	Description
TOL02021	0386-0443	TT-LP	TurboTest Refrigerant Leak Detector

## Propane & MAP-Pro™ Part

**TURBOTORCH**

Part #	Mfg #	Model #	Description
TOL03271	0337-0042	TT-RT-LP	Reactor Tube, MAPP/Propane/LP Gas, Annealed

## Plasma Cutters

### Plasma Cutter Replacement Parts

- For TPC-18 and TPC-25



Shield Cup



Electrode



Gas Distributor



Cutting Tip

**TURBOTORCH**

Part #	Mfg #	Model #	Description
TOL02010	1445-0903	TSC-25	Shield Cup
ELC00066	1445-0904	TE-25-5	Electrode
DST00867	1445-0905	TGD-25	Gas Distributor
TIP00141	1445-0909		Cutting Tip



# Brazing & Soldering

## Nitrogen Purge Kits

### NPK Nitrogen Purge & Blow Gun Kit with Carrying Case

- Purges, blows, leak tests
- Includes:
  - 6' Hose
  - OSHA Rated blow gun
  - Regulator (245-03P)
  - Carrying tote



**TURBOTORCH**

Part #	Mfg #	Model #	Description
KIT13675	0386-1236	NPK-40	Nitrogen Purge & Blow Gun Kit, DOT, TC Certified

### NPK-TT Nitrogen Purge & Blow Gun Kit

- Includes:
  - Nitrogen regulator
  - Turbo Tornado™
  - (2) Cone plugs (1/2" and 3/4")
  - Needle tip
  - CO2 Adapter
  - Standard charge hose (36" x 1/4")
  - Standard charge hose (72" x 1/4")
  - Blow gun



**TURBOTORCH**

Part #	Mfg #	Model #	Description
KIT15563	0386-1370	NPK-TT	Nitrogen Purge & Blow Gun Kit
TIP00180	0386-1371	TF-1	Turbo Tornado™ Only
PLU01053	0386-1372	CP-1	1/2" Cone Plug Only
PLU01054	0386-1373	CP-2	3/4" Drain Plug Only
TIP00181	0386-1374	NT-1	Needle Tip Only
ADP01209	0386-1375	CO2-NPK	CO2 Adapter Only
HSE01614	0386-1376	CH-36	36" x 1/4" Standard Charge Hose
HSE01615	0386-1377	CH-72	72" x 1/4" Standard Charge Hose
TOL03343	0386-1378	BG-NPK	Blow Gun Only

### SKP-40T Turboskill® Nitrogen Blow/Off Purge Kit with Carrying Case

- Includes:
  - Blow gun assembly (BG)
  - Tank tote (TT-40)
  - 6' Hose (1412-0145)
  - Regulator (SKP-425)
  - Tank (NT-40), 40 cu feet nitrogen cylinder (shipped empty) CGA 580 connection



**TURBOTORCH**

Part #	Mfg #	Model #	Description
KIT08345	0426-0009	SKP-40T	Turboskill Nitrogen Blowoff Purge Kit



# Brazing & Soldering

## NFM-TT Nitrogen Flowmeter

- For nitrogen purging
- Brass body construction
- Outflow: 0 to 75 SCFH and 0 to 35 LPM
- 1/4" FFir Inlet
- Maximum inlet pressure: 50 psi
- 1/4" MFir Outlet
- Over-pressure safety relief valve
- Provides visual confirmation of gas flow



**TURBOTORCH**

Part #	Mfg #	Model #	Description
TOL03720	0386-0849	NFM-TT	Nitrogen Purge Flowmeter

## Nitrogen Purge Components

### Nitrogen Purging Regulator

- 2" Gauges
- Forged brass



245-03P



SKRP-425



DP250-800-580

**TURBOTORCH**

Part #	Mfg #	Model #	Connection	High Pressure	Low Pressure	Delivery Range
REG00442	0386-0813	245-02P	CGA-580	4,000 psig	400 psig	0 - 250 psig
REG00459	0386-0814	245-03P	CGA-580	4,000 psig	600 psig	0 - 500 psig
REG00446	0426-2000	SKRP-125	-	4,000 psig	200 psig	0 - 125 psig
REG00597	0386-0857	DP250-800-580	-	4,000 psig	0-1000 psig	0 - 800 psig
TOL04588	0386-0875	GP250-500-580	CGA 580	4,000 psig	600 psig	0 - 500 psig

## Nitrogen Purge & Blow Gun Accessories

**TURBOTORCH**

Part #	Mfg #	Model #	Description
TOL02220	1421-0059	TT-40	40 cu ft Carrying Case

## Rehvac Nitrogen Purging Equipment

### Nitrogen & CO2 Regulator

- Machined brass piston with internal bleed-down safety
- Long lasting and reliable



CT-475M

**DIVERSITECH**

Part #	Mfg #	Description
CT-475M	CT-475M	0-475 psi Regulator
GT-750	GT-750	0-750 psi Nitrogen Regulator





# Brazing & Soldering

## Nitrogen Purging Equipment

### Nitrogen Purging Tool with Adjustable Dial

- Maximum pressure: 200 psi
- Purge flow rate: 25 - 35 scfh
- 1/4" Male SAE flare outlet
- 1/4" Swivel female SAE flare inlet



Part #	Mfg #	Description
TOL04226	DP-1	Nitrogen Purge Tool

## Turbo Tanks & Cylinders



Part #	Mfg #	Model #	Description
CYL00212	0916-0002	AC-MC	10 cu ft "MC" Acetylene Cylinder, CGA Connection, Fits TurboTotes 141-01 Case, DOT/TC Certified
CYL00213	0916-0003	OX-20	20 cu ft Oxygen Cylinder, CGA-540; DOT/TC Certified
TNK00878	0916-0029	T-10PS-MT	10 lb Refillable Propane Tank, CGA 510 POL Conn, 17-1/2"H, 8"OD
TNK00912	0916-0122	MPT-1	14.1 oz MAP-Pro™ Gas Replacement Tank, CGA 600 Connection
CYL00201	0916-0005	AC-B	40 cu ft "B" Acetylene Cylinder, CGA 540 Connection, Fits 1421-0016 "B" Tote, DOT/TC Certified
CYL00202	0916-0028	NT-40	40 cu ft Nitrogen Cylinder, CGA 580 Conn; DOT/TC Certified

## Totes

### Turbototes® Tank Tote

- Includes hose rack for storage and heavy nylon belt



Part #	Mfg #	Model #	Description
TOL02005	1421-0016	TT-150	"B" Tank Tote, Turbototes



# Brazing & Soldering

## Turbototes® Tank & Cylinder Carrier

- Heavy-duty steel construction



**TURBOTORCH**

Part #	Mfg #	Model #	Description
TOL02006	1421-0034	TT-B	For "B" Tanks
TOL02081	1421-0035	TT-MC	For "MC" or MT-1 MAPP® Tanks
TOL03022	1421-0036	TT-MCR	For "MC" Tanks with Storage for Tips, Hose, Handle & Cutting Attachments

## TurboTorch® Parts & Accessories

### J-Series Light-Duty-Brazing Nozzle

- Orifice sizes are common for all series
- 103-01FP Handle



**TURBOTORCH**

Part #	Mfg #	Model #	Description
NOZ00831	0387-0039	00-W-J-CS	00 Tip Size One Piece Copper Elbow Tip Long Cone Flame, Clamshell
NOZ00832	0387-0041	1-W-J-CS	1 Tip Size 1/4"-1-1/4" Copper Capacity, Clamshell
NOZ00833	0387-0042	2-W-J-CS	2 Tip Size 1/2" x 1-1/2" Copper Capacity, Clamshell
NOZ00834	0387-0043	3-W-J-CS	3 Tip Size 3/4"-1-3/4" Copper Capacity, Clamshell
NOZ00877	0387-0044	4-W-J-CS	4 Tip Size 3/4"-2" Copper Capacity, Clamshell

### J-Series Light-Duty-Multi-Flame Heating Nozzle

- Orifice sizes are common for all series
- 103-01FP, J-28 or J-40 Torch handle



**TURBOTORCH**

Part #	Mfg #	Model #	Description
NOZ01049	0325-0085	2-W-J	Box
TOL02017	0325-0109	VMA-J-15	Box
NOZ00879	0387-0077	6-MFA-J-CS	20,580 - 58,800 BTUH, Clamshell

### 100-Series Medium-Duty Brazing Nozzle

- Orifice sizes are common for all series



**TURBOTORCH**

Part #	Mfg #	Model #	Description
NOZ00882	0387-0029	00-W-1-CS	00 Tip Size, 1/8"-3/4" Copper Capacity, Clamshell
NOZ00875	0387-0030	0-W-1-CS	0 Tip Size, 1/4"-1" Copper Capacity, Clamshell
NOZ00847	0387-0032	2-W-1-CS	2 Tip Size 1/2"-1-1/2" Copper Capacity, Clamshell
NOZ00876	0387-0034	4-W-1-CS	4 Tip Size 3/4"-2" Copper Capacity, Clamshell



# Brazing & Soldering

## 100-Series Medium-Duty-Multi-Flame Heating Nozzle

- Orifice sizes are common for all series
- 100FC or 101-01FP Torch handle

**TURBOTORCH**

Part #	Mfg #	Model #	Description
NOZ00874	0324-0114	VMA-1-15	14,700 - 44,000 BTUH, Clamshell

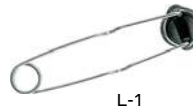
## Fitting



**TURBOTORCH**

Part #	Mfg #	Model #	Description
ADP01028	0386-0505	MCT	"B" Regulator to "MC" Cylinder Adapter

## Flint & Flint Striker



L-1



F-1

**TURBOTORCH**

Part #	Mfg #	Model #	Description
TOL02007	1423-0023	L-1	Single Flint Striker
TOL02009	1423-0024	F-1	Box of (5) Flints for L-1 Striker

## Conversion Kit

**TURBOTORCH**

Part #	Mfg #	Model #	Description
KIT16153	0386-1365	CST-AFJ	Acetylene to Propane Gas Conversion Kit

## Heat Shield



**TURBOTORCH**

Part #	Mfg #	Model #	Description
SHD00369	0386-0561	PL-812	8" x 12" Pro-Line® PyroSil Heat Shield

## Hose



Oxy-Acetylene Twin



Acetylene

**TURBOTORCH**

Part #	Mfg #	Model #	Description
HSE01421	0386-1094	252-03P	12-1/2' Oxy-Acetylene Twin Hose with "A" Fittings
HSE01407	0386-1090	AH-12	12' Acetylene Hose with "A" Fittings
HSE01413	0386-1091	AH-24	24' Acetylene Hose with "A" Fittings



# Brazing & Soldering

## TurboTorch Part



Tank Key

**TURBOTORCH**

Part #	Mfg #	Model #	Description
KEY00916	0386-1226	TK	Tank Key for "B" & "MC" Tank Valves
TIP00174	0386-0576	WST-3	7/8" - 1-5/8" Wrapper Tip
SCR02276	0750-0077	341-0750-0077	Adjusting Screw Assembly
TOL03261	1420-0286	1420-0286	Cylinder Wrench with 12" Chain
KIT15509	1423-0005	1423-0005	Nozzle Cleaner
TOL04431	0662-0078	-	Valve Assembly



# Brazing & Soldering

## Phos Copper Brazing Alloys

- Made in USA

### Sil-Fos® 15 Phos Copper Ring

- Pre-sized ring inserts into fitting for hands-free brazing
- For general copper-copper brazing in the Sil-Fos family with no separate flux
- Flux is recommended for brass applications
- Works well to "bridge" gaps
- Withstands moderate vibration
- Fast flow
- AWS Class: BCuP-5



Part #	Mfg #	Size	Qty
98700	98700	1/4" OD	25/Bag
98701	98701	3/8" OD	25/Bag
98702	98702	1/2" OD	25/Bag
98703	98703	5/8" OD	25/Bag
98704	98704	3/4" OD	25/Bag
98705	98705	7/8" OD	25/Bag
98706	98706	1-1/8" OD	10/Bag

### Sil-Fos® 15 Phos Copper Ring Handy Pack



Part #	Mfg #	Description	Qty
99710	99710	Assortment	160 Rings

## High Silver Brazing Alloys

- Cd-free
- Made in USA

### Silvaloy® 450 High Silver Brazing Alloy

- Formerly Braze™ 450/Silvaloy® A45
- 45% Silver, 30% copper, 25% zinc
- General purpose filler metal for joining ferrous, non-ferrous and dissimilar metals with large joint clearances
- Solidus: 1225°F
- Liquidus: 1370°F
- AWS Class: Bag-5



Part #	Mfg #	Size	Qty
98000	98000	1/16" Dia	1 Troy oz
98001	98001	1/16" Dia	3 Troy oz
98002	98002	1/16" Dia	5 Troy oz

### Silvaloy® 452 High Silver Brazing Alloy

- Formerly Braze™ 452/Silvaloy® A45T
- 45% Silver, 27% copper, 3% tin, 25% zinc
- General purpose
- Low temperature
- Free flowing
- Best suited for narrow gap applications (0.001" to 0.005" radial joint clearance)
- Solidus: 1195°F
- Liquidus: 1251°F
- AWS Class: Bag-36



Part #	Mfg #	Size	Qty
98011	98011	1/16" Dia	3 Troy oz
98100	98100*	1/16" Dia x 18"	8 Stick Tube

\* Flux-coated blue

# Brazing & Soldering

## Silvaloy® 505 High Silver Brazing Alloy

- Formerly Braze™ 505/Silvaloy® A50N
- 50% Silver, 20% copper, 28% zinc, 2% nickel
- For 300 series stainless steel food handling equipment with close joint clearances
- Free flowing
- Brazes ferrous and non-ferrous alloys
- Can be used to join carbide tools
- Solidus: 1,220°F
- Liquidus: 1,305°F
- AWS Class: Bag-24



Part #	Mfg #	Size	Qty
98070	98070	1/16" Dia	1 Troy oz
98110	98110**	1/16" Dia x 18"	8 Stick Tube
99076	99076*	3/40" Dia x 20"	8 Stick Tube

\* Flux cored

\*\* Flux coated white

## Silvaloy® 560 High Silver Brazing Alloy

- Formerly Braze 560™/Silvaloy® A56T
- 56% Silver, 22% copper, 5% tin, 17% zinc
- For food handling equipment requiring a low melting, cadmium-free alloy
- Solidus: 1,145°F
- Liquidus: 1,205°F
- AWS Class: Bag-7



Part #	Mfg #	Description	Qty
98060	98060	1/16" Dia	1 Troy oz
98061	98061	1/16" Dia	3 Troy oz
98062	98062	1/16" Dia	5 Troy oz
98120	98120**	1/16" Dia x 18"	8 Stick Tube

\*\* Flux coated orange

## Handy One® Aluminum Solder

- Made in USA

### AI 802 Handy One® Aluminum Solder

- 2% Aluminum, 98% zinc
- General purpose soft soldering filler metal
- Free Flowing
- Cored with non-corrosive flux
- Joins all solderable grades of aluminum and aluminum alloys when using open air heating methods
- Solidus: 710°F
- Liquidus: 725°F



Part #	Mfg #	Description	Qty
99087	99087	5/64" Dia x 20"	4 Sticks

## Flux

- Made in USA

### Handy® Flux Paste Flux

- All purpose, low temperature
- Cleanup with hot water
- Suitable for use with most heating methods including torch, induction, or furnace
- May be thinned with water to a smooth uniform consistency for brushing or dipping
- Active temperature range: 600°F to 1,100°F
- White
- Includes brush cap
- AWS: A5.31 FB3A
- SAE: AMS 3410

**HANDY FLUX**



Part #	Mfg #	Size
97030	97030	7 oz

## Soldering Flux

### C-Flux® Solder Flux

- Gray color
- Lead-free containing powdered solder which provides added insurance for a leak-free joint



Part #	Mfg #	Description
CHM01374	74026	3 oz Jar
FLX00028	74025	12 oz Jar

# Brazing & Soldering

## Fluxomatic™ Gel

- Non-acid instant acting flux
- Rapid soldering of all solders 370° to 550°F



Part #	Mfg #	Description
CHM01375	74104	8 oz Gel

## NOKORODE® Aqua Flux™

- Creamy, smooth paste
- For use with 95/5, 60/40, 50/50, 40/60 and other solders
- For use with the silicon family of metal alloy products
- Meets the ASTM B-813 standards requiring flux to be water washable with the ability to be flushed from the piping system to prevent corrosion
- Certified to NSF/ANSI 61 annex G
- In compliance with AB 1953 requirements



Part #	Mfg #	Description
CHM01382	74044	2 oz Jar
CHM00796	74047	4 oz Jar
CHM01383	74046	16 oz Jar

## Heat Absorption Compounds

### Rectorshield™

- Tan color
- Thermal absorption compound



Part #	Mfg #	Description
CHM00281	83554	11 oz Tube

## Flowmeters

### Medalist™ 1400 Series HRF Flowmeter

- Specially designed for MIG, TIG and other inert gas welding applications
- Single stage piston design
- Up to 50 CFH for Argon delivery
- Up to 38 CFH for CO2 delivery
- Maximum inlet pressure: 3000 PSI
- Includes 10' hose
- Connections: 5/8" - 18 (F) RH outlet



Part #	Mfg #	Description
TOL04578	0781-2743	Medalist™ HFR1425-580
TOL04579	0781-2745	Medalist™ HRF 1480-320



# Drain & Waste Line Products

## Drain & Waste Line Cleaners

### RectorSeal® Root Destroyer

- Blue color
- Fast-acting
- Meets EPA regulation number 1278-5-5



Part #	Mfg #	Description
CHM01323	81394	2 lb Bottle
CHM01324	81559	50 lbs

## Anti-Seize Compounds

### Food-Grade Anti-Seize Lubricant

- Developed specifically for use where incidental food contact is possible.
- Prevents rust, corrosion, seizing and galling of metal compounds.



Part #	Mfg #	Description
CHM01322	73931	1 lb Brush Top

### Break-Out™ Anti-Seize Lubricant

- Bronze color
- For general industrial use



Part #	Mfg #	Description
CHM01318	73551	8 oz Brush Top
CHM01321	73861	12 oz Aerosol
CHM01317	73431	1 lb Brush Top

### Copper-Rich™

- Copper color
- For high conductivity



Part #	Mfg #	Description
CHM01316	72851	8 oz Brush Top
CHM01315	72841	1 lb Brush Top

### Nickel-Rich™

- Silver color
- For high temperatures to 2600°F



Part #	Mfg #	Description
CHM01320	73851	8 oz Brush Top
CHM01319	73831	1 lb Brush Top

### Moly-Rich™

- Blue color
- Molybdenum disulfide and low friction fillers in a grease base with rust and corrosion inhibitors and an extreme pressure additive
- Service temperature range: -65° to 1050°F
- Will not harden, evaporate, run, drip, or settle out
- Contains no lead, copper, or zinc



Part #	Mfg #	Description
CHM01314	71431	1 lb Dauber Top





# Equipment Lifts

## Compressor Lift Systems

### Light-Duty 600 lb Rated COMPLIFT

- Portable
- Easy set-up
- Powder-coated for durability
- 7' Beam
- Unit weight: 134 lbs
- Height adjustable from 5' to 8'
- Compressor hook available
- Weight capacity rating: 600 lbs
- Hoist sold separately
- Includes trolley for appropriate hoist type



Part #	Mfg #	Hoist	Trolley Travels
1348-1	1348-1	Chain	69"
1348-21	1348-21	Electric	69"

### Light-Duty 1,000 lb Rated COMPLIFT

- Portable
- Easy set-up
- Powder-coated for durability
- 8' Beam
- Unit weight: 212 lbs
- Height adjustable from 6' to 8'
- Optional wheels available
- Weight capacity rating: 1,000 lbs
- Hoist sold separately
- Includes trolley for appropriate hoist type



Part #	Mfg #	Hoist	Trolley Travels
1369-1	1369-1	Chain	74"
1369-21	1369-21	Electric	74"

### Heavy-Duty 33" to 46" High COMPLIFT

- Portable
- Easy set up
- Powder-coated for durability
- 8' Beam
- Unit weight: 200 lbs
- Height adjustable from 33" to 46"
- Rated for up to 2,000 lbs weight capacity with an 8" lifting range
- Hand truck mounted equipment rolls into elevators for rooftop service
- Beam carried separately
- Includes hand truck (dolly)



Part #	Mfg #	Hoist	Trolley Travels
1330-1	1330-1	Hydraulic	86"

### Heavy-Duty 68" to 98" High COMPLIFT

- Portable
- Easy set-up
- 8' Beam
- Unit weight: 171 lbs
- Height adjustable from 68" to 98"
- Aluminum construction
- Rated for up to 2,000 lbs weight capacity with an 8" lifting range
- Chain hoist and trolley sold separately
- Includes wheels (phenolic casters)



Part #	Mfg #	Hoist
1362-1	1362-1	Chain

## Compressor Lift Parts

### Beam



Part #	Mfg #	Description	For Model(s)
1130-67	1130-67	7' Beam	1348
1130-68	1130-68	8' Beam	1348

# Equipment Lifts

## Leg Support



Part #	Mfg #	For Model(s)
1348-6-12	1348-6-12	1348

## Compressor Hook



Part #	Mfg #	For Model(s)
1352-4	1352-4	All Models

## Trolley for Chain Hoist



Part #	Mfg #	For Model(s)
1348-TC	1348-TC	1348-1
1369-TC	1369-TC	1369-1

## Chain Hoist

- 2181-H
  - 1-Ton
  - 10' Chain fall
- 2182-H
  - 1-Ton
  - 20' Chain fall



Part #	Mfg #	For Model(s)
2181-H	2181-H	1348-1, 1369-1, 1362-1
2182-H	2182-H	1348-1, 1369-1, 1362-1

## Trolley for Electric Hoist



Part #	Mfg #	For Model(s)
1348-TE	1348-TE	1348-21
1369-TE	1369-TE	1369-21

## Wheel Kit

- (4) 10" Everroll locking casters with hardware



Part #	Mfg #	For Model(s)
1130-32	1130-32	1369-1

## Trolley for I-Beam



Part #	Mfg #	For Model(s)
7392-T	7392-T	1362-1

## Electric Hoist



Part #	Mfg #	Single Cable Capacity	Double Cable Capacity
2184-H	2184-H	440 lbs	880 lbs
2185-H	2185-H	550 lbs	1,100 lbs



# General Industrial

## Wasp and Hornet Killers

### Sting Less Wasp/Hornet & Yellow Jacket Killer

- Kills wasps, hornets and yellow jackets
- Fast-acting when hit directly
- Delivers 20' jet blast



Part #	Mfg #	Size
CHM00218	436-20	14 oz

### Wasp and Yellow Jacket by ENFORCER®

- Delivers 20' jet blast
- Instant knock-down



Part #	Mfg #	Size
CHM00531	8-FWH16	16 oz

### Wasp and Hornet Killer by ENFORCER®

- Delivers 20' jet blast
- Instant knock-down



Part #	Mfg #	Size
CHM00305	8-WH16	16 oz

## Wasp and Hornet Killers

### Nu-Kill® II Wasp and Hornet Killer

- Synergized pyrethrins formula quickly and effectively kills wasps, hornets and yellow jackets
- Jet sprays up to 20'
- Safe around electrical equipment (dielectric strength of 47,000 volts)



Part #	Mfg #	Description
CHM00463	4292-75	13.5 oz Aerosol

## Wasp Killer

### Buz-Awf™ Wasp Killer



- Wasp, hornet and bee killer
- High-pressure spray shoots up to 20' stream
- Non-conductive up to 47kV
- EPA Registered



Part #	Mfg #	Size
CHM00287	84390	16 oz

## Cold Galvanizing Spray

### RectorSeal® Cold Galvanizing Spray

- Gray color
- 95% Pure zinc
- Bonds electrochemically
- Protects against rust and corrosion
- Hot dip quality
- Indoor or outdoor use



Part #	Mfg #	Description
CHM01378	86625	16 oz Aerosol

## Screws

### Self-Piercing Sheet Metal Screws

- Zinc-plated
- Self-piercing tips
- Slotted 1/4" hex head washer



Part #	Mfg #	Size
TOL03070	8910-12	1/2"

## Masonry Screws



Part #	Mfg #	Size	Qty
TOL02003	5-SCRMS	1/4" x 1-1/4"	250/Pk

# General Industrial

## Sheet Metal Screws

### Sheet Metal Screw Assortment Pack

- Includes:
  - (175) 7 x 1/2 Taper point screws
  - (100) 8 x 1/2 Drill point screws
  - (50) 8 x 1 Taper point screws
  - (40) 8 x 2 Taper point screws
  - (175) 8 x 1/2 Taper point screws
  - (60) 8 x 3/4 Taper point screws
  - (50) 8 x 1-1/2 Taper point screws
  - 1/4" Nut setter
  - Multi-compartmented resealable plastic container



Part #	Mfg #	Description
SCR01975	5-SCR-AK	Sheet Metal Screws, Asst Pk

### Drill Point Sheet Metal Screw

- Self-drilling, self-tapping hex washer head
- Special heat treated steel



Part #	Mfg #	Size	Qty
SCR02504	6975CX	#14 x 3/4"	100/Pk
SCR01953	5-SCR61-2DP	6 x 1/2"	1,000/Pk
SCR01954	5-SCR61-2DPB	6 x 1/2"	15,000/Pk
SCR01955	5-SCR81-2DP	8 x 1/2"	1,000/Pk
SCR01956	5-SCR81-2DPBULK	8 x 1/2"	7,500/Pk
SCR01958	5-SCR83-4DPBULK	8 x 3/4"	10,000/Pk
SCR01959	5-SCR81-DP	8 x 1"	500/Pk
SCR01960	5-SCR81-DPBULK	8 x 1"	7,500/Pk
SCR01961	5-SCR81-12DP	8 x 1-1/2"	250/Pk
SCR01962	5-SCR81-12DPBULK	8 x 1-1/2"	5,000/Pk
SCR01963	5-SCR82-DP	8 x 2"	500/Pk
SCR01965	5-SCR101-2DP	10 x 1/2"	500/Pk
SCR01967	5SCR103-4DP	10 x 3/4"	500/Pk
SCR01968	5-SCR103-4DPBUL	10 x 3/4"	5,000/Pk
SCR01969	5-SCR101-DP	10 x 1"	500/Pk
SCR01970	5-SCR101-DPBULK	10 x 1"	5,000/Pk
SCR01971	5-SCR101-12DP	10 x 1-1/2"	250/Pk
SCR01972	5-SCR101-12DPBU	10 x 1-1/2"	3,500/Pk
SCR01973	5-SCR102-DP	10 x 2"	350/Pk
SCR01974	5-SCR102-DPBULK	10 x 2"	2,500/Pk

### Taper Point Sheet Metal Screw



- 1/4" Hex washer slotted head
- Heat treated tapered point will not break

Part #	Mfg #	Size	Qty
SCR01931	5-SCR63-8	6 x 3/8"	1,000/Pk
SCR01932	5-SCR63-8BULK	8 x 3/8"	20,000/Pk
SCR02092	5-SCR71-2-100	7 x 1/2"	100/Pk
SCR01933	5-SCR71-2	7 x 1/2"	1,000/Pk
SCR01934	5-SCR71-2Bulk	7 x 1/2"	15,000/Pk
SCR02094	5-SCR81-2-100	8 x 1/2"	100/Pk
SCR01935	5-SCR81-2	8 x 1/2"	1,000/Pk
SCR01936	5-SCR81-2BULK	8 x 1/2"	12,000/Pk
SCR02095	5-SCR83-4-100	8 x 3/4"	100/Pk
SCR01937	5-SCR83-4	8 x 3/4"	1,000/Pk
SCR01938	5-SCR83-4Bulk	8 x 3/4"	10,000/Pk
SCR02093	5-SCR81-100	8 x 1"	100/Pk
SCR01939	5-SCR81	8 x 1"	500/Pk
SCR01940	5-SCR81Bulk	8 x 1"	7,500/Pk
SCR01941	5-SCR81-12	8 x 1-1/2"	250/Pk
SCR01942	5-SCR81-12W	8 x 1-1/2"	250 /Pk
SCR01943	5-SCR81-12Bulk	8 x 1-1/2"	5,000/Pk
SCR01944	5-SCR82	8 x 2"	350/Pk
SCR01945	5-SCR82W	8 x 2"	350/Pk
SCR01946	5-SCR82Bulk	8 x 2"	3,000/Pk
SCR01947	5-SCR101-2	10 x 1/2"	1,000/Pk
SCR01949	5-SCR103-4	10 x 3/4"	1,000/Pk
SCR01950	5-SCR103-4Bulk	10 x 3/4"	10,000/Pk
SCR01951	5-SCR101	10 x 1"	500/Pk
SCR01952	5-SCR101Bulk	10 x 1"	7,000/Pk

## Batteries

### Lantern Battery

- 6V
- Spring terminals



7-6VGP

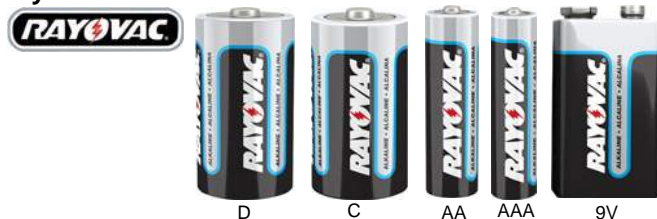
7-6VHD

7-6VHDM

Part #	Mfg #	Description
BAT00045	7-6VGP	General Purpose
BAT00042	7-6VHD	Heavy Duty
BAT00041	7-6VHDM	Heavy Duty Maximum

## General Industrial

### Rayovac™ Industrial Maximum Alkaline Batteries



Part #	Mfg #	Size	Qty
BAT00036	7-ALAA	AA	8/Pk
BAT00046	7-ALAA-24	AA	24/Pk
BAT00037	7-ALAAA	AAA	8/Pk
BAT00047	7-ALAAA-18	AAA	18/Pk
BAT00038	7-ALC	C	6/Pk
BAT00048	7-ALC-12	C	12/Pk
BAT00039	7-ALD	D	6/Pk
BAT00049	7-ALD-12	D	12/Pk
BAT00040	7-AL9V	9V	6/Pk
BAT00050	7-AL9V-8	9V	8/Pk

### 3M™ Abrasives

#### 7447 Scotch-Brite™ General Purpose Hand Pad

- Very fine grade aluminum oxide abrasive cleans, finishes, grains, denibs, and defuzzes
- Suitable for use on wood, metal, plastics, ceramics, porcelain, glass, rubber or composites
- Reusable
- Resists tearing, splintering, shredding, loading, and will never rust
- Can be folded, stacked or rolled for effective cleaning or conditioning on flat, irregular, or contoured surfaces



Part #	Mfg #	Size	Grade	Color
TOL04190	04029-5	6" x 9"	VFN	Maroon

### Scotch-Brite™ Roloc™ Disc

- Premium Scotch-Brite™ surface conditioning non-woven web provides burr-free decorative finish
- Removes grind marks, rust and coatings
  - AMED - Maroon
- Contact vendor for more information



Part #	Mfg #	Dia	Grade	Per Case
TOL04192	048011-18975	4"	AMED	100

### Scotch-Brite™ Surface Conditioning Disc

- Hook-and-Loop
- Best for finishing, cleaning and light deburring on flat metal surfaces
- Grade: S X-Course



Part #	Mfg #	Size	Grade	Per Case
TOL04193	048011-18424-1	4-1/2"	SXCS	20

### Scotch-Brite™ Coating Removal Disc

- Use with Scotch-Brite™ surface conditioning and coating removal Hook-and-Loop discs



Part #	Mfg #	Cat#	Size
TOL04191	048011-14111-4	9145	4 1/2" x 5/8"

### Sand Cloth

#### Standard Abrasion Sand Cloth

- Sharp aluminum oxide
- Strong but flexible cloth backing
- Ideal for copper tubing and fittings where water and solvents are not a major factor



Part #	Mfg #	Description
TOL04361	61720	10 yd Roll
TOL04362	61730	25 yd Roll

## Open Mesh Sand Cloth

- Reusable
- 100% Waterproof
- Tear-resistant nylon backing



Part #	Mfg #	Description
TOL04358	61760	5 yd Roll
TOL04359	61759	10 yd Roll
TOL04360	61758	25 yd Roll

## Abrasive Cloths

### Abrasive Cloth 120 Grit

- Aluminum oxide
- Works wet or dry



Part #	Mfg #	Size
TOL01781	SC-10	1-1/2" x 10 yds
TOL01782	SC-25	1-1/2" x 25 yds

### All Purpose Cleaning Pad

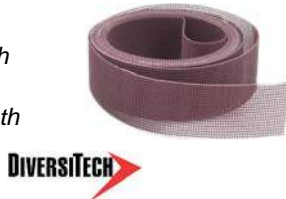
- For cleaning copper tube and fittings
- Will not rust, use wet or dry



Part #	Mfg #	Description
PAD00961	ACP-10	Cleaning Pads, 10/Box

### Grip-Cut™ 180 Grit

- Open mesh sand screen cloth
- Aluminum oxide grain resin bonded to synthetic nylon cloth
- 100% Waterproof
- For hand or portable tools



Part #	Mfg #	Size
TOL01783	SCM-5	1-1/2" x 5 yds
TOL01784	SCM-10	1-1/2" x 10 yds
TOL01785	SCM-25	1-1/2" x 25 yds

## Lubricants

### Pull-A-Spout Oiler

- All purpose oiler
- 14" Telescoping spout



Part #	Mfg #	Size
OIL00091	CO-1	4 oz

### Lube Cutting Oil



Part #	Mfg #	Size
CHM01325	CRC-CF2	16 oz

### Rust Breaker

- Loosens rusted bolts, screws, shafts and piping
- Telescoping spout



Part #	Mfg #	Size
CHM00232	CR-1	4 oz

### WD-40®

- Loosens rusted parts, stops leaks and protects metal
- Removes tar, grease and adhesives
- Displaces moisture



Part #	Mfg #	Size
LUB00061	741-001	8 oz
LUB00062	741-002	11 oz

# General Industrial

## Ultra Lite 3-36® Ultra Thin Non-Staining Lubricant

- Resists oil, dirt and dust build-up
- Seals out moisture and protects against corrosion
- Excellent for drying out electrical components



Part #	Mfg #	Size
LUB00068	CRC-1	11 oz

## Sta-Plex™ Extreme Pressure Premium Red Grease

- Superior multi-purpose certified lithium complex based grease
- Contains extreme pressure, anti-wear and anti-oxidation additives
- Useful in high temperature and performance applications
- Drop point: 500°F



Part #	Mfg #	Size
LUB00069	CRC-13	14 oz

## SP-400™ Corrosion Inhibitor

- Long-term corrosion inhibitor that protects equipment subject to heat, humidity, chemicals or severely corrosive atmospheres
- Best to use on machined surfaces and assemblies subjected to long periods of storage



Part #	Mfg #	Size
INH00020	CRC-3	10 oz

## 3-36® Multi-Purpose Lubricant & Corrosion Inhibitor

- Petroleum based compound that forms a clear, thin film that lubricates and protects against wear and corrosion
- Displaces moisture and cleans



Part #	Mfg #	Size
LUB00070	CRC-2	11 oz
LUB00071	CRC-2G	1 gal

## Heavy-Duty Silicone Mold Release



Part #	Mfg #	Size
LUB00073	CRC-6	12 oz

## Screwloose® Industrial Penetrating Oil



Part #	Mfg #	Size
CHM00851	CRC-8	11 oz

## White Lithium Grease



Part #	Mfg #	Size
LUB00072	CRC-9	10 oz

## Contact Cleaners

### QD® Contact Cleaner

- Suitable for cleaning sensitive electronics and electrical equipment
- Does not leave a residue
- Evaporates quickly and is safe to use on all plastics
- Useful where lower flashpoint cleaners are acceptable
- NSF K2 registered



Part #	Mfg #	Size
CHM00844	CRC-4CF	11 oz

# General Industrial

## HF® Contact Cleaner

- Suitable for cleaning sensitive electronics and electrical equipment
- Does not leave a residue
- Evaporates slowly and is safe to use on most plastics
- High flashpoint: 205°F
- NSF K2 registered



Part #	Mfg #	Size
CHM00843	CRC-4-140	11 oz

## Chlor-Free® Degreaser

- Non-chlorinated, zero VOC formula for cleaning where chlorinated solvents are prohibited
- Low flashpoint of <0°F
- Effectively removes soils with no residue build-up
- Fast acting organic solvent



Part #	Mfg #	Size
CHM00850	CRC-7Z	14 oz

## Degreasers

### Citrus Degreaser

- Low VOC formula
- Removes grease, oil, and lubricants with no water wash-off
- Evaporates quickly and leaves no residue
- Citrus scent
- NSF C1 Registered



Part #	Mfg #	Size
CHM00848	CRC-7PS	15 oz

### HydroForce® All Purpose Degreaser

- Aqueous-based cleaner



Part #	Mfg #	Size
CHM00847	CRC-728	2.4 lb

### Heavy-Duty Degreaser II

- Non-chlorinated, zero VOC formula for cleaning where chlorinated solvents are prohibited
- High flashpoint of 180°F
- Effectively removes soils with no residue build-up
- Exercise caution on plastics



Part #	Mfg #	Size
CHM00849	CRC-7X	19 oz

## Electronic Degreaser

- Suitable for cleaning air tools, dies, molds, and mechanical parts
- Non-chlorinated, non-conductive non-corrosive and non-staining
- No flashpoint
- NSF K2 registered



Part #	Mfg #	Size
CHM00845	CRC-4NU	15 oz

## Cold Galvanize

### Zinc-It® Instant Cold Galvanize™ Zinc Rich Coating



Part #	Mfg #	Size
CHM00846	CRC-5	13 oz





# General Industrial

## Refrigerant Flushing

### Pro-Flush™ HVAC Flushing Solvent

- HVAC/R Flushing solvent for R-410A retrofits, refrigerant conversions and retrofits
- Low toxicity
- Non-flammable
- Residue-free
- Kit includes:
  - 16 oz Container of Pro-Flush™ solvent
  - Refillable Pro-Flush™ injector tool pressure tank
  - Pressure relief valve for added safety
  - Large rubber adapter that flushes up to 1-1/2" line sets
  - Service hose



Part #	Mfg #	Description
PF-08	PF-08	8 oz Refill
SOV00059	PF-16	16 oz Refill
KIT15321	PF KIT	Power Flush Kit
TOL04526	PF-ADAPTER	Pro-Flush Line Set Adapter
TOL04527	PF-IGUN	Replacement Injector Tool

### Pro-Flush™ Accessories

Part #	Mfg #	Description
HSE01827	PF-IHOSE	2' Replacement Hose

## Maintenance Chemicals

### Pro-Thaw™ Liquid Dryer for Refrigerants

- Chemically dries all refrigerants methyl chloride and methylene chloride
- Frees up systems frozen due to moisture contamination in 5 minutes and prevents refreezing
- No dissolved solids
- No residue
- Works with or without solid dryers



Part #	Mfg #	Description
CHM01103	PRO-THAW	4 oz Plastic Jar

## Acid Test & Prevention

### Acid Test Kit

- For refrigeration oil



Part #	Mfg #	Description
KIT08028	ATK-4	(4) Per Package

## Duct Sealants

### Pro-Air Duct Sealant

- UL 181 AM-BM Listed
- Water-based fiber-reinforced duct sealant/mastic



800-008      800-009

Part #	Mfg #	Size
SLT00117	800-008	1/10 gal
SLT00118	800-009	1 gal

## Duct Liner Adhesives

### Pro-Air Industrial Grade Spray Adhesive

- Clear, pressure sensitive aerosol adhesive
- For duct liner and wrap, sheet aluminum, fiberglass insulation board and more
- Coverage is approximately 90-100 square feet per pound



Part #	Mfg #	Description
CHM00211	315-20	12 oz Spray
TOL02449	GN-23H	Spray Gun
ADH00032	GP1-12BL	12 lb Disposable Cylinder
ADH00033	GP1-40BL	38 lb Disposable Cylinder
TOL02450	SH-06	6' Spray Hose

## Epoxy & Glue Sealants

### Fast Cure Epoxy



Part #	Mfg #	Description
CHM00743	DEP056	(10) 0.12 oz Mixer Packs and Mixing Sticks

# General Industrial

## J-B Weld Epoxy Resin & Hardener

- Cold-weld compound for use when welding or soldering is not a consideration



Part #	Mfg #	Description
CHM01409	JB8265	2-Part Epoxy Resin & Hardener, 6/Pk

## Super Glue



Part #	Mfg #	Description
ADH00034	DEP052	Super Glue, 2 Gram Tube

## Foam Sealants

### One Component Foam Sealant

- One component closed-cell expanding polyurethane foam sealant
- For lineal caulking
- Air-moisture cure
- 20 Minutes tack free, 12 hours fully cured
- Paintable (paint to protect from UV)
- "R" Value 4.7 (1" thickness)
- UL Listed, not firestop



Part #	Mfg #	Description
SEL00885	01714	12 oz Foam-Yields 275' (3/8" Bead)
SEL00886	01724	20 oz Foam-Yields 460' (3/8" Bead)

## Sealing Compounds

### DiversiGum Sealing Compound

- Non-hardening, for plugging openings through foundations or around refrigeration tube entry



Part #	Mfg #	Description
SLT00093	6-202-1	1 lb Slug
SLT00094	6-202-2	2 lb Slug
SLT00095	AG-25	3/8" x 25' Caulking Cord

## Caulk

### Geocel Caulking Sealant

- For interior and exterior applications involving seams, joints, ductwork, flashing and any similar use
- Adhesion to virtually any surface even if moisture is present
- Resealable, paintable, flexible
- Will not crack, chip or peel



Part #	Mfg #	Description
SEL00888	18001	11 oz Cartridge, Clear
SEL00889	18002	11 oz Cartridge, White
SEL00890	18003	11 oz Cartridge, Alum/Gray

### SpecSeal Firestop Caulk

- Seal penetrations on plumbing, refrigeration and AC lines, ducts, vents and electrical cable through fire-rated floors, walls, ceilings
- UL Classified, code approved



Part #	Mfg #	Description
SEL00974	16491	Firestop Caulk, 10.3 oz, Red

### RTV Food Grade Silicone Sealant



Part #	Mfg #	Description
SLT00083	7-4000	10.3 oz Tube, Clear
SLT00085	7-4100	10.3 oz Tube, White
SLT00087	7-4200	10.3 oz Tube, Aluminum

# General Industrial

## High Temp Red Silicone Sealant

- One part non-slumping paste, cures to tough rubbery solid at room temperature



Part #	Mfg #	Description
SLT00090	7-4300	10.1 oz Cartridge

## 25-Year Acrylic Latex Painter's Caulk

- Designed for interior and exterior use
- Forms a tough, paintable resilient bond to all building material surfaces
- Excellent resistance to water, weathering and moisture vapor



Part #	Mfg #	Description
SLT00091	7-4500	10.1 oz White Cartridge
SLT00092	7-4400	10.1 oz Clear Cartridge

## Silicone Sealant



Part #	Mfg #	Description
SLT00084	7-4001	3 oz Squeeze Tube, Clear
SLT00086	7-4101	3 oz Squeeze Tube, White

## Caulk Guns



Part #	Mfg #	Description
TOL02064	7-100	Super Ratchet Type
TOL02035	7-200	Standard-Duty

## Caulk Guns



### Industrial Grade Caulk Gun

- Industrial grade with seal puncture & built-in spout cutter

Part #	Mfg #	Size
TOL04320	66114	10.3 oz
TOL04321	66115	30 oz

### Sausage Pack Caulk Gun

Part #	Mfg #	Size
TOL04331	66116	20.2 oz

### Bulk Loader

Part #	Mfg #	Description
TOL04319	66093	24 oz Bulk Loader Caulk Gun

### Replacement Tip

Part #	Mfg #	Description
TOL04332	66117	Sausage Gun Replacement Tips, 25/Pk

## Pipe Insulation Sprays

### Sweat-Free Aerosol Pipe Insulation

- For cold water pipes, refrigeration and A/C lines
- Stops sweating and dripping
- Dries to a clean, white, flexible and water-resistant coat
- Adheres to galvanized, black iron, steel, brass, copper and PVC piping



Part #	Mfg #	Size
INS02766	770-15	15 oz

# General Industrial

## Furnace Cement

### Hot Seat™ Furnace Cement

- High temperature
- Withstands temperatures up to 2000°F
- Freeze protected to 0°F



Part #	Mfg #	Description
CHM00224	HP-HS-16	Hi-Temp Furnace Cement

## Roof Cements

### Black Jack® All-Weather Roof Cement

- Asphalt based patching compound
- Seals cracks and splits
- Use in wet or dry conditions
- Seals flashings, and other roof projections
- Fiber reinforced
- Thick trowel grade



Part #	Mfg #	Description
SEL01170	RM-10	10 oz Tube
SEL01169	RM-1G	1 gal

## Garden Hose

### Flexon Forever Garden Hose

- Soft-flex formulation, 5-ply
- Maximum pressure: 500 psi
- Full lifetime guarantee



Part #	Mfg #	Size
HSE01345	5-IG5850	5/8" x 50'

### Flexon Hot Water Garden Hose

- Premium rubber, 5-ply
- 10-Year warranty



Part #	Mfg #	Size
HSE01346	5-HW5850	5/8" x 50'

## Hose Nozzles

### Pistol Grip Hose Nozzle

- For spraying hot or cold water
- Heavy-duty, self-adjusting "duck" packing for lifetime proof seal



Part #	Mfg #	Description
NOZ00840	540-572	Insulated Pistol Grip

### Pistol Grip Water Nozzle

- Heavy-duty and holds open clip for continuous spraying
- Self-adjusting "duck" for leak proof seal



Part #	Mfg #	Description
NOZ00841	540-573	Uninsulated Water Nozzle

## Drop Cloths

### Canvas Drop Cloth

- 8oz 100% Cotton canvas fabric
- Double-stitched seams
- Washable and reusable



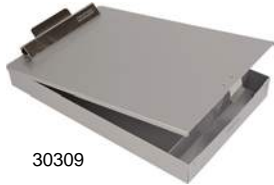
Part #	Mfg #	Size
COV04865	DC-4128	4" x 12'
COV04866	DC-9128	9" x 12'



# General Industrial

## Clipboards

- Rugged aluminum construction to protect paperwork and forms
- Smooth aluminum surface provides excellent writing support



Part #	Mfg #	Description
TOL01625	30306	SNAPAK Clipboard on Box with Hinged Back 8-1/2" x 12"
TOL01628	30309	REDI-RITE Clipboard on a Box, 8-1/2" x 12"
TOL01629	30310	CRUISER MATE 2-Compartment, 8-1/2" x 12"

## Generic Re-Order Tags



Part #	Mfg #	Qty
LBL00268	GRT100	100

## Magic Soot Stick™



Part #	Mfg #	Description
CHM00226	HP-MS-03	3oz Tube

## Hand Cleaners

### Fast Orange® Hand Cleaner

- Biodegradable, waterless hand cleaner with aloe, lanolin and jojoba



HCO-15 HCP-15 HCO-128

Part #	Mfg #	Description
CHM00526	HCO-15	15 oz Smooth Squeeze
CHM00196	HCP-15	15 oz Pumice
SOV00030	HCO-128	1 gal Smooth with Dispenser

## Hand Cleaners

### WypAll® Heavy-Duty Towel

- Pre-moistened, heavy-duty towel with pumice scrubbing power
- Conditions and softens hands
- Contains germ-fighting Triclosan



Part #	Mfg #	Qty
TOL01755	542-272	72/Bucket

### Scrubs® In-A-Bucket

- Pumice hand-cleaner impregnated towel
- Disposable
- Used to degrease tools, equipment, plastics, vinyls, metals and more



Part #	Mfg #	Description
4366-24	4366-24	30 Count Bucket
4366-87	4366-87	80 Count Bucket

### Klein Cleaners® Hand Cleaning Towels

- Pre-moistened towels
- Powerful, gentle, pumice like cleansing action
- No rinsing, no drying, no residue
- 10-1/2" x 12-1/4"



Part #	Mfg #	Description
TOL02440	51425	72 Towels/Tub

## Rags

### Workhorse™ Manufactured Rag

- Versatile, economical
- Made from Hydroknit™
- (100) Towels per box



Part #	Mfg #	Color	Size
TOL01766	5-41455	White	9-3/4" x 16-3/4"
TOL01767	5-41411	Blue	9-3/4" x 16-3/4"

# General Industrial

## Towels

### Terry Industrial Towel



Part #	Mfg #	Color	Qty
TOL03137	DTT-10	White	10/Pk
TOL03138	DTT-24	White	24/Pk

### Shop Towel

- Heavy-duty reusable towels
- 100% Cotton material, pre-shrunk and hemmed
- 13" x 16"



Part #	Mfg #	Description
TOL01892	ST-4	4 Towels/Bag
TOL01893	ST-10	10 Towels/Bag
TOL01894	ST-24	24 Towels/Bag

### Kimtex™ Shop Towel

- Cloth-like feel, reusable
- Unique polypropylene material



Part #	Mfg #	Color	Size
TOL02176	KIMTEX	Blue	9-3/4" x 16-3/4"

### Teri® Towel

- Multi-ply tissue reinforced with nylon webbing
- Made with 100% recycled paper
- 9-3/4" x 16-3/4"
- (10) Boxes per case



Part #	Mfg #	Description
TOL01969	5-34790	Reinforced, 126 Towels/Box

### WypAll® ShopPro® X80 Towel

- Absorbs grease, oil, water, and solvents
- Feels like cloth
- Tough enough for heaviest jobs



Part #	Mfg #	Description
TOL02101	5-41041	Blue, 160 Towels/Box

### WypAll® Plus Towel

- Absorbs grease, oil, water and solvents from floors, hands, parts, tools and machinery
- Tough enough for extra heavy jobs
- Pop-up box



Part #	Mfg #	Description
TOL02174	5-05790	White, 100 Towels/Box

## Aerosol Paints

### General Purpose Spray Paint

- Fast drying



799-002

Part #	Mfg #	Description
PAI00273	799-001	10 oz Gloss Black
PAI00274	799-002	10 oz Flat Black
PAI00268	799-003	10 oz Gloss White
PAI00277	799-004	10 oz Flat White
PAI00294	799-008	10 oz Bright Yellow
PAI00259	799-024	10 oz Machinery Light Gray
PAI00260	799-025	10 oz Aluminum
PAI00275	799-011	12 oz Aluminum (Silver)

# General Industrial

## Plasti-Kote™ Industrial Enamel



799-021 799-022

Part #	Mfg #	Description
PAI00256	799-021	20 oz Flat Black
PAI00257	799-022	20 oz Gloss White

## Valspar High Heat Spray Paint

- Resist temperatures to 1300°F
- Great for use on boilers, furnaces, steam pipes, chimney collars, compressors and engine manifolds
- Meets most VOC Legislation and is currently compliant



Part #	Mfg #	Description
PAI00278	799-040	Aluminum
PAI00279	799-041	Black

## Markers

### Valve Action Marker

- Valve-activated ink feed



Part #	Mfg #	Color	Tip
TOL02218	540-800	Black	Regular

### Brite-Mark® Valve Action Paint Marker

- Quick drying oil-based paint
- Permanent on most surfaces
- Valve-activated ink feed



540-808

Part #	Mfg #	Color	Tip
PAI00269	540-805	Black	Medium
PAI00270	540-807	White	Medium
PAI00271	540-806	Red	Medium
PAI00272	540-808	Yellow	Medium

## Permanent Markers

- Permanent on most surfaces
- For precise marking
- Fast drying, long lasting, water-resistant ink



Part #	Mfg #	Description
TOL03381	98554	Fine Point Black

## Aprons

### Canvas Apron

- For job site, workshop, or garage use
- 100% Cotton canvas
- Large pocket
- Universal size neck-strap



Part #	Mfg #	Description
APL00218	98288	(1) Pocket Canvas Apron

## Barbecue Tool Set

- Stainless steel
- Cushion-grip handle
- Tip-Ident® on end of handles for quick identification



Part #	Mfg #	Description
TOL02485	98222	2-Piece 17" BBQ Tool Set

## Promotional Products

### Beverage Tool



Part #	Mfg #	Description
TOL02484	98002BT	Beverage Opening Tool

# Heating Products

## Concentric Venting

### Horizontal Vent Termination Kit

- Use for venting high efficiency fossil fuel appliances
- Low profile kit hides vent from view



Part #	Mfg #	Size
DUC01455	HVENT-2	2"
DUC01456	HVENT-3	3"

### Concentric Vent

- Allows both the intake for combustion air and the exhaust vent to pass through a standard roof or sidewall
- Kit includes:
  - Combustion air inlet cap
  - Air inlet pipe
  - Vent pipe
  - Intake/vent concentric "Y"



Part #	Mfg #	Description
DUC01439	CVENT-2	For Use with 2" Intake/Vent Systems
DUC01440	CVENT-3	For Use with 3" Intake/Vent Systems

## TrueStart® Hot Surface Igniters

- Compatible with all OEM furnaces



Part #	Mfg #	Description
IGN00253	IGN-001	Universal Silicon Carbide HSI
IGN00255	IGN-1R	Universal Round Silicon Nitride HSI
IGN00256	IGN-2	Wolverine Universal Silicon Nitride HSI

## TrueStart® Hot Surface Igniter, Direct Replacement

- Silicon carbide



Part #	Mfg #	Description
IGN00257	IGN-401	2.75"W x 2.5"H
IGN00258	IGN-402	2.75"W x 6.5"H
IGN00259	IGN-403	3.75"W x 3.75"H
IGN00260	IGN-409	2.75"W x 6.5"H

## Pilots

- 2-Year warranty



Part #	Mfg #	Description
TOL03817	FC-73	2-Wire Pilot Burner for Carrier 732 #LH33JZ053
TOL03818	FC-74	3-Wire Pilot Burner for Carrier 740A #LH680005

## Appliance Gas Connectors

### Dormont 20 Series Indoor/Outdoor Gas Connector (MPT x FPT)

- Corrugated, stainless steel connectors with special "Supr-Safe" design to increase flexibility
- Dormont® "20 Series" gas connectors
- 1/2" OD x 3/8" ID  
1/2" MPT x 1/2" FPT Connectors



Part #	Mfg #	Size
CON01085	20-3132-18	18"
CON01086	20-3132-24	24"
CON01087	20-3132-36	36"
CON01088	20-3132-48	48"



# Heating Products

## Dormont 20 Series Indoor/Outdoor Gas Connector with Valves (MPT x FPT Ball)

- Corrugated, stainless steel connectors
- Dormont® "20 Series" gas connectors
- 1/2" OD



Part #	Mfg #	Size
CON01089	20-3135-18	18"
CON01090	20-3135-24	24"
CON01091	20-3135-36	36"
CON01092	20-3135-48	48"

## Dormont 30 Series Gas Connector (MPT)

- Corrugated, stainless steel connectors with special "Super-Safe" design to increase flexibility
- 5/8" OD x 1/2" ID  
1/2" MPT x 1/2" FPT Connectors
- AGA and CGA Approved



Part #	Mfg #	Size
30-3131-24	30-3131-24	24"
CON01794	30-3131-36	36"
CON01795	30-3131-48	48"

## Dormont Indoor/Outdoor Gas Connector (MPT x FPT)

- Corrugated, stainless steel connectors with special "Supr-Safe" design to increase flexibility
- AGA & CGA Approved
- Dormont "30 Series" gas connectors
- 7/8" OD x 1/2" ID 1/2" MIP x 1/2" FIP Connectors



Part #	Mfg #	Size
CON01077	30-3132-12	12"
CON01078	30-3132-18	18"
CON01079	30-3132-24	24"
CON01080	30-3132-30	30"
CON01081	30-3132-36	36"
CON01082	30-3132-48	48"
CON01083	30-3132-60	60"
CON01084	30-3132-72	72"

## DiversiTech Gas Connectors 1/2" OD

- Corrugated, stainless steel gas connectors
- CSA Certified



Part #	Mfg #	Size
D20-3132-18	D20-3132-18	18"
D20-3132-24	D20-3132-24	24"
D20-3132-36	D20-3132-36	36"
D20-3132-48	D20-3132-48	48"

## DiversiTech Gas Connectors 5/8" OD

- Corrugated, stainless steel gas connectors
- CSA Certified



Part #	Mfg #	Size
D30-3131-24	D30-3131-24	24"
D30-3131-36	D30-3131-36	36"
D30-3131-48	D30-3131-48	48"
D30-3132-18	D30-3132-18	18"
D30-3132-24	D30-3132-24	24"
D30-3132-36	D30-3132-36	36"
D30-3132-48	D30-3132-48	48"

## Epoxy Gas Connector

- Stainless steel connectors
- Epoxy coated ads durability and protects from corrosion, chemical stains, and plumbing repairs
- 1/2" ID
- 100% Leak tested
- CSA Design certified



Part #	Mfg #	Size
DC30-3132-18	DC30-3132-18	18"
DC30-3132-24	DC30-3132-24	24"
DC30-3132-36	DC30-3132-36	36"
DC30-3132-48	DC30-3132-48	48"

# Heating Products

## Gas Shut-Off Ball Valves

### Straight Reduced Port Gas Shut-Off Valve (FPT)

- Forged brass body
- 1/4-Turn handle
- 100% Leak tested
- AGA and CGA Certified



Part #	Mfg #	Size
VAL07419	92-3232	1/2" x 1/2"
VAL07420	92-4242	3/4" x 3/4"

### Straight Gas Shut-Off Valve (Flare x FPT)



Part #	Mfg #	Size	Pkg
VAL07418	91-2032	1/2"	None
VAL07417	91-3042	5/8" x 3/4"	None

## EasyHeat Pipe Heating Cables

### Self-Regulating Heating Cable

- Parallel circuit construction
- 120/240V Operation



Part #	Mfg #	Voltage	Length
TOL04274	HC-01	120V	3.28'
TOL04275	HC-02	120V	6.56'
TOL04276	HC-02-2	240V	6.56'
TOL04277	HC-03	120V	9.84'
TOL04278	HC-04	120V	13.12'
TOL04279	HC-04-2	240V	13.12'
TOL04280	HC-05	120V	16.41'
TOL04281	HC-06	120V	19.69'
TOL04282	HC-06-2	240V	19.69'
TOL04283	HC-07	120V	22.87'
TOL04284	HC-08-2	240V	26.25'
TOL04285	HC-09	120V	29.53'
TOL04286	HC-10-2	240V	32.81'

## Ignition Accessories

### Spark Electrode



Part #	Mfg #	Description
TOL03820	FC-87	For Carrier 871 #LH680512

## Soot Removers and Deodorants

### Soot Kill™ Catalytic Soot Remover Spray

- Non-flammable, non-corrosive catalytic cleaner
- Reduces vacuuming of the burner chamber
- Residual action slows soot accumulation



Part #	Mfg #	Description
CHM00225	HP-SK-16	16 oz Spray

### Spill Kill™ Liquid Fuel Oil Deodorant and Absorbent



Part #	Mfg #	Description
CHM00223	HP-SKDS-16	16oz Spray

### Spill Kill™ Granular Fuel Oil Deodorant and Absorbent



Part #	Mfg #	Description
CHM00222	HP-SKDP-20	20 oz Bottle

## SURE BURN™ Concentrated Fuel Oil Treatment



Part #	Mfg #	Description
CHM00221	HP-SB-16	16 oz Bottle





# Installation Accessories

## Terminals and Connectors

### Butt Connector

- Vinyl insulated



Part #	Description	Qty/Pk
SF-RBS	22-18 AWG	100
SF-BBS	16-14 AWG	100
SF-YBS	12-10 AWG	75

### Heat Shrink Butt Connector

- Waterproof



Part #	Description	Qty/Pk
SF-HS-RBS	22-18 AWG	25
SF-HS-BBS	16-14 AWG	25
SF-HS-YBS	12-10 AWG	25

### Ring Tongue Terminal

- Vinyl insulated



Part #	Description	Qty/Pk
SF-RR6	22-18 AWG, #6, Red	100
SF-RR10	22-18 AWG, #10, Red	100
SF-BR6	16-14 AWG, #6, Blue	100
SF-BR10	16-14 AWG, #10, Blue	100
SF-BR1-4	16-14 AWG, 1/4", Blue	75
SF-YR10	12-10 AWG, #10, Yellow	75
SF-YR1-4	12-10 AWG, 1/4", Yellow	60
SF-8R1-4	8 AWG, 1/4" Stud	10

## Block Spade Tongue Terminal

- Vinyl insulated



Part #	Description	Qty/Pk
SF-RS6	22-18 AWG, #6	100
SF-RS10	22-18 AWG, #10	100
SF-BS6	16-14 AWG, #6	100
SF-BS8	16-14 AWG, #8	100
SF-BS10	16-14 AWG, #10	100
SF-YS8	12-10 AWG, #8	75
SF-YS10	12-10 AWG, #10	75

## Male Quick Disconnect Terminal

- Vinyl insulated



Part #	Description	Qty/Pk
SF-RQDM-250	22-18 AWG, 1/4"	100
SF-BQDM-250	16-14 AWG, 1/4"	100
SF-YQDM-250	12-10 AWG, 1/4"	75

## Female Quick Disconnect Terminal

- Vinyl insulated



Part #	Description	Qty/Pk
SF-RQDF-250	22-18 AWG, 1/4"	100
SF-RQDF-187	22-18 AWG, 3/16"	100
SF-BQDF-250	16-14 AWG, 1/4"	100
SF-BQDF-187	16-14 AWG, 3/16"	100
SF-YQDF-250	12-10 AWG, 1/4"	75

# Installation Accessories

## Female Quick Disconnect Flag Terminal

- Nylon fully insulated



Part #	Description	Qty/Pk
SF-NRF-FI-250	22-18 AWG, 1/4"	50
SF-NBF-FI-250	16-14 AWG, 1/4"	50
SF-NYF-FI-250	12-10 AWG, 1/4"	30

## Male Quick Disconnect Coupler

- Nylon fully insulated



Part #	Description	Qty/Pk
SF-NRQDMFI-250	22-18 AWG, 1/4"	40
SF-NBQDMFI-250	16-14 AWG, 1/4"	40

## Female Quick Disconnect Coupler

- Nylon fully insulated



Part #	Description	Qty/Pk
SF-NRQDFFI-250	22-18 AWG, 1/4"	40
SF-NBQDFFI-250	16-14 AWG, 1/4"	40
SF-NYQDFFI-250	12-10 AWG, 1/4"	30

## Closed End Connector



Part #	Description	Qty/Pk
SF-CES-16-10	22-14 AWG	100
SF-CES-22-14	16-10 AWG	60

## Compressor Hook-Up Lead Kit



Part #	Description	Qty/Pk
SF-COM-LEAD-18	10 AWG, 18"	1 Kit
SF-COM-LEAD-8	10 AWG, 8"	1 Kit

## Compressor Terminal



Part #	Description	Qty/Pk
SF-COM-12-8	12-8 AWG	25

## High Temperature Female Quick Disconnect



Part #	Description	Qty/Pk
SF-HT-BQDF-250	16-14 AWG, 1/4"	100
SF-HT-YQDF-250	12-10 AWG, 1/4"	100

## High Temperature Female Quick Disconnect Flag Terminal



Part #	Description	Qty/Pk
SF-HT-BFF-250	16-14 AWG, 1/4"	100

## Multi-Stack Disconnect Terminal

- Uninsulated



Part #	Description	Qty/Pk
SF-UBQDF-M	16-14 AWG, 1/4"	100

## Insulated Multi-Stack Disconnect Terminal

- Vinyl insulated



Part #	Description	Qty/Pk
SF-RQDF-M	22-18 AWG, 1/4"	30
SF-BQDF-M	16-14 AWG, 1/4"	30

# Installation Accessories

## Double Male-Female Adapter



Flat

Piggy Back

Part #	Description	Qty/Pk
SF-DMF-F	Flat, 1/4"	60
SF-DMF-PB	Piggy Back, 1/4"	40

## Terminal Combination Pack



CP1

CP2

Part #	Description	Qty/Pk
SF-CP1	16-14 AWG Combo, 0.157" (25) Male & (25) Female Snap Plugs	50
SF-CP2	16-14 AWG Combo, 1/4" (25) Male & (25) Female Disconnects Nylon Fully Insulated	50

## Wire Connectors

### High Temperature Porcelain Wire Connector



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USA

Part #	Description	Qty/Pk
SF-HT-WCP1	18-14 GA Min 2-4 18 GA, Max 1-16 GA & 1-14 GA	10
SF-HT-WCP7	18-12 GA Min 2-5 18 GA, Max 1-12 GA & 1-16 GA	10
SF-HT-WCP8	14 GA Min 2-14 GA, Max 3-14 GA	10

## Twist-On Wire Connector



Part #	Description	Qty/Pk
SF-WC-BLUE	22-14 AWG Blue	100
SF-WC-GREY	22-14 AWG Grey	100
SF-WC-ORANGE	22-14 AWG Orange	60
SF-WC-YELLOW	22-10 AWG Yellow	50
SF-WC-RED	22-10 AWG Red	35

## Winged Twist-On Wire Connector



Part #	Description	Qty/Pk
SF-WWC-YELLOW	18-10 AWG Yellow	50
SF-WWC-GREY	18-8 AWG Grey	20
SF-WWC-RED	18-8 AWG Red	30
SF-WWC-BLUE	14-6 AWG Blue	10

## High Temperature Twist-On Wire Connector



Part #	Description	Qty/Pk
SF-HTWCB1	22-18 AWG Black	100
SF-HTWCB1-500	22-18 AWG Black (Jar)	500
SF-HTWCB1-1000	22-18 AWG Black (Jar)	1,000
SF-HTWCB3	22-14 AWG Black	50
SF-HTWCB3-150	22-14 AWG Black (Jar)	150
SF-HTWCB3-300	22-14 AWG Black (Jar)	300

# Installation Accessories

## Bulk Twist-On Wire Connector



Part #	Description	Qty/Pk
SF-WCG-500	22-14 AWG Grey (Jar)	500
SF-WCG-1000	22-14 AWG Grey (Jar)	1,000
SF-WCG-3000	22-14 AWG Grey (Jar)	3,000
SF-WCB-300	22-14 AWG Blue (Jar)	300
SF-WCB-600	22-14 AWG Blue (Jar)	600
SF-WCB-2000	22-14 AWG Blue (Jar)	2,000
SF-WCO-150	22-14 AWG Orange (Jar)	150
SF-WCO-300	22-14 AWG Orange (Jar)	300
SF-WCO-1000	22-14 AWG Orange (Jar)	1,000
SF-WCY-100	22-10 AWG Yellow (Jar)	100
SF-WCY-200	22-10 AWG Yellow (Jar)	200
SF-WCY-750	22-10 AWG Yellow (Jar)	750
SF-WCR-75	22-10 AWG Red (Jar)	75
SF-WCR-125	22-10 AWG Red (Jar)	125
SF-WCR-500	22-10 AWG Red (Jar)	500

## Cable Ties

### Miniature Nylon Cable Tie



Part #	Description	Qty/Pk
SF-0418ST-N	4.1" 18 lb Cable Tie, Natural	100

### Standard Nylon Cable Tie



Part #	Description	Qty/Pk
SF-0750ST-N	7.5" 50 lb Cable Tie, Natural	100
SF-0750ST-B	7.5" 50 lb Cable Tie, UV Black	100
SF-0750ST-B-M	7.5" 50 lb Cable Tie, Black	1,000
SF-1150ST-N	11.2" 50 lb Cable Tie, Natural	100
SF-1150ST-B	11.2" 50 lb Cable Tie, UV Black	100
SF-1150ST-B-M	11.2" 50 lb Cable Tie, Black	1,000
SF-1450ST-N	14.5" 50 lb Cable Tie, Natural	100
SF-1450ST-B	14.5" 50 lb Cable Tie, UV Black	100

### Intermediate Nylon Cable Tie



Part #	Description	Qty/Pk
SF-0540ST-N	5.8" 40 lb Cable Tie Natural	100
SF-0540ST-B	5.8" 40 lb Cable Tie, UV Black	100

### Extra Heavy-Duty Nylon Cable Tie



Part #	Description	Qty/Pk
SF-25175HD-N	25.3" 175 lb Cable Tie, Natural	25
SF-36175HD-N	36" 175 lb Cable Tie, Natural	25
SF-36175HD-B	36" 175 lb Cable Tie, UV Black	25
SF-48175HD-N	48" 175 lb Cable Tie, Natural	25
SF-48175HD-B	48" 175 lb Cable Tie, UV Black	25

# Installation Accessories

## Standard Cable Tie Pack



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Part #	Description	Qty/Pk
SF-0711-N	Assortment 7.5" 50 lb Natural (100) and 11.2" 50 lb Natural (50)	150
SF-0711-B	Assortment 7.5" 50 lb Black (100) and 11.2" 50 lb Black (QTY 50)	150

## Mounting Hole Cable Tie



MADE IN THE USA

Part #	Description	Qty/Pk
SF-0850MH-N	8" 50 lb Mounting Hole, Natural	100
SF-0850MH-B	8" 50 lb Mounting Hole, UV Black	100
SF-1150MH-B	11.7" 50 lb Mounting Hole, UV Black	100

## Cable Tie Mounting Base



MADE IN THE USA

Part #	Description	Qty/Pk
SF-CTMBR3-4-N	0.74" Cable Tie Mounting Base Rubber Adhesive #4 Screw, Natural	25
SF-CTMBR1-0-N	0.99" Cable Tie Mounting Bases Rubber Adhesive # 6 Screw, Natural	25

## Nylon Cable Clamps



Part #	Description	Qty/Pk
SF-CCN1-4	1/4" Nylon Cable Clamp, Natural	100
SF-CCB1-4	1/4" Nylon Cable Clamp, Black	100
SF-CCN3-8	3/8" Nylon Cable Clamp, Natural	100
SF-CCB3-8	3/8" Nylon Cable Clamp, Black	100
SF-CCN1-2	1/2" Nylon Cable Clamp, Natural	100
SF-CCN5-8	5/8" Nylon Cable Clamp, Natural	100

## Wiring Accessories

### Alligator Clip



Part #	Description	Qty/Pk
SF-00285	22 AWG Insulated Mini-Alligator 18" Lead Set, 5 AMP, (5) Colors	1 Set

### Term-Lok® Compressor Repair Kit

- 3-Wire



MADE IN THE USA

Part #	Description	Qty/Pk
SF-TLC-3-8	8 AWG, 5 Ton and Up Unit	1
SF-TLC-3-10	10 AWG, 3 to 5 Ton Unit	1
SF-TLC-3-12	12 AWG, 1 to 3 Ton Unit	1



# Installation Accessories

## Heat Shrinkable Tubing



Part #	Description	Qty/Pk
SF-SWT3-16-6-B	3/16" Single Wall Tubing, Black 6" Length	12
SF-SWT1-4-6-B	1/4" Single Wall Tubing, Black 6" Length	12
SF-DWA-2-6-B	.293" Dual Wall Adhesive Lined, Black 6" Length	12

## Thermoplastic Equipment Wire



Part #	Description	Qty/Pk
SF-TEW16-26-R	16/26 Red TEW	100'
SF-TEW16-26-B	16/26 Black TEW	100'
SF-TEW14-41-W	14/41 White TEW	100'
SF-TEW14-41-R	14/41 Red TEW	100'
SF-TEW14-41-B	14/41 Black TEW	100'
SF-TEW12-65-B	12/65 Black TEW	100'

## Kits

### 16-10 AWG Solderless Terminals Kit



Part #	Description
SF-25-018	16-10 AWG Solderless Terminals Kit High Temperature (Pack of 100)

## Assorted Solderless Terminals Kit



Part #	Description
SF-25-002	Solderless Terminal Kit 18 Compartment Box Contains 450 Piece Assortment

## Ratchet Action Crimp Tool Kit

- Contains all dies required to crimp fully insulated, uninsulated and high temperature terminals



Part #	Description
SF-25-000	Ratchet Action Crimp Tool Kit, (3) Dies

## 22-8 AWG Twist-On Wire Connectors Kit



Part #	Description
SF-25-010	22-8 AWG Twist on Wire Connector Kit, 375 Piece Assortment

## 22-10 AWG Solderless Terminals Kit



Part #	Description
SF-25-011	22-10 AWG Solderless Terminal Kit 300 Pieces and Crimping Tool

# Installation Accessories

## Electrical Products

### Anti-Short Bushing



Part #	Description	Qty/Pk
SF-ASB0-200	5/16" Anti-Short Bushing, Red	200
SF-ASB1-150	3/8" Anti-Short Bushing, Red	150
SF-ASB2-100	7/16" Anti-Short Bushing, Red	100
SF-ASB3-45	1/2" Anti-Short Bushing, Red	45
SF-ASB4-20	3/4" Anti-Short Bushing, Red	20

### Non-Metallic Romex Connector



Part #	Description	Qty/Pk
SF-12ROMEX-50	1/2" Romex Connector, Non-Metallic	50

### Rubber Grommet Assortment



Part #	Description	Qty/Pk
SF-58G-60	5/8", 1/16", 7/8", 1-1/8", & 5/16"	60
SF-00880	1/2", 5/8", 3/4", 7/8", & 1"	5

## Tools

### Cable Tie Removal Tool & Wire Stripper



Part #	Description
SF-AT-MG-1400	18 - 250 lb Cable Tie & 22-12 AWG Wire

### Heavy-Duty Wire Stripper & Cutter



Part #	Description
SF-AT-WS	24-10 AWG Heavy-Duty Wire Stripper & Cutter

### Ratchet Action Terminal Crimp Tool

- Crimps 22-18 AWG (red), 16-14 AWG (blue) and 10-12 AWG (yellow) insulated terminals



Part #	Description
SF-AT-RACT	22-10 AWG Ratchet Action Crimp Tool for Insulated Terminals

### Ratchet Action Flag Terminal Crimp Tool Kit

- Crimps 22-18 AWG (red) and 16-14 AWG (blue) insulated flag terminals



Part #	Description
SF-AT-RACT-F	22-14 AWG Ratchet Action Crimp Tool for Insulated Flag Terminals

# Line Set Ducting

## SpeediChannel™ Line Set Covers

- SpeediChannel™ 6-1/2' long and can be cut-to-size
- UV Resistant, UL listed
- White finish, paintable



### SpeediChannel™

Part #	Mfg #	Description
COV04019	230-D3	3" SpeediChannel™
COV04020	230-D4	4" SpeediChannel™
COV04064	230-D6	6" SpeediChannel™

## 45° Flat Bend



Part #	Mfg #	Description
COV04329	230-FB453	3" 45° Flat Elbow
COV04496	230-FB454	4" 45° Flat Elbow
COV04497	230-FB456	6" 45° Flat Elbow

## 90° Flat Elbow



Part #	Mfg #	Description
ELL01110	230-FB3	3" 90° Flat Elbow
ELL01111	230-FB4	4" 90° Flat Elbow
COV04068	230-FB6	6" 90° Flat Elbow

## 90° Inside Elbow



Part #	Mfg #	Description
ELL01122	230-EB3	3" 90° Inside Elbow
ELL01123	230-EB4	4" 90° Inside Elbow
ELL01124	230-EB6	6" 90° Inside Elbow

## 90° Long Radius Flat Bend Elbow



Part #	Mfg #	Description
ELL01112	230-LFB3	3" 90° Long Radius Flat Elbow
ELL01113	230-LFB4	4" 90° Long Radius Flat Elbow
COV04067	230-LFB6	6" 90° Long Radius Flat Elbow

## 90° Outside Elbow



Part #	Mfg #	Description
ELL01125	230-EIN3	3" 90° Outside Elbow
ELL01126	230-EIN4	4" 90° Outside Elbow
ELL01127	230-EIN6	6" 90° Outside Elbow

## Cap



Part #	Mfg #	Description
CAP01038	230-DC3	3" Cap
CAP01039	230-DC4	4" Cap
CAP01040	230-DC6	6" Cap

## Duct End



Part #	Mfg #	Description
COV04069	230-DE3	3" End Cap
COV04070	230-DE4	4" End Cap
COV04071	230-DE6	6" End Cap

## Flex Joint



Part #	Mfg #	Description
COV04330	230-FJ3	3" Flex Joint
COV04125	230-FJ4	4" Flex Joint

## Reducer Coupling



Part #	Mfg #	Description
COV04495	230-TC46	4" x 6" Reducer Coupling

## T-Joint



Part #	Mfg #	Description
COV04126	230-TJ4	4" T-Joint
COV04494	230-TJ6	6" T-Joint

# Line Set Ducting

## Union Coupling



Part #	Mfg #	Description
CPL01097	230-CP3	3" Union Coupling
CPL01098	230-CP4	4" Union Coupling
CPL01109	230-CP6	6" Union Coupling

## Wall Penetration



Part #	Mfg #	Description
COV04023	230-WC3	3" Wall Penetration Cover
COV04024	230-WC4	4" Wall Penetration Cover
COV04065	230-WC6	6" Wall Penetration Cover
COV04066	230-WS2	2-1/2" Wall Sleeve

## Roof Inlet

- Roof entrance adapters for line sets
- Body is equipped with a slope avoiding possible damage to the insulation



Part #	Mfg #	Description
COV04550	230-INJ465	5" Roof Inlet
COV04551	230-INJ462	10" Roof Inlet

## Flat Wall Escutcheon



Part #	Mfg #	Description
COV04021	230-FR3	3" Flat Wall Escutcheon
COV04022	230-FR4	4" Flat Wall Escutcheon
COV04072	230-FR6	6" Flat Wall Escutcheon

## Wall Escutcheon



Part #	Mfg #	Description
COV04073	230-WR3	3" Roof Inlet
COV04074	230-WR4	4" Roof Inlet
COV04075	230-WR6	6" Roof Inlet

## SpeediChannel™ Accessories

- Fittings for installing DiversiTech's SpeediChannel™ system



Part #	Mfg #	Description
SCR02279	230-DSCREW	Screw 100/Pk
CLP01105	230-DCLIP	4" Clip
CON01581	230-DCLIP-10	4" Clip 10/Pk

## SpeediChannel™ Fitting Starter Kit

- Includes:
  - (1) Coupling
  - (1) Wall penetration
  - (1) Inside elbow
  - (1) Long radius flat bend
  - (1) SpeediClips™
  - (1) 11" Cable ties
  - (1) SpeediChannel™ instruction booklet
  - (3) 48" Channel pieces (230-IKC\* models only)



230-IK3, 230-IK4

Part #	Mfg #	Description
KIT15753	230-IK3	3" Fitting Starter Kit
KIT17356	230-IKC3	3" Fitting Starter Kit with Channel
KIT15754	230-IK4	4" Fitting Starter Kit
KIT17355	230-IKC4	4" Fitting Starter Kit with Channel

## SpeediChannel™ Universal Pump Elbow Kit

- Includes:
  - (3) 48" Channels (230-D3)
  - (1) Wall penetration (230-WC3)
  - (1) Long radius flat bend (230-LFB3)
  - (2) Couplings (230-CP3)
  - (1) Duct end (230-DE3)
  - (2) SpeediClips™ and 11" cable ties (230-DCLIP-10)
  - (1) SpeediChannel™ instruction book

Part #	Mfg #	Description
TOL04225	230-PFB3	3" Complete Kit

# Line Set Ducting

## SpeediChannel™ Mounting Accessories

- 6-1/2' Length can be cut to size
- UV Resistant
- Paintable white finish
- UL Listed



230-B2M



230-AFB3



230-MB17W

Part #	Mfg #	Description
BRK04146	230-B2M	18" Type 2 Wall Bracket (Med)
BRK04383	230-B3M	18" Type 3 Wall Bracket (Med)
BRK04147	230-B2L	21" Type 2 Wall Bracket (Lrg)
BRK04382	230-B3L	21" Type 3 Wall Bracket (Lrg)
ELL01245	230-AFB3	3" Adjustable Flat Bend
ELL01246	230-AFB4	4" Adjustable Flat Bend
COV04741	230-TC34	3" x 4" Reducer Coupling
FTG01284	230-SF3	3" Soffit Fitting
FTG01285	230-SF4	4" Soffit Fitting
BLK01445	230-MB14W	14" Mounting Block White
BLK01446	230-MB17W	17" Mounting Block White
BLK01447	230-MB36W	36" Mounting Block White
BLK01448	230-MBCW	Mounting Block End Cap

## Line Set Ducting System

- Perfect for mini splits, high velocity and conventional split A/C
- UV and Weather-resistant, strong rigid PVC
- Protects line sets, wiring and drain pipes
- Temperature range: 0° to 180°F
- Paintable

### 96" Length of PVC Ducting

- Includes (2) line set ducting clips



Part #	Mfg #	Model	Duct Size	Color
DUC01488	84004	LD92W	3-1/2"	White
DUC01489	84024	LD92I	3-1/2"	Ivory
DUC01491	84064	LD92B	3-1/2"	Brown
DUC01490	84044	LD92G	3-1/2"	Gray

## Coupler

- Includes (2) #6 x 3/4" stainless steel screws



Part #	Mfg #	Model	Duct Size	Color
CPL01253	84010	LJ92W	3-1/2"	White
CPL01254	84030	LJ92I	3-1/2"	Ivory
CPL01255	84250	LJ92G	3-1/2"	Gray
CPL01256	84270	LJ92B	3-1/2"	Brown

## Wall Inlet

- Includes (4) #6 x 3/4" stainless steel screws



Part #	Mfg #	Model	Duct Size	Color
FTG01303	84016	LW92W	3-1/2"	White
FTG01304	84036	LW92I	3-1/2"	Ivory
FTG01305	84256	LW92G	3-1/2"	Gray
FTG01306	84276	LW92B	3-1/2"	Brown

## Soffit Inlet

- Includes (2) #6 x 3/4" stainless steel screws



Part #	Mfg #	Model	Duct Size	Color
FTG01295	84014	LP92W	3-1/2"	White
FTG01296	84034	LP92I	3-1/2"	Ivory
FTG01297	84254	LP92G	3-1/2"	Gray
FTG01298	84274	LP92B	3-1/2"	Brown

## End Fitting

- Includes (2) #6 x 3/4" stainless steel screws



Part #	Mfg #	Model	Duct Size	Color
FTG01291	84007	LEN92W	3-1/2"	White
FTG01292	84027	LEN92I	3-1/2"	Ivory
FTG01293	84247	LEN92G	3-1/2"	Gray
FTG01294	84267	LEN92B	3-1/2"	Brown

# Line Set Ducting

## Tee

- Includes (4) #6 x 3/4" stainless steel screws



Part #	Mfg #	Model	Duct Size	Color
TEE01143	84015	LT92W	3-1/2"	White
TEE01144	84035	LT92I	3-1/2"	Ivory
TEE01145	84255	LT92G	3-1/2"	Gray
TEE01146	84275	LT92B	3-1/2"	Brown

## 90° Flat Elbow

- Includes (2) #6 x 3/4" stainless steel screws



Part #	Mfg #	Model	Duct Size	Color
ELL01261	84011	LK92W	3-1/2"	White
ELL01262	84031	LK92I	3-1/2"	Ivory
ELL01263	84251	LK92G	3-1/2"	Gray
ELL01264	84271	LK92B	3-1/2"	Brown

## 45° Flat Elbow

- Includes (2) #6 x 3/4" stainless steel screws



Part #	Mfg #	Model	Duct Size	Color
ELL01249	84012	LKF92W	3-1/2"	White
ELL01250	84032	LKF92I	3-1/2"	Ivory
ELL01251	84252	LKF92G	3-1/2"	Gray
ELL01252	84272	LKF92B	3-1/2"	Brown
ELL01281	84112	LKF122W	4-1/2"	White
ELL01282	84132	LKF122I	4-1/2"	Ivory
ELL01283	84352	LKF122G	4-1/2"	Gray
ELL01284	84372	LKF122B	4-1/2"	Brown

## 45° Inside Vertical Elbow

- Includes (2) #6 x 3/4" stainless steel screws



Part #	Mfg #	Model	Duct Size	Color
ELL01253	84000	LCF92W	3-1/2"	White
ELL01254	84020	LCF92I	3-1/2"	Ivory
ELL01255	84240	LCF92G	3-1/2"	Gray
ELL01256	84260	LCF92B	3-1/2"	Brown
ELL01285	84100	LCFI122W	4-1/2"	White
ELL01286	84120	LCFI122I	4-1/2"	Ivory
ELL01287	84340	LCFI122G	4-1/2"	Gray
ELL01288	84360	LCFI122B	4-1/2"	Brown

## 45° Outside Vertical Elbow

- Includes (2) #6 x 3/4" stainless steel screws



Part #	Mfg #	Model	Duct Size	Color
ELL01257	84001	LCF092W	3-1/2"	White
ELL01258	84021	LCF092I	3-1/2"	Ivory
ELL01259	84241	LCF092G	3-1/2"	Gray
ELL01260	84261	LCF092B	3-1/2"	Brown
ELL01289	84101	LCFO122W	4-1/2"	White
ELL01290	84121	LCFO122I	4-1/2"	Ivory
ELL01291	84341	LCFO122G	4-1/2"	Gray

## 90° Inside Vertical Elbow

- Includes (2) #6 x 3/4" stainless steel screws



Part #	Mfg #	Model	Duct Size	Color
ELL01265	84002	LCI92W	3-1/2"	White
ELL01266	84022	LCI92I	3-1/2"	Ivory
ELL01267	84242	LCI92G	3-1/2"	Gray
ELL01268	84262	LCI92B	3-1/2"	Brown



# Line Set Ducting

## 90° Outside Vertical Elbow

- Includes (2) #6 x 3/4" stainless steel screws



Part #	Mfg #	Model	Duct Size	Color
ELL01269	84003	LCO92W	3-1/2"	White
ELL01270	84023	LCO92I	3-1/2"	Ivory
ELL01271	84243	LCO92G	3-1/2"	Gray
ELL01272	84263	LCO92B	3-1/2"	Brown

## 90° Sweep Elbow

- Includes (7) #6 x 3/4" stainless steel screws



Part #	Mfg #	Model	Duct Size	Color
ELL01273	84013	LKS92W	3-1/2"	White
ELL01274	84033	LKS92I	3-1/2"	Ivory
ELL01275	84253	LKS92G	3-1/2"	Gray
ELL01276	84273	LKS92B	3-1/2"	Brown

## Flexible Elbow



Part #	Mfg #	Model	Duct Size	Color
ELL01277	84008	LF92W	3-1/2"	White
ELL01278	84028	LF92I	3-1/2"	Ivory
ELL01279	84248	LF92G	3-1/2"	Gray
ELL01280	84268	LF92B	3-1/2"	Brown

## Flexible Elbow Adapter

- Includes (4) #6 x 3/4" stainless steel screws



Part #	Mfg #	Model	Duct Size	Color
ADP01373	84009	LFJ92W	3-1/2"	White
ADP01374	84029	LFJ92I	3-1/2"	Ivory
ADP01375	84249	LFJ92G	3-1/2"	Gray
ADP01376	84269	LFJ92B	3-1/2"	Brown

## Wall Flange



Part #	Mfg #	Model	Duct Size	Color
FLG01358	84017	LWF92W	3-1/2"	White
FLG01359	84037	LWF92I	3-1/2"	Ivory
FLG01360	84257	LWF92G	3-1/2"	Gray
FLG01361	84277	LWF92B	3-1/2"	Brown

## 12" Wall Duct Kit

- Assures complete flexibility of installation
- Professional grade ducting, protects and hides unsightly mini-split line sets in a snap
- Protects line set, wiring and drain hose from weather, vandalism, pet and pest damage
- Fortress installs quickly, and can be easily accessed for repairs or replacement of the line set



### Includes:

- (3) 4' Duct lengths (LD1221)
- (2) Couplers (LJ122)
- (1) Wall inlet (LW122)
- (1) End fitting (LEN122)
- (1) 90° Flat ell (LK122)



Part #	Mfg #	Model	Duct Size	Color
DUC01486	84005	LDK92W	3-1/2"	White
DUC01487	84025	LDK92I	3-1/2"	Ivory
KIT17393	84045	LDK92G	3-1/2"	Gray
KIT17394	84065	LDK92B	3-1/2"	Brown
KIT17178	84105	LDK122W	4-1/2"	White
DUC01485	84125	LDK122I	4-1/2"	Ivory
KIT17395	84145	LDK122G	4-1/2"	Gray
KIT17396	84165	LDK122B	4-1/2"	Brown

# Line Set Ducting

## SlimDuct® Line Set Ducting

- (3) Colors for residential and commercial applications
- Professional-grade rigid polyvinyl chloride
- UV, Weather and fire-resistant
- Available in (3) sizes:
  - 77mm = 2-3/4"
  - 100mm = 3-3/4"
  - 149mm = 5-1/2"
- 1-Year warranty



## 78" Length of PVC Ducting

**SLIMDUCT<sup>INC.</sup>**

Part #	Mfg #	Model	Duct Size	Color
DUC01113	85024	SD77I	2-3/4"	Ivory
DUC01114	85064	SD77B	2-3/4"	Brown
DUC01266	85104	SD100W	3-3/4"	White
DUC01115	85124	SD100I	3-3/4"	Ivory
DUC01116	85164	SD100B	3-3/4"	Brown
DUC01121	85204	SD140W	5-1/2"	White
DUC01120	85224	SD140I	5-1/2"	Ivory
DUC01122	85264	SD140B	5-1/2"	Brown

## Wall Inlet

- Includes (2) 3/4" self-tap screws

**SLIMDUCT<sup>INC.</sup>**



Part #	Mfg #	Model	Duct Size	Color
FTG01026	86016	SW77W	2-3/4"	White
FTG01032	86036	SW77I	2-3/4"	Ivory
FTG01035	85376	SW77B	2-3/4"	Brown
FTG01135	86116	SW100W	3-3/4"	White
FTG01038	86136	SW100I	3-3/4"	Ivory
FTG01041	85476	SW100B	3-3/4"	Brown
FTG01056	SW140W	SW140W	5-1/2"	White
FTG01053	85236	SW140I	5-1/2"	Ivory
FTG01059	85576	SW140B	5-1/2"	Brown

## 90° Vertical Elbow

- Includes (2) 3/4" self-tap screws

**SLIMDUCT<sup>INC.</sup>**



Part #	Mfg #	Model	Duct Size	Color
ELL01052	86002	SC77W	2-3/4"	White
ELL01050	86022	SC77I	2-3/4"	Ivory
ELL01054	85362	SC77B	2-3/4"	Brown
ELL01058	86102	SC100W	3-3/4"	White
ELL01056	86122	SC100I	3-3/4"	Ivory
ELL01060	85462	SC100B	3-3/4"	Brown
ELL01064	85202	SC140W	5-1/2"	White
ELL01062	85222	SC140I	5-1/2"	Ivory
ELL01066	85562	SC140B	5-1/2"	Brown

## 45° Vertical Elbow

- Includes (2) 3/4" self-tap screws

**SLIMDUCT<sup>INC.</sup>**



Part #	Mfg #	Model	Duct Size	Color
ELL01076	85000	SCF77W	2-3/4"	White
ELL01074	85020	SCF77I	2-3/4"	Ivory
ELL01078	85360	SCF77B	2-3/4"	Brown
ELL01082	86100	SCF100W	3-3/4"	White
ELL01081	86120	SCF100I	3-3/4"	Ivory
ELL01083	85460	SCF100B	3-3/4"	Brown
ELL01086	85200	SCF140W	5-1/2"	White
ELL01085	85220	SCF140I	5-1/2"	Ivory
ELL01087	85560	SCF140B	5-1/2"	Brown

## 90° Flat Elbow

- Includes (3) 3/4" self-tap screws

**SLIMDUCT<sup>INC.</sup>**



Part #	Mfg #	Model	Duct Size	Color
ELL01031	86011	SK77W	2-3/4"	White
ELL01033	86031	SK77I	2-3/4"	Ivory
ELL01034	85371	SK77B	2-3/4"	Brown
ELL01108	86111	SK100W	3-3/4"	White
ELL01035	86131	SK100I	3-3/4"	Ivory
ELL01036	85471	SK100B	3-3/4"	Brown
ELL01041	85211	SK140W	5-1/2"	White
ELL01040	85231	SK140I	5-1/2"	Ivory
ELL01042	85571	SK140B	5-1/2"	Brown



# Line Set Ducting

## 45° Flat Elbow

- Includes (2) 3/4" self-tap screws



**SLIMDUCT**<sup>INC.</sup>

Part #	Mfg #	Model	Duct Size	Color
ELL01051	85012	SKF77W	2-3/4"	White
ELL01053	85372	SKF77B	2-3/4"	Brown
ELL01057	86112	SKF100W	3-3/4"	White
ELL01055	86132	SKF100I	3-3/4"	Ivory
ELL01059	85472	SKF100B	3-3/4"	Brown
ELL01063	85212	SKF140W	5-1/2"	White
ELL01061	85232	SKF140I	5-1/2"	Ivory
ELL01065	85572	SKF140B	5-1/2"	Brown

## Coupler

- Includes (2) 3/4" self-tap screws



**SLIMDUCT**<sup>INC.</sup>

Part #	Mfg #	Model	Duct Size	Color
CPL01057	86010	SJ77W	2-3/4"	White
CPL01059	86030	SJ77I	2-3/4"	Ivory
CPL01060	85370	SJ77B	2-3/4"	Brown
CPL01058	86110	SJ100W	3-3/4"	White
CPL01061	86130	SJ100I	3-3/4"	Ivory
CPL01062	85470	SJ100B	3-3/4"	Brown
CPL01067	86210	SJ140W	5-1/2"	White
CPL01066	86230	SJ140I	5-1/2"	Ivory
CPL01068	85570	SJ140B	5-1/2"	Brown

## Rear Entry Coupler

- Includes (2) 3/4" self-tap screws



**SLIMDUCT**<sup>INC.</sup>

Part #	Mfg #	Model	Duct Size	Color
KIT12153	86299	SJA140I	3-1/4" x 7-1/8"	Ivory

## Flexible Adapter

- Includes (2) 3/4" self-tap screws



**SLIMDUCT**<sup>INC.</sup>

Part #	Mfg #	Model	Duct Size	Color
ADP01114	85009	SFJ77W	2-3/4"	White
ADP01113	85029	SFJ77I	2-3/4"	Ivory
ADP01115	85369	SFJ77B	2-3/4"	Brown
ADP01117	85109	SFJ100W	3-3/4"	White
ADP01116	85129	SFJ100I	3-3/4"	Ivory
ADP01119	85469	SFJ100B	3-3/4"	Brown

## Reducer

- Includes (2) 3/4" self-tap screws



**SLIMDUCT**<sup>INC.</sup>

Part #	Mfg #	Model	Duct Size	Color
FTG01073	85106	SDR10077W	3-3/4 - 2-3/4"	White
FTG01071	85126	SDR10077I	3-3/4 - 2-3/4"	Ivory
FTG01075	85466	SDR10077B	3-3/4 - 2-3/4"	Brown
FTG01077	86226	SDR140100I	5-1/2 - 3-3/4"	Ivory
FTG01079	85566	SDR140100B	5-1/2 - 3-3/4"	Brown

## End Fitting

- Includes (2) 3/4" self-tap screws



**SLIMDUCT**<sup>INC.</sup>

Part #	Mfg #	Model	Duct Size	Color
FTG01028	86007	SEN77W	2-3/4"	White
FTG01034	86027	SEN77I	2-3/4"	Ivory
FTG01037	85367	SEN77B	2-3/4"	Brown
FTG01031	86107	SEN100W	3-3/4"	White
FTG01040	86127	SEN100I	3-3/4"	Ivory
FTG01043	85467	SEN100B	3-3/4"	Brown
FTG01058	86207	SEN140W	5-1/2"	White
FTG01055	86227	SEN140I	5-1/2"	Ivory
FTG01061	85567	SEN140B	5-1/2"	Brown

# Line Set Ducting

## Soffit Inlet

**SLIMDUCT<sup>INC.</sup>**



Part #	Mfg #	Model	Duct Size	Color
FTG01027	85014	SP77W	2-3/4"	White
FTG01033	85034	SP77I	2-3/4"	Ivory
FTG01036	85374	SP77B	2-3/4"	Brown
FTG01138	86114	SP100W	3-3/4"	White
FTG01039	86134	SP100I	3-3/4"	Ivory
FTG01042	85474	SP100B	3-3/4"	Brown
FTG01057	85214	SP140W	5-1/2"	White
FTG01054	85234	SP140I	5-1/2"	Ivory
FTG01060	85574	SP140B	5-1/2"	Brown

## 2" Fixed Offset

- Includes (4) 3/4" self-tap screws

**SLIMDUCT<sup>INC.</sup>**



Part #	Mfg #	Model	Duct Size	Color
FTG01066	86038	SIF77I	2-3/4"	Ivory
FTG01070	85378	SIF77B	2-3/4"	Brown
FTG01074	86118	SIF100W	3-3/4"	White
FTG01072	86138	SIF100I	3-3/4"	Ivory
FTG01076	85478	SIF100B	3-3/4"	Brown

## Flexible Elbow

- Can be used up to 90° flat bend

**SLIMDUCT<sup>INC.</sup>**



Part #	Mfg #	Model	Duct Size	Color
ELL01077	85008	SF77500W	2-3/4" x 20"	White
ELL01075	85028	SF77500I	2-3/4" x 20"	Ivory
ELL01080	85188	SF771000I	2-3/4" x 39"	Ivory
ELL01079	85368	SF77500B	2-3/4" x 20"	Brown
ELL01084	86128	SF100800I	3-3/4" x 31"	Ivory
ELL01512	85208	SF140800W	5-1/2" x 31"	White
ELL01088	85228	SF140800I	5-1/2" x 31"	Ivory

## Saddle for Flexible Elbow

- Stainless steel
- Used to secure flexible elbows

**SLIMDUCT<sup>INC.</sup>**



Part #	Mfg #	Model	Size
FTG01083	86001	SFS77	2-3/4"
FTG01082	86101	SFS100	3-3/4"
FTG01081	86201	SFS140	5-1/2"

## Tee

**SLIMDUCT<sup>INC.</sup>**



Part #	Mfg #	Model	Duct Size	Color
TEE00961	86015	ST77W	2-3/4"	White
TEE00960	86035	ST77I	2-3/4"	Ivory
TEE00962	85375	ST77B	2-3/4"	Brown
TEE00964	86115	ST100W	3-3/4"	White
TEE00963	86135	ST100I	3-3/4"	Ivory
TEE00965	85475	ST100B	3-3/4"	Brown
TEE00967	85215	ST140W	5-1/2"	White
TEE00966	85235	ST140I	5-1/2"	Ivory
TEE00968	85575	ST140B	5-1/2"	Brown

## PVC Duct Systems for Light Commercial VRF & Industrial Line Sets

- Protects line sets
- Fire-resistant and UV stable rigid PVC
- Application: offset from vertical or horizontal surface
- Temperature range: -4° to 140°F surface

### PD Series Line Set Cover



Part #	Mfg #	Ref #	Description
BRK04512	86426	PDTM80	3" Mounting Brkt*
BRK04513	86427	PDTM100	4" Mounting Brkt*

\*Tee type

# Locking Refrigerant Caps

## GasGuard™ Keyless Locking Refrigerant Caps

- Resists crushing and removal without socket tool
- Corrosion-resistant stainless steel
- Locking cap has no keyhole to clog
- Integral neoprene O-ring resists oils and sealants

### GasGuard™ Green 1/4" Thread R-22 Socket



86611

Part #	Mfg #	Description
CAP01266	86610	Socket Tool w/2 Caps
CAP01267	86611	(10) Cap Blister Pack
CAP01268	86612	(2) Cap Pack
CAP01269	86613	(50) Cap Pack
CAP01270	86616	(100) Cap Pack

### GasGuard™ Pink 1/4" Thread R-410 Socket



86630

Part #	Mfg #	Description
CAP01273	86630	Socket Tool w/2 Caps
CAP01275	86632	(2) Cap Pack
CAP01274	86631	(10) Cap Blister Pack
CAP01276	86633	(50) Cap Pack
CAP01277	86636	(100) Cap Pack
CAP01265	86609	(10) 5/16" Socket Tool Only

## GasGuard™ Silver 1/4" Thread R-410 Socket



86640

Part #	Mfg #	Description
CAP01278	86640	Universal Socket Tool w/2 Caps
CAP01280	86642	Universal (2) Cap Pack
CAP01279	86641	Universal (10) Cap Blister Pack
CAP01281	86643	Universal (50) Cap Pack
CAP01282	86646	Universal (100) Cap Pack

## GasGuard™ Silver 5/16" Thread R-410 Socket



86650

Part #	Mfg #	Description
CAP01283	86650	Universal Socket Tool w/2 Caps
CAP01272	86622	Universal (2) Cap Pack
CAP01271	86621	Universal (10) Cap Blister Pack

## Novent® Locking Refrigerant Caps

### Green 1/4" Thread R-22 Socket Refrigerant Cap

- Tamper resistant
- Seal service valve to prevent leaks
- Help prevent illegal venting or accidental mixing of refrigerant
- Color-coded for easy ID
- Corrosion resistant
- Integral torque limiter



86662



Part #	Mfg #	Description
CAP01213	86661	(1) Cap Blister Pack
CAP01212	86662	(2) Cap Blister Pack
CAP01214	86663	(50) Cap Box

# Locking Refrigerant Caps

## Pink 1/4" Thread R-410A Socket Refrigerant Cap

- Tamper resistant
- Seal service valve to prevent leaks
- Help prevent illegal venting or accidental mixing of refrigerant
- Color-coded for easy ID
- Corrosion resistant
- Integral torque limiter



Part #	Mfg #	Description
CAP01206	86682	(2) Cap Blister Pack
CAP01210	86681	(10) Cap Blister Pack
CAP01211	86683	(50) Cap Box

## Silver 1/4" Thread Any Gas Refrigerant Cap

- Tamper resistant
- Seal service valve to prevent leaks
- Help prevent illegal venting or accidental mixing of refrigerant
- Color-coded for easy ID
- Corrosion resistant
- Integral torque limiter



Part #	Mfg #	Description
CAP01215	86692	(2) Cap Blister Pack
CAP01216	86691	(10) Cap Blister Pack
CAP01217	86693	(50) Cap Box

## Locking Refrigerant Cap Kit

- Tamper resistant
- Seal service valve to prevent leaks
- Help prevent illegal venting or accidental mixing of refrigerant
- Color-coded for easy ID
- Corrosion resistant
- Integral torque limiter



Part #	Mfg #	Description
CAP01187	86690	(6) UNI Caps & (1) Multi-key Starter -Pack
CAP01186	86680	(6) 1/4" Pink R-410A w/Euro Screwdriver Tool
CAP01185	86668	(3) Green R-22 Caps (3) Red R-410A Cap (1) Multi-key

## Refrigerant Cap Keys

### Multi-Key Refrigerant Cap Key

- Unlocks all Novent caps



Part #	Mfg #	Description
TOL03957	86698	(1) Multi-key Blister Pack

### Screwdriver Refrigerant Cap Key



Part #	Mfg #	Description
TOL03958	86688	Unlocks Pink & Euro Pink Caps
TOL03959	86660	Unlocks Green & Silver Caps

## SHIELD™ Access Valve Locking Caps

- All brass design eliminates corrosion
- Deters refrigerant theft
- Made in USA



## SHIELD™ Locking Cap - 4/Pack

- Includes:
  - (4) Locking caps
  - (1) Bit
  - (4) Warning stickers
  - Waterproof sleeves



Part #	Mfg #	Size	Refrigerant	Color
SHLD-U4	SHLD-U4	1/4"	Universal	Black
SHLD-G4	SHLD-G4	1/4"	R-22	Green
SHLD-P4	SHLD-P4	1/4"	R-410A	Pink

# Access Valves

## SHIELD™ Locking Cap - 12/Pack

- Includes:
  - (12) Locking caps
  - (1) Bit
  - (4) Warning stickers
  - Waterproof sleeves



Part #	Mfg #	Size	Refrigerant	Color
SHLD-G12	SHLD-G12	1/4"	R-22	Green
SHLD-P12	SHLD-P12	1/4"	R-410A	Pink
SHLD-E12	SHLD-E12	5/16"	Universal	Black

## SHIELD™ Locking Cap - 50/Pack

- Bit and driver make tamper-resistant key
- Includes:
  - (50) Locking caps
  - (1) Bit
  - (1) 3" Stubby driver
  - (10) Warning stickers
  - Waterproof sleeves



Part #	Mfg #	Size	Refrigerant	Color
SHLD-U50	SHLD-U50	1/4"	Universal	Black
SHLD-G50	SHLD-G50	1/4"	R-22	Green
SHLD-P50	SHLD-P50	1/4"	R-410A	Pink
SHLD-E50	SHLD-E50	5/16"	Universal	Black

## SHIELD™ Locking Cap - 100/Pack

- Bit and driver make tamper-resistant key
- Includes:
  - (100) Locking caps
  - (2) Bits with 8" driver
  - (200) Warning stickers
  - Waterproof sleeves



Part #	Mfg #	Size	Refrigerant	Color
SHLD-U100	SHLD-U100	1/4"	Universal	Black

## SHIELD™ Tools

### SHIELD™ Screwdriver

- Magnetic
- Includes (1) bit



Part #	Mfg #	Description
SHLD-3-Driver	SHLD-3-DRIVER	SHIELD™ 3" Magnetic Stubby Driver with Bit
SHLD-8-Driver	SHLD-8-DRIVER	SHIELD™ 8" Magnetic Driver with Bit

### SHIELD™ Screwdriver Combo

- Includes:
  - 3" Stubby driver
  - 8" Driver
  - (2) Bits



Part #	Mfg #	Description
SHLD-COMBO	SHLD-COMBO-DRIVER	SHIELD™ Screwdriver Combo

### SHIELD™ Bit Key

- For SHIELD™ locking caps
- Tamper-proof
- 2/Pack



Part #	Mfg #	Description
SHLD-Bit	SHLD-BIT	Tamper-Proof Bit for SHIELD™

# Access Valves

## SHIELD™ Accessories



Part #	Mfg #	Description
SHLD-CJ	SHLD-CJ	Empty SHIELD™ Cookie Jar for Storing (150) SHIELD™ Caps
SHLD-SLU20	SHLD-SLU20	Universal Black SHIELD™ Sleeves, 20/Pack
SHLD-SLG20	SHLD-SLG20	R-22 Green SHIELD™ Sleeves, 20/Pack
SHLD-SLP20	SHLD-SLP20	R-410A Pink SHIELD™ Sleeves, 20/Pack



# Lubricants

## Aerosol Lubricants

### Break-n-Lube Lubricant



- Penetrates, lubricates, displaces moisture, and provides superior resistance to corrosion
- Made with CERFLON®

Part #	Mfg #	Description
CHM00706	4128-03	12 oz Aerosol

### V-Belt Dressing

- Penetrates and extends modern v-belt life
- Keeps belt pliable
- USDA Approved



Part #	Mfg #	Description
CHM00326	4086-03	16 oz Aerosol

## Lubricants

### Penetrate HD® Super Penetrating Oil

- Frees stuck fan blades, blower shafts, pulleys, rusted nuts and bolts
- Low surface tension formula penetrates into the smallest spaces and breaks and dissolves the bonds of rust and corrosion
- For industrial and professional use only



Part #	Mfg #	Description
CHM01080	61105	12 oz Can
CHM01401	61107	12 oz Can, Low VOC for California
CHM01081	61106	17 oz Can
CHM01402	61108	17 oz Can, Low VOC for California

## Lubricants & Penetrants

### Lets-Go™

- Lubricant, penetrant, freeze-up preventer
- Displaces moisture from wiring and equipment
- Includes extension tube applicator for pin-point spraying



Part #	Mfg #	Description
CHM01308	73012	12 oz Aerosol

### RectorSeal® Plumber's Grease

- Lubricates faucets, stems and valves



Part #	Mfg #	Description
CHM01377	50811	2 oz Jar

### RectorSeal® Pipe Lubricant

- NSF 61 Certified



Part #	Mfg #	Description
CHM01376	97700	2 lbs

# Mini-Split Installation Accessories

## RectorSeal® NoKink™ Flexible Refrigerant Line Connector



- Kink-free connections between the refrigerant line and a wall-mount mini split evaporator
- Can be used when installing air conditioning units when connecting either the evaporator on condenser unit
- 3" Copper stubs for quick connection
- Allows for easy flaring
- Operating pressure rating: up to 800 psi

Part #	Mfg #	Description
CON01759	66731	1/4" x 36"
CON01837	68231	1/4" x 72"
CON01760	66733	3/8" x 36"
CON01838	68233	3/8" x 72"
CON01761	66737	1/2" x 36"
CON01839	68237	1/2" x 72"
CON01762	66735	5/8" x 36"
CON01840	68235	5/8" x 72"
CON01835	66732	3/4" x 36"
CON01836	66734	7/8" x 36"

## Specialty Brackets

### Under Window Bracket



- Galvanized steel
- Top cross bar
- Ideal for window type A/C support
- Includes mounting hardware

Part #	Mfg #	Size	Capacity
BRK03483	87731	11-1/4" x 16-3/4" x 29-1/2"	176 lbs

## Wall Condenser Bracket



- Stainless steel
- Sliding cross bar
- 87735 = Powder-coated
- Includes:
  - Crossbar
  - (2) Bracket arms
  - (4) Anti vibration mounts
  - (4) 1" Bolt
  - (1) Self-adhesive level
  - (6) 2" Lag screws
  - (6) 2" Anchors
  - (4) Clip nuts

Part #	Mfg #	Size	Capacity
BRK03940	87733	18" x 33-1/2" x 22"	300 lbs
BRK03941	87734	18" x 33-1/2" x 22"	300 lbs
BRK03942	87735	18" x 33-1/2" x 24"	500 lbs

## Outdoor Condenser Duplex Stand



- Steel with powder-coat finish
- Includes mounting hardware

Part #	Mfg #	Size	Capacity
BRK03486	87744	36-1/4" x 17" x 36"	132 lbs

## Underslab Condenser Bracket



- Steel with powder-coat finish
- Permits condenser to be supported under a slab, overhang or ceiling
- Includes mounting hardware

Part #	Mfg #	Maximum W x D	Capacity
BRK03487	87742	28" x 13"	132 lbs





# Mini-Split Installation Accessories

## Slab Stand

- Powder-coat finish
- Raises condenser up above a surface
- Independently adjustable feet



Part #	Mfg #	Maximum W x D	Capacity
BRK03484	87743	27-1/2" x 13-1/4"	176 lbs

## Mighty Bracket™ Mini-Split Installation Support Bracket

- Hooks onto mini-split mounting plate to hold mini-split unit securely in place during installation
- Simple clip-on support
- Does not damage walls
- For use with all brands of mini-split systems



Part #	Mfg #	Description
BRK04558	97705	Installation Support Bracket

## Big Foot System Equipment Mounting

- For mounting on all flat roof construction
- Mounting is strong, secure, flexible, vibration absorbing and leak-proof while keeping installation quick
- Practical and aesthetically pleasing
- Galvanized steel construction
- Adjustable leg height for leveling
- Components:
  - Plain bars
  - Cross bars
  - Leg assemblies
  - AV Mats
  - Clamp kit

## Fix-It-Foot Risers



Part #	Mfg #	Model	Size
BAS02728	87776	RMB40	40"



# PVC Products

## Polyethylene Tubing

- For drinking water lines, evaporator coolers, and radiant heating
- Non-toxic
- 1/4" OD
- 150 psi @ 70°F



Part #	Mfg #	Size	Length
TUB11244	PE-104	11/64"	100'/Roll

## PVC Condensate Pipe



Straight End



Bell End

Part #	Mfg #	Size	Type	End
PIP01726	5-2002	3/4" x 10'	200 psi	Straight
PIP01730	5-2005	3/4" x 20'	200 psi	Bell
PIP01725	5-401	3/4" x 10'	Sch 40	Straight
PIP01729	5-407	3/4" x 10'	Sch 40	Bell
PIP01728	5-404	2" x 10'	40/DWV	Straight
PIP01727	5-405	3" x 10'	40/DWV	Straight
PIP	5-416	1" x 20'	Sch 40	Bell
PIP01195	5-417	1-1/4" x 20'	Sch 40	Bell
PIP01196	5-418	1-1/2" x 20'	Sch 40	Bell

## FlowGuard® Gold™ CPVC-CTS Pipe



Part #	Mfg #	Size
PIP01114	4700-12	1/2" x 10'
PIP01115	4700-34	3/4" x 10'

## PVC DWV Fittings

### Couplings (Hub)



Part #	Mfg #	Size
CPL01007	5-100020	2"
CPL01396	510-D102251	2" x 1-1/2"
CPL01008	5-100030	3"
CPL01009	510-D102338	3" x 2"

### 45° Elbow (Hub)



Part #	Mfg #	Size
ELL00970	5-321020	2"
ELL00971	5-321030	3"
ELL01129	510-D323020	2" Street Elbow (Hub x SPIG)
ELL01130	510-D323030	3" Street Elbow (Hub x SPIG)

### 90° Elbow (Hub)



Part #	Mfg #	Size
ELL00966	5-300020	2"
ELL00968	5-300030	3"

### 90° Elbow (FPT)



Part #	Mfg #	Description
ELL01517	5-408007	90° Elbow

### 90° Long Sweep Elbow (Hub)



Part #	Mfg #	Size
ELL00969	510-D304030	3" Long Sweep
ELL00967	510-D304020	2" Long Sweep



# PVC Products

## 90° Street Elbow (Spgt x Hub)



Part #	Mfg #	Size
ELL01134	510-D309020	2"
ELL01135	510-D309030	3"

## Reducing Bushing (Spgt x FPT)



Part #	Mfg #	Size
510-438338	510-438338	3" x 2"

## 90° Long Sweep Street Elbow (Hub x Spgt)



Part #	Mfg #	Size
5-300050	5-300050	2"
5-300060	5-300060	2-1/4"

## PVC Schedule 40 Pressure Fittings

### 45° EII (Slip)



Part #	Mfg #	Size
ELL01017	5-417005	1/2"
FTG01148	5-417007	3/4"
ELL00993	5-417010	1"
5-417012	5-417012	1-1/4"
ELL00977	5-417020	2"
5-417025	5-417025	2-1/2"
ELL00978	5-417030	3"

## Plastic DWV Swiveling J-Hook



Part #	Mfg #	Size
HLD00281	515-J2000	2" x 7-1/2"
HLD00282	515-J3000	3" x 7-1/2"

## 90° EII (Slip x FPT)



Part #	Mfg #	Size
5-407005	5-407005	1/2"
ELL00982	5-407007	3/4"
5-407015	5-407015	1-1/2"
5-407020	5-407020	2"
5-407025	5-407025	2-1/2"
5-407030	5-407030	3"

## Vent Tee (Hub)



Part #	Mfg #	Size
TEE01011	510-D441020	2"

## Reducing Bushing (Spgt x S)



Part #	Mfg #	Size
BUS02169	5-437251	2" x 1-1/2"
510-437338	510-437338	3" x 2"

## 90° Reducing EII (Slip x FPT)



Part #	Mfg #	Size
ELL01018	5-407074	1/2" x 3/4"
5-407130	5-407130	1" x 1/2"
5-407131	5-407131	1" x 3/4"



# PVC Products

## 90° EII (Slip)



Part #	Mfg #	Size
ELL01016	5-406005	1/2"
FTG01147	5-406007	3/4"
ELL00992	5-406010	1"
ELL01030	5-406020	2"
ELL00976	5-406030	3"

## 90° Reducing EII (Slip)



Part #	Mfg #	Size
ELL01027	5-406101	3/4" x 1/2"
ELL01028	5-406130	1" x 1/2"
ELL01029	5-406131	1" x 3/4"

## 90 Street EII (MPT x Slip)



Part #	Mfg #	Size
5-410005	5-410005	1/2"
ELL01020	5-410007	3/4"
ELL01109	5-410010	1"

## 90 Street EII (Spigot x Slip)



Part #	Mfg #	Size
5-409005	5-409005	1/2"
FTG00969	5-409007	3/4"
ELL00995	5-409010	1"
5-409015	5-409015	1-1/2"
5-409020	5-409020	2"

## Rubber Elbow

- Allows for quick disconnect/reconnect of drain lines
- 60 DURO EPDM



Part #	Mfg #	Size
ELL01015	5-520	3/4"

## Cap (FPT)



Part #	Mfg #	Size
CAP00978	5-448007	3/4"

## Cap (Slip)



Part #	Mfg #	Size
CAP00985	5-447007	3/4"
CAP00979	5-447010	1"
5-447012	5-447012	1-1/4"
5-447030	5-447030	3"

## Reducer Bushing (Spgt x Slip)



Part #	Mfg #	Size
BUS01421	5-437101	3/4" x 1/2"
5-437130	5-437130	1" x 1/2"
BUS01411	5-437131	1" x 3/4"
5-437210	5-437210	1-1/2" x 3/4"
5-437339	5-437339	3" x 2-1/2"

## Reducer Bushing (Spgt x FPT)



Part #	Mfg #	Size
BUS01762	5-437101	3/4" x 1/2"
5-438130	5-437130	1" x 1/2"
5-438131	5-437131	1" x 3/4"

# PVC Products

## Coupling (Slip)



Part #	Mfg #	Size
CPL01055	5-429005	1/2"
FTG00962	5-429007	3/4"
CPL01047	5-429010	1"
5-429015	5-429015	1-1/2"
CPL01018	5-429020	2"
CPL01019	5-429030	3"

## Female Adapter (Slip x FPT)



Part #	Mfg #	Size
ADP01086	5-435005	1/2"
FTG01149	5-435007	3/4"
ADP01078	5-435010	1"
ADP01402	5-435012	1-1/4"
5-435020	5-435020	2"
5-435030	5-435030	3"

## Female Reducing Adapter (FPT x Slip)



Part #	Mfg #	Size
ADP01087	5-435074	1/2" x 3/4"
5-435101	5-435101	3/4" x 1/2"
5-435102	5-435102	3/4" x 1"

## Male Adapter (MPT x Slip)



Part #	Mfg #	Size
ADP01088	5-436005	1/2"
FTG00960	5-436007	3/4"
ADP01080	5-436010	1"
5-436020	5-436020	2"
5-436030	5-436030	3"

## Male Reducing Adapter (MPT x Slip)



Part #	Mfg #	Size
5-436074	5-436074	1/2" x 3/4"
ADP01089	5-436101	3/4" x 1/2"
5-436102	5-436102	3/4" x 1"
ADP01079	5-436131	1" x 3/4"

## Insert Adapter (Ins x Slip)



Part #	Mfg #	Size
5-474007	5-474007	3/4"

## Plug (MPT)



Part #	Mfg #	Size
PLG00032	5-450007	3/4"
5-450015	5-450015	1-1/2"
5-450030	5-450030	3"

## PVC Plug (Slip)



Part #	Mfg #	Size
5-449005	5-449005	1/2"
5-449007	5-449007	3/4"
5-449030	5-449030	3"

## Clean Out Tee



Part #	Mfg #	Size	Qty
TEE00955	510-3400	3/4"	-
TEE01393	510-3400-10	3/4"	10/Pk

# PVC Products

## Tee (Slip)



Part #	Mfg #	Size
TEE00954	5-401005	1/2"
FTG00957	5-401007	3/4"
TEE00943	5-401010	1"
5-401015	5-401015	1-1/2"
TEE00958	5-401020	2"
5-401025	5-401025	2-1/2"
TEE00959	5-401030	3"

## PVC Tee (S x S x FPT)



Part #	Mfg #	Size
5-402007	5-402007	3/4"

## Trap (Slip)



P-Trap

Part #	Mfg #	Description
5-412	5-412	1/2" P-Trap
FTG00955	5-408	3/4" P-Trap
5-410	5-410	3/4" Short P-Trap
FTG00956	5-409	3/4" Running Trap
TUB11847	5-414	3/4" J-Trap
TRP00037	5-411	1" P-Trap

## PVC Union



- PVC Type II Material
- Complies with ASTM and ANSI standards

Part #	Mfg #	Size
UNN00871	5-457007	3/4"

## FlowGuard® Gold™ CPVC-CTS Fittings

### CPVC-CTS Coupling (Slip)



Part #	Mfg #	Size
CPL01053	4701-12	1/2"
CPL01054	4701-34	3/4"

### CPVC-CTS Adapter (FPT x Slip)



Part #	Mfg #	Size
ADP01083	4703-12	1/2"
ADP01084	4703-34	3/4"

### CPVC-CTS Adapter (MPT x Slip)



Part #	Mfg #	Size
ADP01082	4704-12	1/2"
ADP01085	4704-34	3/4"

## CPVC Bushing



Part #	Mfg #	Size
FTG01349	4718-12	3/4" x 1/2"

## CPVC-CTS 45° Elbow (Slip)



Part #	Mfg #	Size
ELL01011	4706-12	1/2"
ELL01013	4706-34	3/4"



# PVC Products

## CPVC-CTS 90° Elbow (Slip)



Part #	Mfg #	Size
ELL01010	4707-12	1/2"
ELL01012	4707-34	3/4"

## CPVC-CTS 90° Street Elbow (Slip)



Part #	Mfg #	Size
ELL01516	47072-12	1/2"
ELL01014	47072-34	3/4"

## CPVC-CTS Tee (Slip)



Part #	Mfg #	Size
TEE00952	4711-12	1/2"
TEE00953	4711-34	3/4"

## Nylon Barbed Fittings

### Adapter (Barb x MPT)



Part #	Mfg #	Size	Qty
ADP01090	701-012	3/8" x 1/2"	2/Pk
ADP01017	701-043	3/8" x 3/4"	2/Pk
ADP01091	701-001	1/2" x 1/2"	2/Pk
ADP01092	701-002	1/2" x 3/4"	2/Pk
ADP01094	701-007	3/4" x 3/4"	2/Pk
ADP01093	701-014	5/8" x 3/4"	2/Pk

## 90° Elbow (Barb)



Part #	Mfg #	Size	Qty
ELL00997	701-018	1/2"	2/Pk
ELL00998	701-040	5/8"	2/Pk
ELL00999	701-023	3/4"	2/Pk

## 90° Elbow (Barb x MPT)



Part #	Mfg #	Size	Qty
ELL01000	701-026	3/8" x 1/4"	2/Pk
ELL01001	701-020	1/2" x 3/4"	2/Pk
ELL01002	701-028	5/8" x 3/4"	2/Pk
ELL01003	701-025	3/4" x 3/4"	2/Pk

## 90° Elbow (Barb x FPT)



Part #	Mfg #	Size	Qty
ELL01022	701-019	1/2" x 3/4"	2/Pk
ELL01023	701-024	3/4" x 3/4"	2/Pk

## Tee (Barb)



Part #	Mfg #	Size	Qty
TEE00945	701-038	3/8"	2/Pk
TEE00946	701-034	1/2"	2/Pk
FTG01270	701-035	1/2" x 3/4" x 1/2"	2/Pk
TEE00947	701-039	5/8"	2/Pk
TEE00948	701-037	3/4"	2/Pk

## Hose Mender (Barb)



Part #	Mfg #	Size	Pkg Qty
FTG01015	701-032	3/8"	2/Pk
FTG01016	701-029	1/2"	2/Pk
FTG01017	701-033	5/8"	2/Pk
FTG01018	701-031	3/4"	2/Pk

# PVC Products

## Clamps

### Hose Clamps



- Worm drive, adjustable 300 series SS 1/2" band with plated 5/16" slotted hex head and housing

Part #	Mfg #	Description
CMP00997	B-4H	No 4, 7/32" - 5/8" Dia 3/16" - 5/16" Hose ID
CMP00998	B-6-H	No 6, 3/8" - 7/8" Dia 1/4" - 3/8" Hose ID
CMP00999	B-8-H	No 8, 7/16" - 1" Dia 5/16" - 1/2" Hose ID
CMP01000	B-10-H	No 10, 9/16" - 1-1/16" Dia 3/8" - 5/8" Hose ID
CMP01001	B-12-H	No 12, 9/16" - 1-1/4" Dia 5/8" - 3/4" Hose ID
CMP01002	B-16-H	No 16, 11/16" - 1-1/2" Dia 3/4" - 1" Hose ID
CMP01003	B-20-H	No 20, 3/4" - 1-3/4" Dia 1" - 1-1/4" Hose ID
CMP01004	B-24-H	No 24, 1-1/16" - 2" Dia 1-1/4" - 1-1/2" Hose ID
CMP01005	B-28-H	No 28, 1-5/16" - 2-1/4" Dia 1-1/4" - 1-3/4" Hose ID
CMP01006	B-32-H	No 32, 1-9/16" - 2-1/2" Dia 1-1/2" - 2" Hose ID
CMP01007	B-36-H	No 36, 1-13/16" - 2-3/4" Dia 1-3/4" - 2-1/4" Hose ID





# Plumbing Products

## PVC Cement

### Pro-Weld™ Clear PVC Cement

- Regular bodied PVC cement
- Recommended for all rigid Sch 40 and Sch 80 PVC pipe and fittings up to 4" diameter
- Brush top container



Part #	Mfg #	Size
SLT00137	PW-4	4 oz
SLT00138	PW-8	8 oz
SLT00136	PW-16	16 oz

### Pro-Weld™ Blue Pool and Turf PVC Cement

- Medium bodied PVC cement
- Recommended for all rigid Sch 40 and Sch 80 PVC pipe and fittings up to 8" diameter
- Brush top container



Part #	Mfg #	Size
SLT00140	PWB-4	4 oz
SLT00141	PWB-8	8 oz
SLT00139	PWB-16	16 oz

### Pro-Weld™ Clear PVC Cement

- Heavy bodied PVC cement
- Recommended for all rigid Sch 40 and Sch 80 PVC pipe and fittings up to 12" diameter
- Brush top container



Part #	Mfg #	Size
SLT00143	PWH-4	4 oz
SLT00144	PWH-8	8 oz
SLT00142	PWH-16	16 oz

### Pro-Weld™ Clear Universal PVC/CPVC/ABS Cement

- Medium bodied PVC cement
- Recommended for PVC to PVC, CPVC to CPVC or ABS to ABS
- Brush top container



Part #	Mfg #	Size
SLT00146	PWU-4	4 oz
SLT00147	PWU-8	8 oz
SLT00145	PWU-16	16 oz

### Clear PVC Cement

- Brush top applicator



Part #	Mfg #	Size
SLT00126	31012	1/4 pt
CHM00532	5-12	1/2 pt
SLT00128	31014	1 pt

### Heavy-Duty Clear PVC Cement

- Heavy-bodied clear cement for PVC pipe and fittings up to 12" diameter for Sch 40 and Sch 80
- Recommended for all grades and types of PVC pipe and fittings, potable water, pressure pipe, gas, conduit and DWV
- Helps fill gaps in large diameter pipe and loose fitting joints



Part #	Mfg #	Size
CHM00540	530-30863	8 oz

### Clear All-Purpose Cement

- For ABS, PVC and CPVC pipe and fittings
- Heavy-bodied, pipes and fittings up to 12" diameter
- Apply at temperatures: 40° to 90°F



Part #	Mfg #	Size
CHM00527	530-30818	4 oz
CHM00528	530-30821	8 oz
CHM00529	530-30834	16 oz

# Plumbing Products

## Rain-R-Shine™ Blue Cement

- For PVC pipe and fittings
- Medium-bodied, pipes and fittings up to 6" diameter
- Very fast setting, for wet conditions and quick pressurization



Part #	Mfg #	Size
CHM00511	530-30890	4 oz
SEL00987	530-30891	8 oz
CHM00653	530-30893	16 oz

## PVC Primers/Cleaners

### Pro-Prime™ Purple PVC Primer

- Purple tinted PVC primer
- Recommended for all Type I and II PVC piping



Part #	Mfg #	Size
SLT00134	PP-4	4 oz Brush-Top
SLT00135	PP-8	8 oz Brush Top
SLT00133	PP-16	16 oz Brush Top

### Black Label Purple Primer

- For all PVC and CPVC
- Removes surface dirt and grease, softens pipe surface



Part #	Mfg #	Size
SEL00986	530-30755	4 oz
CHM00475	530-30756	8 oz
CHM00533	530-30757	16 oz

## Tom-Kap™ Adapters & Plugs

- Threaded cleanout adapter fitting cements inside pipe
- Provides flush-finished cleanout for drain, waste, and vent systems
- Recommended for use on schedule 40, SDR-35 and foam core



Part #	Mfg #	Description
ADP01395	97480	2" ABS
ADP01396	97481	2" PVC
ADP01397	97482	3" ABS
ADP01398	97483	3" PVC
ADP01399	97484	4" ABS
ADP01400	97485	4" PVC

## Air Admittance Valves

### Magic Vent® Air Admittance Valve

- Recommended for PVC and ABS
- Eliminates roof penetrations
- Greater design flexibility
- 1-1/2" Female threaded connection; rated for 1-1/4" to 2" individual or branch vent pipes
- NSF® Certified



Part #	Mfg #	Description
TOL04355	97400	Micro
TOL04357	97405	Micro with PVC Adapter
TOL04356	97406	Micro with ABS Adapter

## Polypropylene Fittings

### Magic Trap™ Tubular Polypropylene Fitting

- 1-1/2" Fitting replaces any standard 1-1/2" tubular trap
- Magic Vent® micro threads directly onto the tee connection of the Magic Trap™
- Automatically places air admittance valve 4" above drain pipes
- Tee threads directly into air admittance valve



Part #	Mfg #	Description
TRB00233	97402	Trap with Threaded Tee

# Plumbing Products

## Flappers

### Frugal Flush® The Universal 1.6 Replacement Flapper

- Designed as an OEM replacement flapper for 1.6 gallon toilets, yet also serves as a water saving device for 3.5 gallon and larger tanks



Part #	Mfg #	Description
TOL04343	97771	Blistercard

### Frugal Flush® Retroflapper™

- Adjustable, early closing flapper valve originally designed as a water conservation device
- Adjustable dial allows for water savings
- Reduces water consumption in 3.5, 5 and 7 gallon tanks



Part #	Mfg #	Description
TOL04352	97760	Box
TOL04353	97761	Box
TOL04344	97774	Master Carton (12 Cases)

## Water Heater Stands

### Deluxe Water Heater Stand



Part #	Mfg #	Description
BAS02729	97750	Stand
BAS02730	97753	Stand for 75 & 100 gal

## Cutting Tools

### Quick Saw™

- Cable saw for plastic pipe
- Comfortable, contoured handles



Part #	Mfg #	Description
TOL04354	97577	24" Replacement, 2-Pk

# Tape

## Insulation Tape

### Cork Insulation Tape

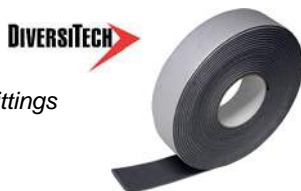
- Black self-adhesive
- Adheres firmly to all metals
- Use on hot or cold pipes to stop condensation



Part #	Mfg #	Size
TAP00059	6-330	1/8" x 2" x 30'

### Foam Insulation Tape

- Black self-adhesive
- Fits well around valves and fittings
- Use on hot or cold pipes to stop condensation



Part #	Mfg #	Size
TAP00060	6-9718	1/8" x 2" x 30'

## Teflon Tape

### Teflon® Tape

- Pure white Teflon
- Non-toxic
- Withstands up to 2,000 psi of pressure



Part #	Mfg #	Size
TAP00062	6-734	1/2" x 260"
TAP00061	6-733	1/2" x 520"
TAP00121	6-736	3/4" x 260"
TAP00063	6-735	3/4" x 520"

## Electrical Tape

### Hiawatha Electrical Tape by 3M

- Designed to operate in 600V dry applications
- Corrosion free protection



Part #	Mfg #	Size
TAP00092	ET22	3/4" x 66'

## Economy PVC Electrical Tape

- For use up to 175°F and not more than 600V
- Excellent for adhesion
- UL Listed



Part #	Mfg #	Size
TAP00093	569932	3/4" x 60'

## Scotch 3M® Super 33+ Electrical Tape

- Premium grade, 7 mil all-weather vinyl insulating
- Temperature range: 0° to 220°F



Part #	Mfg #	Size
TAP00087	ET33	3/4" x 66'

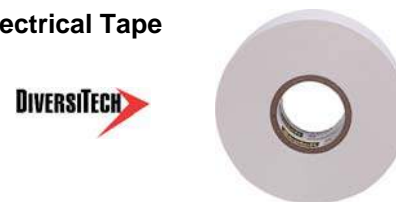
## Scotch 3M® Super 88 Electrical Tape

- Premium grade, 8.5 mil, all-weather vinyl insulating
- Temperature range: 0° to 220°F



Part #	Mfg #	Size
TAP00088	ET44	3/4" x 66'

## Scotch® 35 Vinyl Electrical Tape



Part #	Mfg #	Description
TAP00111	ET35W	White
TAP00109	ET35G	Green
TAP00108	ET35N	Orange
TAP00110	ET35R	Red

## Moisture Sealing Splicing Tape

Part #	Mfg #	Size
TAP00091	ET130C1	1" x 30'

# Tape

## Glass Cloth Electrical Tape by 3M



Part #	Mfg #	Description
TAP00089	GC275	1/2" x 66'
TAP00090	GC277	3/4" x 66'

## Vinyl Electrical Tape

### Super 33+™ Scotch® Vinyl Plastic Electrical Tape

- Thickness: 7 mil
- Holds in temperatures to 220°F
- PVC tape with high dielectric strength
- Pressure-sensitive rubber based adhesive
- Inhibits corrosion of electrical conductor
- Flame-retardant and conformable
- UL Listed



Part #	Mfg #	Description
TAP00122	054007-06132	3/4" x 66'

### Super 88 Scotch® Vinyl Plastic Electrical Tape

- Black, 8.5 mil heavy-duty
- Premium grade all-weather insulating tape
- Maintains conformability for cold weather applications
- Temperature range: 0° to 220°F



Part #	Mfg #	Description
TAP00123	054007-06143	3/4" x 66'

## Cloth Duct Tape

### 1500 Contractor Grade Waterproof Cloth Duct Tape - 11 Mil

- Applications:
  - Vapor sealing sheet metal ductwork
  - General purpose heavy-duty service
- High strength polyethylene coated cotton cloth tape with high tack natural rubber adhesive system
- Will not curl when unwound
- Thickness: 11 mil
- Tensile strength: 38 lb/in width
- Service temperature: 40° to 175°F



Part #	Mfg #	Size	Color
TAP00132	1500	2" x 60 yds	Black
TAP00131	1500	2" x 60 yds	Grey

### 1515 Printed UL181B-FX Cloth Duct Tape

- High strength, premium quality
- General purpose and for use with flexible duct
- Thickness: 11 mil



Part #	Mfg #	Size	Color
TAP00128	1515 Grey	2" x 60 yards	Silver/Blk Print

# Tape

## 1556 Professional Grade Waterproof Cloth Duct - 12 Mil

- Applications:
  - Vapor sealing sheet metal ductwork
  - General purpose heavy-duty service
- High strength, premium quality polyethylene coated cotton cloth tape with a natural rubber pressure sensitive adhesive system
- Conforms well to corners and irregular surfaces
- Thickness: 12 mil
- Tensile strength: 25 lb/in width
- Service temperature: 40° to 175°F



Part #	Mfg #	Size	Color
TAP00133	1556B	2" x 60 yds	Black

## 3520CW HVAC Aluminum Foil Insulation Cold Weather Tape

- Applications:
  - Bonds to both fibrous & metal ducts, providing a vapor seal
  - Malleable foil conforms well around corners and to irregular surfaces
- High strength aluminum foil with an aggressive, high temperature acrylic adhesive system
- Mold inhibitors added
- Tensile strength: 21 lb/in
- Service temperature: -40° to 250°F
- UL 723 Listed



Part #	Mfg #	Size	Color
TAP00129	3520CW	2" x 50 yds	Silver

## Foil Tape

### 1599B Printed UL181B-FX Flexible Duct Closure Tape - 3 Mil

- Applications:
  - Primarily use for sealing flexible air ducts and air connectors
  - Secures flex ducts to duct wrap facings
  - Metal and metal to metal connections
  - Adheres well to rubberized foam pipe insulation
- Polypropylene (BOPP) film with an acrylic cold weather adhesive system
- Performs well in either sub-zero cold or abnormally warm temperatures
- UV Resistant
- Mold inhibitors added
- Tensile strength: 20 lb/in
- Service temperature: -40° to 185°F
- US Green Building Council LEED® Point Contributor Product
- UL181B-FX Listed



### 1525CW® FSK Aluminum Foil Insulation Tape

- Applications:
  - Use for vapor seal on FSK faced fiberglass ductboard and blanket systems
- Tri-directionally reinforced with a 2 x 3 square inch fiberglass scrim
- Coated with a special cold weather acrylic adhesive system which combines very high stick at normal temperatures with superior low temperature performance
- Mold inhibitors added
- Thickness: 9.5 mil
- Tensile strength: 40 lb/in
- Service temperature: -40° to 250°F
- US Green Building Council LEED® Point Contributor Product
- UL 723 Listed foil/scrim/kraft lamination



Part #	Mfg #	Size	Color
TAP00130	1525CW	2" x 50 yds	Silver

Part #	Mfg #	Size	Color
TAP00125	1599B2	2" x 120 yds	Black Printed
TAP00126	1599BS3	3" x 120 yds	Silver Printed

# Tape

## 1580P Printed UL181B-FX Mastik Duct Sealing Tape

- Applications:
  - Indoor/outdoor, instant water resistant bond on sheet metal, flex duct and duct wrap vapor barriers
- May be used of FSK systems
- Hand tearable and conformable
- Excels in high humidity conditions
- Remains flexible and resists releasing
- Mold inhibitors added
- Thickness: 2 mil
- Tensile strength: 20 lb/in width
- Service temperature: 35° to 200°F
- UL181B-FX Listed foil tape



Part #	Mfg #	Size	Color
TAP00127	1580P	2" x 100'	Silver Printed

## 1581A Printed UL 181A-P/UL 181B-FX Aluminum Foil Ductboard Tape

- Applications:
  - Primarily used for sealing fiberglass ductboard and flex duct
  - May be used on metal connections, flex duct, flex duct connections to ductboard and metal duct
- High strength aluminum foil coated with a specially formulated pressure sensitive acrylic adhesive system
- Excels in demanding temperature and humidity applications
- Mold inhibitors added
- Thickness: 2 mil
- Tensile strength: 32 lb/in width
- Temperature range: 10° to 350°F
- US Green Building Council LEED® Point Contributor Product
- UL Listed, meets UL 181A-P and UL 181B-FX requirements



Part #	Mfg #	Size	Color
TAP00124	1581A	2-1/2" x 60 yds	Silver Printed

## Line Set Tape

### 1507 Line Set Tape

- Applications:
  - Primarily used for taping line sets
  - Works well on foam pipe insulation used in line sets
- Waterproof, weatherproof, UV resistant
- Tough polypropylene film with a solvent acrylic cold weather adhesive system
- Mold inhibitors added
- Tensile strength: 20 lb/in width
- Service temperature: -40° to 185°F



Part #	Mfg #	Size	Color
TAP00134	1507	2" x 60 yds	Black

## Tape Dispensers

### Carton Tape Dispenser

- For any 2" tape



Part #	Mfg #	Description
TOL02211	540-DISP	2" Tape Dispenser

# Insulation

## Tape & Sealants

### Insulation Tape

- Hot or cold applications
- Adheres firmly to all non-porous surfaces, molds easily around valves and fittings
- Stop condensation and drip
- Will not shrink or dry out



CRK000130



FOM000130

Part #	Description	Type
CRK000130	1/8" x 2" x 30'	Cork Tape
FOM000130	1/8" x 2" x 30'	Foam Tape

### Sealing Gum Slug

- Block-off gum sealing compound
- Block form
- Molds into any shape



Part #	Description
GUM002402	24 x 2 lb Slug

### Sealing Gum Cord

- Bead-up gum sealing compound
- Easily presses into place



Part #	Description
GUM003825	3/8" x 12" x 25' Gum Cord

## Insulation Products

### Insulation Sealing Cord

- Non-staining
- Water-resistant and dust-resistant



Part #	Mfg #	Description
CHM00380	4216-27	3/8" x 25' Roll

### Thumb-Tite™ Sealing Compound

- For use in sealing, insulation, and general maintenance applications
- Non-staining, non-hardening and unaffected by wide variations in temperature; an excellent thumbing grade



Part #	Mfg #	Description
CHM00382	4216-92	2 lb Box

### Insulation Tape

#### 30' Cork Insulation Tape

- Can be used on hot or cold pipes
- Also serves as gasket material or sound deadening material
- Can be applied to temperatures as low as -30°F, as high as 200°F, and won't sag up to 350°F



Part #	Mfg #	Description
CHM00383	4217-W3	2" x 1/8" x 30' Roll

#### 30' Cork-Tite™ Insulation Tape

- Can be used on hot or cold pipes
- Also serves as gasket material or sound deadening material
- Sticks to all dry metals and seals tightly
- Will not shrink or melt between -20°F and +200°F



Part #	Mfg #	Description
TAP00113	4217-12	2" x 1/8" x 30' Roll



# Insulation

## 12' Foam-Tite™ Insulation Tape



- Utilizes closed-cell construction and can be used with cold water pipes, chilled water lines, and refrigerant lines to prevent sweating and condensation
- Also for use on hot water lines to prevent heat loss
- Can be overlapped or edges can be butted



Part #	Mfg #	Description
INS03378	4219-20	1" x 1/8" x 12' Roll

## 30' Foam-Tite™ Insulation Tape



- Can be used with cold water pipes, chilled water lines and refrigerant lines to prevent sweating and condensation
- Also for use on hot water lines to prevent heat loss
- Can be overlapped or edges can be butted
- Service temperatures of -15° to 160°F



Part #	Mfg #	Description
TAP00099	4219-12	2" x 1/8" x 30' Roll

## 30' Permawrap™ Foam Insulation Tape



- Formulated from the highest quality elastomeric thermal insulation material
- Closed cell construction
- Can be used on hot or cold water pipes
- Service temperature of -20° to 160°F, and high intermittent temperatures of 220°F



4218-W3

Part #	Mfg #	Description
TAP00102	4218-W3	2" x 1/8" x 30' Roll
TAP00098	4218-12	2" x 1/8" x 30' Roll Dispenser Pack



# Adhesives

## Aerosol Adhesives

### Spray Adhesive

- Fast-drying, all-purpose product
- Strong, water-resistant, flexible bond
- Translucent, no bleed-through



Part #	Mfg #	Description
ADH00028	4080-04	11 oz Aerosol

### Spray-n-Bond® Insulation Adhesive

- Formulated for insulation and duct liner applications
- Ideal for uneven and porous surfaces
- Waterproof and transparent



Part #	Mfg #	Description
ADH00030	4369-75	13 oz Aerosol

## Adhesives

### 3M™ Super 77 Spray Adhesive

- High tack, high coverage, fast drying
- Permanent adhesive
- Bonding time: 15 seconds to 15 minutes
- Dry time: 15 seconds to 1 minute
- Bonds many lightweight materials
- Soft, non-dimpling glue lines



Part #	Mfg #	Description
CHM01166	62443749502	16.5 oz Aerosol Can



# Sealants & Insulation

## Solvent Cement

### Arctic™ 616L Low VOC Solvent PVC Cement

- Clear color
- Medium body, very fast set
- Used for joining PVC pipe and socket-type fittings through 6" for Schedule 40 and 1-1/4" for Schedule 80
- Specifically designed for use in cold weather
- Remains stable from 0° to 120°F
- LEED Compliant
- NSF approved for potable water
- UPC (IAPMO) listed under File No. 1796
- Exceeds ASTM D 2564 specifications
- 2-Year shelf life



Part #	Mfg #	Description
SOV00061	55919	1 pt Dauber Top Can
SOV00062	55948	1 qt Dauber Top Can
SOV00063	55953	1 gal Can

### Charlie™ 412L Low VOC CPVC Solvent Cement

- Orange color
- Regular body, fast set
- Use on CPVC pipe
- LEED Compliant
- NSF Approved
- UPC Listed
- 2-Year shelf life



Part #	Mfg #	Description
SOV00064	55956	1/4 pt Dauber Top Can
SOV00065	55957	1/2 pt Dauber Top Can
SOV00066	55966	1 gal Can

### Charlie™ Heavy-Duty 811L Low VOC CPVC Solvent Cement

- Orange color
- Heavy body, medium set
- Use on CPVC pipe
- LEED Compliant
- NSF Approved
- UPC Listed
- 2-Year shelf life



Part #	Mfg #	Description
SOV00073	55967	1 pt Dauber Top Can
SOV00074	55968	1 qt Dauber Top Can
SOV00075	55971	1 gal Can

### Gene™ 404L Low VOC PVC Solvent Cement

- Clear color
- Regular body, fast set
- Used for joining PVC pipe and socket fittings which meet Class 12454 as defined in ASTM specification D1784
- For schedule 40 up to 2" pressure; up to 4" nonpressure pipe (DWV)
- Recommended for:
  - Potable water
  - Pressure pipe
  - Gas
  - Conduit
  - Sewers
  - DWV Systems
- LEED Compliant
- NSF Approved
- UPC listed
- 2-Year shelf life



Part #	Mfg #	Description
SLT00076	55901	1/4 pt Dauber Top Can
SLT00077	55902	1/2 pt Dauber Top Can
SLT00078	55904	1 pt Dauber Top Can
CHM01110	55906	1 qt Dauber Top Can
SOV00067	55908	1 gal Can

# Sealants & Insulation

## Gold™ 844L Low VOC PVC Solvent Cement

- Clear color
- Heavy body, medium set
- Use on all PVC pipe
- LEED Compliant
- NSF Approved
- UPC Listed
- 2-Year shelf life



Part #	Mfg #	Description
SOV00068	55950	1/4 pt Dauber Top Can
SOV00069	55951	1/2 pt Dauber Top Can
SOV00070	55952	1 pt Dauber Top Can
SOV00071	55954	1 qt Dauber Top Can
SOV00072	55955	1 gal Can

## John™ 647L Low VOC Solvent Cement

- Black color
- Medium body, medium set
- For use on all ABS plastic pipe and classes through 6"
- LEED Compliant
- NSF Approved
- UPC Listed
- 2-Year shelf life



Part #	Mfg #	Description
SOV00080	55938	1/4 pt Dauber Top Can
SOV00081	55940	1/2 pt Dauber Top Can
SOV00082	55942	1 pt Dauber Top Can
SOV00083	55944	1 qt Dauber Top Can
SOV00084	55946	1 gal Can

## Homer™ 828L Low VOC ABS Solvent Cement

- Gray color
- Heavy body, medium set
- Use on ABS plastic pipe
- LEED Compliant
- NSF Approved
- 2-Year shelf life



Part #	Mfg #	Description
SOV00076	55960	1/2 pt Dauber Top Can
SOV00077	55961	1 pt Dauber Top Can
SOV00078	55963	1 qt Dauber Top Can
SOV00079	55964	1 gal Can

## Mike™ 425L Multi-Purpose Low VOC Solvent Cement

- Amber color
- Medium body, fast set
- For use on PVC, CPVC, and ABS pipe and socket-type fittings
- LEED Compliant
- 2-Year shelf life



Part #	Mfg #	Description
SOV00085	55969	1/4 pt Dauber Top Can
SOV00086	55970	1/2 pt Dauber Top Can
SOV00087	55973	1 pt Dauber Top Can
SOV00088	55974	1 qt Dauber Top Can
SOV00089	55976	1 gal Can

## Hot™ 203L Solvent Cement

- Blue color
- Medium body, very fast set
- For use on rigid PVC and flexible PVC pipe
- LEED Compliant
- NSF Approved and IAMPO listed



Part #	Mfg #	Description
SOV00049	55990	1 pt Dauber Top Can

# Sealants & Insulation

## Pete™ 602L Low VOC PVC Solvent Cement

- Clear color
- Regular body, fast set
- PVC Solvent cement for joining PVC pipe and socket type fittings
- LEED Compliant
- NSF Approved for potable water
- UPC (IAPMO) Listed
- 2-Year shelf life



Part #	Mfg #	Description
SOV00091	55922	1/4 pt Dauber Top Can
SOV00092	55924	1/2 pt Dauber Top Can
SOV00093	55926	1 pt Dauber Top Can
SOV00094	55928	1 qt Dauber Top Can
SOV00090	55916	1 gal Can

## Cleaners & Primers

### Bill™ PR-3 PVC Hi-Etch Primer

- Clear color
- Formulated as a primer for use on PVC and CPVC pipe, tubing and socket-type fittings
- Safe for use on potable water systems
- Manufactured from only high quality 100% virgin materials
- 2-Year shelf life



Part #	Mfg #	Description
SOV00095	55701	1/4 pt Dauber Top Can
SOV00096	55703	1/2 pt Dauber Top Can
SOV00097	55705	1 pt Dauber Top Can
SOV00098	55707	1 qt Dauber Top Can
SOV00099	55709	1 gal Can

## Clear™ PR-2L Low VOC Primer

- Clear color
- Hi-etch primer for use on PVC and CPVC pipe, tubing, and socket-type fittings
- Formulated for all PVC and CPVC pipe applications including potable water, pressure pipe, gas, conduit, sewers and drain, waste and vent (DWV)
- LEED Compliant
- NSF Approved
- UPC listed



Part #	Mfg #	Description
CHM00599	55972	1 pt Dauber Top Can
SOV00100	55981	1 qt Dauber Top Can
SOV00101	55982	1 gal Can

## Jim™ PR-1L Low VOC PVC Primer

- Purple color
- For use on PVC and CPVC pipe, tubing, and socket-type fittings
- Prepares surface for superior bonding strength
- Fast acting
- Superior bonding
- Hi-etch
- LEED Compliant
- Meets ASTM F656 specifications
- NSF Certified
- 2-Year shelf life



Part #	Mfg #	Description
SEL01283	55910	1/4 pt Dauber Top Can
SOV00114	55912	1/2 pt Dauber Top Can
SOV00115	55914	1 pt Dauber Top Can
SOV00116	55918	1 qt Dauber Top Can
SOV00117	55920	1 gal Can

# Sealants & Insulation

## Sam™ CL-3L Low VOC PVC Cleaner

- Clear color
- Acts as a cleaner by dissolving grease and dirt and helping prepare the bonding surfaces for solvent cementing
- Safe for use on:
  - PVC
  - CPVC
  - ABS
  - Potable water systems
- LEED Compliant
- NSF Certified
- 2-Year shelf life



Part #	Mfg #	Description
SOV00118	55929	1/4 pt Dauber Top Can
SOV00038	55930	1/2 pt Dauber Top Can
SOV00039	55932	1 pt Dauber Top Can
CHM00598	55934	1 qt Dauber Top Can
SOV00119	55936	1 gal Can

## Hot™ 203L Low VOC Solvent Cement

- Blue color
- Medium body, fast drying
- PVC solvent cement joins both rigid and flexible PVC pipe and socket-type fittings which meet Class 1245 as defined in ASTM specifications D1784
- For all rigid PVC classes up to 6" schedule 40 and 1-1/4" schedule 80
- Recommended for:
  - Irrigation
  - Pools
  - Spas
  - Potable water
  - Pressure pipe
  - Gas
  - Conduit
  - Sewers
  - DWV Systems
  - Flexible PVC hose
- IAMPO Listed
- LEED Compliant
- NSF Approved
- 2-Year shelf life



Part #	Mfg #	Description
SOV00110	55988	1/4 pt Dauber Top Can
SOV00111	55989	1/2 pt Dauber Top Can
SOV00112	55993	1 qt Dauber Top Can
SOV00113	55994	1 gal Can

## Specialty Solvent Cement

### Dura-Gold™ 627L Low VOC PVC Solvent Cement

- Gold color
- Medium body, medium set
- Use on (CTS) CPVC hot and cold water pipe and fittings up to 2" diameter
- No need for primers unless required by local code
- IAMPO Listed
- LEED Compliant
- NSF Approved
- UPC listed
- 2-Year shelf life



Part #	Mfg #	Description
SOV00108	55992	1/2 pt Dauber Top Can
SOV00109	55998	1 pt Dauber Top Can

### 633L Electrical Conduit Low VOC PVC Cement

- Clear or gray
- Medium body, fast set
- For use on PVC conduit types I and II up to and including 6" for Schedule 40 and Schedule 80
- IAMPO Listed
- LEED Compliant
- NSF Approved for clear only
- 2-Year shelf life



Part #	Mfg #	Description
SOV00107	55980	1/2 pt Clear Dauber Top Can
SOV00102	55983	1 pt Clear Dauber Top Can
SOV00105	55995	1 pt Gray Dauber Top Can
SOV00103	55985	1 qt Clear Dauber Top Can
SOV00106	55996	1 qt Gray Dauber Top Can
SOV00104	55986	1 gal Clear

# Sealants & Insulation

## Duct Sealants

### RectorSeal® Duct Seal Compound

- Paintable
- Remains permanently soft
- Non-staining, non-toxic, non-corrosive
- Air/water tight seal
- Resistant to water, alcohols, mild acids and bases
- Temperature range: 25° to 120°F
- Color: Gray
- UL Classified
- USDA Acceptable



Part #	Mfg #	Description
CHM01364	81880	1 lb
CHM01365	81881	5 lbs

### Draft-Block™ Foam Sealant

- (1) Component expanding polyurethane foam sealant
- Excellent filler
- Bonds and insulated
- Expands to (3) times dispensed volume
- Tack-free in 34 minutes
- No ureaformaldehyde
- Effective acoustical sealant, reduces sound transmission



Part #	Mfg #	Description
SLT00256	96500	12 oz Aerosol

## Epoxy Putty

### RectorSeal® EP-200 Epoxy Putty

- Pre-measured, high grade epoxy and hardener formulated together in one stick
- Break-off the amount needed for each repair
- Bonds to most surfaces and hardens in 15 to 20 minutes
- Can be sanded, painted, drilled, taped and/or machined
- NSF/ANSI Certified



Part #	Mfg #	Description
SLT00132	97600	EP-200 2 oz Stick
SLT00258	97602	EP-200 2 oz Stick. Blister Card
SLT00257	97601	EP-200 2 oz Refill
SLT00259	97606	EP-400 4 oz Stick

## Pipe Thread Sealants

### RectorSeal® T Plus 2® Pipe Thread Sealant

- White color
- Non-setting, multipurpose compound
- Contains PTFE, plus synthetic fibers to create a stronger seal



Part #	Mfg #	Description
SLT00067	23710	1-3/4 oz Tube
SLT00068	23631	1/4 pt Brush Top Can
SLT00123	23551	1/2 pt Brush Top Can

### RectorSeal® No. 5® Pipe Thread Sealant

- Yellow color
- Multipurpose, soft-set
- Slow drying
- Seals, lubricates, and protects threaded pipe and fittings
- Can be pressurized immediately for piping up through 2" and 100 psi for natural gas, air and water only



Part #	Mfg #	Description
SLT00064	25790	1-3/4 oz Tube
SLT00047	25431	1 pt Brush Top Can



# Sealants & Insulation

## RectorSeal® No. 100 Virgin® Pipe Thread Sealant

- White color
- Industrial grade Teflon® sealant



Part #	Mfg #	Description
CHM01367	22631	1/4 pt Brush Top Can
CHM01368	22551	1/2 pt Brush Top Can
CHM01369	22431	1 pt Brush Top Can
CHM01370	22390	1 qt Brush Top Can
CHM01371	22271	1 gal Friction Top
CHM01372	22191	5 gal
CHM01373	22112	55 gal

## RectorSeal® Blue+™ Non-Setting Pipe Thread Sealant

- Slow dry
- Temperature range: -15° to 400°F
- For portable water, DWV, natural gas, LPG, compressed air, and industrial gases



Part #	Mfg #	Description
SEL01282	31633	1/4 pt Brush Top Can
SEL01281	31553	1/2 pt Brush Top Can
SEL01280	31433	1 pt Brush Top Can
SEL01279	31303	1 qt Brush Top Can

## RectorSeal® Tru-Blu™ Pipe Thread Sealant

- Blue color
- Contains PTFE for high vibration environments
- Fast-dry, flexible set
- Designed for high vibration environments
- Use on threaded galvanized steel, iron, brass, copper, aluminum, stainless steel, polyethylene, fiberglass reinforced, and PVC



Part #	Mfg #	Description
SLT00069	31780	1-3/4 oz Tube
SLT00070	31631	1/4 pt Brush Top Can
SLT00071	31551	1/2 pt Brush Top Can

## RectorSeal® PTFE Pipe Sealant Tape

- Resistant to most liquids or gases and is completely inert



Part #	Mfg #	Description
TAP00116	35942	1/2" x 260" Roll
TAP00141	35944	1/2" x 1,296" Roll

## Metacaulk® Firestopping Products

### Metacaulk® 1200 Sprayable Firestop Mastic

- Sprayable, brushable, trowelable, caulkable or pourable
- Freeze-thaw
- Water based
- Flexible - elastomeric
- Paintable
- VOC Compliant
- Excellent smoke seal
- Cure time: 5 to 7 days
- Minimum 3-year shelf life caulk grade
- Minimum 2-year shelf life spray and SL
- Meets ASTM E 84, UL 723 tunnel test



Part #	Mfg #	Description
CHM01328	66292	20.2 oz Sausage Pack, Red
CHM01327	66015	30 oz Cartridge, Red
CHM01336	66525	30 oz Cartridge, White
CHM01334	66521	1 qt Self-Leveling, Red
CHM01331	66379	5 gal Spray, Red
CHM01337	66527	5 gal Spray, White
CHM01341	66529	5 gal Spray (USA), Red
CHM01340	66526	5 gal Spray (USA), White
CHM01333	66387	5 gal Caulk Grade, Red
CHM01332	66386	5 gal Caulk Grade, White
CHM01335	66523	5 gal Self-Leveling, Red



# Sealants & Insulation

## Metacaulk® 1000 Firestop Sealant

- Will prevent the spread of flames, smoke, hot gases and water through joint openings and through penetrations
- No dilution or mixing required
- Can be used in areas with some movement
- Use in fire-rated gypsum wallboard partitions, concrete walls or floors, wood floors and concrete or corrugated steel deck floor and ceiling assemblies
- Recommended for:
  - Metal
  - Insulated pipes
  - Fiberglass and plastic pipes
  - Wall construction joints
  - Power and telephone cables
- Highly intumescent
- Excellent freeze-thaw
- For interior use
- Paintable
- VOC Compliant
- STC Rating 62
- UL Classified systems up to (4) hours
- cULus Listed
- Meets ASTM E 814, UL 1479 and UL 2079 standards



Part #	Mfg #	Description
SLT00072	66640	10.3 oz Cartridge
CHM01140	66312	20.2 oz Sausage Pack
CHM01141	66303	30 oz Cartridge
CHM01138	66305	1 gal Plastic Pail
CHM01139	66307	2 gal Plastic Pail
CHM01142	66309	5 gal Plastic Pail

## Metacaulk® 950 Firestop Sealant

- Cream color
- General purpose, water-based
- For interior use on metal pipe, glass pipe, and telephone and power cables
- Suitable for use with PVC and CPVC plastic pipe on closed pressure systems
- Formulated with inorganic materials, which will not create smoke or toxic gases when exposed to fire



Part #	Mfg #	Description
SLT00119	66643	10.3 oz Cartridge

## Metacaulk® 835+ Firestop Silicone Sealant

- Used in areas under constant vibration or movement
- Resistant to chemical exposure
- Recommended for:
  - PVC Pipe on closed (pressure) systems
  - EMT
  - Insulated and uninsulated steel pipe
  - Construction and control joints
  - Interior expansion joints
- Water resistant
- Exterior / interior use
- STC Rating 55
- cULus Listed
- FM Approved



10.15 oz Cartridge



Part #	Mfg #	Description
CHM01146	66645	10.15 oz Cartridge
CHM01147	66019	5 gal Straight-Sided Plastic Pail

## Metacaulk® 350i Elastomeric Seal Firestop Sealant

- 1-Component, general purpose sealant and smoke seal
- Intumescent, water-based, non-sag caulking grade sealant that is easy to apply and great for retrofits
- Suitable for dynamic movement
- Recommended for:
  - Metal
  - Insulated fiberglass and plastic pipes
  - Wall construction joints
  - Power and telephone cables
- Sound rated
- Excellent freeze-thaw
- cULus Listed
- FM Approved
- STC Rating: 53



Part #	Mfg #	Description
CHM01143	66616	10.3 oz Cartridge
CHM01144	66611	20.2 oz Sausage Pack
CHM01145	66613	5 gal Pail

# Sealants & Insulation

## Metacaulk® Industrial Cable Coating Firestop Sealant

- Heavy-duty acrylic latex base
- FM Approved



Part #	Mfg #	Description
CHM01326	50250	5 gal

## Metacaulk® Fire Rated Mortar

- Non-sag adjustable consistency
- High yield
- Non-shrinking
- Safe and simple to use
- Workable approximately 45 minutes



Part #	Mfg #	Description
CHM01329	66331	20 lb Pail
CHM01330	66334	45 lb Stack

## Metacaulk® Pipe Collar

- Prefabricated firestop systems for through-penetrations using PVC, CPVC, ABS, PVC foam core, ABS foam core, FRPP, PEX pipe and electrical cable
- Easy locking mechanism that assures simple installation.
- Design greatly reduces the time and expense required to install competitive collars
- UL Classified for both open and closed pipe systems
- FBC System compatible



Part #	Mfg #	Size
TOL04335	66352	1-1/2"
TOL04336	66353	2"
TOL04333	66350	3"
TOL04334	66351	4"
TOL04337	66354	6"

## Metacaulk® Firestop Joint Strip

- Flexible strip of highly intumescent firestop material used primarily for concrete and masonry floor and wall joints up to 1" wide
- When exposed to heat, it expands and forms a strong char to seal off the penetration, preventing the passage of flames, smoke, and hot gases



Part #	Mfg #	Description
SRP01053	66700	1" x 82', 6/Pk
SRP01054	66701	1-1/2" x 82', 4/Pk
SRP01058	66704	2" x 82', 3/Pk
SRP01055	66702	2-1/2" x 82', 2/Pk
SRP01056	66703	3" x 82', 2/Pk
SRP01057	66705	4" x 82' with Adhesive Backing, 2/Pk

## Metacaulk® Wrap Strip

- Flexible strip of highly intumescent firestop material used primarily for plastic and insulated pipe applications
- When exposed to heat, it expands and forms a strong char to seal off the penetration, preventing the passage of flames and hot gases



Part #	Mfg #	Size
SRP01059	66135	1" x 12'
SRP01060	66136	2" x 12'

## Metacaulk® Fire Rated Cover Guard®

- Single component, fire-rated gasket
- Fits under the cover plate
- Does not take up volume in the electrical box
- Labor saving replacement for putty pads in normal applications



Part #	Mfg #	Description
COV04888	66270	Double Receptacle
COV04889	66272	Single Receptacle
COV04890	66274	Double Switch
COV04891	66276	Single Switch
COV04886	66265	Single Decor
COV04887	66266	Double Decor

# Sealants & Insulation

## Metacaulk® Fire Rated Box Guard™

- Highly intumescent pad for use in electrical boxes
- Forms and insulating char



Part #	Mfg #	Description
BOX02725	66366	Single
BOX02726	66367	Double
BOX02727	66369	Double for 5.5 Box

## Metacaulk® Fire Rated Putty Pad

- Moldable non-curing, 1 component material
- Intumesces when heated
- Forms an insulating char



Part #	Mfg #	Size
SEL01285	66340	6" x 7" x 1/8"
SEL01284	66335	7" x 7" x 1/8"

## Metacaulk® Fire Rated Putty Stick

- Moldable non-curing, 1 component material
- Intumesces when heated
- Forms an insulating char



Part #	Mfg #	Size
SEL01286	66345	18 cu in

## Metacaulk® Firestop Pillow

- Intumescent
- Will prevent the spread of flames and hot gases through the openings
- Designed for use primarily in large openings with cables, cable trays, blank openings or multiple penetrating items



Part #	Mfg #	Size
TOL04327	66362	2" x 9" x 6"
TOL04328	66363	3" x 9" x 6"

## Metacaulk® Composit Sheet

- 2" Thick intumescent material bonded to galvanized sheet steel on one side
- Will prevent the spread of flames and hot gases through the openings
- Designed for use primarily in large openings with cables, cable trays, blank openings or multiple penetrating items



Part #	Mfg #	Size
PNL31985	66320	36" x 36"

## Metacaulk® Pass-Thru Device Bracket

- Allows electrical data or communication cable or pipes to penetrate fire-rated walls and floors
- Square or round shaped steel sleeves with intumescent material
- Opens for easy installation, retrofit or removal of cables
- "L" Rating
- cULus Listed



Part #	Mfg #	Description
BRK04456	66764	2" Round, 1 Each
SLV00334	66792	2" Round Foam Insert, 1/Case
BRK04453	66740	2-1/2" Square Single, 6/Case
BRK04452	66743	2-1/2" Square Double, 3/Case
BRK04455	66746	2-1/2" Square Triple, 2/Case
BRK04454	66749	2-1/2" Square Sixplex, 1 Each
SLV00335	66793	2-1/2" Square Foam Insert, 1/Case
BRK04458	66767	4" Round, 6/Case
SLV00337	66795	4" Round Foam Insert, 2/Case
BRK04459	66752	4" Square Single, 6/Case
BRK04457	66755	4" Square Double, 3/Case
BRK04461	66758	4" Square Triple, 2/Case
BRK04460	66761	4" Square Sixplex, 1 Each
SLV00336	66794	4" Square Foam Insert, 2/Case

# Sealants & Insulation

## Metacaulk® Accessories

### 6 lb/cu ft Safing

- Mineral wool backing material
- 2' Wide x 4' long sheets



Part #	Mfg #	Description
INS03483	66101	2" Thick

### Wire Mesh Screen



Part #	Mfg #	Description
SCR02381	66106	4-3/4" x 100' Roll

### Foam Backer Rod

- Sets depth of penetration prior to installing sealant



Part #	Mfg #	Description
TOL04326	66112	1" x 75' Roll

### Universal Collar

- For concrete, wood, or gypsum



Part #	Mfg #	Description
TOL04330	66095	1" x 50' Roll
TOL04329	66091	2" x 50' Roll

## Delta® Deck Plug

- Noncombustible high-density mineral fiber
- UL Listed



Part #	Mfg #	Size
PLU01248	66401	1-1/2' x 3-1/2' x 4-1/2'
PLU01249	66403	1-1/2' x 4-1/2' x 5-1/2'
PLU01250	66409	3' x 5' x 7'

## Caulk

### RS 136 Draft Stop/Fire Block Caulk

- General purpose, residential, acoustical fireblock/smoke seal caulk
- Use for:
  - Electrical
  - Plumbing
  - Plastic pipe
  - Telephone communication systems penetrations
- Easy application
- For interior application
- Water clean-up
- UL Listed



Part #	Mfg #	Description
CHM01353	66408	10.3 oz Cartridge

### RectorSeal® General Purpose Silicone Sealant

- Dries to touch in 30 minutes
- Remains flexible
- Vibration resistant
- Use indoors or outdoors



Part #	Mfg #	Description
SLT00260	57505	10.3 oz Cartridge, White
SLT00261	57506	10.3 oz Cartridge, Clear

# Sealants & Insulation

## Hi-Temp™ 100% RTV Silicone Caulk

- (1) Component sealant which cures to a strong durable resilient elastomer
- Use for:
  - Glass
  - Clean metal
  - Most wood
  - Vulcanized silicone rubber
  - Silicone resins
  - Natural and synthetic fiber
  - Ceramic
  - Paper
  - Many painted and plastic surfaces
- Vibration resistant
- Remains flexible
- Insulates, bonds, seals
- USDA Approved



Part #	Mfg #	Description
SLT00249	57500	10.1 oz Cartridge

## RectorSeal® Smoke and Acoustic Sealants



Part #	Mfg #	Description
CHM01354	66650	5 gal Spray Grade
CHM01355	66652	20.2 oz

## Furnace Cement

### PyroSeal™ Furnace & Retort Cement

- Non-asbestos
- For high temperature sealing and bonding
- Dual purpose retort and furnace cement



Part #	Mfg #	Size
CHM01302	68612	1.5 lb
CHM01303	68614	3 lb
SLT00073	68616	6 lb Pail
CHM01304	68618	12 lb Tub
CHM01380	68620	25 lb

## Penetrants

### 5-Way Penetrant

- Penetrant, lubricant, demoisurant, rust preventative and cleaner
- Frees rusted and frozen nuts and bolts
- Inhibits rust
- Displaces moisture and dries out electrical apparatus



Part #	Mfg #	Description
21305	5WP-70-12	17 fl oz, 12/Pk

## Fire Protection Products

### 3M™ CP Fire Barrier Sealant

- High performance latex-based intumescent firestop sealant
- Helps prevent the spread of fire, smoke and noxious gas
- Provides up to 4 hours of fire protection
- Dries to red color
- Sound reduction properties



Part #	Mfg #	Description
CHM01171	CP 25WB+	10.1 fl oz Tube Caulk - Red

### 3M™ Fire Block Foam

- Expanding foam seals, fills, insulates and bonds
- Helps prevent the spread of fire, smoke and noxious gas
- Acts as a draftstop
- Meets ASTM E 814 Standard
- For residential use only



Part #	Mfg #	Description
CHM01172	FBF	12 oz Can

# Sealants & Insulation

## Aerosol Sealants

### Nu-Foam® Insulation



- Expanding polyurethane prepolymer foam
- Used as a sealing and insulating product



4293-04

4293-75

Part #	Mfg #	Description
CHM00396	4293-04	9 oz Can
CHM00397	4293-75	20 oz Can

### Pipe Dri® Insulation



- Aerosol insulation
- Provides moisture barrier
- Quickly adheres and dries to hard waterproof coating



Part #	Mfg #	Description
CHM00401	4297-75	18 oz Aerosol

## Specialty Sealants

### Quick Seal™ Pipe Repair

- Knitted fiberglass impregnated tape
- Can be used on both cold or hot water
- Safe for potable water
- UL Listed, ANSI/NSF Standard 61



Part #	Mfg #	Description
CHM00407	4299-10	2" x 3' Wrap
CHM00408	4299-11	4" x 12' Wrap



# Personal Protection

## Protective Eyewear

### Virtua™ AP Protective Eyewear

- AP Is designed with highwrap polycarbonate lens and integral side shields
- Lightweight comfort
- Anti-fog and hard coat options
- Meets high impact requirements ANSI 7.87.1-2010



Part #	Mfg #	Description
APL00456	11819-00000-20	Clear Lens and Frame, 20/Case

### 3M™ Light Vision™ 2 Safety Glasses

- For detailed indoor or outdoor work
- Hands-free directed lighting
- Adjustable length temple and soft nose bridge
- Clear, anti-fog lens
- Gray frame
- Polycarbonate lens absorbs 99.9% UV
- Includes:
  - LED Lights
  - Microfiber bag
  - Lanyard
- Meets the requirements of CSA Z94.3-2007 and the high impact requirements of ANSI Z87.1-2003



Part #	Mfg #	Description
APL00356	11356-00000	Clear Lens, Black Frame
APL00457	11356-00000-10	Clear Lens, Black Frame, 10/Case

## Safety Glasses

- High-impact polycarbonate with protective side shields and brow guard



Part #	Mfg #	Series	Frame	Lens
GLS00862	505-13640	Aerosite™	Slate Gray	Clear
GLS00864	505-14200	Nassau Plus	Black	Clear
GLS00865	505-14201	Nassau Plus	Black	Gray
GLS00866	505-14203	Nassau Plus	Blue	Clear
GLS00868	505-14315	Nassau Plus	Red	Clear

## Eyewear

### Zenon Z12 Rimless Safety Glasses

- Polycarbonate/PVC frame
- 2.0 mm Rimless polycarbonate lenses
- 9.5 Base curve
- 99.99% UVA and UVB Light absorption
- Complies with ANSI Z87.1+ standard
- Meets CSA Z94.3 requirements



Part #	Mfg #	Description
APL00378	APL00378	Clear/Clear, Anti-scratch

## Safety Goggles

- Protects eyes against metal particles sparks refrigerant gases etc. when working on HVAC&R systems



Part #	Mfg #	Description
GLS00850	11003	Ventilated Safety Goggles

## Safety Glasses

### Z-Lens Safety Glasses

- 99.9% UVA and UVB protection
- Anti-static and anti-scratch lenses
- Complete wrap-around protection
- Lightweight Nylon frames
- Comfortable nosepiece
- Adjustable temples
- High-grade polycarbonate lens



Part #	Mfg #	Description
APL00473	4820	Blue Frame with Clear Lens
APL00474	4823	Black Frame with Mirror Lens

# Personal Protection

## Crews Safety Goggles

### Stryker™ General Purpose Safety Goggle

- Wide unobstructed field of vision
- Can be worn with most half-mask respirators
- Transparent PVC body
- Fit over prescription eyewear
- Protect from impact and splash
- Meet ANSI Z87.1 safety standards



Part #	Mfg #	Description
APL00435	2230R	Regular Clear Chemical Splash Indirect Vent w/Rubber Strap

## Protective Eyewear

### Frameless Protective Eyewear

- Frameless, wrap-around polycarbonate lens for unobstructed vision and coverage
- Lightweight design for all day comfort
- Easy-fitting universal molded-in nosepiece
- Clear lens for indoor use



Part #	Mfg #	Description
APL00152	60056	Black Earpieces, Clear Lens

### Protective Eyewear

- Meets ballistic test for impact
- 3-Position ratchet lens inclination adjusts for a custom fit
- Lens follow the contour of the cheekbone to create a zone of protection
- Dual 9-Base wrap around lenses provide uncompromising peripheral vision
- Ventilation channel reduces lens moisture build-up and fogging
- Clear lenses for indoor use only
- Brown tinted lenses for outdoor use, meets traffic signal color recognition of ASNI Z80.3-2001



Part #	Mfg #	Description
TOL02525	60055	Black Frame, Brown Tinted Lens
TOL02538	60053	Black Frame, Clear Lens

## Protective Masks

### Disposable Dust Masks

- Use around grinding, sanding, drilling, cleaning, and similar
- Double absorbent filter material is non-allergenic
- Metal nosepiece



Part #	Mfg #	Description
TOL02753	60080	Disposable Dust Masks, 50/Box
TOL02723	60057	Black Earpieces, Brown Tinted Lens

## Multi-Purpose Work Gloves

### Hyflex® 11-600 Multi-Purpose Light-Duty Gloves

- Use for light and delicate applications in dry environments that require maximal levels of dexterity
- Nylon liner
- Polyurethane coating
- Palm coated
- Knitwrist



Part #	Mfg #	Size	Color
APL00469	11-600-9	Large	Black
APL00464	11-600-10	XL	Black

## Cut Protection Work Gloves

### HyFlex® 11-624 Light-Duty Cut Protection Gloves

- Resistant to tears and punctures that might occur when handling sharp parts
- White DSM Dyneema® and Lycra® liner
- Black polyurethane coating provides sure grip in light oil and dry applications
- Palm coating
- Knitwrist
- ANSI cut level 2



Part #	Mfg #	Size
APL00470	11-624-8	Medium
APL00471	11-624-9	Large
APL00461	11-624-10	XL
APL00462	11-624-11	2XL



# Personal Protection

## Nitrile Work Gloves

### AlphaTec® Knit-Lined Nitrile Work Gloves

- Ansell Grip technology channels oils and other lubricants away from grip area
- Improves grip and provides chemical resistance
- 13 mil Thickness

**Ansell**



Part #	Mfg #	Size	Length
APL00351	219007	Medium	14"
APL00352	219008	Large	14"
APL00353	219009	XL	14"
APL00354	219010	2XL	14"

### Marigold® 315F Flocked Nitrile Gloves

- Premium nitrile formula for resistance to many solvents and oil based chemicals
- Highly resistant to oils and oil-based chemicals
- Flock-lined for comfort
- Loose cuff

**Ansell**

Part #	Mfg #	Size
APL00357	15-315-8	Medium
APL00358	15-315-9	Large
APL00359	15-315-10	XL
APL00360	15-315-15	2XL

## Gloves & Sleeves

### Low Voltage Class 0 Lineman's Gloves

**SALISBURY**  
by Honeywell



Part #	Mfg #	Color	Length	Size
APL00365	E011B8	Black	11"	8
APL00366	E011B9	Black	11"	9
APL00363	E011B10	Black	11"	10
APL00364	E011B11	Black	11"	11

### Lineman's Glove Liner

- Machine knit
- 100% Cotton
- For year round use with rubber insulating gloves and mittens
- Made from stretch fabric that can fit any hand size

**SALISBURY**  
by Honeywell



Part #	Mfg #	Wrist Length	Description Style
APL00367	L10MKC	10"	Knit

## Disposable Gloves

### 7700PFT N-DEX NightHawk® Disposable Gloves

- 100% Accelerator-free nitrile
- Powder-free
- Rolled cuff
- Rough finish on fingers
- Low-modulus formulation
- Tear-away feature
- Ambidextrous
- (50) Gloves per pack
- CE Certified

**SHOWA**

CE



Part #	Mfg #	Size
APL00467	7700PFT-S	Small
APL00466	7700PFT-M	Medium
APL00465	7700PFT-L	Large
APL00468	7700PFT-XL	X-Large

### Industrial Grade Lightly Powdered Blue Nitrile Disposable Gloves

- Fits left or right hand
- Made from component materials that comply with Federal Regulation for Food Contact: 21CFR, 170-199
- Water resistant
- Applications:
  - Plumbing
  - Assembly
  - Manufacturing

**WEST CHESTER**



Part #	Mfg #	Size	Qty
APL00437	2900-L	Large	100/Box

### Industrial Grade Flock-Lined Nitrile Disposable Gloves

- Fits left or right hand
- Made from component materials that comply with Federal Regulation for Food Contact: 21CFR, 170-199
- Oil and solvent resistant
- Applications:
  - Plumbing
  - Assembly
  - Manufacturing
  - Sanitation
  - General maintenance

**WEST CHESTER**



Part #	Mfg #	Size	Qty
APL00402	2910I-L	Large	6 Pair/Box

# Personal Protection

## Work Gloves

### PosiGrip™ 700SLC Latex Palm Gloves

- Seamless knit shell
- Blue crinkle latex coating
- Moderate cut and excellent abrasion resistance
- Improved grip even in wet, greasy or oily conditions



Part #	Mfg #	Size
APL00413	700SLC-S	Small
APL00414	700SLC-M	Medium
APL00415	700SLC-L	Large
APL00416	700SLC-XL	X-Large
APL00417	700SLC-2XL	XX-Large

### PosiGrip™ 715SNFTP Nitrile Foam Palm Gloves

- Knit wrist
- Foam nitrile coating
- Excellent abrasion resistance
- Channels oil from grip surface



Part #	Mfg #	Size
APL00424	715SNFTP-S	Small
APL00425	715SNFTP-M	Medium
APL00426	715SNFTP-L	Large
APL00427	715SNFTP-XL	X-Large
APL00428	715SNFTP-2XL	XX-Large

### PosiGrip™ 720DGU Polyurethane Palm Gloves

- Seamless knit shell
- Gray HPPE fiber shell
- Gray polyurethane coating
- Cut resistant



Part #	Mfg #	Size
APL00408	720DGU-S	Small
APL00409	720DGU-M	Medium
APL00410	720DGU-L	Large
APL00411	720DGU-XL	X-Large
APL00412	720DGU-2XL	XX-Large

## Nitrile Solvent Gloves

- Green flock lined
- Extra long cuff
- Textured palm
- 15 Mil



Part #	Mfg #	Description
APL00401	00121-L	Large

## Pro Series® 86525 Safety Gloves

- Velcro close wrist
- High visibility orange or green back
- Synthetic leather palm
- Reflective neoprene padded knuckles
- Terry cloth thumb with reinforced saddle



Part #	Mfg #	Size	Color
APL00430	86525G-S	Small	Green
APL00431	86525G-M	Medium	Green
APL00432	86525G-L	Large	Green
APL00433	86525G-XL	X-Large	Green
APL00434	86525G-2XL	XX-Large	Green

## 990K Select Grain Cowhide Driver Gloves

- Keystone thumb
- Welted seams on middle fingers



Part #	Mfg #	Size
APL00418	990K-S	Small
APL00419	990K-M	Medium
APL00420	990K-L	Large
APL00421	990K-XL	X-Large
APL00422	990K-2XL	XX-Large

# Personal Protection

## Standard 100% Cotton Brown Jersey Gloves

- Standard weight
- Knit wrist
- Clute cut



Part #	Mfg #	Description
APL00429	750C	9 oz Brown Jersey

## Work Gloves

### Mechanix™ Work Gloves

- Smooth surface thumb and index finger improve grip
- Soft, flexible, durable and breathable synthetic leather palm
- Synthetic leather and lycra finger gussets
- Elastic cuff with adjustable hook and loop TPR closure



Part #	Mfg #	Size
APL00235	10057	Medium
APL00236	10057	Large
APL00237	10057	X-Large

## Gloves

### Cowhide Driver's Gloves

- Tough, durable, suede cowhide leather
- Easy-action thumb, unique design allows leather to conform to your thumb and hand
- Gunn cut with seams away from wear surfaces
- Lap-seam index finger and shirred elastic wrist back
- Gray color



Part #	Mfg #	Size
TOL03785	40004	Medium
APL00177	40006	Large

## Deerskin Work Gloves

- Premium deerskin, soft and form-fitting for maximum comfort
- Gunn cut with seams away from wear surfaces
- Inseam index finger
- Shirred elastic wrist back
- Natural light tan color



Part #	Mfg #	Size
APL00150	40021	Medium
APL00151	40022	Large

## Heavyweight Jersey Gloves

- Soft, comfortable, general-purpose gloves
- 100% Cotton jersey
- Comfortable knit wrist
- Dark brown color



Part #	Mfg #	Description
TOL03784	40002	Jersey Gloves, Fits Most Hand Sizes

## Lined Heavyweight Jersey Gloves

- 100% Cotton jersey
- Fleece lining with open cuff
- Dark brown



Part #	Mfg #	Description
TOL03783	40001	Fits Most Hand Sizes

## Lined Cowhide Driver's Gloves

- Suede cowhide leather
- Thermolite® lining for warmth
- Gunn cut with seams away from wear surfaces
- Shirred-elastic wrist
- Gray



Part #	Mfg #	Size
TOL02739	40014	Large
TOL02740	40015	X-Large

# Personal Protection

## Lined Deerskin Work Gloves

- Premium deerskin, soft and form-fitting for maximum comfort
- Gunn cut with seams away from wear surfaces
- Inseam index finger
- Sheep-like pile lining
- Shirred elastic wrist back
- Natural light tan color



**KLEIN TOOLS**

Part #	Mfg #	Size
APL00239	40016	Medium
APL00240	40017	Large
APL00241	40018	X-Large

## Journeyman™ Camouflage Gloves

- Mossy Oak® break-up infinity pattern
- Moisture wicking and breathable Trek Dry™ stretch material
- Sponge foam and tricot lining
- Reinforced thumb and finger panels
- Single layer seamless synthetic leather palm
- Soft molded rubber closure with hook and loop



**KLEIN TOOLS**

**JOURNEYMAN**

Part #	Mfg #	Size
APL00441	40208	Medium
APL00442	40209	Large
APL00443	40210	X-Large

## Journeyman™ Cold Weather Pro Gloves

- Palm and fingers lined with Thinsulate C40™
- Water-resistant nylon back lined with Thinsulate C100™
- Rubberized palm
- 2mm EVA Foam padding in palm
- 5mm EVA Foam knuckles
- Neoprene thumb and cuff



**KLEIN TOOLS**

**JOURNEYMAN**

Part #	Mfg #	Size
APL00444	40211	Medium
APL00445	40212	Large
APL00446	40213	X-Large

## Journeyman™ Extreme Gloves

- Flexible thermo plastic rubber and EVA foam for fingers, knuckles, and back of hand
- Impact-absorbing PORON® padding material in palm
- Palm and thumb reinforced with synthetic leather
- Breathable 2-way stretch material
- Tricot lining
- Rubberized fingertips



**KLEIN TOOLS**

**JOURNEYMAN**

Part #	Mfg #	Size
APL00450	40217	Medium
APL00451	40218	Large
APL00452	40219	X-Large

## Journeyman™ Grip Gloves

- Armortex® rubberized grip on fingers
- Reinforced synthetic leather palms and thumb
- Impact-absorbing PORON® padding material in palm
- Moisture wicking and breathable Trek Dry™ stretch material
- Sponge foam and tricot lining
- Flexible thermo plastic rubber protects fingers
- Machine washable



**KLEIN TOOLS**

**JOURNEYMAN**

Part #	Mfg #	Size
APL00447	40214	Medium
APL00448	40215	Large
APL00449	40216	X-Large

## Journeyman™ Leather Gloves

- Genuine professional grade leather
- Flexible thermo plastic rubber for fingers and back of hand
- 2mm EVA Foam padding in palm
- Moisture wicking and breathable Trek Dry™ stretch material
- Sponge foam and tricot lining
- Neoprene cuff
- Soft molded rubber closure with hook and loop



**KLEIN TOOLS**

**JOURNEYMAN**

Part #	Mfg #	Size
APL00453	40220	Medium
APL00454	40221	Large
APL00455	40222	X-Large

# Personal Protection

## Journeyman™ Utility Gloves

- Moisture wicking and breathable Trek Dry™ stretch material
- Sponge foam and tricot lining
- Synthetic rubber palm
- Reinforced thumb and finger panels
- Machine washable



Part #	Mfg #	Size
APL00438	40205	Medium
APL00439	40206	Large
APL00440	40207	X-Large

## Lineman Work Gloves

- 4" Leather and neoprene cuffs with side vents
- Soft grain leather construction with reinforced leather palm and finger patches
- Double-row padded knuckles for durability
- Black spandex back with Klein Lineman logo patch



Part #	Mfg #	Size
TOL03777	40080	Medium
TOL03778	40082	Large
TOL03779	40084	X-Large

## Gloves

### Jersey Gloves



Part #	Mfg #	Description
APL00112	540-1100	9 oz Brown Jersey

### Nitrile Gloves for Wet and Dry

- Foam control gloves for industrial use
- Provides high level of wet and dry grip
- Standard in applications where tactile sensitivity is required



Part #	Mfg #	Color	Size
APL00243	540-1005L	Purple	Large

## Leather Work Gloves

- Wing thumb pattern with elastic on back
- Continuous pull patch
- Seamless full leather index finger
- Leather knuckle strap
- Leather finger tips
- Full jersey lined palm



Part #	Mfg #	Description
APL00104	540-2114	Safety Cuff
APL00105	540-2214	4-1/2" Waterproof Cuff
APL00106	540-2144	Full Red Jersey Lined
APL00107	540-2200	Renegade™ Performance with Kevlar Thread

## Latex Gloves

- Disposable natural latex rubber
- Natural feel and grip



Part #	Mfg #	Qty
APL00168	23010	50/Pk

## String Knit Gloves

- Ambidextrous
- Seamless



Part #	Mfg #	Description
APL00108	540-1050	Cotton String Knit Gloves

## 100% Cotton Canvas Gloves



Part #	Mfg #	Description
APL00109	540-1000	8 oz Canvas with Knit Wrist

# Personal Protection

## HandMaster® Gloves



Box Handler

Heavy Utility

Part #	Mfg #	Size	Type
APL00178	540-BH1L	Large	Box Handler
APL00214	540-HU1M	Medium	Heavy Utility
APL00215	540-HU1L	Large	Heavy Utility

## Gloves

### ProCoat® PVC-Dipped Glove

- For use in mining, construction, refining, petrochemicals, and handling oily materials
- PVC Over cotton double-dipped for liquid protection and extended wear
- Interlock lined
- Sandy finish
- Gauntlet cuff
- Over length: 12" (30.5 cm)
- Palm width: 5" (12.7 cm)
- Black color
- CE Certified



Part #	Mfg #	Size
APL00370	58-8130DD	Men's One Size

### Unlined Top Grain Cowhide Driver's Glove

- For use in construction, machine operation, light duty welding, utility work, farming, roping, and many others
- 0.9 to 1.0 mm Cowhide leather
- Slip-on cuff
- Natural color
- ISO9001:2008 Certified



Part #	Mfg #	Size
APL00371	68-163	Small
APL00372	68-163	Medium
APL00373	68-163	Large
APL00374	68-163	X-Large
APL00369	68-163	XX-Large

### Lined Top Grain Cowhide Driver's Glove

- For use in cold weather applications including farming, construction, machine operation, and refrigeration
- 1.0 (+ or - 0.1) mm Cowhide leather
- Slip-on cuff
- Natural color
- ISO9001:2008 Certified



Part #	Mfg #	Size
APL00375	77-268	Medium
APL00376	77-268	Large
APL00377	77-268	X-Large

### Top Grain Cowhide Glove Protector for Novax Gloves

- To be used only for mechanical protection for rubber insulating gloves
- Not to be used for electrical protection per ASTM F696-02
- 1.0 to 1.6 mm Cowhide leather
- Gauntlet cuff
- Natural color



Part #	Mfg #	Size
APL00394	14840008	8
APL00395	14840009	9
APL00396	148400010	10

### G-Tek® Latex Crinkle Grip on Cotton/Polyester Gloves

- For use in assembly, construction, inspection, material handling, refuse handling, landscaping, and gardening
- Latex rubber coated palm and finger tips
- Seamless gray cotton/polyester liner
- "Crinkle" finish
- Continuous knit cuff
- Ergonomic shaped curved finger pattern
- Uncoated back allows hand to breathe
- ISO 9001 Certified
- CE Certified



Part #	Mfg #	Size
APL00379	39-C1305	Small
APL00381	39-C1305	Large
APL00382	39-C1305	X-Large

# Personal Protection

## Great White® Seamless Knit Dyneema®/Lycra Glove with Polyurethane-Coated Smooth Grip

- For use in electronics, glass cutting, metal handling, food processing, and meat processing
- Polyurethane -coated palm for abrasion/puncture resistance, and wet/dry grip
- Lightweight Dyneema® and Lycra shell for dexterity, tactile sensitivity, and cut resistance
- Continuous knit cuff
- CE Certified



Part #	Mfg #	Size
APL00383	19-D622	Small
APL00384	19-D622	Medium
APL00385	19-D622	Large
APL00386	19-D622	X-Large
APL00387	19-D622	XX-Large

## Storage Bags

### Novax® Nylon Protective Bag

- For use with 11" or 14" Novax® rubber insulating gloves
- Lightweight with plastic hook for mounting
- Snap closure
- Black color with red and white lettering



Part #	Mfg #	Description
CAS01996	148-2136	Nylon Protective Bag

## Kleenguard® Protective Clothing

### Kleenguard® A40 To-Go Liquid & Particle Protection Coverall

- Zippered front, open wrists and ankles
- Breathable, microporous film laminate
- Better liquid and particulate barrier than TYVEK®
- Low in lint
- Individually wrapped
- ANSI/ISEA 101-1996 Sizing standard



Part #	Mfg #	Size	Wrist/Ankle
APL00349	44344	XL	Open
APL00350	44345	2XL	Open

## Coveralls

### PosiWear® 3600 BA Microporous Basic Coverall

- Breathable Advantage™ protects against both dry particulate and liquid sprays



Part #	Mfg #	Size
APL00406	3600-XL	X-Large
APL00407	3600-2XL	XX-Large

## Shoe Covers

### SBP Non-Skid Shoe Cover

- Polypropylene



Part #	Mfg #	Description
APL00423	3518BNS	Polypropylene Shoe Cover

### SC-NWI Polypropylene Shoe Cover

- White
- (100) Pairs per case



Part #	Mfg #	Description
APL00404	SC-NWI-L	Large

### SC-CPE Non-Skid Polypropylene Shoe Cover

- Light vinyl-embossed
- Blue and white
- Water repellent
- (150) Pairs per case



Part #	Mfg #	Description
APL00403	SC-CPE-L	Large

### Shoe Liner Booty

- WP Suffix = Waterproof



Part #	Mfg #	Qty (Pairs)
COV03639	SC-1	50/Box
COV04640	SC-1WP	40/Box

# Personal Protection

## Earplugs

### 3M™ E-A-R™ Classic™ Earplugs

- Noise reduction rating 29dB
- Push-to-fit corded foam earplug



Part #	Mfg #	Description
APL00458	310-1060	Foam Earplugs, 360/Case

### 3M™ E-A-R™ ARC Plug™ Earplugs Hearing Conservation in Carrying Case

- Noise reduction rating: 22 dB CSA class AL
- Hear-Through™ design allow workers to hear conversations, signals or other critical sounds clearly, while helping protect against impulse noise from an arc flash
- Double-end versatility
- Tri-flange, push-to-fit design washable and reusable
- Material successfully tested for ARC exposures of category 2 and higher, ASTM F1959-2005 modified



Part #	Mfg #	Description
APL00400	370-2000	Earplugs

### Max® Single-Use Earplug

- Highest NRR (NRR 33) and SNR available in single-use
- Polyurethane foam
- Contoured design easier to insert
- Smooth, soil-resistant skin
- Single-use, disposable earplug



Part #	Mfg #	Description
APL00346	MAX-30	Corded, Polybag

## Earmuffs

### Thunder® Folding Band Noise Blocking Earmuff

- Noise reduction rating: 25
- Over-the-head design
- Folding adjustable headband
- Dielectric construction
- Bilsom® Technology's patented Air Flow Control™ technology for optimal attenuation across all frequencies and snap-in ear cushions for easy maintenance



Part #	Mfg #	Description
APL00347	1011600	T1F, Light Green Folding

### Thunder® Helmet Noise Blocking Earmuff

- Noise reduction rating: 27
- Dielectric construction
- Bilsom® Technology's patented Air Flow Control™ technology for optimal attenuation across all frequencies and snap-in ear cushions for easy maintenance
- Uniform headband pressure for all head sizes



Part #	Mfg #	Description
APL00348	1011603	T3H, Black

## Protective Hats and Caps

### V-Gard Slotted Cap - Fas-Trac Suspension

- Meets or exceeds the applicable requirements for a Type I helmet (top impact) as outlined in ANSI/ISEA Z89.1-2009, Class E



Part #	Mfg #	Description
CAP01197	475358	Standard (6-1/2 - 8) White

## Hard Hats & Caps

### V-Gard® Cap & Hat

- Polyethylene shell with 4-point Fas-Trac® ratcheting suspension
- Standard size fits head sizes 6 to 8
- Plain front, Klein Tools Lineman Logo or Klein tools standard logo
- Third party certified by Safety Equipment Institute



Shown in White



Part #	Mfg #	Description	Color
APL00487	60030	Plain Front	Blue



# Personal Protection

## Full Face Shield for Standard Hard Caps

- Fits standard hard caps 60009, 60010, and 60011
- All-plastic construction
- High-impact full-front cap and chin guard
- Free-floating ratchet head gear with full-tension adjustment and sweat band
- Anti-warp design resists dimensional distortion from heat and moisture
- Acetate window mounts on keyhole studs
- Ample internal window clearance
- Window dimensions: 19-1/2" x 6-1/2"



Part #	Mfg #	Description
TOL02444	60060	Full Face Shield with Chin Guard

## Face Shields

### 3M™ Adjustable Ratchet Headgear System with Face Shield

- Adjustable 5-position crown strap and 13-position ratchet suspension
- Molded face shield provides impact protection
- Requires protective eyewear, sold separately
- Includes H8A ratchet headgear and WP96 clear polycarbonate face shield



Part #	Mfg #	Description
APL00460	82783	Headgear Safety System

## Head/Face Protection

### PIP® Premium Headgear with Ratchet Suspension

- For use in grinding
- Lightweight and durable blue polypropylene
- Visor attaches easily with pin adjustment, and flips up out of the way when not in use
- Premium fine tooth ratchet for more exact fit
- Visors for other applications sold separately
- Includes brow sweatband
- Meets ANSI Z87.1 requirements



Part #	Mfg #	Description
APL00392	251-01-5200	Premium Fine Ratchet

### PIP® Polycarbonate Universal Fit Safety Visor

- For use in high heat/impact resistant situations as well as general grinding
- Clear polycarbonate .040 visor
- Virgin polycarbonate resin for better viewing uniformity
- Universal hole pattern to fit most headgear and hard hat adapters
- Ships with masking on both sides to prevent scratching
- Meets ANSI Z87.1+ requirements



Part #	Mfg #	Size
APL00393	251-01-5201	8" x 15-1/2"

### Hardcap A1+™ Short Brim Baseball Style Bump Cap with HDPE Protective Liner

- For use as safeguard against accidental bumping or scraping of the head in areas where hard hats are not required
- Ultra-sleek design
- Removable HDPE liner so outer cap can be washed
- Unique size adjuster slides on an elastic strip for quick, secure fit and is angled downward to fit under nape of neck
- Terry-cloth sweatband
- Reflective piping
- Holes in liner match up with (2) mesh panels in cap for ventilation



Part #	Mfg #	Description
CAP01196	282-ABS150-12	Black/Gray

### Pro-Wear® Arc Flash Protection Clothing & Kits

#### Protection Hood

- 360° Head and neck protection from arc flash dangers
- Made from (2) layers of rib knit material and has an elastic face opening
- Made from FR materials



by Honeywell

Part #	Mfg #	ATVP Ratings
APL00362	AFHOOD10	10 Cal

# Personal Protection

## AS1200 SeriesHRC 2 Universal Fit Protective Faceshield

- 12 cal ATPV Rating
- 7.5" x 20" Viewing area
- Extra light tint
- .06" Thick
- Absorbs >99.9% of harmful UV radiation
- Resistant to fogging
- Weight balancing design
- Replaceable window
- Ventilated design, adjustable pivot tension



**SALISBURY**  
by Honeywell

Part #	Mfg #	Description
APL00368	AS1200HAT	Weight Balancing Arc Flash Protection Faceshield Unit w/Hard Hat

## Arc Flash Safety Kit

- Includes:
  - Hard hat (AS1200HAT)
  - 10 CAL/CM2 ATPV rated hood(AFHOOD)
  - Safety glasses
  - Salisbury® storage bag



**SALISBURY**  
by Honeywell

Part #	Mfg #	Description
KIT16553	SKA10	Safety Kit

## Storage Bag



ASBAG



SKBAG

**SALISBURY**  
by Honeywell

Part #	Mfg #	Description
CAS01995	ASBAG	Cotton Canvas Storage Bag w/Drawstring Closure & Fleece Interior, for AS1000 Series Products
CAS01994	SKBAG	Large Storage Bag 15"H x 12"W x 24"L

## Aprons

### Vinyl Sewn-Edge Apron

- Resistant to acids, alkalis, solvents, chemicals, oils, fats, grease and salt
- 35" width



Part #	Mfg #	Length
APL00405	UHB-45	45"

### CPP Vinyl Aprons

- PVC Aprons provide resistance to chemicals, fats, oils, greases, punctures and abrasions
- Standard length: 33"
- (12) Aprons per bag in various sizes



Part #	Mfg #	Thickness	Size
APL00355	56-007	6 mil	44", 47", 49", 54"

## Safety Vests

### PIP® Yellow 2-Tone 6-Pocket Surveyor's Vest with Solid Front and Mesh Back

- For use in construction, municipalities, shipyards, and anywhere hi-visibility apparel is necessary
- 100% Polyester mesh and solid tricot
- 2" 2-Tone tape for optimum visibility
- Zipper closure
- (2) Mic tabs with reinforced stitching
- (2) Lower external flap pockets
- (2) Internal lower pocket
- (1) Chest radio pocket
- (1) Chest pocket with (4) pen pockets in front
- Hi-Vis lime yellow color
- ANSI/ISEA 107-2010 Class 2



Part #	Mfg #	Size
APL00388	3020500YEL	Large
APL00389	3020500YEL	X-Large
APL00390	3020500YEL	XX-Large
APL00391	3020500YEL	XXX-Large

# Personal Protection

## GloWear® 8205HL Class 2 Super Economy Vest

- ANSI-Certified polyester mesh
- Hook and loop closure
- 2" Level 2 ANSI-certified tape



Part #	Mfg #	Description
APL00399	20967	2X-Large/3X-Large Orange

## Bags

### Arsenal® 5020 Fire & Rescue Duffel Bag

- Straightforward equipment storage
- Removable adjustable shoulder strap
- Durable 600D nylon body material
- Heavy-duty ribbed straps, top, and sides
- Bag dimensions: 12" x 12" x 23"



Part #	Mfg #	Size	Color
CAS01997	5020S	Small	Red
CAS01998	5020M	Medium	Red

## Floor Mats

### Knee Rx™ Floor Pad

- Offers durable heavy-duty rubber bottom surfaces



Part #	Mfg #	Size
APL00361	951S1222BL	12" x 22"

## Safety Supplies

### Disposable Dust Mask

- Lightweight
- Metal nose clips



Part #	Mfg #	Description
APL00113	5-500	Disposable Dust Mask

## First Aid Kits



Part #	Mfg #	Size
KIT12493	FAK-10	10-Person
KIT12541	FAK-25	25-Person

## First Aid Kits

### North Bulk First Aid Kit

- Contains economic bulk supplies
- Ideal for service settings
- Waterproof
- ANSI Z308.1-Z003 Compliant



by Honeywell



Part #	Mfg #	Description
KIT16557	019703-0002L	Metal Bulk First Aid Kit, 25 Person

## Personal Protection Equipment Kits

### Ingersoll Rand Manager PPE Kit

- Includes:
  - White safety cap with v-gard staz-on suspension
  - Clear lens, rimless safety glasses
  - Orange disposable foam earplugs, NRR 33
  - Red fire rescue gear bag



Part #	Mfg #	Description
KIT16550	KIT16550	Manager PPE Kit

# Personal Protection

## Ingersoll Rand Technician PPE Kit

- Includes:
  - White safety cap with v-gard staz-on suspension
  - Blue ratchet suspension headgear
  - Clear faceshield visor
  - Clear lens, rimless safety glasses
  - Orange disposable foam earplugs, NRR 33
  - 25-Person north bulk first aid kit
  - Black heavy-duty kneeling pad
  - Baseball style bump cap
  - Folding earmuff, NRR 25
  - Splash protection vinyl apron
  - Red fire rescue gear bag



Part #	Mfg #	Description
KIT16551	KIT16551	Technician PPE Kit

## Repellents

### UltraThon™ Insect Repellent

- Time-release DEET formula
- Splash and sweat resistant
- 8 to 12 Hour protection



Part #	Mfg #	Description
CHM01175	70100098881	2 oz Lotion

## Lockout/Tagout



Part #	Mfg #	Description
LAT00992	103533	Safety Padlock, Red, 1-3/4"H x 1-1/2"W x 4/5"D
LAT00993	51379	Safety Padlock Labels

## Lockout Pouches

- Does not include lockout gear
- Heavy-duty nylon



Part #	Mfg #	Description
KIT16552	50979	Large Lockout Pouch 8"H x 7"W x 3"D
BLL01906	51172	Lockout Belt Pouch 4-3/4"H x 7-1/2"W x 2"D

## Clamp-On Breaker Lockout

- Accepts lock shackles up to 9/32" diameter
- Polypropylene and impact-modified nylon
- Easy to install using patented thumbscrew
- Cleats are included for use with breakers with long, sliding switch throws



Part #	Mfg #	Description
LAT00994	65396	120/277V Clamp-On Breaker Lockout
BKR02330	65397	480/600V Clamp-On Breaker Lockout

## Nylon Lockout Hasp

- Non-conductive, high-visibility orange nylon
- Can withstand up to 1,000 lbs
- Supports up to (6) 3/8" locks



Part #	Mfg #	Description
LAT00995	99668	Nylon Lockout Hasp

## Lockouts

### Lockout with Interlocking Tabs

- Designed for locking out power sources such as disconnects, switches, and panel boxes
- Double interlocking hasp of tempered steel with patented interlocking tabs for extra security
- Hasps bright zinc-plated
- Riveted construction
- Six-hole locking bodies coated with red vinyl plastic
- Holes will accept up to 5/16" diameter shackles



Part #	Mfg #	Closed Hasp
TOL02529	45200	1" ID

# Chiller Leak Detectors

## Tube Leak Detectors

### Tube Leak Detector Kit

- Visible pressure gauges
- Quick disconnect fittings
- For tubes up to 1" OD
- Includes (2) pneumatic guns and carrying case



Part #	Mfg #	Description
KIT16739	LD-2X2	Leak Detector Kit

### LD2X2 Replacement Seal Kit

- Includes (2) sets of seals



Part #	Mfg #	Description
KIT16740	LDW-075	(2) 3/4" Seals, 16-18 Gauge and (2) 3/4" Seals, 19-22 Gauge
KIT16741	LDW-078	(2) 7/8" Seals, 16-18 Gauge and (2) 7/8" Seals, 19-22 Gauge
KIT16742	LDW-100	(2) 1" Seals, 16-18 Gauge and (2) 1" Seals, 19-22 Gauge

### LD2X2 Adapter Assemblies

- Includes (2) adapters and (2) sets of seals



Part #	Mfg #	Description
ADP01360	LDA-058A	Adapter Assembly
ADP01361	LDA-058B	Adapter Assembly



# Accessories

## Accessories

### Fuse



Part #	Mfg #	Description
380.25-6X32	380.25-6X32	Fast Acting 250mA Fuse for S2300
FUS02340	FA-0.5A/700V	Siba 5A/700V Fuse
FUS02341	FA-12.5A/500V	12.5A/500V Fuse
FUS02342	FA-6X32/.63	63A/500V Fuse
FUS02343	FA6X46MM	Fast Acting 250mA/1000V Fuse
FUS02344	FP100	10A/1000V Ceramic Fuse for 33xr, 34xr, 37xr, 38xr, 2/Pk
FUS02345	FP125	0.1A @ 250V Fast Blow Fuse, 4/Pk
FUS02346	FP160	10A/600V Ceramic Fuse for 30xr, 2/Pk
FUS02347	FP200	2A/1000V Fuse for 15xp, 35xp, 2/Pk
FUS02348	FP225	0.5A/250V Fuse, 4/Pk
FUS02349	FP300	0.315A/1000V Fuse for 33xr,34xr, 4/Pk
FUS02350	FP375	0.2A/600V Fuse, 4/Pk
FUS02351	FP400	10A @ 600V Ceramic Fast Blow Fuse, 4/Pk
FUS02352	FP410	11A/1000V Fuse
FUS02353	FP412	44A/1000V Fuse
FUS02354	FP425	20A/600V Fuse, 2/Pk
FUS02355	FP500	0.5A/1000V Ceramic Fuse for 37xr, 38xr, 4/Pk
FUS02356	FP520	500mA/500V Fuse, 2/Pk

### Outlet Line Splitter

- Measure current from outlets without splitting AC line cords
- (2) Measurement loops for increased sensitivity, X1 and X10
- Built-in voltage measurement points to check for voltage sags and surges
- Rated for 120V, 15 Amps



Part #	Mfg #	Description
ELS2A	3027072	AC Outlet Line Splitter

### Temperature Adapter



Part #	Mfg #	Description
TA-1A	2766054	Temperature Adapter K-Type Thermocouple with Shrouds

### Temperature Converter



- Converts multimeter to a thermometer
- °C/°F Switchable
- Uses type-K thermocouple sensor
- Includes TP255A bead probe
- Temperature range: -50 °C to 1000 °C (-58 °F to 1832 °F)

Part #	Mfg #	Description
MTR01201	TC253B	Temperature Converter

### TIC 410A Hot Stick Attachment

- Accessory attachment for TIC-300 PRO Tic Tracer AC voltage detector
- For checking transmission lines, power distribution equipment, down power lines, fuses, and load break connectors



Part #	Mfg #	Description
MTR01157	TIC-410A	48"L, Up to 121kV

### Mobile Data Logger Kits



- 2" x 2-5/8" Data logger tags
- Monitors both time and temperature
- Stores up to 2,048 records at specific intervals from 1 minute to 4 hours
- Surface-mount bracket with adhesive backing and stainless steel bead chain for hanging from racks or hooks
- Temperature range: -40° - 185°F (-40° - 85°C)
- Temperature accuracy: ±2°F from -4° - 158°F (±1°C from 20° - 70°C)
- PC Requirements:
  - Windows 95 or higher
  - Minimum of 10MB of hard-drive space
  - CD-ROM
- 1-Year limited warranty



Part #	Mfg #	Description
KIT15098	GL100	Temperature Data Logger Kit with 2 Tags, Cable, Connector & Software



# Accessories

## Accessories

### DR80 80 Series Meter Display Upgrade Kit

- White backlight and elastomers for 87 Series I and III and Fluke-88 display upgrade or repair

FLUKE

Part #	Mfg #	Description
KIT09703	DR80	Display Upgrade for 80 Series Meters

### PM9081 Dual Male Banana Plug to Female BNC Adapter

- Consists of (2) adapters
- Maximum signal voltage: 300V rms
- Maximum voltage to ground: 600V rms CAT III per IEC 61010-031

FLUKE

Part #	Mfg #	Description
ADP01127	PM9081/001	Banana Plug Adapter Set

### PT12 Pilot Tube

- Pilot tube for 922 meter

FLUKE

Part #	Mfg #	Description
TUB12293	PT12	12" Pilot Tube

### Mini-Connectors

- Isothermal screw terminal for K wire
- Suitable for up to 20 gauge thermocouple wire
- Color coded to industry standards (K-yellow) (J-black)
- 1-Year warranty



FLUKE

Part #	Mfg #	Description
TCP00101	80CK-M	K-Type, Male, 2/Pk

### 1730 Hanger Strap Kit

FLUKE



Part #	Mfg #	Description
FLUKE-17 30-HANG	FLUKE-1730-HAN GER	Hanger Strap Kit 2-Piece for Fluke 1730 Energy Logger

### Carbon Monoxide Tester Filter

FLUKE

Part #	Mfg #	Description
FLR06348	691188	PTFE Filter for CO-205 Aspirator Kit

### T5-Kit Starter Kit

FLUKE

- Includes:
  - SureGrip™ Test probes with removable comfort grips (TP220)
  - SureGrip™ Large jaw alligator clips (AC285)
  - Zippered soft case (C33)



Part #	Mfg #	Description
KIT13536	T5-Kit	Starter Kit

### CNX C3001 Modular Small Case

- Compatible with Fluke CNX wireless modules and Fluke CNX C3000 premium modular tool bag

FLUKE



Part #	Mfg #	Description
CAS01991	FLK-CNXC3001	Module Soft Case

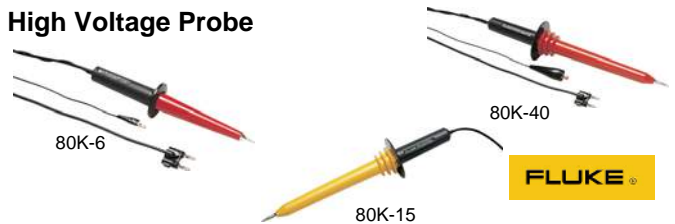
### 80TK Thermocouple Module

FLUKE



Part #	Mfg #	Description
MOD0126	80TK	K-Type Thermocouple Module 1

### High Voltage Probe



FLUKE

Part #	Mfg #	Description
TOL02099	80K-6	Extends Voltage Capability of AC/CD Voltmeter to 6,000V
TOL02239	80K-15	Extends Voltage Capability of AC/CD Voltmeter to 15,000V
TOL02240	80K-40	Extends Voltage Capability of AC/CD Voltmeter to 40,000V

## Accessories

### LVD Volt Light

- Non-contact AC voltage detector and LED flashlight combined
- Ultra-bright white LED with 100,000 hour bulb life
- LVD2: CATIV, 600V Rated



FLUKE

Part #	Mfg #	Description
LIT00914	LVD1	40 - 300VAC
LIT00941	LVD2	90 - 600VAC

### Alligator Clips

#### AC72 Alligator Clip

- Slide-on alligator clips (red and black) for TL71/TL75
- Jaws provide 8mm opening
- CAT IV 600V, CAT III 1,000V, 10A Rating, UL listed

FLUKE



Part #	Mfg #	Description
CLP00983	AC72	Alligator Clip Set

#### AC89 Heavy-Duty Insulation Piercing Test Clip

- Single probe pierces 0.25 to 1.5mm insulated wire
- Small pin allows self-healing of the insulation
- CAT IV 600V, CAT III 1,000V, 5A Rating, UL listed
- 1-Year warranty



FLUKE

Part #	Mfg #	Description
CLP00965	AC89	HD Insulation Piercing Test Clip

#### AC173 Bucktooth Alligator Clip Set

FLUKE



Part #	Mfg #	Description
TOL04032	AC173	Bucktooth Alligator Clip Set

### AC175 Alligator Clip

- Slide-on, insulated alligator clips (red, black) for TL71, TL75, TL175 and TP175
- Jaws provide 8 mm opening with flexible boots
- CAT III 1,000V, CAT IV 600V, 10 A Rating
- 1-Year warranty



FLUKE

Part #	Mfg #	Description
CON01618	AC175	Threaded Alligator Clip Set

### AC220 SureGrip™ Alligator Clip

- 1-Pair (red and black) of small, insulated, nickel plated jaws
- Blunt tip grabs round screw heads up to 9.5mm
- Recommended for use with TL222 and TL224 test leads
- CAT IV 600V, CAT III 1,000V, 10A Rating, UL listed
- 1-Year warranty



FLUKE

Part #	Mfg #	Description
CLP00979	AC220	SureGrip™ Alligator Clips

### AC283 SureGrip™ Pincer Clip

- 1-Pair (red and black) of nickel plated pincers open to 5mm
- 11.4cm Flexible insulated shaft
- Recommended for use with TL222 and TL224 test leads
- CAT IV 600V, CAT III 1,000V, 1A Rating, UL listed



FLUKE

Part #	Mfg #	Description
CLP00981	AC283	SureGrip™ Pincer Clips

### AC285 SureGrip™ Alligator Clip

- 1-Pair (red and black) of nickel plated steel jaws
- Multi-purpose tooth pattern grips
- Recommended for use with TL222 and TL224 test leads
- CAT IV 600V, CAT III 1,000V, 10A Rating

FLUKE



Part #	Mfg #	Description
CLP01122	AC285	SureGrip™ Alligator Clips



# Accessories

## Alligator Clip

- 1-Year warranty



Part #	Mfg #	Description
TOL03869	TL1500	Alligator Clips,Cat IV 1000V

## Industrial Test Clip

- Rated for 1,000V, 10A

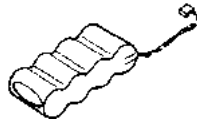


Part #	Mfg #	Description
CLP00966	AC87	Heavy-Duty Bus Bar Clips

## Batteries & Chargers

### BP120MH NiMH Battery Pack for Fluke 120 Series, Fluke 43 and Fluke 43B

- Replacement battery for Fluke 120 Series ScopeMeters and Fluke 43 and 43B Power Quality Analyzers



Part #	Mfg #	Description
BAT00059	BP120MH	Replacement Battery Pack for Fluke 120/43/43B

### BP189 High Capacity Battery Pack for Fluke 180 Series DMM

- Expand the battery life of Fluke 189 or Fluke 187 up to 450 hours
- 1-Year warranty



Part #	Mfg #	Description
BAT00056	BP189	High Capacity Battery Pack

### BP1730 Lithium Ion Battery Pack

- Replacement battery for Fluke 1730 Energy Logger



Part #	Mfg #	Description
BP1730-B ATTERY	BP1730	Replacement Battery for Fluke 1730 Energy Logger

### Ti20-RBP Rechargeable Battery Pack



Part #	Mfg #	Description
MTR01334	TI20-RBP	Replacement Battery Pack for Ti20

## Cables

### IR189USB Cable Adapter

- USB adapter for Fluke 287/289 Logging Multimeters



Part #	Mfg #	Description
CAB01274	IR189USB	USB Adapter for Fluke 287/289 Logging Multimeters

### PM9080/001 Optically Isolated RS-232 Adapter Cable

- For use with Fluke 123/123S/124/124S oscilloscope



Part #	Mfg #	Description
CAB01396	PM9080/001	Optically Isolated RS-232 Adapter Cable

### TI-USB Adapter



Part #	Mfg #	Description
CAB01397	TI-USB	USB Adapter for Thermal Imaging Systems

### 1730 Auxiliary Input Cable



Part #	Mfg #	Description
FLUKE-17 30-CABL	FLUKE-1730-CAB LE	Auxiliary Input Cable for FLUKE 1730 Energy Logger

## Current Clamps

### i40s-EL 40A Clamp-on Current Transformer

- Used for low current measurement
- Clamp capable of use on current conductors up to 15 mm diameter
- Suitable for measurements up to 40A, also measures accurately on 1A and 5A secondary current transformers



Part #	Mfg #	Description
I40S-EL	I40S-EL	40A AC Clamp-on
I40S-EL 3PK	I40S-EL-3PK	40A AC Clamp-on, 3/Pk



# Accessories

## 80i-110s AC/DC Current Clamp

- Compatible with any Fluke ScopeMeter® Test Tool, Power Harmonics Analyzer, Oscilloscope, Multimeter, or any other voltage measurement device that has the following features: BNC input connectors or if using a meter convert the banana plugs to a BNC connector using the adapter PM9081/001



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Part #	Mfg #	Description
MTR00952	80i-110s	1A to 100A AC/DC Clamp-on

## i200 AC Current Clamp

- Single range current clamp with current output via safety shrouded banana plugs



FLUKE

Part #	Mfg #	Description
CMP00956	i200	200A AC

## i400s AC Current Clamp

- Clamp-on AC current probe designed to extend the current measuring capability of an AC current meter
- (2) Ranges
- 1-Year warranty



FLUKE

Part #	Mfg #	Description
CMP01125	i400s	400A w/ BNC Output

## i1000s AC Current Probe

- Allows accurate measurement of currents from 100mA to 1,000A rms, 5Hz to 100kHz without breaking into the circuit
- A passive filter eliminates noise and ring on rapidly rising di/dt waveform, ensuring accurate screen displays
- Connects directly to an oscilloscope through a reinforced coaxial cable and an insulated BNC connector
- Can be used with Multimeters with optional (PM9081/001 BNC) Banana adapter
- 1-Year warranty



FLUKE

Part #	Mfg #	Description
CMP01025	i1000s	1,000A

## i1010 AC/DC Current Clamp for DMMs

- Battery-powered hall-effect probe
- 1mV/Amp output guarantees easy reading on your meter
- Take accurate current readings without breaking the circuit
- 1-Year warranty



FLUKE

Part #	Mfg #	Description
CMP00967	i1010	1,000A AC/DC

## i1730 iFlex® Current Clamp

- Available in 12", 24" and 36" models

FLUKE



Part #	Mfg #	Description
i1730-FLE X1500	I1730-FLEX1500	1500A AC
i1730-FLE X1500P	I1730-FLEX1500-3PK	1500A AC, 3/Pk
i1730-FLE X3000	i1730-FLEX3000	3000A AC
i1730-FLE X3000P	i1730-FLEX3000-3PK	3000A AC, 3/Pk
i1730-FLE X6000	I1730-FLEX6000	6000A AC
i1730-FLE X6000P	I1730-FLEX6000-3PK	6000A AC, 3/Pk

## i2500 iFlex® Flexible Current Probe

- 7.5mm Coil diameter allows measurement in tight spaces
- Easy one-handed operation
- 1.8m (6') Cable
- CAT IV 600 V, CAT III 1,000V rated
- 3-Year warranty



FLUKE

Part #	Mfg #	Description
TOL03517	i2500-10	10" iFlex® Current Probe
TOL03516	i2500-18	18" iFlex® Current Probe

# Accessories

## i3000s AC Current Clamp

- For use with oscilloscopes and multimeters with banana input using the supplied Dual Banana to BNC Adapter
- Measures currents up to 3,000A
- Optimized for measurement on power distribution systems
- CAT III 600V safety rating



Part #	Mfg #	Description
CMP01049	i3000s	(3) Ranges: 30A, 300A & 3,000A

## Meter Accessories

### ToolPak™

- Combine components to meet most hanging needs
- Includes:
  - Universal hanger clips
  - (2) Hook and loop straps (2 lengths)
  - Strong magnet



Part #	Mfg #	Description
KIT07904	TPAK	Meter Hanging Kit

### Multimeter Specialty Accessories



Part #	Mfg #	Description
ADP01159	80AK-A	K-Type Thermocouple Adapter
TCP00121	80BK-A	DMM Temperature Probe

## Software

### FlukeView® Forms



- Download data from meters in FlukeView® Forms to spot trends and document measurement data

Part #	Mfg #	Description
FVF-BASI	2396957	FlukeView® Forms Basic w/Cable C
TOL01801	FVF-SC2	FlukeView® Forms SC2 w/Cable f/18x/28x DMM
FVF-SC3	1675167	FlukeView® Forms SC3 for 45 Series DMM
FVF-SC4	2687335	FlukeView® Forms SC4 w/Cable for Series 8845/8846 Meters
FVF-SC5	2791314	FlukeView® Forms Basic SC5 w/oCable for Series 8845/8846
FVF-UG	1576741	FlukeView® Forms Upgrade From Basic to Designer
KIT08250	SCC120E	FlukeView® Software w/Cable and Carrying Case

## Test Clips

### 8845A-EFPT Extended Fine Point Tip Adapter Set

- Snaps onto DMM probes with .080" OD tips
- Designed to IEC 1010 standard
- Tips are insulated to the point to prevent shorting of adjacent components
- 300V Rms/DC, 3A



Part #	Mfg #	Description
TIP00183	8845A-EFPT	One Pair, (1) Red (1) Black

## Test Leads

### 3PHVL-1730 Voltage Test Lead



Part #	Mfg #	Description
3PHVL-17	3PHVL-1730	Voltage Test Lead Cable Assembly for Fluke 1730 Energy Logger

### 1730-TL2M Test Lead Set



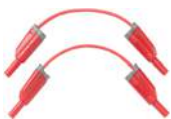
Part #	Mfg #	Description
FLUKE-17	FLUKE1730TL2M	2 M Test Lead Set for Fluke 1730 Energy Logger



# Accessories

## 1730-TL0.1M Test Lead Set

FLUKE

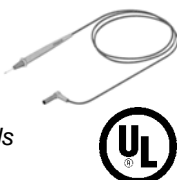


Part #	Mfg #	Description
FLUKE-1730-TL	FLUKE-1730-TL0.1M	100 mm Test Lead Set for Fluke 1730 Energy Logger

## Hard Point™ Premium Test Lead Set

- Includes:
  - 1-Pair (red and black) comfort grip probes
  - Silicone insulated, right-angle test leads
- Recommended for UV measurements
- CAT IV 600V, CAT III 1,000V, 10A Rating, UL listed

FLUKE



Part #	Mfg #	Description
LED00360	TL71	Hard Point™ Premium Test Leads

## TL26A 60" 5-Way Test Lead Set

- 5-Ways to connect:
  - U-Shaped nose for blade-shaped terminals
  - Notched jaw for gripping screw heads, bare wire or terminals
  - Serrated teeth for gripping threaded or wire-wrapped terminals
  - Cluster of sharp needles for piercing small gauge wires
  - Large piercing needles for penetrating larger gauge wires
- 60" Silicone-insulated leads
- Rated for 30V, 10A
- 1-Pair (red and black)



FLUKE

Part #	Mfg #	Description
LED00391	TL26A	60" 5-Way Test Lead Set

## TL27 Hard Point™ Heavy-Duty Test Lead Set

- Includes:
  - 1-Pair (red and black) of test leads with safety shrouded, standard diameter banana plugs
  - Heavy-duty EPDM insulation
- Cat III 1,000V, 10A Rating, UL listed
- 1-Year warranty



FLUKE

Part #	Mfg #	Description
LED00364	TL27	Hard Point™ Heavy-Duty Test Leads

## TL28A Automotive Test Lead Set

- Includes:
  - Large jaws, long leads and a piercing probe
  - Solid, spring-loaded copper slips with 12.7mm jaw opening and serrated teeth
  - Large piercing needle for penetrating larger gauge wire
  - Flexible silicone insulated leads
  - 1-Pair (red and black)
- CAT I 30V, 10A Rating



FLUKE

Part #	Mfg #	Description
TOL04174	TL28A	Automotive Test Lead Set

## TL40 Retractable Tip Test Lead Set

- 1-Pair (red and black) of test leads with sharp needle point tips adjustable to desired length from 0 to 76mm
- Extra hard probe tips to provide long service life
- Flexible silicone insulated test lead
- CAT III 300V, 3A Rating, UL listed
- 1-Year warranty



FLUKE

Part #	Mfg #	Description
LED00403	TL40	Retractable Tip Test Lead Set

## TL75 Hard Point™ Test Lead Set

- Recommended for general purpose measurements
- Includes:
  - 1-Pair (red and black) comfort grip probes
  - 48" PVC Insulated, test leads with right-angle shrouded banana plugs
- CAT IV 600V, CAT III 1,000V, 10A Rating, UL listed



FLUKE

Part #	Mfg #	Description
KIT07901	TL75	Hard Point™ Test Lead Leads

# Accessories

## TL80A Basic Electronic Test Lead Kit

- 1-Pair (red and black) each 1 meter long silicone test lead set
- Alligator clip
- Probe tip extender
- Soft carrying case (C75)
- CAT II 300V, UL Listed
- 1-Year warranty



Part #	Mfg #	Description
LED00388	TL80A	Basic Electronic Test Lead Kit

## TL81A Deluxe Electronic Test Lead Kit

- Includes pair (red and black) of the following items:
  - One meter long test lead with a safety shrouded, right angle banana connector on one end and a stainless steel test probe on the other end, rated up to 10A.
  - Silicone-insulated leads have superior flexibility in cold temperatures and resistance to high temperatures
  - Insulated alligator clip rated up to 5A
  - Insulated probe tip extender rated up to 3A
  - Modular test probe with banana connector in the handle, rated up to 10A
  - Modular hook-style clip test lead with banana connector, rated up to 5A
  - Modular pinch-style clip test lead with banana connector, rated up to 5A
  - Modular alligator clip with banana connector, rated up to 5A
  - Slide-on IC probe tip adapter (rated up to 3A) and test lead couplers
  - Bare spade lug with banana connector, rated up to 10A
  - Nylon pouch
- Compatible with Fluke® and other multimeters that accept safety shrouded, standard diameter banana connectors
- UL Approved, CAT III 300V
- 1-Year warranty



Part #	Mfg #	Description
LED00361	TL81A	Deluxe Electronic Kit

## TL220 SureGrip™ Industrial Test Lead Set

- Includes:
  - SureGrip™ Alligator clip set (AC220)
  - SureGrip™ Test probe set (TP220)
  - SureGrip™ Silicone (TL222) test lead set (right to right)



Part #	Mfg #	Description
LED00383	TL220	SureGrip™ Industrial Set

## TL221 SureGrip™ Test Lead Extension Set

- 1-Pair (red and black) of silicone insulated leads with straight connectors on both ends
- Reinforced strain relief
- Extends test leads by 1.5 meter
- Includes 1-Pair (red and black) of female couplers
- 600V CAT IV, 1,000V CAT III, 10A Rating, UL listed
- 1-Year warranty



Part #	Mfg #	Description
LED00379	TL221	SureGrip™ Test Lead Ext Set

## TL222 SureGrip™ Silicone Insulated Test Lead Set

- DMM test leads (red and black) with safety shrouded, standard diameter banana plugs
- Right angle connector on both ends
- Reinforced strain relief
- 1.5 Meter silicone-insulated wire resists heat and cold
- CAT IV 600V, CAT III 1,000V, 10A Rating, UL listed
- 1-Year warranty



Part #	Mfg #	Description
LED00381	TL222	SureGrip™ Silicone Insulated

## TL223 SureGrip™ Electrical Test Lead Set

- Includes:
  - SureGrip™ Alligator clip set (AC220)
  - Slim-Reach™ Test probes flat bladed (TP1)
  - SureGrip™ Silicone test lead set straight to right (TL224)



Part #	Mfg #	Description
LED00384	TL223	SureGrip™ Electrical Set

# Accessories

## TL224 SureGrip™ Insulated Test Lead Set

- DMM Test leads (red and black) with safety shrouded, standard diameter banana plugs
- Right angle connector on one end and straight connector on the other
- Reinforced strain relief
- 1.5 Meter silicone-insulated wire resists heat and cold
- CAT IV 600V, CAT III 1,000V, 10A Rating, UL listed



Part #	Mfg #	Description
LED00382	TL224	SureGrip™ Insulated

## TL238 SureGrip™ Test Lead Set for High Energy Environments

- Only 4mm of exposed metal at tip
- Includes:
  - SureGrip™ Insulated test probe set (TP238)
  - SureGrip™ Test probe extender (Tp280)
  - SureGrip™ Silicone right angle and straight test lead set (TL224)



Part #	Mfg #	Description
LED00392	TL238	SureGrip™ Test Lead Set for High Energy Environments

## TL970 Hook & Pincer Test Lead Set

- (3) Test lead sets:
  - Mini-hook test lead set (TL940)
  - Mini-pincer test lead set (TL950)
  - Micro-hook test lead set (TL960)



Part #	Mfg #	Description
LED00405	TL970	Hook and Pincer Test Lead Set

## TLK281 SureGrip™ Automotive Test Lead Kit

- Tested to 60VDC
- Includes:
  - Insulation piercing clip set (TP81)
  - SureGrip™ Silicone test lead set (TL224)
  - SureGrip™ Test probe set (TP220)
  - SureGrip™ Alligator clip set (AC220)
  - SureGrip™ Large jaw alligator clip set (AC285)
  - Soft case



Part #	Mfg #	Description
KIT14917	TLK281	SureGrip™ Automotive Test Lead Kit

## TLK289 Industrial Master Test Lead Set

- Includes:
  - Test lead set (TL224)
  - SureGrip™ Alligator clips (AC285)
  - SureGrip™ Alligator clips (AC220)
  - SureGrip™ Hook clips (AC280)
  - SureGrip™ Industrial test probes (TP220)
  - ToolPak™ Magnetic hanger (TPAK)
  - Type thermocouple temperature probe (80BK-AK)
  - Protective soft case (C116)



Part #	Mfg #	Description
LED00402	TLK289	Industrial Master Test Lead Set

## TLK220 EUR SureGrip™ Industrial Test Lead Kit

- Includes:
  - SureGrip™ Alligator clip set (AC220)
  - SureGrip™ Large jaw alligator clip set (AC285)
  - Lantern tip test probes (TP74)
  - SureGrip™ Silicone test lead set (TL224)
  - Large zippered soft case with moveable divider

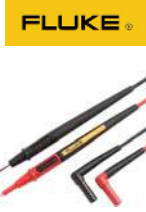


Part #	Mfg #	Description
KIT09672	TLK220	EUR SureGrip™ Industrial Test Lead Kit

# Accessories

## TwistGuard™ Test Leads

- Extendable tip shroud to reduce tip exposure
- WearGuard™ lead wire wear indication
- Double insulated silicone leads
- Extra-heavy duty strain relief on both probe-end and plug-end
- Universal input plugs
- Ratings: CAT II 1,000V, CAT III 1,000V, CAT IV 600V, 10A maximum, pollution degree 2



Part #	Mfg #	Description
KIT16143	TL175	TwistGuard™ Test Leads
KIT16144	TL175E	TwistGuard™ Test Leads with 4mm Lantern Tips

## Temperature Accessories

### 80PJ-EXT Extension Wire Kit

- Extending and repairing J-type thermocouple wires
- Includes:
  - 3 Meters of thermocouple wire
  - (1) Pair male/female mini-connectors
- Maximum continuous exposure temperature: 260°C
- Compatible with J-type thermometers
- 1-Year warranty



Part #	Mfg #	Description
KIT12496	80PJ-EXT	Extension and Repair Kit for J-type Thermocouple Wires

### 80PK-EXT Extension Wire Kit

- For extending and repairing K-type thermocouple wires
- Includes:
  - 3 Meters of thermocouple wire
  - (1) Pair of male/female mini-connectors
- Maximum continuous exposure temperature: 260°C
- Compatible with K-type thermometers
- 1-Year warranty



Part #	Mfg #	Description
KIT12221	80PK-EXT	Extension and Repair Kit for K-type Thermocouple Wires

### 80PK-1 Bead Probe

- Measurement range: -40°C to 260°C



Part #	Mfg #	Description
TCP00096	80PK-1	K-Type Thermocouple

### 80PK-8 Pipe Clamp Temperature Probe

- For fast temperature and superheat measurements of pipe surface
- Durable ribbon sensor
- Measurement range: -29°C to 149°C for pipe diameters from 6.4 to 34.9mm



Part #	Mfg #	Description
TCP00097	80PK-8	K-Type Thermocouple

### 80PK-9 General Purpose Probe

- Measures:
  - Surface
  - Air
  - Non-caustic gases
- Measurement range: -40°C to 260°C
- 1-Year warranty



Part #	Mfg #	Description
TOL01694	80PK-9	For K-Type Thermocouple

### 80PK-10 Pipe Clamp Temperature Probe

- For fast temperature and superheat measurement of larger pipes
- Pipe diameters: 32mm to 64mm
- Measurement range: -29°C to 149°C (-20°F to 300°F)
- Durable ribbon sensor
- 1m (39") Lead
- 1-Year warranty



Part #	Mfg #	Description
TCP00127	80PK-10	K-Type Pipe Clamp Temperature Probe



# Accessories

## 80PK-11 Type-K Flexible Cuff Thermocouple Temperature Probe

- Designed for hands free measurement of HVAC temperature measuring applications

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Part #	Mfg #	Description
TCP00117	80PK-11	K-Type Flexible Cuff Thermocouple Temp Probe

## 80PK-18 Pipe Clamp Temperature Probe Kit

- Includes:
  - (1) 80PK-8 Pipe clamp temperature probe
  - (1) 80PK-10 Pipe clamp temperature probe
- For pipe diameters: 6.4mm to 64mm
- Measurement range: -29°C to 149°C (-20°F to 300°F)
- 1-Year warranty

FLUKE

Part #	Mfg #	Description
TCP00128	80PK-18	K-Type Flexible Cuff Thermocouple Temp Probe

## 80PK-22 SureGrip™ Immersion Temperature Probe

- Used in liquids and gels
- Measurement range: -40°C to 1,090°C
- 1-Year warranty

FLUKE



Part #	Mfg #	Description
TOL02106	80PK-22	For K-Type Thermocouple

## 80PK-24 SureGrip™ Air Temperature Probe

- Used in air and non-caustic gas measurements
- Bead protected by perforated baffle
- Measurement range: -40°C to 816°C
- 1-Year warranty



FLUKE

Part #	Mfg #	Description
TCP00112	80PK-24	For K-Type Thermocouple

## 80PK-25 SureGrip™ Piercing Temperature Probe

- Suitable for food industry, liquids and gels
- Measurement range: -40° to 260°C
- 1-Year warranty



FLUKE

Part #	Mfg #	Description
TOL02105	80PK-25	For K-Type Thermocouple

## 80PK-26 SureGrip™ Tapered Temperature Probe

- For use in air, non-caustic gas and surface applications
- Measurement range: -40°C to 816°C
- 1-Year warranty

FLUKE

Part #	Mfg #	Description
TCP00113	80PK-26	For K-Type Thermocouple

## 80PK-27 SureGrip™ Industrial Surface Temperature Probe

- Type-K thermocouple for surfaces in rugged environment
- Durable ribbon sensor
- Measurement range: -127 to 600°C
- 1-Year warranty



FLUKE

Part #	Mfg #	Description
TOL02107	80PK-27	For K-Type Thermocouple

## 80PK-3A Surface Probe

- For flat or curved surfaces such as plates and rollers
- Measurement range: 0° to 260°C
- 1-Year warranty



FLUKE

Part #	Mfg #	Description
TOL01686	80PK-3A	For K-Type Thermocouple



# Accessories

## 80PR-60 Resistance Temperature Detector (RTD) Temperature Probe

- Probe element: platinum 1kW
- Temperature range: -40°C to 500°F
- For use with Fluke 66 and 68



FLUKE

Part #	Mfg #	Description
TOL02616	80PR-60	3.5" RTD Probe

## 80PT-EXT Extension Wire Kit

- For extending and repairing T-type thermocouple wires
- Includes:
  - 3 Meters of thermocouple wire
  - (1) Pair of male/female mini-connectors
- Maximum continuous exposure temperature: 260°C
- Compatible with T-type thermometers
- 1-Year warranty

FLUKE

Part #	Mfg #	Description
KIT12497	80PT-EXT	Extension and Repair Kit for T-type Thermocouple Wires

## 80T-150U Universal Temperature Probe

- Compatible with Fluke DMM
- High accuracy, fast reading for low voltage (below 24VAC, 60VDC) applications
- Measurement range: -50°C to 150°C
- Output: 1 mV/°C or 1 mV/°F (switchable)
- 1-Year warranty



FLUKE

Part #	Mfg #	Description
TOL03186	80T-150UA	Universal Temperature Probe (for DMMs)

## Test Probes

### TL910 Electronic Test Probes

- Very small 1mm tips
- Probe tip length up to 100mm
- Test lead length 1m
- (3) Sets of spring loaded gold tips
- (2) Sets of stainless steel tips
- Cat II 1,000V, 3A rating
- One year warranty



FLUKE

Part #	Mfg #	Description
KIT14881	TL910	Electronic Test Probes

## TLK225 SureGrip™ Master Accessory Set

- Includes:
  - SureGrip™ Alligator clip set (AC220)
  - SureGrip™ Hook clip set (AC280)
  - SureGrip™ Pincer clip set (AC283)
  - SureGrip™ Large jaw alligator clip set (AC285)
  - SureGrip™ Test probe set (TP220)
  - SureGrip™ Silicone test lead set (TL224)
  - 6-Pocket storage pouch



FLUKE

Part #	Mfg #	Description
KIT12257	TLK225	SureGrip™ Master Accessory Set

## TLK291 Fused Test Probe Set



FLUKE

Part #	Mfg #	Description
KIT14957	TLK291	Fused Test Probe Set

## TP1 Slim Reach Test Probe

- 1-Pair (red and black) of slender probe bodies for probing closely spaced or recessed terminals
- Hard stainless steel probe tips
- Flat blade design to hold securely in blade type electrical wall sockets
- CAT IV 600V, CAT III 1,000V, 10A Rating, UL listed
- 1-Year warranty



FLUKE

Part #	Mfg #	Description
TOL01685	TP1	Flat Blade Slim Reach Test Probes

## TP2 Slim Reach Test Probe

- 1-Pair (red and black) of slender probe bodies for probing closely spaced or recessed terminals
- Hard stainless steel probe tips 2mm diameter tip for electronics work
- Compatible with AC72
- CAT IV 600V, CAT III 1,000V, 10A Rating, UL listed
- 1-Year warranty



FLUKE



Part #	Mfg #	Description
TOL01743	TP2	2mm Slim Reach Test Probes

# Accessories

## TP4 Slim Reach Test Probe

- 1-Pair (red and black) of slender probe bodies for probing closely spaced or recessed terminals
- Hard stainless steel probe tips
- 4mm Diameter probe tip designed to fit securely into IEC electrical wall outlets
- CAT IV 600V, CAT III 1,000V, 10A Rating, UL listed
- 1-Year warranty



FLUKE

Part #	Mfg #	Description
TOL03322	TP4	4mm Slim Reach Test Probes

## TP38 Slim Reach Test Probe Set

- 1-Pair (red and black) of slender probe bodies for probing closely spaced or recessed terminals
- Hard stainless steel probe tips
- Insulated probe tip (designed to meet GS38 specs for United Kingdom)
- CAT IV 600V, CAT III 1,000V, 10A Rating, UL listed
- 1-Year warranty



FLUKE

Part #	Mfg #	Description
TOL03032	TP38	Insulated Slim Reach Test Probes

## TP74 Lantern Tip Test Probe Set

- (1) Pair (red, black)
- Includes banana-style spring contacts with nickel-plated brass ends
- CAT II 1,000V, 10A Rating
- CAT III 1,000V Rating only with protective cap
- 1-Year warranty

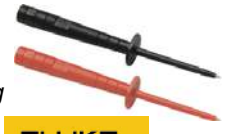


FLUKE

Part #	Mfg #	Description
TOL03408	TP74	Lantern Style Test Probe Set

## TP80 Electronic Test Probe

- 1-Pair (red and black)
- IC Insulated cap prevents shortening of IC legs for probing high density components or boards
- CAT III 1,000V, 10A Rating, UL listed
- 1-Year warranty



FLUKE



Part #	Mfg #	Description
TOL02896	TP80	Electronic Test Probe

## TP88 Rigid Back Probe Pin

- 2" Long rigid back probe pins
- Slides onto test probes measuring 2mm
- Tested to 60VDC



FLUKE

Part #	Mfg #	Description
TOL02874	TP88	Rigid Back Probe Pins

## TP165X Remote Control Test Probe

- Slim probe with test button for probing hard to reach points



FLUKE

Part #	Mfg #	Description
TOL03407	TP165X	Remote Control Test Probe

## TP220 SureGrip™ Industrial Test Probe

- 1-Pair (red and black) of Industrial test probes
- Sharp, 12mm stainless steel tip provides reliable contact
- Flexible finger barrier improves grip
- Recommended for use with TL222 and TL224 test leads
- CAT IV 600V; CAT III 1,000V, 10A Rating, UL listed
- 1-Year warranty



FLUKE

Part #	Mfg #	Description
TOL01954	TP220	SureGrip™ Industrial Test Probes



# Accessories

## TP920 Test Probe Adapter Set

- Set of push-on adapters for TL71 and TL75 test probes
- Includes:
  - IC Test adapters
  - Extended probe tips
  - Medium alligator clips (maximum opening 7.6mm)
- CAT III 300V, 3A Rating
- 1-Year warranty



FLUKE

Part #	Mfg #	Description
KIT09684	TP920	Test Probe Adapter Set

## Calibration Accessories

### 700PTP-1 Pneumatic Test Pump

- For use with 700 series pressure modules or test gauges
- Capable of supplying pressures up to 600 psi, 40 bar
- Easily cleaned without disassembly
- The vernier can be used as a stand-alone low pressure calibration source
- (2) Pressure ports allowing simultaneous connection:
  - 1/4" FNPT For reference gauge or pressure module
  - 1/4" FNPT For unit under test
- Adjustable stroke length can be set to limit the pressure per stroke
- 1-Year warranty



FLUKE

Part #	Mfg #	Description
TOL03323	FLUKE-700PTP-1	Pneumatic Test Pump f/700 Series Calibrators

## Thermal Imager Accessories

### Ti Car Charger

FLUKE



Part #	Mfg #	Description
TOL03690	TI-CARCHARGER	Car Charger for Fluke Thermal Imagers

## Ti Visor

- For use with Ti32/Ti29/Ti27/Ti25/Ti10/Ti9/TiR32/TiR29/TiR27/TiR1/TiR/TiRx/TiS infrared cameras
- Reduce LCD screen glare and reflection
- Indoor/outdoor
- Heavy-duty plastic
- Clips on without need for additional hardware
- Easily removed and stored when not in use



FLUKE

Part #	Mfg #	Description
TOL03691	TI-VISOR	Visor f/Fluke Infrared Cameras

## Tripod Mounting Base

- For use with Ti32, Ti29, Ti27, Ti25, Ti10, Ti9, TiR32, TiR29, TiR27, TiR, TiRx and TiS infrared cameras



FLUKE

Part #	Mfg #	Description
HLD00490	TI-TRIPOD	Tripod Mounting Base f/Ti32/29/27/25/10/9TiR32/29/27/TiR/TiS

## Accessories & Replacement Parts

### Test Connector Adapter Cord

- 12" Lead using #14-3 wire and female plug one end and 3 large clips on other end with red/black/green insulators
- 120/240VAC, 15A



Part #	Mfg #	Description
TOL01436	69522	Replaces Annie CA-220/Hi TL11

# Brushes

## Brushes

### Grip-Cleaning Brush Set

- Set of four wire-bristle brushes designed for cleaning Klein wire and cable-pulling grips
- Brushes have stiff wire bristles
- Available in round and square shapes and two lengths for efficient cleaning of different jaw configurations
- Semi-flexible steel shafts set into comfortable wooden handles provide the necessary reach into grips jaws
- Includes:
  - Round bristle 3/8" x 3", 12" long
  - Square bristle 3/8" x 3", 12" long
  - Round bristle 1-9/16" x 5", 14" long
  - Square bristle 1-9/16" x 5", 14" long



Part #	Mfg #	Description
TOL02878	25450	Brush Set

### Chip Brush

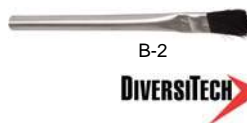
- 100% Pure bristle, wood handle
- Poly sleeve over bristles
- Ideal for applying duct adhesive



Part #	Mfg #	Description
BRU00447	B-501	1" Chip Brush
BRU00370	B-502	1-1/2" Chip Brush
BRU00344	B-503	2" Chip Brush
BRU00371	B-504	2-1/2" Chip Brush
BRU00372	B-505	3" Chip Brush

### Tin Handle Acid Brush

- Electrolyte tin plate and 100% pure stiff horsehair



Part #	Mfg #	Size
BRU00272	B-1	3/8"
BRU00273	B-2	1/2"

### Refrigerator Coil Brush

- Bristles are 3/4" on the end tapering to 1-1/2" toward the handle
- 27-1/2" Overall length, 11-3/4" brush length



Part #	Mfg #	Description
BRU00366	B-27	Refrigerator Coil Brush

### Welder's Brush

- Stainless steel bristles
- For cleaning aluminum



Part #	Mfg #	Description
BRU00271	B-4	Welder's Brush

### Duct Cleaning Brush

- Black fiber bristles twisted in wire
- 7" Brush x 48" overall length



Part #	Mfg #	Description
BRU00365	542-76220	2-1/8" Diameter

### Copper Tube Fitting Brush

- Rustproof stainless steel
- Bristles secured in 4-ply wire
- Easy-to-grip plastic handle



Part #	Mfg #	Description
BRU00274	B-924	1/4" OD, 9/32" Dia
BRU00275	B-925	3/8" OD, 13/32" Dia
BRU00276	B-926	1/2" OD, 17/32" Dia
BRU00277	B-927	5/8" OD, 11/16" Dia
BRU00278	B-928	3/4" OD, 13/16" Dia
BRU00279	B-929	7/8" OD, 15/16" Dia
BRU00280	B-930	1" OD, 1-1/8" Dia
BRU00281	B-931	1-1/8" OD, 1-1/4" Dia
BRU00282	B-932	1-3/8" OD, 1-1/4" Dia
BRU00283	B-934	1-5/8" OD, 1-1/4" Dia
BRU00284	B-935	2-1/8" OD, 1-1/4" Dia

### Economy Copper Tube Fitting Brush

- Rustproof stainless steel
- Bristles secured in 2-ply wire
- Easy-to-grip plastic handle



Part #	Mfg #	Description
BRU00285	B-124	1/4" OD, 9/32" Dia
BRU00286	B-125	3/8" OD, 13/32" Dia
BRU00287	B-126	1/2" OD, 17/32" Dia
BRU00288	B-127	5/8" OD, 11/16" Dia
BRU00289	B-128	3/4" OD, 13/16" Dia
BRU00290	B-129	7/8" OD, 15/16" Dia
BRU00292	B-131	1-1/8" OD, 1-1/4" Dia
BRU00293	B-132	1-3/8" OD, 1-1/2" Dia

# Brushes

## Scratch Brush

- General purpose cleaning
- Carbon steel curved handle



Part #	Mfg #	Description
BRU00294	B-10	Scratch Brush

## 2-in-1 Combination Copper Tube Cleaning Brush

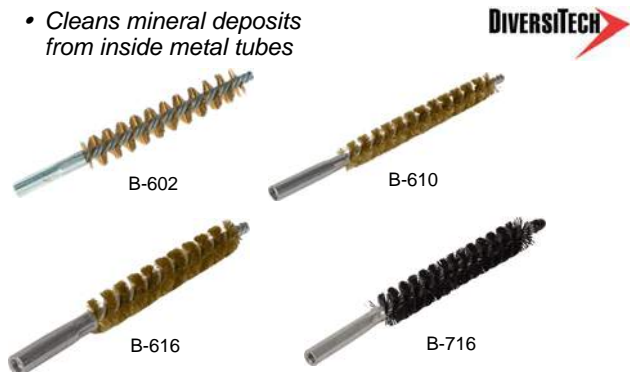
- One end cleans the fitting and the other side cleans the tube
- Bristles secured in 4-ply wire
- Plastic handle



Part #	Mfg #	Description
BRU00298	B-998	3/4" ID (7/8" OD)

## Condenser and Heat Exchanger Brush

- Cleans mineral deposits from inside metal tubes



Part #	Mfg #	Description
BRU00346	B-602	1/4" Brass 8-32 Female
BRU00376	B-604	3/8" Brass 12-24 Female
BRU00378	B-610	1/2" Brass 12-24 Female
BRU00380	B-616	5/8" Brass 12-24 Female
BRU00382	B-622	3/4" Brass 12-24 Female
BRU00383	B-628	7/8" Brass 12-24 Female
BRU00384	B-633	1" Brass 12-24 Female
BRU00347	B-702	1/4" Nylon 8-32 Female
BRU00348	B-713	9/16" Nylon 12-24 Female
BRU00362	B-716	5/8" Nylon 12-24 Female
BRU00360	B-719	11/16" Nylon 12-24 Female
BRU00361	B-733	1" Nylon 12-24 Female

## Fin Whisk

- Plastic handled whisk for cleaning condenser and evaporator fins



Part #	Mfg #	Description
BRU00345	B-26	Fin Whisk Brush

## Condenser and Heat Exchanger Brush for Commercial Tube Cleaning

- For commercial power tube cleaning machines



Part #	Mfg #	Description
BRU00301	B-316	5/8" Nylon 1/4-28 Male
BRU00299	B-322	3/4" Nylon 1/4-28 Male
BRU00300	B-333	1" Nylon, 1/4-28 Male

## Extension Rod for Condenser Tube Brush

- Aluminum rods thread into each other for endless length



Part #	Mfg #	Description
ROD01140	BE-24	24", 12-24 Thread, Male Thread One End, Female the Other
ROD01141	BE-36	36", 12-24 Thread, Male Thread One End, Female the Other
ROD01142	BE-48	48", 8-32 Thread, for 1/4" Brushes Only
HDL00898	BH-1	Handgrip, 4" Long Threads Into Rod

## Parts Cleaning Brush

- Heavy-duty black polypropylene brushes in strong plastic handle



Part #	Mfg #	Description
BRU00367	542-25015	Parts Cleaning Brush

## Outside Tube Cleaning Brush

Part #	Mfg #	Size
BRU00296	542-00968	3/4" ID

# Cable & Bolt Cutters

## Bolt Cutters

### Heavy-Duty Steel Handle Bolt Cutter

- Designed for constant use in demanding applications
- Heavy-duty side plates keep jaws aligned for clean, quick cuts through reinforcing rod, wire mesh, and guy strand
- Steel handles and precision ground, forged alloy tool steel jaws
- Lever design creates 4,000 lbs jaw pressure with 50 lbs handle pressure
- Heavy vinyl handle grips with flat grip ends for 90° cuts



Part #	Mfg #	Overall Length	Soft/Med Cap	Hard Cap
TOL03237	63536	36"	9/16"	7/16"

## Cable Cutters

### All Purpose Shears & BX Cutter - 7/8" Cut

- Plastic dipped handles
- Stripping notch
- Cuts a variety of materials including cable, sheet metal, steel strapping, and bundling wire
- Handle cavity designed to restore BX cable to original shape after cutting
- High leverage



Part #	Mfg #	Handle Color	Length
TOL02620	1104	Red	7-5/8"

### Heavy-Duty Cable Shears

- Heavy-duty tempered steel blades
- Handle lock
- Plastic coated handles
- Triangular jaws cleanly cut cable without compression or frayed ends
- Lightweight



Part #	Mfg #	Handle Color	Length
TOL03037	63016	Blue	7-1/2"

## High Leverage Cable Cutter

- High leverage design for exceptional cutting capability
- Precision, one-hand shearing action
- Cable gripping shear-type jaws
- Perfect for working in confined spaces
- Maximum cable cutting capacity: 4/0 aluminum, 2/0 soft copper, 100-pair 24 AWG communications cable



Part #	Mfg #	Handle Color	Length
TOL02541	63050	Red	9-1/2"

## Journeyman™ High Leverage Cable Cutter

- Cuts up to 4/0 aluminum AWG, 2/0 AWG soft copper and 100-pair 24 AWG communications cable
- Precision, one-hand shearing action
- Cable-gripping shear-type jaws
- Dual material handles



Part #	Mfg #	Handle Color	Length
TOL02764	J63050	Red/Black	9-9/16"

## Multi-Cable Cutter Klein-Kurve® - Spring Action

- Copper curved cutter cleanly cuts round copper cable without compression or frayed ends
- Screw shearing 6-32 and 8-32
- Anvil cutter for solid and stranded copper wire up to 12 AWG and stainless steel up to .032" diameter
- Mild steel cutter for conductors up to .080" diameter
- Curved cutter for solid and stranded copper wire up to 8 AWG, multi-conductor cable up to 1/2" diameter and coaxial cable RG-6 Quad, RG-59, and RG-62
- Holes for looping and bending wire
- Handy closure lock
- Red double dipped grips



Part #	Mfg #	Handle Color	Length
TOL02621	63020	Red	7"

# Cable & Bolt Cutters

## Ratcheting Cable Cutter

- High leverage ratchet mechanism for single-handed cutting of copper and aluminum cables
- Patented two-step ratchet requires fewer strokes per cut
- Quick release lever opens blades easily in every cutting position
- Precision ratcheting mechanism holds cable tight and allows rapid, straight cuts with minimum effort
- Hardened steel cutting blades with hand guards
- Copper maximum cable capacity:
  - 400 MCM (63060)
  - 1000 MCM (63750)
- Aluminum maximum cable capacity:
  - 600 MCM (63060)
  - 1000 MCM (63750)
- Communications cable maximum cable capacity:
  - 1-1/8" (63060)
  - 1-3/4" (63600)
  - 2-1/16" (63750)
- 1-Year warranty



## Standard Cable Cutter

- Lightweight, shear-type cable cutters
- Replaceable hook jaw blades grab and hold cable while shear-cutting action makes clean cuts
- Fiberglass handles with heavy vinyl grips
- Heavy-duty pins in head serve as blade-stops
- Jaws are forged tool steel with black-oxide finish for long life
- Not designed for cutting steel or ACSR
- Beveled tips assure positive mating, and hinge on a rugged bolt with a pin-set nut to maintain proper blade tension
- Soft cable cutting maximum capacity
  - 1-3/8" Diameter (63041)
  - 1-3/4" Diameter (63045)
- MCM Cable cutting maximum capacity:
  - 500 Copper, 750 aluminum (63041)
  - 1000 Copper, 1200 aluminum (63045)



Part #	Mfg #	Handle Color	Length
TOL03321	63041	Red	25-1/2"

Part #	Mfg #	Handle Color	Length
TOL02497	63060	Red	10-1/4"

## Cable Cutter Replacement Blades



Part #	Mfg #	Description
TOL03831	63364	For 63060



# Clamp Meters

## Clamp Meters

### AC75B Digital Clamp Meter with Temperature

- Clamp meter, multimeter and thermometer
- 600A AC Current
- Digital thermometer to 400°C (1000°F)
- Includes Type K probe
- AC/DC Volts 750V/1000V
- Full overload protection
- Auto power off
- Low battery indicator
- 1-Year warranty



Part #	Mfg #	Description
MTR01037	AC75B	1.3" Jaw Size, 9V Battery

### ACD-15 TRMS-PRO 2000A Digital Clamp Multimeter with VolTect™

- Measures AC/DC voltage up to 600V, AC current up to 2,000A, resistance, frequency, and capacitance
- True-rms technology
- Backlit screen
- Non-contact voltage level detection
- Diode test
- Audible continuity
- Auto-check feature automatically selects DC/AC V or resistance
- Auto and manual ranging
- Auto power-off feature
- Low battery indicator
- Data hold
- Accommodates conductors up to 1.7" diameter
- Includes carrying case, test leads, and batteries
- Voltage overload protection for all functions up to 600V AC/DC



Part #	Mfg #	Description
MTR01032	ACD-15 TRMS-PRO	600VAC/DC, 2,000A

### ACD-16 TRMS-PRO 1,000A Data Logging Clamp Meter with Temperature

- Measures AC/DC voltage up to 600V, AC current up to 1,000A, resistance, frequency, and temperature
- True-rms technology
- Backlit screen
- Data logging 5,400 points
- Audible continuity
- Auto power-off feature
- Automatic polarity
- Low battery indicator
- Data hold
- Accommodates conductors up to 1.77" diameter
- Includes carrying case, thermocouple, test leads, and batteries
- Voltage overload protection for all functions up to 600V AC/DC



Part #	Mfg #	Description
MTR01033	ACD-16 TRMS-PRO	600VAC/DC, 1,000A

### ACD-10 PLUS 600A Clamp Multimeter

- Measures AC/DC voltage up to 600V, AC current to 600A, frequency, resistance, and capacitance
- Thin 10mm jaws
- Continuity beeper
- Accommodates conductors up to 1" diameter
- Auto ranging
- Auto power-off feature
- Rubber over-molded case
- Includes test leads, battery, and soft carrying pouch



Part #	Mfg #	Description
MTR01070	ACD-10 PLUS	600A Clamp Multimeter





# Clamp Meters

## ACD-45PQ 600A Power Quality Clamp with True-rms

- True-rms
- Ultra slim jaws accommodate conductors up to 1.02" diameter
- Measures AC/DC voltage up to 600V, AC current up to 600A, resistance, and frequency power
- 3-Phase unbalanced load measurement
- Optional PC interface capability
- Audible continuity
- Large backlit LCD display
- Auto power-off feature
- Low battery indicator
- Voltage overload protection for all functions up to 600VAC/DC
- Includes carrying case, test leads, and batteries



Part #	Mfg #	Description
MTR01189	ACD-45PQ	600A Power Quality Clamp Meter with True-rms

## ACDC-400 400A Digital Clamp Multimeter

- Measures AC/DC current to 400A, AC/DC voltage to 600V, and resistance
- Continuity beeper
- Data hold function
- Minimum and maximum recording
- Relative zero mode
- Large backlit display
- Accommodates conductors up to 1.18" in diameter
- Includes carrying case, test leads, and battery



Part #	Mfg #	Description
MTR01213	ACDC-400	400A Digital Clamp Meter

## AC40C Mini-Clamp Digital Multimeter

- 400A Range
- 10mA Resolution
- 600VAC and DC Range
- 4,000-Count display
- Autoranging
- Data hold
- Auto-off
- Non-contact voltage detection
- Includes carrying case and test leads



Part #	Mfg #	Description
MTR01164	AC40C	400A Amprobe Clamp Meter

## ACD-10 TRMS Plus 600A Clamp Multimeter

- AC and DC Voltage to 600V
- AC Current to 600A
- Continuity buzzer
- Capacitance to 3,000uf
- Frequency measurement
- Hold and maximum reading functions
- Overload protected



Part #	Mfg #	Description
MTR01073	ACD-10 TRMS-PLUS	600V, 600A with TRMS Sensing

## ACD-14 Digital Clamp-On Multimeter

- Measures micro amps
- Temperature (type k thermocouple)
- Capacitance to 3,000µF
- Diode test



Part #	Mfg #	Description
MTR01147	ACD-14 TRMS-PLUS	600V, 600A with TRMS Sensing
MTR01194	ACD-14 PLUS	600V, 600A



# Clamp Meters

## ACD-21SW Swivel Clamp Meter

- Measures AC current up to 400 ACA, AC/DC voltage up to 600V, resistance and capacitance
- 180° Rotating head
- Non-contact voltage detection
- Temperature measurement
- Audible continuity
- Auto and manual ranging respectively for quick checks and precise measurements
- Data hold



Part #	Mfg #	Description
MTR01196	ACD-21SW	Swivel Clamp Meter

## ACD-22SW True RMS Swivel™ Clamp Meter with VolTect™

- 180° Rotating head
- Advanced VolTect™ non-contact voltage detection
- AC Current measurement: 400 ACA
- Voltage measurement: 600V resistance and capacitance
- Audible continuity
- Data hold



Part #	Mfg #	Description
MTR01187	ACD-22SW	Swivel Clamp Meter with True RMS and VolTect™

## ACD-23SW True RMS Swivel™ Clamp Meter with Temperature and VolTect™

- 180° Rotating head
- Advanced VolTect™ non-contact voltage detection
- Slim jaw design
- AC Current measurement: 400 ACA
- Voltage measurement: 600V resistance and capacitance
- Temperature measurement
- Auto and manual ranging
- Data hold



Part #	Mfg #	Description
MTR01188	ACD-23SW	Swivel Clamp Meter with True RMS, Temperature Measurement and VolTect™

## AD40B Mini-Clamp Ammeter

- 400A AC Range
- Maximum jaw opening: 25.4mm
- 4000 Count display with bar graph
- Auto ranging
- Data hold
- 10mA Resolution



Part #	Mfg #	Description
MTR01405	AD40B	Mini-Clamp Ammeter

## AMP-200 True-RMS Clamp Meter for Electrical Troubleshooting

- Voltage up to 600VAC/DC and current up to 600A AC/DC
- Resistance, frequency, low pass filter, and capacitance
- Non-contact voltage detection
- Audible continuity and diode test
- Large LCD backlit display
- CAT III 600V Safety rated



AMP-210 AMP-220

Part #	Mfg #	Description
4560537	AMP-210	600A AC TRMS Clamp Meter
4560543	AMP-220	600A AC/DC TRMS Clamp Meter



# Clamp Meters

## AMP-300 True-RMS Clamp Meter for Industrial, Motor Maintenance and HVAC

- Voltage up to 600VAC/DC and current up to 600A AC/DC
- A third input terminal for 3-phase motor and phase rotation tests
- Temperature, DC microamps, resistance, frequency, inrush current, low pass filter, and capacitance
- Non-contact voltage detection
- Audible continuity and diode test
- Large LCD backlit display
- CAT III 600V (AMP-310, AMP-320); CAT IV 600V, CAT III 1,000V (AMP-330)



Part #	Mfg #	Description
4560555	AMP-310	600A AC TRMS Motor Maintenance HVAC Clamp Meter
4560562	AMP-320	600A AC/DC TRMS Motor Maintenance Clamp Meter
4560570	AMP-330	1000A AC/DC TRMS Motor Maintenance Clamp Meter

## AMP-25 TRMS Mini-Clamp

- True-RMS
- AC/DC Current to 300 A (10mA resolution)
- Low pass filter
- Inrush current
- Non-contact voltage detection
- Jaw opening to 1 in (25 mm)
- Autoranging, DCA zero and data hold
- Backlit display for easy measurement viewing
- CAT III 600V safety rated



Part #	Mfg #	Description
4588254	AMP-25	TRMS Mini-Clamp

## Current Clamp Accessory

- AC/DC Current clamp, 20A
- Special low current version
- Zero adjust knob
- Attached leads and users manual



Part #	Mfg #	Description
MTR01403	CT238A	AC/DC Current Clamp

## RS-3 PRO CAT IV 300A Analog Clamp Meter

- Measures AC current up to 300A, AC voltage up to 600V, resistance, and continuity
- Pointer lock, data hold
- Rotary scale
- No batteries required
- Works in temperatures from 5 °F to 122 °F
- Operates on 50 and 60 Hz frequency
- CAT IV 600V Safety rated
- Includes test leads, battery, and carrying case



Part #	Mfg #	Description
MTR01218	RS-3PRO	300A Analog Clamp Meter



# Digital Multimeters

## Automotive Instruments

### 88V/A Automotive Multimeter Combo Kit

- Measure up to 1000V/10A
- Built in thermometer with temperature probe Included
- Auto and manual ranging for maximum flexibility
- Magnetic hanger for hands-free work
- Large 2-level backlit display
- Resistance and continuity testing
- Millisecond pulse width measurements for fuel injectors
- Includes:
  - 88V Automotive multimeter
  - Silicon test leads (TL224)
  - Long reach alligator clips (AC285)
  - Test probes (TP220)
  - Inductive RPM (RPM 80)
  - ToolPak™ Magnetic Meter Hanging kit (TPAK)
  - Temperature probe (80BK)
  - (2) Automotive backprobe pins
  - Insulation piercing probe
  - Durable carrying case (C800)
  - Holster
  - 9V Battery (installed)
  - Getting started manual/CD detailed manual
- Limited lifetime warranty



FLUKE®

Part #	Mfg #	Description
MTR00994	88V/A	Fluke-88 Automotive Tester w/Case, Holster, and Accessories

## Fluke® CNX Wireless System

- Monitors multiple measurement points at the same time from a single location
- Remote, simultaneous and recordable measurement capabilities improve productivity and safety

### CNX iFlex AC Wireless Current Module

- True-RMS current meter
- AC Current measurements: up to 2500A
- Wirelessly relays measurements to CNX 3000 wireless multimeter
- Allows measurement around awkward sized conductors and makes wire access easier
- Memory recording up to 65,000 readings
- Backlit LCD display
- 3% Accuracy
- CAT IV 600, CAT III 1000V



FLUKE®

Part #	Mfg #	Description
MTR01416	FLK-CN3000	AC Current Module

### CNX A3000 AC Wireless Current Clamp Module

- True-RMS current clamp meter
- AC Current measurements: up to 400A
- Wirelessly relays measurements to CNX 3000 wireless multimeter or to laptop with optional wireless PC adapter
- 2% Accuracy to 100Hz, 2 - 1-1/2% accuracy to 500Hz
- Memory recording up to 65,000 readings
- Backlit LCD display
- CAT III 600V; IP42



FLUKE®

Part #	Mfg #	Description
MTR01417	FLK-CN3000	AC Current Clamp Module

### CNX V3000 AC Wireless Voltage Module

- True-RMS AC voltage measurements up to 1000V
- Wirelessly relays AC voltage measurements to CNX wireless multimeter
- +/- 1% Accuracy to 500Hz, +/- 2% accuracy to 1kHz
- Memory recording up to 65,000 readings
- Backlit LCD display
- CAT IV 600V, CAT III 1,000V; IP42



FLUKE®

Part #	Mfg #	Description
MTR01418	FLK-CN3000	AC Voltage Module

# Digital Multimeters

## CNX T3000 K-Type Wireless Temperature Module

- Wirelessly relays measurements to CNX 3000 wireless multimeter or PC
- Temperature range: -200° - 1,372°C
- +/- 0.5% Accuracy
- Memory recording up to 65,000 readings
- Backlit LCD display
- IP30



Part #	Mfg #	Description
MTR01419	FLK-CN3000 T3000	K-Type Temperature Module

## CNX Wireless PC Adapter and Software

- SW3000 Windows-based software allows real-time display measurements from up to 10 CNX modules per PC adapter
- Software allows real time graphing of individual module readings
- Software requirements: SW3000 will support up to two PC3000 PC adapters
- OS Compatibility: Windows XP or later
- Includes CNX SW3000 software to wirelessly manage and communicate with CNX modules



Part #	Mfg #	Description
MTR01420	FLK-CN3000 PC3000	PC Adapter

## CNX Wireless Industrial System

- Includes:
  - CNX 3000 Wireless multimeter
  - CNX V3000 AC wireless voltage module
  - (3) CNX i3000 iFlex AC Wireless current probes
  - (3) iFlex i2500-10 Flexible current probes
  - CNX PC3000 Wireless PC adapter and software
  - Test Leads (TL224)
  - Test Leads (TL175)
  - Alligator clips (AC175)
  - Alligator clips (AC285)
  - (4) Magnetic hanging straps



Part #	Mfg #	Description
MTR01421	FLK-CN3000 IND	Industrial System Kit

## CNX Wireless General Maintenance System

- Includes:
  - CNX 3000 Wireless multimeter
  - CNX V3000 AC Wireless voltage module
  - CNX i3000 iFlex AC Wireless current module
  - iFlex i2500-10 Flexible current probe
  - CNX PC3000 Wireless PC adapter and software
  - Test leads (TL224)
  - Test leads (TL175)
  - Alligator clips (AC175)
  - Alligator clips (AC285)
  - (2) Magnetic hanging straps
  - Soft carrying case



Part #	Mfg #	Description
MTR01422	FLK-CN3000 GM	General Maintenance System Kit

## CNX Wireless HVAC System

- Includes:
  - CNX 3000 Wireless multimeter
  - CNX A3000 AC Wireless current clamp module
  - CNX T3000 K-Type wireless temperature module
  - CNX PC3000 Wireless PC adapter and software
  - Test leads (TL175)
  - Alligator clips (AC175)
  - K-Type bead thermocouple
  - Magnetic hanging strap
  - Soft carrying case



Part #	Mfg #	Description
MTR01423	FLK-CN3000 HVAC	HVAC System Kit

## CNX Wireless Basic Kit with T3000

- Includes:
  - CNX 3000 Wireless multimeter
  - CNX T3000 K-Type wireless temperature module
  - Test leads (TL175)
  - Alligator clip (AC175)
  - K-Type bead thermocouple
  - Magnetic hanging strap
  - Soft carrying case



Part #	Mfg #	Description
MTR01424	FLK-CN3000 T3000	T3000 Kit

# Digital Multimeters

## CNX Wireless Basic Kit with A3000

- Includes:
  - CNX 3000 Wireless multimeter
  - CNX A3000 AC Wireless current clamp module
  - Test leads (TL175)
  - Alligator clips (AC175)
  - Soft carrying case



Part #	Mfg #	Description
MTR01426	FLK-CNX A3000	A3000 Kit

## CNX Wireless Basic Kit with I3000

- Includes:
  - CNX 3000 Wireless multimeter
  - CNX i3000 iFlex AC Wireless current module
  - Test leads (TL175)
  - iFlex i2500-10 Flexible current probe
  - Alligator clips (AC175)
  - Magnetic hanging strap
  - Soft carrying case



Part #	Mfg #	Description
MTR01425	FLK-CNX I300	I3000 Kit

## Digital Multimeters

### 27 II Rugged Digital Multimeter

- Measures:
  - AC/DC voltage 0.1 mV to 1,000V
  - AC/DC current 0.1uA to 10A
  - Resistance 0.1ohms to 50Mohms
  - Capacitance
  - Frequency 0.5Hz to 200KHz
  - Continuity
  - Diode Test
- Minimum/Maximum and average recording to capture variations automatically
- Includes:
  - Holster
  - Test leads
  - Alligator clips
  - Printed getting started manual
  - CD ROM manual
  - (3) AA Batteries
- Temperature range: -15°C to 55°C (5°F to 131°F, -40°C up to 20 minutes)
- Limited lifetime warranty



Part #	Mfg #	Description
MTR01138	27 II	6,000 Digital Display/Count

### 28 II Rugged Digital Multimeter

- Measures:
  - AC/DC voltage 0.1 mV to 1,000V
  - AC/DC current 0.1uA to 10A
  - Resistance 0.1ohms to 50Mohms
  - Capacitance
  - Frequency 0.5Hz to 200KHz
  - Continuity
  - Diode Test
  - Temperature -200°C to 1,090°C
- Minimum/Maximum, and average recording to capture variations automatically
- IP 67 Waterproof and dustproof protection
- Backlit display and keypad buttons
- Operating temperature range: -5°C to 55°C (5°F to 131°F, -40°C up to 20 minutes)
- Limited lifetime warranty



Part #	Mfg #	Description
MTR01139	28II	6,000 Digital Display/Count



# Digital Multimeters

## 77-IV Digital Multimeter

- For field service or bench repair
- Measures:
  - 1,000VAC
  - 10A AC/DC
  - Frequency
  - Capacitance
  - Resistance
  - Continuity
- Includes:
  - Test leads (TL75)
  - 9V Battery
  - Users manual
- Large display with backlight
- Minimum/Maximum to record signal fluctuations
- Ergonomic overmolded housing with integrated probe holders
- Temperature range: -10° to 50°C
- Automatic and manual ranging



FLUKE

Part #	Mfg #	Description
MTR01055	77-IV	6,000 Digital Display/Count, Backlight

## 80 Series III Digital Multimeter

- Measures:
  - 1,000VAC/DC
  - 10A AC/DC
  - Resistance
  - Capacitance
  - Frequency
- Includes:
  - Test leads (TL75)
  - Alligator clips (AC70A)
  - Protective holster with Flex Stand
  - 9V Battery (installed)
  - Getting Started Manual
  - Detailed manual with CD
- Temperature range: -20° to 55°C
- Limited lifetime warranty



FLUKE

Part #	Mfg #	Description
MTR00861	83-3	4,000 Digital Display/Count, Backlight
MTR00942	83-5	4,000 Digital Display/Count, Backlight
KIT09555	87-RETROFIT	Service Kit for Fluke 83, 85, 87-3, 787 Meters

## 80 Series V Digital Multimeter Service Combo Kit

- Measures:
  - 1,000VAC/DC
  - 10A AC/DC
  - Resistance
  - Capacitance
  - Frequency
- Includes:
  - Test leads (TL75)
  - Alligator clips (AC175)
  - i400, 400A AC current clamp
  - 80BK-A DMM temperature probe
  - 9V Battery (installed)
  - Getting started manual
  - Detailed manual with CD
- Built-in thermometer
- Low-pass filter for drives/noise
- Large digit display with bright two-level backlight
- Captures fast transients
- 0.05% DC Accuracy
- Temperature range: -20° to 55°C
- Limited lifetime warranty on meter
- 1-Year warranty on accessories



FLUKE

Part #	Mfg #	Description
MTR01430	FLUKE-87V/IMSK	Industrial Digital Multimeter w/Service Kit
MTR01061	FLUKE-87-5/E2-KI T	Industrial Digital Multimeter w/Temperature Kit
MTR00931	FLUKE-87-5/E3-KI T	Industrial Digital Multimeter w/Temperature Kit

## 87V Series Digital Multimeter

- Adjustable speed motor drive test function
- Display back lighted LCD
- Counts 6,000/20,000, basic DC accuracy 0.05%, auto ranging



FLUKE

Part #	Mfg #	Description
MTR00940	FLUKE-87-5	6,000 Digital Display/Count



# Digital Multimeters

## 113 Utility Digital Multimeter

- Voltage: 600 AC, 600 DC
- Resistance: 60 K Ohms
- Basic DC accuracy 0.5% + 2
- True RMS
- Auto ranging



Part #	Mfg #	Description
MTR01349	FLUKE-113	6,000 Digital Display & Count with Backlight

## 115 Digital Multimeter

- Compact true-RMS meter for field service technicians
- Measures:
  - 600VAC/DC
  - Resistance
  - Continuity
  - Frequency
  - Capacitance
- Minimum/Maximum/Average with elapsed time to record signal fluctuations
- 10A AC/DC current measurement (20 A overload for 30-seconds max)
- CAT III 600V Safety rated
- Temperature range: -10° to 50°C
- Includes:
  - Holster
  - 4mm Silicone test lead set
  - 9V Battery
  - Manual
- 3-Year warranty



Part #	Mfg #	Description
MTR01019	115	6,000 Digital Large, White LED Backlight

## 116 Digital Multimeter

- Microamps to test flame sensors
- Low input impedance
- Measures:
  - 600VAC/DC
  - Resistance
  - Continuity
  - Frequency
  - Capacitance
- Minimum/maximum/average with elapsed time to record signal fluctuations
- CAT III 600V Safety rated
- Temperature range: -10° to 50°C



Part #	Mfg #	Temperature Range
MTR01022	FLUKE-116	Large Digital Display with White LED Backlight

## 117 Electricians Multimeter with Non-Contact Voltage

- Choice for commercial applications
- VoltAlert™ technology for non-contact voltage detection
- AutoVolt automatic AC/DC Selection
- Low input impedance
- True RMS for accurate measurements on non-linear loads
- Measures:
  - 60VAC/DC
  - 20A AC/DC
  - Resistance
  - Continuity
  - Frequency
  - Capacitance
- Minimum/Maximum/Average with elapsed time to record signal fluctuations
- Compact ergonomic design for one-handed operation
- Compatible with optional magnetic hanger for hands free operation
- CAT III 600V Safety rated
- Temperature range: -10° to 50°C
- Includes:
  - 4mm Silicone test lead set
  - Holster
  - Manual
- 3-Year warranty



Part #	Mfg #	Description
MTR01020	117	6,000 Digital Large, White LED Backlight



# Digital Multimeters

## 170 Digital Multimeter

- True RMS AC voltage and current for accurate readings
- Manual and automatic ranging
- Measures:
  - 1,000VAC/DC
  - 10A AC/DC
  - Capacitance
  - Frequency
  - Resistance
  - Continuity
  - Diode
- Minimum/Maximum/Average recording
- Closed case calibration through front panel
- Easy access battery door
- Temperature range: -10° to 50°C
- Includes:
  - Temperature Probe (80BK)
  - 9V Battery (installed)
  - Test leads (TL225)
  - Manual
- Lifetime limited warranty



Part #	Mfg #	Description
MTR00850	177	6,000 Digital Display & Count w/Backlight
MTR00834	Fluke-179ESFP	Digital True RMS Multimeter
MTR00884	179/TPAK	Multimeter/ToolPak Combo Kit

## 233 True RMS Remote Display Multimeter

- Removable display allows remote display 30' away from measurement point
- Measures:
  - 1,000VAC/DC
  - 10A AC/DC
  - Continuity
  - Diodes
  - Resistance
  - Frequency
- Built-in thermometer
- Temperature range: -40° to 400°C



Part #	Mfg #	Temperature Range
MTR01140	FLUKE233	Digital True RMS Remote Display Multimeter

## 287 True RMS Electronics Logging Multimeter with TrendCapture

- Quickly documents design performance and graphically displays results
- Logging function with TrendCapture
- i-info Button for on board help screens
- Save multiple logging sessions before PC download is necessary
- Measures:
  - 500VAC/DC
  - 10A AC/DC continuous (20A for 30 seconds)
  - Capacitance range: 100m F
- Temperature range: -328° to 2,462°F
- Real time clock
- Multi-lingual interface
- Minimum/Maximum/Average with time stamp
- 0.025% Basic DC accuracy, 100kHz AC bandwidth
- CAT III 1,000V / CAT IV 600V Safety rated
- Includes:
  - Silicone test leads (TL71)
  - Probe holder
  - (2) Alligator clips (AC72)
  - (6) AA Alkaline batteries
  - Manual
- Limited lifetime warranty



Part #	Mfg #	Description
MTR01077	FLUKE-287	50,000 Digital 1/4 VGA Display, White Backlight



# Digital Multimeters

## 289 True RMS Industrial Logging Multimeter with TrendCapture

- Logging function with expanded memory for unattended monitoring of signals over time
- Save multiple logging sessions before PC download is necessary
- (2) Terminal 50 ohm range with 1 milliohm resolution, 10mA source current
- Low pass filter for accurate voltage and frequency measurements on adjustable speed motor drives and other electrically noisy equipment
- Measures:
  - 1,000VAC/DC
  - 10A AC/DC
  - Resistance
  - Capacitance
  - Frequency
- LoZ Volts: low impedance voltage function
- On board help screen
- Real time clock
- Withstands hazardous 8,000V spikes caused by load switching and faults on industrial circuits
- Temperature range: -200°C to 1350°C
- Includes:
  - Silicone test leads (TL71)
  - Probe holder
  - (2) Alligator Clips (AC72)
  - (6) AA Alkaline batteries (installed)
- FVF Kit also includes:
  - FlukeView® Forms software with cable
  - AC175 Alligator clips
  - 80BK-A Thermocouple probe
  - TL71 Silicon test lead set
  - TPak Magnetic hanging kit
  - C280 Soft case
  - Amp jack plug set
- Limited lifetime warranty



## 1587 Insulation Multimeter

- Multiple test voltages
- Live circuit detection prevents insulation test if voltage greater than 30V is detected
- Auto-discharge of capacitive voltage for added user protection
- Measures:
  - 1,000V AC/DC
  - 400 mA AC/DC
  - Resistance
  - Continuity
  - Capacitance
  - Diode test
  - Minimum/Maximum
  - Frequency
- Filter for motor drive measurements
- Temperature range: -40°C to 537°C
- Auto power off
- CAT III 1,000V, CAT IV 600V Measurement category
- Includes:
  - Remote probe (TP165X)
  - Test leads and probes (TL224)
  - Alligator clips (AC285)
  - Rugged, utility hard case (C101)
- ET kit also includes:
  - Fluke i400 Current Clamp
- ET/62MAX+ Kit also Includes
  - Fluke i400 Current clamp
  - Fluke 62 MAX+ Infrared thermometer
- 3-Year warranty



Part #	Mfg #	Description
MTR00954	FLUKE1587	Insulation Multimeter
MTR01116	FLUKE-1587/ET	6,000 Digital Display Electrical Troubleshooting Combo Kit
MTR01433	FLUKE-1587/ET62 MAX+KIT	6,000 Digital Display Electrical Troubleshooting Combo Kit w/62 MAX+ IR Thermometer

Part #	Mfg #	Description
MTR01079	FLUKE 289	Multimeter with TrendCapture
MTR01081	FLUKE-289/FVF	Large 50,000 Count, 1/4 VGA w/FlukeView® Forms Software



# Digital Multimeters

## 1587/MDT Advanced Motor & Drive Troubleshooting Kit

- Specifically selected for both troubleshooting and preventative maintenance applications
- Includes:
  - Insulation multimeter (1587)
  - Current clamp (i400)
  - Phase rotation indicator (9040)



Part #	Mfg #	Description
KIT14671	FLUKE-1587 MDT	Advanced Motor & Drive Troubleshooting Kit

## Process Meters

### 787 ProcessMeter™

- DMM and Loop calibrator in one tool
- Clear LCD with backlight
- Externally accessible battery for easy battery changes
- Measures:
  - AC/DC mA
  - AC/DC Volts
  - Frequency
  - Continuity
  - Resistance
  - Diode
- Operating temperature: -20° to 55°C
- Includes:
  - Alligator clips (AC70A)
  - Protective yellow holster with Flex-Stand™ (81Y)
  - (1) 9V Alkaline battery
  - Quick reference guide
  - Safety-designed test lead set (TL75)
  - Users manual
- 3-Year warranty



Part #	Mfg #	Description
MTR00888	FLUKE-787	787 ProcessMeter™

## 789 ProcessMeter™ Process Calibrator

- 24V Loop power supply
- HART Mode setting with loop power
- 100% Larger dual display
- 1,200 ohm Drive capability on mA source
- 0 - 100% mA Span Check buttons to toggle between 4 and 20mA
- Infrared I/O serial port compatible with FlukeView® forms software version 2.1
- Externally accessible fuses for easy replacement
- Measures:
  - 1,000V AC/DC
  - mA AC/DC
  - Frequency measurement to 20 kHz
  - Diode test and continuity beeper
- Minimum/Maximum/Average/Hold/Relative modes
- Temperature range: -20° to 55°C
- 20 mA DC Current source/loop calibrator/simulator
- Manual step plus automatic step and automatic ramp
- Externally accessible battery for easy battery changes
- Includes:
  - Alligator clips (AC72)
  - Safety-Designed test lead set (TL71)
  - (4) AA 1.5V Alkaline battery (installed)
  - Manual
- 3-Year warranty



Part #	Mfg #	Description
MTR00885	789	4,000 Digital Display Count, Dual Display, Backlight

## Multimeter Combo Kits

### 179/IMSK Industrial Multimeter Service Combo Kit

- Includes:
  - Multimeter with a built-in thermometer (179)
  - AC 400A Current clamp (322)
  - 80BK-A thermocouple bead probe
  - Test leads (TL75)
  - Alligator Clips (AC72)
- Limited lifetime warranty



Part #	Mfg #	Description
MTR01362	FLUKE-179/IMSK	Multimeter Combo Kit

# Digital Multimeters

## 116/323 HVAC Combo Kit

- Includes:
  - 116 Digital Multimeter
  - 323 True-rms clamp meter
  - TL175 Hard point test lead set
  - TPak ToolPak magnetic meter-hanging strap
  - Flexible cuff pipe clamp thermocouple
  - 80BK Integrated temperature probe
  - 80AK-A Thermocouple adapter
  - C115 Deluxe soft carrying case with shoulder strap
  - Test leads
  - User's manual



FLUKE®

Part #	Mfg #	Description
KIT16610	FLUKE-116/323	HVAC Combo Kit

## 179/61 Industrial Multimeter & Infrared Thermometer Combo Kit

- Includes:
  - True RMS digital multimeter (179)
  - Infrared thermometer (61)
  - Hard meter and accessory case (C800)



FLUKE®

Part #	Mfg #	Description
KIT13654	179/61KIT	Industrial Multimeter and Infrared Thermometer Kit

## 179/1AC-II Electricians Multimeter & Voltage Tester Combo Kit

- Includes:
  - True RMS digital multimeter (179)
  - Soft case (C35)
  - ToolPak™ Magnetic meter hanger
  - SureGrip™ Alligator clips (AC220)
  - SureGrip™ Test probes (TP220)
  - SureGrip™ Silicone test leads (TL224)
  - Fluke 1-AC-II non-contact voltage detector (1ACII)
- Limited lifetime warranty on the multimeter
- 1-Year warranty on all accessories



FLUKE®

Part #	Mfg #	Description
KIT15252	179/1AC-II	6,000 Digital Display/Count, Backlight, Deluxe Accessory Kit

## 179/EDA2 Multimeter & Deluxe Accessories Combo Kit

- Includes:
  - True RMS digital multimeter (179)
  - 80BK Temperature probe
  - Installed 9V battery
  - Test Leads
  - Users manual
  - AC220 SureGrip™ alligator clips
  - TP220 SureGrip™ alligator clips
  - Test probes
  - TL224 SureGrip™ silicon test leads
  - Silicon test leads and ToolPak
  - magnetic meter-hanger
  - Soft accessory case
- Limited lifetime warranty on multimeter
- 1-Year warranty on accessories



FLUKE®

Part #	Mfg #	Description
KIT15245	FLUKE-179/EDA2	Multimeter and Deluxe Accessories Combo Kit

# Drain Cleaners

## Drain Cleaner Hose

### Reinforced Drain Cleaner Hose

- 1/8" ID
- 50' Long
- Abrasion-resistant
- For use with 1/8" (3mm) nozzles

GOODWAY



Part #	Mfg #	Length
HSE01831	PJ-7000	50'

## Drain Cleaner Nozzles

### Blind Thrust Drain Cleaner Nozzle

- (4) Holes aimed backward at 45°

GOODWAY



Part #	Mfg #	Hose Size
NOZ01017	PJ-7009	1/4"



# Electrical Testers

## Circuit Testers

### INSP-3 Wiring Inspector Circuit Tester

- Verifies if wiring is tested for load carrying ability that it meets electrical code recommendations for voltage drop under load
- Detects faulty wiring in need of repair without removing outlets cover plates, or panel covers; does not check the condition of wiring insulation
- User selectable 0, 10, 15 and 20 amps loads to verify performance of the electrical system
- Tests GFCI and AFCI operations
- Check ground quality for safety and ability to support sensitive electronic equipment
- Measure fault currents



Part #	Mfg #	Description
MTR01192	INSP-3	Circuit Tester

## Electrical Testers

### Electrical Tester with VoITect™ & Built-In Shaker

- Bi-color LEDs indicate safe and dangerous voltages
- Auto hold feature
- Solenoid tester-like shaker
- Automatically turns on and off
- Non-contact voltage detection and GFCI test feature
- Standard detachable test lead
- Automatically selects AC/DC voltage or continuity
- Continuity buzzer and visual LED indicator
- Water and dust-proof IP65 design



Part #	Mfg #	Description
MTR01190	VPC-30	Electrical Tester with VoITect™ and Built-In Shaker

### VP-1000SB Non-Contact Voltage Probe with Shaker

- Non-contact voltage detection from 90 to 1,000VAC
- Issues simultaneous audible, visual, and shaker alerts when voltage is detected
- Fully insulated probe
- Includes batteries
- Safety rated for indoor and outdoor applications



Part #	Mfg #	Description
MTR01448	VP-1000SB	Non-Contact Voltage Probe with Shaker

## Phase Sequence & Motor Rotation Testers

### PRM-6 Phase Sequence & Motor Rotation Tester

- 3-Phase wire sequence indication
- Error displays (missing phase, one input connected to neutral or PE)
- Non-contact, wireless motor rotation detection on running motors
- Indicates motor rotation of disconnected motors when spinning the shaft by hand or other means
- 3-phase to phase voltage up to 700 V
- Clear backlit LCD display
- Durable rubber casing for 3 ft. (1 m) drop proof protection
- Safety: CAT IV 600 V



Part #	Mfg #	Volt Range	Freq Range
4375950	PRM-6	40-700V	16 - 400Hz

## Voltage Detectors

### TIC 300 PRO High Voltage Detector

- Lower voltage setting for checking voltage presence in breaker panels, breakers, power outlets and wiring
- Verifies presence of voltage from 30VAC to 122,000VAC
- Non-contact AV voltage detection
- Visual and audible voltage indication
- Used with Hot Stick Tic 410A for voltage higher than 1500VAC



Part #	Mfg #	Description
MTR01156	TIC 300 PRO	High Voltage Detector

# Electrical Testers

## VPC-31 Voltage & Continuity Tester

- Super-bright bi-color LED's indicates safe and dangerous voltages
- Non-contact voltage detection and GFCI test feature for testing GFCI receptacles and breakers
- Automatically selects AC voltage, DC voltage or continuity
- AC Voltage: 24/48/120/208/240/277/347/480/600/1000
- DC Voltage: 6/12/24/36/48/60/72/110/220/380
- Water and dust proof



Part #	Mfg #	Description
MTR01191	VPC-31	Voltage & Continuity Tester

## Volt Probes

### Non-Contact Volt Probe

- Detects AC voltage (110 - 600V)
- Uses non-contact method of testing
- Totally insulated, no exposed metal or conductive parts
- Checks for AC voltages without necessity of disconnecting the electrical system
- Tests for AC voltage cables, circuit breakers, wall sockets, junction boxes, fuses, etc.



Part #	Mfg #	Description
MTR01207	VP-440	Non-Contact Volt Probe

## Continuity Testers

### LED Screwdriver Continuity Tester



Part #	Mfg #	Description
TOL02210	6-ST600LED	Red LED

## Voltage Detectors

### VoltAlert™ Voltage Detector

- Voltbeat™ technology and continuous self-test
- Fits in shirt pocket for convenience
- All outer surfaces are non-conductive for safety
- Detects voltage without metallic contact
- Includes (2) AAA alkaline batteries
- Manufactured, printed and packaged in USA
- 2-Year warranty



Part #	Mfg #	Description
TOL02801	FLUKE-1AC-A1-I	Flat-Tip, 90 - 1,000VAC, Engl/Laspn/Cfr
TOL01693	FLUKE-1LAC-A-I	Round Tip, 20 - 90VAC, Americas Pacific
MTR01322	FLK2AC/90-1000 V	Straight Tip, 90 - 1,000V, North American Style Outlets
MTR01323	FLK2AC/90-1000 V/5PK	Straight Tip, 90 - 1,000V, North American Style Outlets 5 Pack



# Electrical Testers

## Digital Thermometers

### 50 Series II Digital Thermometer

- Works with K, J, T, or E thermocouples
- 1,000 Hour battery life
- Includes:
  - Impact absorbing holster
  - Bead problem thermocouples (80/Pk-1)
- 3-Year warranty
- Additional features for the 53 II and 54 II series:
  - Data Logging up to 500 points of data with user adjustable recording
  - Real time clock captures the exact time when events occur
  - Recall function allows logged data to be reviewed
  - IR communication port allows data to be exported to optional FlukeView® PC software

FLUKE



Fluke 52 II B    Fluke 53 II B    Fluke 54 II B

Part #	Mfg #	Description
MTR00911	FLUKE51-II	Single Input
MTR01341	FLUKE-53-II-B	Single Input with USB Recording
MTR01342	FLUKE-54-II-B	Dual Input with USB Recording
MTR00833	Fluke-52-2	60 Reduction

## Digital Multimeters

### Digital Insulation Resistance Tester

- Combines a digital insulation tester with a RMS digital multimeter
- Maximum 1000V
- 1-Year warranty

FLUKE



Part #	Mfg #	Description
MTR00977	FLUKE-1507	Multimeter, Insulation Tester

## Electrical Testers

### T+ PRO/ T+ Electrical Tester

- 3-Ways to detect AC/DC voltage:
  - Light
  - Sound
  - Vibration
- GFCI Trip and continuity beeper
- Built-in flashlight
- T+ PRO Also includes:
  - Rotary field indicator for trouble-shooting 3-phase systems, resistance measurement to 9.99Kohms
  - Backlit LCD display
- Solid-state tester
- Includes:
  - User manual
  - Test lead wrap
  - Test probes (TP2)
- Rated to CAT IV 600V, CAT III 1,000V
- 2-Year warranty



FLUKE

Part #	Mfg #	Description
MTR01042	T+	Electrical Tester
MTR01041	T+PRO	Electrical Tester w/3-Phase Testing

### T+ PRO Electrical Tester Kit

- 3-Ways to detect AC/DC voltage:
  - Light
  - Sound
  - Vibration
- GFCI Trip and continuity beeper
- Built-in flashlight
- Solid-state tester
- Includes:
  - Rotary field indicator for trouble-shooting 3-phase systems, resistance measurement to 9.99Kohms
  - Backlit LCD display
  - Electrical Tester (T+Pro)
  - User manual
  - Test lead wrap
  - Test probes (TP2)
- Rated to CAT IV 600V, CAT III 1,000V
- 2-Year warranty



FLUKE

Part #	Mfg #	Description
MTR01043	T+PRO-1AC-KIT	Electrical Tester & Voltage Detector Kit



# Electrical Testers

## T5 Electrical Tester

- Check by selecting:
  - Volts
  - Ohms
  - Current
- OpenJaw™ current checks current up to 100A without breaking current
- SlimReach™ Test probes
- Test leads accept optional accessories
- Displays resistance to 1,000 ohms
- Includes:
  - 4mm Detachable probes
  - Instruction sheet
- Inputs protected to EN61010-1 CAT III 600V
- UL, CSA and VDE Listed
- 2-Year warranty



FLUKE



Part #	Mfg #	Description
MTR00854	FLUKE-T5-1000	1,000V, Continuity and Current
TOL01669	FLUKE-T5-600	600V, Continuity and Current

## T5 Series Electrical Tester with OpenJaw™ Current Measurement

- Precise digital resolution
- Measures:
  - Volts AC/DC
  - 100A Current
  - 1,000 ohm Resistance
- Continuity beeper
- Operating temperature: -10° to 50°C
- Compact design with neat probe storage
- Detachable SlimReach™ probe tips are customized for national electrical standards
- Test leads accept Fluke accessory test clips
- Includes:
  - 4mm Detachable probes
  - Instruction sheet
- 2-Year warranty



FLUKE

Part #	Mfg #	Description
KIT14902	T5-H5-1ACKIT	T51000 Electrical Tester w/H5 Holster and 1AC Voltage Detector

## 1503 Insulation Resistance Tester

- Insulation test range: 0.1Mohm to 2,000Mohm
- Insulation test voltages: 500V, 1,000V
- Includes:
  - Remote probe
  - Test leads
  - Probes
  - Alligator clips
- Accepts TPAK magnetic hanging system for hands-free work
- 200mA Continuity
- Live circuit detection prevents testing if voltage > 30V detected
- Auto power off and large backlit display
- 1-Year warranty



FLUKE

Part #	Mfg #	Description
MTR00979	FLUKE-1503	600V Insulation Resistance Tester

## 9040 Phase Rotation Indicator

- High voltage capability for industrial applications
- Measures phase rotation where 3-phase supplies are used to feed motors, drives and electrical systems
- Rotary field indicator
- LCD Display
- No battery required
- Includes:
  - (3) Black self-retaining test probes
  - Alligator clip
  - User manual
- Protected to EN61010, EN61557-7
- Overvolt protected to CAT III 600V, CAT IV 300V
- 2-Year warranty



FLUKE

Part #	Mfg #	Description
TOL02698	FLUKE-9040	40-700V, 15-400Hz

## Carbon Monoxide Detectors

### Carbon Monoxide Tester

- Responds quickly to ambient changes in carbon monoxide concentration without use of a pump



FLUKE

Part #	Mfg #	Description
MTR00837	CO-220	Measures 0-1,000 ppm



# Environmental Test

## Manometers

### MAN02-A Differential Pressure Manometer

- Also used for pneumatic controls
- (5) Selectable units of measure: H<sub>2</sub>O, psi, mbar, bar, mm H<sub>2</sub>O
- Maximum and minimum value recordings
- Data hold
- Auto power-off feature
- Large backlit LCD display
- Built-in RS-232 port for optional PC download
- Includes connection hoses



Part #	Mfg #	Description
MAN02	MAN02-A	Differential Pressure Manometer

### MAN30 Differential Pressure Manometer

- Measures up to 30psi
- (11) Selectable units of measure: bar, mmHg, ozin<sup>2</sup>, kgcm<sup>2</sup>, psi, inH<sub>2</sub>O, kpa, ftH<sub>2</sub>O, inHg, cmH<sub>2</sub>O, mbar
- Maximum and minimum value recordings with time stamp
- Data hold
- Large backlit LCD display
- Auto power-off function
- Built-in computer USB port for data downloads
- Includes connection hoses, hard carrying case, and (1) 9V alkaline battery



Part #	Mfg #	Description
MAN30	MAN30	30psi Differential Pressure Manometer

## Carbon Monoxide Detectors

### Carbon Monoxide Meter

- Adjustable CO warning level
- Self-test feature
- Auto power off
- CO Gas level alarms: 25/30/35/45/50/70/100 and 200 ppm



Part #	Mfg #	Description
MTR01200	CM100	Carbon Monoxide Meter

## Carbon Dioxide Meters

### CO2-100 Handheld Carbon Dioxide Meter

- Low drift portable meter
- CO<sub>2</sub> Measurement up to 9,999ppm
- Triple display with simultaneous CO<sub>2</sub>, temperature, and relative humidity readings
- Selectable display of dew point and wet bulb
- Air quality analysis
- Large LCD display
- Manually calibratable
- Audible alarm threshold setting to setup warning against carbon dioxide level
- Backlight function
- Optional PC download capabilities
- Data hold function
- Maximum, minimum, and average functions
- Long time drift compensation for accurate readings
- Includes batteries and hard carrying case



Part #	Mfg #	Description
CO2-100	CO2-100	Handheld Carbon Dioxide Meter

### CO2-200 Wall-Mounted CO<sub>2</sub> Meter

- Super-large LCD display with CO<sub>2</sub> reading
- CO<sub>2</sub> Measurement up to 9,999ppm, temperature, relative humidity, dew point, and wet bulb
- Large LCD display
- Low drift sensor designed with non-dispersive infrared waveguide technology with automatic background calibration
- Audible alarm threshold setting
- Optional PC download capabilities
- Records maximum, minimum, and average values, with recall function
- Includes 100 - 240AC power adapter



Part #	Mfg #	Description
CO2-200	CO2-200	Wall-Mounted CO <sub>2</sub> Meter



# Environmental Test

## Data Loggers

### TR100-A Temperature Data Logger with Digital Display

- Wall mountable
- Selectable °C or °F
- Visible LED warnings to monitor IAQ
- RS232 Interface
- Includes RS232 cable, download suite software CD, and battery
- IP65 Rated for dust and moisture



Part #	Mfg #	Description
MTR01170	TR100-A	Temperature Data Logger with Digital Display

### TR200-A Temperature & Relative Humidity Data Logger

- Wall mountable
- Digital display
- Selectable °C or °F
- Visible LED warnings to monitor IAQ
- RS232 Interface
- Includes RS232 cable, download suite software CD, and battery



Part #	Mfg #	Description
MTR01171	TR200-A	Temperature and Relative Humidity Data Logge

## Battery Testers

### BAT-250 Battery Tester

- Color-coded display
- Uses standard or rechargeable batteries
- Compatible with 9V, AA, AAA, C, D, and 1.5V button type
- Ergonomic battery holder



Part #	Mfg #	Description
4589825	BAT-250	Battery Tester

## Lamp Testers

### LT-10 Lamp Tester

- Built-in VolTect alert to verify voltage presence
- Single-handed, one-button operation
- Pin test to check continuity of bulb electrodes
- Ultra-compact design
- 48" Removable, fully retractable antennae
- Visual and audible alerts for pin and voltage tests
- Works with all fluorescent light bulbs: T2, T4, T5, T8, T9, T10, T12
- Includes carrying case



Part #	Mfg #	Description
LT-10	LT-10	Lamp Tester with 48" Antennae

## Sound Meters

### SM-10 Sound Meter

- A & C Weightings for checking compliance with safety regulations and acoustic analysis
- Measuring ranges: A weighting 30 - 130 dB, C weighting 35 - 130 dB
- Frequency range: 31.5Hz - 8kHz
- Display with 0.1 dB steps on 4 digit LCD
- Data hold



Part #	Mfg #	Description
SM-10	SM-10	Sound Meter



# Environmental Test

## Light Meters

### LM-200 LED Light Meter

- Selectable footcandle or lux
- Measuring range:  
200,000 lux or  
20,000 foot candles
- Data hold feature
- Maximum recording
- Angled light cosine correction
- 5' Extended length of wire
- 3-1/2" Digit display
- Includes protective sensor cap



Part #	Mfg #	Description
MTR01185	LM-200LED	LED Light Meter

## Tachometers

### TACH-20 Contact and Non-Contact Tachometer

- Built-in memory
- Digital display
- Auto power-off feature
- Includes:
  - (6) Adapters
  - Reflective tape
  - Batteries
  - Carrying case



Part #	Mfg #	Description
MTR01173	TACH20	Contact and Non-Contact Tachometer



# Fasteners

## Staple Guns & Staples

### Staple Gun Tacker

- For fiberglass ductwork



Part #	Mfg #	Description
TOL01573	540-T50M	Heavy-Duty Staple Gun Tacker
TOL01574	540-T50MOC	Outward Clinch Staple Gun
FAS00020	540-506	3/8" Leg Staples for T50M, 1,250/Pk
FAS00021	540-508	1/2" Leg Staples for T50M, 1,250/Pk
FAS00022	540-509	9/16" Leg Staples for T50M, 1,250/Pk

### Plier Staple Gun



Part #	Mfg #	Description
TOL01575	540P35S	Plier Staple Gun
FAS00024	540-356	3/8" Staples for P35S, 5,000/Pk

### Leg Staple



Part #	Mfg #	Description
FAS00026	540-256	3/8" Leg Staple for T25M, 1,000/Pk
FAS00027	540-259	9/16" Leg Staples for T25M, 1,000/Pk

# Fish Tape & Conduit Tools

## Fish Tapes

### Depthfinder™ High Strength Steel Fish Tape

- Tempered, high quality 1/8" wide flat steel tape
- Permanent, laser etched 1' increments



56001

56002, 56003, 56004

Part #	Mfg #	Reel Diameter	Tape Length
TOL03248	56002	9"	65'
TOL03703	56003	13"	125'

### Fish Rod & Glow Rod Set

- 1/4" diameter fish rod
- Connect individual sections end-to-end to create a variety of lengths
- Threaded connectors are beveled on both ends to prevent snagging
- Includes:
  - (1) Glow rod section
  - (1) Steel bullet nose
  - (1) "J" Hook attachment



Part #	Mfg #	Description
TOL03805	56103	25' Fish Rod and Glow Rod Set
TOL04525	56326	Deluxe Fish Rod Kit

## Glow Rod Set

- Use to install wires above ceilings, through walls and under carpets and raised floors
- Luminescent rods glow in the dark and are rechargeable in most available light sources
- 3/16" Diameter flexible to navigate tight bends and narrow openings
- Connect individual sections end-to-end to create variety of lengths
- Threaded connectors are beveled on both ends
- Includes:
  - (3) 3/16" x 5' Glow rods
  - (1) Steel bullet nose
  - (1) "J" Hook accessory



Part #	Mfg #	Description
TOL03388	56102	15' Glow Rod Set

## Navigator™ Fiberglass Fish Tape

- Designed for flexibility and non-conductive for conduit runs
- Lightweight and strong
- 7" Leader



Part #	Mfg #	Reel Diameter	Tape Length
TOL03394	56010	13"	100'

## Nylon Fish Tape

- Designed for flexibility and non-conductive for conduit runs
- Lightweight and strong
- 3/16" Wide



Part #	Mfg #	Reel Diameter	Tape Length
TOL03391	56011	13"	50'



# Fish Tape & Conduit Tools

## Wirespinner Extension Pole

- 54" Pole telescopes to a maximum of 22' in length
- Each section locks securely into place
- Fiberglass
- Large capacity hook/skid tip



Part #	Mfg #	Description
TOL03806	56105	54" - 22' Extension Pole

## 3-Piece Fish & Glow Rod Attachment Set

- Helps guide, grab, attach and steer wire or cable
- Compatible with 1/4", 3/16", and 5/32" rod sizes



Part #	Mfg #	Description
TOL03390	56104	For 1/4", 3/16", and 5/32" Rods

## PVC Cutters

### PVC Cutter

- Makes clean burr-free cuts
- Reversible blade
- Handle latch keeps tool closed



Part #	Mfg #	PVC Capacity	Flex Pipe Capacity
TOL03318	50506	3/4" Sch 40	1-3/8"

### PVC Cutter Replacement Blade



50503



50549



Part #	Mfg #	Description
TOL03273	50503	Blade for 50500
TOL03834	50549	Blade for 50506

## Ratcheting PVC Cutter

- High leverage ratchet action
- Heat treated blades
- Handle latch on 50501



50500



50501



Part #	Mfg #	Capacity	Length
TOL02816	50500	1/2" - 1-1/4"	9"
TOL03392	50501	1/2" - 2"	16-1/2"

# Flashlights

## Flashlights

### CSI LUMA50 Flashlight

- (1) High power LED bulb outputs 50 lumens
- Anodized aircraft grade aluminum water-resistant compact body design
- Aggressive self-defense face
- Read glow-in-the-dark button
- Rubber grip for non-slip grip and comfort
- Includes (1) AA battery



**NEBO**  
TOOLS

Part #	Mfg #	Description
LIT01200	5112	3.75" Length

### BLUELINE™ Flashlight

- 180 Lumen output
- 4x Adjustable zoom
- Emergency strobe mode
- Anodized aircraft grade aluminum water-proof compact body design
- Dual-direction steel belt clip
- Magnetic base for hands-free lighting
- Rear glow-in-the-dark button uses hard/soft touch technology
- Runtime: (2) hours continuous, 6.5 hours strobe
- Includes (1) AA battery



**NEBO**  
TOOLS

Part #	Mfg #	Description
LIT01226	5564	Chameleon Flashlight in Clamshell

### LUMIÈRE™ Tactical Flashlight

- High-power 50 lumen LED
- Light mode: 50 Lumens – 5 Hours / 45 Meters
- Anodized aircraft-grade aluminum is water and impact-resistant
- Tactical edge
- Jeweled grip
- Rear-positioned glow-in-the-dark on/off button
- Includes (1) AA battery



**NEBO**  
TOOLS

Part #	Mfg #	Description
LIT01234	5604	LUMIÈRE™ Tactical Flashlight

### CSI Tactical Flashlight

- (8) LEDs output 24 lumens
- Red laser pointer
- Anodized aircraft-grade aluminum
- Water and impact-resistant
- Tactical edge
- Rear-positioned on/off button
- Includes (3) AAA batteries



**NEBO**  
TOOLS

Part #	Mfg #	Description
LIT01210	5633	CSI Tactical Flashlight

### CSI Quatro LED Flashlight

- 75 Lumen LED
- (5) Green LEDs
- (5) UV LEDs
- Red laser pointer
- Emergency flasher function
- S.O.S. Flash mode
- Anodized aircraft grade aluminum water-resistant compact body design



**NEBO**  
TOOLS

Part #	Mfg #	Description
LIT01129	5561	CSI Quatro Flashlight in Clamshell
LIT01213	5948	4.25" Length, 1" Diameter
LIT01174	5602	BLUELINE™ Flashlight in Clamshell

### CSI EDGE 50™ Flashlight

- Anodized aircraft-grade aluminum
- Water and impact-resistant
- Tactical edge
- Steel belt/pocket clip
- Rear-positioned glow-in-the-dark on/off button
- Includes (1) AA battery



**NEBO**  
TOOLS

Part #	Mfg #	Description
LIT01203	5519	CSI EDGE 50™ Flashlight



# Flashlights

## CSI EDGE™ 90 Flashlight

- Anodized aircraft-grade aluminum
- Water and impact-resistant
- Removable tactical edge
- Steel belt/pocket clip
- Rear-positioned glow-in-the-dark on/off button
- Includes (1) AA battery



Part #	Mfg #	Description
LIT01223	5872	CSI EDGE™ 90 Flashlight

## PaL Flashlight and Powerbank

- High-power 50 lumen LED
- Fully rechargeable
- Power bank for USB powered devices
- Impact-resistant anodized aircraft-grade aluminum
- USB and Micro USB charging ports
- Apple® and Android™ compatible
- Charging indicator tells charging status of flashlight and USB powered devices
- Rear-positioned on/off button with charging indicator
- Includes:
  - USB to Micro USB cable
  - (1) Internal 18650 Lithium Ion battery



Part #	Mfg #	Description
LIT01232	6227	PaL Flashlight and Powerbank

## REDLINE™ Flashlight

- 220 Lumen output
- (5) Settings: 220 lumens, 110 lumens, 22 lumens, SOS, defensive strobe
- Anodized aircraft grade aluminum water-resistant compact body design
- Magnetic base for hands-free lighting
- Aggressive self-defense face
- Read glow-in-the-dark button uses hard/soft touch technology
- Includes (3) AAA batteries



5557

5610



Part #	Mfg #	Description
LIT01163	5557	14-Piece Magnetic Acrylic Security Display
LIT01130	5581	Clamshell, 12/Pk
LIT01192	5599	Gray, 18/Pk
LIT01179	5610	Black, 18/Pk

## REDLINE® OC™ Flashlight

- 600 LUX LED
- Anodized aircraft-grade aluminum
- Water and impact-resistant
- OC™ (Optimized Clarity) technology
- Convex lens
- Tactical edge
- 6x Adjustable beam
- Dual-direction belt/pocket clip
- Magnetic base
- Rear-positioned glow-in-the-dark on/off button with Soft Touch Technology
- Includes lanyard and (1) AA battery



Part #	Mfg #	Description
LIT01194	6092	REDLINE® OC™ Flashlight



# Flashlights

## Classic REDLINE® OC™ Flashlight

- High-power 2640 LUX LED
- Anodized aircraft-grade aluminum
- Water and impact-resistant
- OC™ (Optimized Clarity) technology
- Convex lens
- Tactical edge
- 6x Adjustable beam
- Dual-direction belt/pocket clip
- Magnetic base
- Rear-positioned glow-in-the-dark on/off button with Soft Touch Technology
- Includes (3) AAA battery



**NEBO**  
TOOLS

Part #	Mfg #	Description
LIT01250	6273	Classic REDLINE® OC™ Flashlight

## Micro REDLINE® OC™ Flashlight

- 360 LUX LED
- Anodized aircraft-grade aluminum
- Impact-resistant
- OC™ (Optimized Clarity) technology
- Convex lens
- 6x Adjustable beam
- Steel belt/pocket clip
- Magnetic base
- Rear-positioned glow-in-the-dark on/off button with Soft Touch Technology
- Includes (1) CR2 battery



**NEBO**  
TOOLS

Part #	Mfg #	Description
LIT01249	6272	Micro REDLINE® OC™ Flashlight

## REDLINE® RC Rechargeable Flashlight

- 300 Lumen LED
- Aggressive self-defense face
- Heat-sink bezel design
- Dimmable beam
- Anodized aircraft-grade aluminum water-resistant body
- Charging port
- AC/DC Adapters included
- Powered by (1) rechargeable battery



**NEBO**  
TOOLS

Part #	Mfg #	Description
LIT01184	6007	REDLINE® RC Rechargeable Flashlight

## SE REDLINE® Flashlight

- 250 Lumen output
- Primary and secondary lighting modes
- 4x Adjustable zoom changes the light from spot to flood
- Anodized aircraft grade aluminum water-resistant compact body design
- Magnetic base
- Rear glow-in-the-dark button
- Battery indicator causes the button to glow red when battery life is less than 20%
- Includes (3) AAA batteries



5615



5638

**NEBO**  
TOOLS

Part #	Mfg #	Description
LIT01131	5615	14-Piece Magnetic Acrylic Security Display
LIT01176	5616	Clamshell, 12/Pk
LIT01153	5638	Black, 18/Pk
LIT01191	5956	Gray, 18/Pk

## REDLINE® Select Flashlight

- (5) Lighting modes
- High power 2,950 LUX LED
- Anodized aircraft grade aluminum
- Water and impact-resistant
- Convex lens
- Smart Select dial
- Tactical edge
- 4x Adjustable beam
- Steel belt/pocket clip
- Magnetic base
- Battery indicator glows red when battery life reaches 20%
- Glow-in-the-dark on/off button
- Includes lanyard and (2) sets of (3) AAA batteries
- 5" Long



**NEBO**  
TOOLS

Part #	Mfg #	Description
LIT01154	5620	REDLINE® Select Flashlight in Black

# Flashlights

## REDLINE® Select RC Flashlight

- (5) Lighting modes
- High power 2,950 LUX LED
- Tactical light feature emits green light from button for low light situations
- Anodized aircraft grade aluminum
- Water and impact-resistant
- Convex lens
- Smart Select dial
- Tactical edge
- 4x Adjustable beam
- Steel belt/pocket clip
- Anti-roll tactical grip ring
- Magnetic base
- Fully rechargeable
- Power bank for USB powered devices
- Charging indicator tells charging status of flashlight and USB powered devices
- Glow-in-the-dark on/off button
- Includes:
  - Lanyard
  - (1) 18650 Lithium Ion rechargeable battery
  - AC Cable
  - USB Cable
- 5" Long



**NEBO**  
TOOLS

Part #	Mfg #	Description
LIT01229	6189	REDLINE® Select RC Flashlight

## REDLINE® Select Titanium Flashlight

- 2,950 LUX LED
- Anodized aircraft-grade aluminum
- Water and impact-resistant
- Convex lens
- Smart Select Dial
- Tactical edge
- 4x Adjustable beam
- Steel belt/pocket clip
- Magnetic base
- Battery indicator glows red when battery reaches 20%
- Rear-positioned glow-in-the-dark on/off button
- Includes:
  - (2) Sets of (3) AAA batteries
  - Lanyard



**NEBO**  
TOOLS

Part #	Mfg #	Description
LIT01215	5955	REDLINE® Select Titanium Flashlight

## JAG™ 210 Lumen Flashlight

- Anodized aircraft-grade aluminum
- Concealed tactical edge with PROTEC™ Shield
- Steel belt/pocket clip
- Rear-positioned glow-in-the-dark on/off button with Soft Touch Technology
- Includes (3) AAA batteries



**NEBO**  
TOOLS

Part #	Mfg #	Description
LIT01178	5946	JAG 210 Lumen Flashlight

## EDGE™ 200 Flashlight

- 200 Lumen LED
- Anodized aircraft-grade aluminum
- Water and impact-resistant
- Removable tactical edge
- Steel belt/pocket clip
- Rear-positioned glow-in-the-dark on/off button
- Includes (1) AA battery



**NEBO**  
TOOLS

Part #	Mfg #	Description
LIT01195	6085	EDGE™200 Flashlight

# Flashlights

## O<sup>2</sup> Beam™ Flashlight

- 8,105 LUX LED
- Tactical edge
- Convex lens
- Lo-Light™ self-powered glow-light source
- 4x Adjustable beam
- Anodized aircraft-grade aluminum
- Water and impact-resistant
- Smart Select dial
- Battery indicator glows red when battery reaches 20%
- Rear-positioned glow-in-the-dark on/off button
- Includes:
  - (4) AA Batteries
  - Lanyard
  - Gift box
  - Heavy-duty carrying case



**NEBO**  
TOOLS

Part #	Mfg #	Description
LIT01197	6000	O <sup>2</sup> Beam™ Flashlight

## O<sup>2</sup> Beam™ Green Flashlight

- 2,400 LUX Green LED
- Tactical edge
- Convex lens
- Lo-Light™ self-powered glow-light source
- 4x Adjustable beam
- Anodized aircraft-grade aluminum
- Water and impact-resistant
- Instant strobe side button
- Battery indicator glows red when battery reaches 20%
- Standard end cap
- Mount includes accessory rail system for mounting additional accessories
- Includes:
  - (3) AA Batteries
  - Universal mount and dual-mode pressure switch



**NEBO**  
TOOLS

Part #	Mfg #	Description
LIT01238	6008	O <sup>2</sup> Beam™ Green Flashlight

## Seven-Z™ Flashlight

- High-power 770 lumen (6500 LUX) LED flashlight
- (6) Unique light modes
- Convex lens
- Heat sink design
- 6x Adjustable beam
- Anodized aircraft-grade aluminum
- Water and Impact-resistant
- Flex-Power™ technology allows flashlight to be powered by 3, 6 or 9 AA batteries
- Rear-positioned, glow-in-the-dark on/off button with Soft Touch technology
- Includes (9) AA batteries



**NEBO**  
TOOLS

Part #	Mfg #	Description
LIT01252	6294	Seven-Z™ Flashlight

## SLYDE™ Flashlight and COB Work Light

- 250 Lumen flashlight
- 190 Lumen Work Light
- Anodized aircraft-grade aluminum
- Water and impact-resistant
- Work light is concealed inside the flashlight body
- Powerful magnetic base
- Side-positioned on/off button with Soft Touch Technology
- Includes (4) AAA batteries



**NEBO**  
TOOLS

Part #	Mfg #	Description
LIT01198	6156	SLYDE™ Flashlight and Work Light Combo



# Flashlights

## SLYDE™Z Flashlight and COB Work Light

- 4750 LUX LED flashlight
- 250 Lumen work light
- Convex lens
- Tactical edge
- Anodized aircraft-grade aluminum
- Water and impact-resistant
- Dimmable beam
- Instant on feature (work light)
- Work light is concealed inside the flashlight body
- Powerful magnetic base
- Side-positioned on/off button with Soft Touch Technology
- Hold on/off button to activate dimming
- Work light turns on when opened, off when closed
- Includes (4) AAA batteries



**NEBO**  
TOOLS

Part #	Mfg #	Description
LIT01247	6267	SLYDE™Z Flashlight and Work Light Combo

## TRANSPORT® DC Rechargeable Flashlight

- High-power 125 lumen LED
- Fully rechargeable
- Anodized aircraft-grade aluminum
- Impact-resistant
- Charging indicator light
- Top-positioned on/off dial, twist to activate
- Includes (1) 16340 Lithium Ion rechargeable battery

**NEBO**  
TOOLS

Part #	Mfg #	Description
LIT01248	6275	TRANSPORT® DC Rechargeable Flashlight

## TWYST™ Flashlight, COB Work Light and Lantern

- 3400 LUX LED Flashlight
- 110 Lumen work light
- 250 Lumen lantern
- Advanced COB LED technology
- Tactical edge
- Fully dimmable beam
- Anodized aircraft-grade aluminum
- Water and impact-resistant
- Retractable base stabilizers
- Powerful magnetic base
- Side-positioned on/off button
- Includes (4) AA batteries



**NEBO**  
TOOLS

Part #	Mfg #	Description
LIT01254	6296	TWYST™ Flashlight, COB Work Light and Lantern

## ZOOM 130™ Flashlight



**NEBO**  
TOOLS

Part #	Mfg #	Description
LIT01212	5947	ZOOM 130™ Flashlight

## HIGHBEAM™ Rechargeable Light

- 35 Lumen output
- Anodized aircraft grade aluminum water-proof compact body design
- 12V Spring base designed to fit every automobiles 12V socket
- Recharging indicator glows red when plugged in



**NEBO**  
TOOLS

Part #	Mfg #	Description
LIT01159	5550	35-Piece Assorted Colors Acrylic Display
LIT01219	5625	Light Gray, 10/Pk
LIT01220	5626	Gray, 10/Pk
LIT01207	5627	Blue, 10/Pk
LIT01221	5628	Pink, 10/Pk
LIT01222	5962	Red, 10/Pk

# Flashlights

## iPROTECH™ Hand-Held Lighting

### iPROTEC™ Bat-Light® Tactical Flashlight

- (1) High power LED bulb outputs 200 lumens
- (3) Lighting modes: 100% light (200 lumens) 50% light, (100 lumens) and defensive strobe mode (200 lumens)
- Lanyard included
- Anodized aircraft grade aluminum water-resistant compact body design
- Rear tactical power button
- Includes (4)AA batteries
- CANNOT be sold in CA, IL, KS, MA, MI, NY, & NJ



Part #	Mfg #	Description
LIT01162	5904	High-Powered Tactical LED Light

### Bendbrite™ Hands-Free Flex-Light

- 9.5" Tall flexible Bend-Rite™ neck
- (2) Lighting modes - (3) white LEDs on (9 lumens) or (1) red LED in flash mode (0.4 lumens)
- Magnetic clip base for hands-free lighting
- Water-proof body design
- LEDs Never need replacing
- Includes (2) CR2032 batteries



Part #	Mfg #	Description
LIT01158	5423	Bendbrite™ Hands-Free Flex-Light

## Neck Lights

### Quarrow® 6072 Hands-Free Neck Light

- (2) High-power LEDs
- Flex-arms bend and maintain any shape
- Viewing distance: 40 meters
- Run time: 5 hours
- Includes (2) AA Batteries



Part #	Mfg #	Description
LIT01227	6072	Hands-Free Neck Light

## Flashlight Holsters



Part #	Mfg #	Description
LIT01139	5089	CSI Flashlight Holster with Belt/ Pocket Clip
TOL04188	5958	NEBO® Flashlight Holster
TOL04189	6032	Flashlight Holster

## Pocket Lights

### Larry™ 2 Light

- (12) LEDs output 160 lumens of light
- Red laser pointer
- Water and impact-resistant
- Ergonomic non-slip grip
- 180° Rotating magnetic clip
- Protective LED housing
- Includes (3) AAA batteries



Part #	Mfg #	Description
LIT01177	6006	24-Piece Magnetic Acrylic Display
LIT01186	6051	Orange, 12/Pk
LIT01187	6052	Gray, 12/Pk
LIT01188	6053	Black, 12/Pk
LIT01189	6054	Lime Green, 12/Pk
LIT01190	6055	Pink, 12/Pk

# Flashlights

## Larry 8 LED Work Light

- (8) LEDs Output 60 lumens of light
- Rotating magnetic clip
- Recessed LED housing
- Water-resistant reinforced plastic body design



Part #	Mfg #	Description
LIT01132	5618	24-Piece Magnetic Acrylic Display
LIT01133	5894	Red, 12/Pk
LIT01134	5895	Blue, 12/Pk
LIT01135	5896	Gray, 12/Pk
LIT01136	5897	Yellow, 12/Pk
LIT01231	6221	Camo, 12/Pk
LIT01175	5902	Carded Clamshell, 12/Pk

## Larry Silver 8 LED Work Light

- (8) LEDs output 100 lumens of light
- Fully dimmable beam (100% to 25%)
- 180° Rotating magnetic clip
- Recessed LED housing
- Water and impact-resistant zinc alloy body design
- Top-positioned on/off button
- Includes (3) AAA batteries



Part #	Mfg #	Description
LIT01230	6194	Larry Silver® 8 LED Pocket Work Light

## Larry 8 UV LED Leak Detector Light Kit

- (8) UV LEDs
- Rotating magnetic clip
- Recessed LED housing
- Water-resistant reinforced plastic body design
- Includes (3) AAA batteries
- Includes yellow tinted glasses



Part #	Mfg #	Description
LIT01165	5950	Larry 8 UV LED Leak Detector Light Kit

## LUMO™ Clip Light

- 25 Lumen LED
- Anodized aircraft-grade aluminum
- Water and impact-resistant
- Carabiner clip
- Glow-in-the-dark button
- Diffuser dome
- Rear-positioned glow-in-the-dark on/off button
- Includes (3) LR44 batteries



Part #	Mfg #	Description
LIT01196	6095	16-Piece Display with 32-Pieces Stored Inside
LIT01241	6157	Red, 12/Pk
LIT01242	6158	Silver, 12/Pk
LIT01243	6159	Blue, 12/Pk
LIT01244	6160	Black, 12/Pk

## Lanterns

### ECO LANTERN™

- (24) LEDs output 157 lumens
- Water and impact-resistant
- (4) Methods of recharging: AC, DC, solar, and wind up
- Charging indicator changes from red to green when fully charged
- Folding carrying handle
- Top and bottom reflectors
- Wire guard protects LED housing
- Crank handle for wind up



Part #	Mfg #	Description
LIT01181	5959	ECO LANTERN

### WEATHERRITE® 65 Lumen Lantern

- Water-resistant rubber and ABS base
- Cone-shaped reflector
- Comfort carry handle
- Green beacon LED flashed when lantern is off
- Front-positioned on/off glow-in-the-dark button
- Includes (3) AA batteries



Part #	Mfg #	Description
LIT01217	6004	WEATHERRITE® 65 Lumen Lantern

# Flashlights

## WEATHERRITE® 300 Lumen Lantern

- Water-resistant rubber and ABS base
- Cone-shaped reflector
- Comfort carry handle
- Green beacon LED flashes when lantern is off
- Front-positioned on/off button
- Requires (3) D batteries, not included



Part #	Mfg #	Description
LIT01224	6005	WEATHERRITE® 300 Lumen Lantern

## WEATHERRITE® 610 Lumen Lantern

- 610 Lumen LED
- Water-resistant rubber and ABS base
- Cone-shaped reflector
- Comfort carry handle
- Front-positioned on/off glow-in-the-dark button
- Requires (6) D batteries, not included



Part #	Mfg #	Description
LIT01166	5949	WEATHERRITE® 610 Lumen Lantern

## Cap-Lights

### Super6 Cap-Light

- (6) White LED's output 10.8 lumens
- (4) Lighting modes: (2) LED, (6) LED, (6) LED Flash, (6) LED SOS
- Water- and shock-proof
- 90° Tilt and 360° turn
- Clip claw attaches to virtually anything
- Up to 120 hours of light on (2) LEDs or 48 hours on (6) LEDs
- Includes (2) CR2032 batteries



Part #	Mfg #	Description
LIT01157	5103	2.25" Length

## Clip-On Cap Light

- (4) LEDs Output 24 lumens
- Water and shock-proof
- Head tilts and turns
- (2) Lighting modes



Part #	Mfg #	Description
LIT01199	5053	Clip-On Cap Light

## Quarrow® High-Powered Cap-Light

- (1) High powered LED outputs 35 lumens (bulbs rated for 110,000+ hours of life)
- (4) Powerful UV LEDs output 2-3 milliwatts (3.4 - 3.6V; 20MA.) (wavelength: 410-415nm)
- Head tilts 90° and turns 360° to provide light in all directions
- (5) Lighting modes:
  - 100% White light (35 lumens)
  - 50% White light (17.5 lumens)
  - (4) UV LEDs On
  - (4) UV LEDs In strobe mode
  - All LEDs in an S.O.S. sequence
- Clip claw clips lamp to caps, visors, seat belts, backpacks, shirts, etc
- Powerful magnetic base
- Viewing distance: 35 Meters
- Run time: 20 hours
- Water-proof / shock proof
- Glow-in-the-dark power button
- Includes (2) CR2032 batteries



Part #	Mfg #	Description
LIT01228	5479	35 Lumen Cap-Light



# Flashlights

## Quarrow® Rechargeable 40 Lumen Cap Light

- Charges fully in (2) hours
- Anodized aircraft-grade aluminum
- Water and impact-resistant
- Magnetic clip base
- Recharges in 12V car lighter socket
- 90° Vertical flexibility and 360° rotation
- Recharging indicator
- Twist bezel turns light on and off



Part #	Mfg #	Description
LIT01201	5481	Quarrow Rechargeable 40 Lumen Cap Light

## Head Lamps

### TRI-EYE High Powered 35 Lumen Head Lamp

- (1) White 35 lumen LED and (2) UV LEDs (Bulbs rated for 110,000+ hours of life)
- Viewing distance: 35 meters (114 ft.) with 35 lumens of light
- Weather-proof
- Shock-proof body with impact plastic housing
- Soft foam padding for non-slip comfort
- 2-Way adjustable head strap
- Includes (2) CR2032 batteries



Part #	Mfg #	Description
APL00486	5482	35 Lumen Head Lamp, Purple
APL00475	5483	35 Lumen Head Lamp, Green

## Quarrow® 70 Lumen Head lamp

- High-power 70 lumen LED
- (10) UV LEDs: 2 - 3 milliwatts / 410-415 nanometers
- (4) Green LEDs
- Light modes:
  - White: 70 Lumens - 7 hours / 30 meters
  - (10) UV LEDs: 410-415nm - 30 hours / 10 meters
  - (4) Green LEDs: 4 Lumens - 50 hours / 30 meters
  - Strobe: 70 Lumens - 10 hours / 70 meters
- Head tilts 90°
- Water and impact-resistant
- 2-Way adjustable head strap
- Soft foam padding for non-slip comfort
- Top-positioned on/off button
- Includes (3) AAA batteries



Part #	Mfg #	Description
APL00476	5492	70 Lumen Head Lamp

### 90 Lumen Head Lamp

- (2) Red LEDs
- Reinforced plastic is water and impact-resistant
- Head tilts 90°
- Adjustable head strap
- On/off button
- Includes (3) AAA batteries



Part #	Mfg #	Description
LIT01185	6003	Head Lamp

## Hat Lights

### L205 Mini Hat Light

- Attaches to a baseball hat
- Includes hat clip
- Electrically and thermally nonconductive
- Withstands 6' drops to concrete
- Waterproof
- Rugged ABS case won't crack or chip
- Bright xenon lamp in a prefocused optical quality reflector



Part #	Mfg #	Description
LIT00923	L205	Mini Hat Light

# Flashlights

## L206 Deluxe LED Hat Light

- (3) Super bright white LEDs
- 360° Rotating clip
- 40 Hour battery life
- Water resistant
- Durable polymer construction
- Rubber shielded bezel



Part #	Mfg #	Description
LIT00916	L206	Deluxe LED Hat Light

## Flashlights

### Industrial Mini-Flashlight



- Optical pre-focused collimator lens
- 100,000 Hours of continuous lamp life, 10-year life
- Machined metal housing sealed with o-rings for long service life
- On/off tail switch also features momentary on/off
- Powered by AA alkaline batteries
- Includes:
  - Mini-flashlight
  - (1) Rechargeable AA battery
  - User manual
  - Hand strap



Part #	Mfg #	Description
LIT00991	Flash-80	80-Lumen Mini-Flashlight

### Industrial LED Flashlight with Zoom



- Zoom feature focuses the light on the desired area
- Optical pre-focused collimator lens
- 100,000 Hours of continuous lamp life, 10-year life
- Machined metal housing sealed with o-rings for long service life
- On/off tail switch also features momentary on/off
- Powered by AA alkaline batteries
- Includes:
  - Mini-flashlight
  - (2) Rechargeable AA batteries
  - User manual
  - Hand strap



Part #	Mfg #	Description
LIT00989	Flash-150Z	150-Lumen LED Flashlight

## Flashlights

### Recoil™ LED Grip-It™ 90° Flashlight

- 1W Luxeon Lambertion LED
- 10,000 Hours of lamp life
- 1-Hand safety on/off switch operation
- Rugged ABS body with polycarbonate lens
- O-Ring sealed shroud
- 90° Right angle head
- Wrist lanyard
- Includes (4) AA batteries



Part #	Mfg #	Description
TOL03115	X21	32 Lumen Output

## Flashlights by Mag-Lite™

### Mag-Lite™ C & D Cell Flashlight



Part #	Mfg #	Description
LIT00863	7-S2C016	Black 2 Cell C Flashlight
LIT00866	7-S2D016	Black 2 Cell D Flashlight
LIT00867	7-S3D016	Black 3 Cell D Flashlight
LIT00868	7-S4D016	Black 4 Cell D Flashlight

### Mini Mag-lite™

- Made in USA



Part #	Mfg #	Description
LIT00873	7-M2A016	Black AA
LIT00875	7-M2A026	Camouflage AA
LIT00871	7-M3A016	Black AAA
LIT00874	7-M2A036	Red AA
LIT00872	7-M3A036	Red AAA
HLD00274	7-AM2A056	Black Mini Mag-Lite AA Holster

# Flashlights

## Mag-Lite™ Solitaire Flashlight

- Made in USA



Part #	Mfg #	Description
LIT00876	7-K3A016	Black 1 Cell AAA Flashlight
LIT00877	7-K3A036	Red 1 Cell AAA Flashlight
LIT00878	7-K3A116	Blue 1 Cell AAA Flashlight

## Mag-Lite™ Replacement Bulb



Part #	Mfg #	Description
BUL00827	7-LWSA201	2 Cell C or D 2/Card
BUL00828	7-LWSA301	3 Cell C or D 2/Card
BUL00826	7-LM2A001	AA Mini Mag-Lite™ 2/Pk

## Magna-Lite™ Pocket Flashlight/Magnifier

- Unbreakable, lightweight
- Replaceable penlight batteries



Part #	Mfg #	Description
LIT00879	ML-100	Magna-Lite

## Mag Charger Replacement Bulb



Part #	Mfg #	Description
BUL00846	7-LR00001	For Mag-Lite Rechargeable Flashlight

## Flashlights by Rayovac™

### Rayovac™ Industrial Flashlight

- Toolbox tough polypropylene construction
- Scratch resistant unbreakable lens
- Full lifetime warranty
- Made in USA



Part #	Mfg #	Description
LIT00985	7-IN2	2 Cell D Size

## Rayovac™ Industrial Swivel Light

- 90° Pivoting head
- Stand up base, non-roll design
- Rubber handle/end caps
- Includes batteries



Part #	Mfg #	Description
LIT00888	7-ILJ2AAB	2 Cell AA Swivel Lite
LIT00889	7-ISL2D-B	2 Cell D Swivel Lite

## Replacement Bulb



Part #	Mfg #	Description
BUL00844	7-K2-2	K2-2 Replacement Bulb For 2 Cell D Flashlight

## Rayovac™ Miniature Bulb



Part #	Mfg #	Description
LIT00912	7-T1-2	2 Bulbs per Card

## Rough Service Light Bulbs

### Rough Service Light Bulb

- Withstands unusual shock and abuse on drop cord, mechanic trouble lights and extension cords



Part #	Mfg #	Watts	Qty
BUL00861	7-75W	75W	120
BUL00862	7-100W	100W	120



# Flashlights

## Work Lights

### GoodLight Cordless Rechargeable Work Light Flashlight

- 5 Hour charging time
- Includes:
  - 115VAC Charging cord
  - 12VDC Charging cord
  - Swivel hook
  - Magnetic mount

GOODWAY



Part #	Mfg #	Description
LIT00903	GL-30	GoodLight Flashlight

### WORKBRITE™ Work Light

- (3) Ways to use: hanging hook, 200° pivoting stand, magnetic base
- (20) LEDs output 200 lumens
- (6) LEDs output 60 lumens
- Water and impact-resistant
- Ergonomic non-slip grip
- On/off button with Soft Touch Technology
- Includes (4) AAA batteries



Part #	Mfg #	Description
LIT01183	6001	WORKBRITE™ Work Light

### L200 Probe Light

- Small, rugged light easily attaches to any Fluke test probe
- Bright white LED illuminates contact area
- Frees both hands for work
- 120 Hour battery life
- Uses (2) 3V watch batteries



Part #	Mfg #	Description
LIT00907	L200	Probe Light Attachment

### L215 SureGrip™ Kit with Probe Light & Probe Extenders

- Includes:
  - L200 Probe light
  - TP280 20 cm Test probe extenders
  - TP220 SureGrip™ test probes
  - TL224 SureGrip™ silicon test lead set
  - Foldable soft pouch with six pockets and hook-and-loop



Part #	Mfg #	Description
KIT12235	L215	SureGrip™ Kit w/Probe Light and Probe Extenders

### Trouble Light

DIVERSITECH



Part #	Mfg #	Wire	Cord Length	Rating
TOL04519	5200	16/3	25'	13A/125V

### Tradesman Pro Work Light

- Swivel hook and magnet
- Includes (3) AAA batteries

KLEIN TOOLS

Part #	Mfg #	Description
TOL04248	55437	Tradesman Pro Work Light

# Hammers, Chisels, & Punches

## Hammers

### Ball-Peen Hammer

- High-carbon steel head is forged and hardened
- Crowned face with uniform bevel
- Smoothly rounded peen
- Straight grain hickory handle is stained and lacquered



Part #	Mfg #	Head Weight	Length
TOL02410	803-8	8 oz	11-1/2"
TOL02612	803-12	12 oz	12-1/2"
TOL02411	803-16	16 oz	13-1/2"
TOL03036	803-32	32 oz	15"

### Hand-Drilling Hammer

- Extra heavy, forged steel head, hardened and tempered
- Short handle for working in close quarters



Part #	Mfg #	Head Weight	Length
TOL02563	823-48	48 oz	10"

### Lineman's Straight-Claw Hammer

- Heavy-duty, double-duty hammer drives lags and pulls big nails
- Special high-carbon steel head with solid, octagon-shaped driving end and thick, strong claw
- Straight grain hickory handle, lacquered



Part #	Mfg #	Head Weight	Length
TOL03264	832-32	32 oz	15"

### Heavy-Duty Straight-Claw Hammer

- Durable plastic-alloy jacketing helps to protect neck from fraying and splintering if incorrectly struck or overstruck
- High-strength fiberglass shaft absorbs shock and keeps head tight
- Perforated neoprene grip bonded to handle
- Straight-claw design for easy nail pulling in tight quarters



Part #	Mfg #	Head Weight	Length
TOL02547	808-16	16 oz	13"
TOL02666	808-20	20 oz	14"

### Spring Grip Chipping Hammer

- Chrome alloy steel head



Part #	Mfg #	Head Weight	Length
TOL04605	5WHSP	0.99 lbs	10-5/8"

## Punches

### Center Punch

- High-carbon steel
- Smooth-ground points heat-treated to stay sharp longer
- Corrosion-resistant black finish



Part #	Mfg #	Description
TOL03238	66310	1/4" 4-1/4"
TOL03844	66311	5/16" 4-1/2"

### Drift Punch

- High carbon steel
- Corrosion resistant black finish



Part #	Mfg #	Point & Taper	Overall Length
TOL03797	66340	1/8" x 4-1/4"	8"
TOL03798	66342	3/16" x 5"	9"
TOL03799	66343	1/4" x 5-1/2"	11"
TOL03800	66344	5/16" x 5-1/2"	11"

### Pin Punch

- High carbon steel
- Precision-ground shank
- Heat treated for added strength and hardness
- Corrosion resistant black finish



Part #	Mfg #	Point Diameter	Overall Length
TOL03202	66320	1/16"	4-1/4"
TOL02479	66322	1/8"	5"
TOL03204	66323	5/32"	5-1/4"
TOL02480	66324	3/16"	5-1/2"
TOL03251	66325	1/4"	7"

# Hammers, Chisels, & Punches

## Chisels

### Cold Chisel



- Cuts, shapes, and removes metal
- Corrosion resistant black finish
- Heat-treated, high carbon steel for necessary hardness and durability



Part #	Mfg #	Blade Width	Overall Length
TOL02473	66140	3/8"	5"
TOL02474	66142	1/2"	6"
TOL02475	66143	5/8"	6-1/2"
TOL02476	66144	3/4"	7-1/2"
TOL03243	66177	3/4"	12"
TOL02477	66145	7/8"	8"
TOL02478	66146	1"	8-1/2"
TOL03845	66183	1"	12"



# Hangers & Straps

## EMT Thinwall Fittings

### One-Hole EMT Strap

- Bright zinc, electro-plated steel

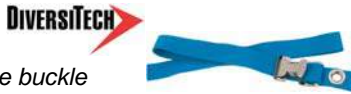


Part #	Mfg #	Size
SRP00915	625-372	1"

## Hanging Straps

### Hanging Strap

- Spring loaded adjustable buckle
- Strong, durable 1" polypropylene webbing



Part #	Mfg #	Description
SRP00883	HS-30	31" Hanging Strap
SRP00884	HS-30-2	31" Hanging Strap, 2/Card
SRP00885	HS-60	60" Hanging Strap
SRP00886	HS-60-2	60" Hanging Strap, 2/Card

### Lashing Strap

- Strong, durable nylon webbing rated at 3,000 lbs
- End hooks at 1,200 lbs tensile strength



Part #	Mfg #	Description
SRP00887	HS-144	144" Lashing Strap

### Ratchet Strap

- Ratchet action latch and fast release cam
- Cadmium-plated steel buckle has positive lock
- Nylon webbing rated 3,000 psi tensile
- End hooks at 1,200 lbs tensile



Part #	Mfg #	Description
SRP00888	HS-192	16' Ratchet Strap

### Rubber Tie Down Strap

- Stretches to double its length
- Extra heavy steel S-hooks on each end



Part #	Mfg #	Description
SRP00889	RS-9	9" Rubber Strap
SRP00890	RS-15	15" Rubber Strap
SRP00891	RS-20	20" Rubber Strap
SRP00892	RS-31	31" Rubber Strap
SRP00893	RS-41	41" Rubber Strap

## Truck Rope



Part #	Mfg #	Size	Length
TOL03482	25001	3/8"	50'

## Polypropylene Hardline with Snap Hook

- 75' of 5/16" 3-Strand poly rope
- Forged steel with swivel clevis and plunger style latch
- Maximum safe load: 250 lbs



Part #	Mfg #	Description
TOL03016	1803-60	Snap Hook

# Heat Exchanger Cleaners

## Heat Exchanger Cleaners

### Air Powered Tube Cleaner

- Adjustable flexible shaft speed: 500 - 3,000 rpm
- Up to 1 hp motor power
- Air minimum requirement: 60 psi @ 15 CFM
- Air maximum: 100 psi @ 70 CFM
- Simultaneous water flush or vacuum
- Tachometer
- Quick disconnect air and water fittings
- 1-Direction foot switch
- Shock-resistant
- Weight: 29 lbs net dry



Part #	Mfg #	Description
TOL04135	AWT-100	Air Powered Tube Cleaner

### Flexible Shafts

#### Flexible Shaft for Wet Tube Cleaning

- Nylon casing
- Q Suffix = quick connect



#### 1" or Greater Tube ID Flexible Shaft

Part #	Mfg #	Length
SHF02909	GTC-720-15	15'
SHF02915	GTC-720-25	25'
SHF03026	GTC-720-35	35'
SHF03027	GTC-720-50	50'
SHF02980	GTC-721-25	25'

## Heat Exchanger Cleaner Parts & Accessories

### Air Powered Tube Cleaning Drill

- Up to 2/3 hp depending on air pressure and volume
- Drill speed: 950 rpm
- Minimum air requirement: 50 psi @ 10.6 CFM
- Maximum air requirement: 90 psi @ 19 CFM
- Minimum water requirement: 30 psi
- Maximum water requirement: 100 psi
- Cleans 3/16" - 1" ID tubes plugged solidly with most types of deposits
- Hollow drill
- Push button triggers
- Independent air motor and water flow controls
- Weight: 5 lbs
- Includes:
  - 15' Air hose
  - 15' Water hose
  - Starter drill



Part #	Mfg #	Description
TOL04099	PSM-500	Pneumatic Tube Cleaning Drill

### Coupling

Part #	Mfg #	Description
CPL01085	TCB-C	Coupling for TCB Brushes to GTC-720 & GTC-721

### Starter Drill

- For tube ID 3/16" and up



Part #	Mfg #	Description
TOL04100	GTC-975A	Starter Drill

### Tube Cleaning Combination Air Lubricator, Filter, and Regulator

- 1/2" NPT Ports
- Maximum pressure: 150 psi
- Maximum temperature: 140°F
- Air displacement: 140 CFM



Part #	Mfg #	Description
TOL04136	GTC-705-4	Combination Air Lubricator, Filter, and Regulator



# Heat Exchanger Cleaners

## Heat Exchanger Cleaning Brushes

### Brass Tube Cleaning Brush for GTC-720 & GTC-820 Series

- For removing soft and light scale deposits in straight, ferrous and non-ferrous tubes



Part #	Mfg #	Tube OD
BRU00392	TCB-012B	1-1/4"
BRU00393	TCB-015B	1-1/2"
BRU00390	TCB-017B	1-3/4"
BRU00305	TCB-020B	2"
BRU00391	TCB-022B	2-1/4"
BRU00389	TCB-025B	2-1/2"
BRU00394	TCB-027B	2-3/4"
BRU00395	TCB-032B	3"
BRU00396	TCB-032B	3-1/4"
BRU00397	TCB-035B	3-1/2"
BRU00398	TCB-037B	3-3/4"
BRU00399	TCB-040B	4"

### Carbon Steel Tube Cleaning Brush for GTC-720 & GTC-820 Series

- For removing soft and light scale deposits in straight, ferrous and nonferrous tubes
- Not recommended for stainless steel tubes



Part #	Mfg #	Tube OD
BRU00400	TCB-050C	5"
BRU00401	TCB-060C	6"
BRU00402	TCB-070C	7"
BRU00403	TCB-080C	8"
BRU00404	TCB-090C	9"
BRU00405	TCB-100C	10"
BRU00406	TCB-110C	11"
BRU00407	TCB-120C	12"
BRU00408	TCB-130C	13"
BRU00409	TCB-140C	14"

## Nylon Tube Cleaning Brush

- For removing soft deposits in straight, ferrous and nonferrous tubes



Part #	Mfg #	Tube OD
BRU00325	TCB-012N	1-1/4"
BRU00326	TCB-015N	1-1/2"
BRU00327	TCB-017N	1-3/4"
BRU00304	TCB-020N	2"
BRU00410	TCB-025N	2-1/2"
BRU00387	TCB-022N	2-1/4"
BRU00411	TCB-027N	2-3/4"
BRU00357	TCB-030N	3"
BRU00385	TCB-032N	3-1/4"
BRU00388	TCB-035N	3-1/2"
BRU00412	TCB-037N	3-3/4"
BRU00358	TCB-040N	4"

## Plastic Tube Cleaning Brush

- For removing soft deposits in straight, ferrous and nonferrous tubes



Part #	Mfg #	Tube OD
BRU00413	TCB-040P	4"
BRU00359	TCB-050P	5"
BRU00414	TCB-060P	6"
BRU00415	TCB-070P	7"
BRU00416	TCB-080P	8"
BRU00417	TCB-090P	9"
BRU00418	TCB-100P	10"
BRU00419	TCB-110P	11"
BRU00420	TCB-120P	12"
BRU00421	TCB-130P	13"
BRU00422	TCB-140P	14"



# Heat Exchanger Cleaners

## Large Stainless Steel Tube Cleaning Brush

- For removing soft and light scale deposits in straight, ferrous tubes



Part #	Mfg #	Tube OD
BRU00311	TCB-012S	1-1/4"
BRU00312	TCB-015S	1-1/2"
BRU00322	TCB-017S	1-3/4"
BRU00363	TCB-020S	2"
BRU00330	TCB-022S	2-1/4"
BRU00364	TCB-025S	2-1/2"
BRU00331	TCB027S	2-3/4"
BRU00354	TCB-030S	3"
BRU00386	TCB-032S	3-1/4"
BRU00423	TCB-035S	3-1/2"
BRU00424	TCB-037S	3-3/4"
BRU00355	TCB-040S	4"
BRU00426	TCB-042S	4-1/4"
BRU00425	TCB-045S	4-1/2"
BRU00427	TCB-047S	4-3/4"
BRU00356	TCB-050S	5"

## Heat Exchanger Cleaning Tools

### Abrasive Flex Hone

- Light pressure, soft application honing device for cleaning straight, ferrous tubes
- 180 Grit silicon carbide abrasive globules bonded to high density nylon filaments
- Use with a water flush for maximum life
- Q Suffix = quick connect



Part #	Mfg #	Size
TOL01700	FHT-025	1/4"
TOL01701	FHT-031	5/16"
TOL01702	FHT-037	3/8"
TOL01703	FHT-043	7/16"
TOL01924	FHT-043-Q	7/16"
TOL01704	FHT-050	1/2"
TOL01925	FHT-050-Q	1/2"
TOL01705	FHT-056	9/16"
TOL01926	FHT-056-Q	9/16"
TOL01698	FHT-062	5/8"
TOL01927	FHT-062-Q	5/8"
TOL01706	FHT-068	11/16"
TOL01928	FHT-068-Q	11/16"
TOL01707	FHT-075	3/4"
TOL01929	FHT-075-Q	3/4"
TOL01708	FHT-087	7/8"
TOL01930	FHT-087-Q	7/8"
TOL01709	FHT-100	1"
TOL01931	FHT-100-Q	1"

### Adjustable Triangular Scraping Tool

- For removing heavy scale deposits in ferrous tubes
- May only be used in a clockwise direction, and cannot be used in internally enhanced tubes
- Adjustable to a 1/4" range



Part #	Mfg #	Tube OD
TOL01666	TST-500	1/2" - 3/4"
TOL03333	TST-750	3/4" - 1"
TOL01908	TST-1000	1 - 1-3/8"
TOL01909	TST-1400	1-3/8" - 1-3/4"
TOL03200	TST-1500	1-1/2" - 2"



# Heat Exchanger Cleaners

## Flex-Hub Tube Cleaning Tool

- For removing hard and heavy deposits in straight or curved tubes
- Centrifugally activated blades
- GTC-229 Drill may be attached to front to clean severely clogged tubes



Part #	Mfg #	Tube ID
TOL03765	GTC-227	1-3/4" - 4"
TOL03766	GTC-231	1-1/2" - 2"
TOL03767	GTC-226	7/8" - 1-1/2"
TOL03768	GTC-225	1/2" - 1"

## Hollow Rod



Part #	Mfg #	Description
TOL04101	GTC-960-3	Hollow Rod for PSM-500

## Replacement Cone



Part #	Mfg #	Description
TOL04137	RCO-100	Replacement for Cone Cutter Tool
TOL04138	FCT-301	Rigid Arm Flare Cone Tool for Tube 4" - 6-1/2" ID

## Heat Exchanger Cleaning Tool Parts

### Replacement Blades for GTC Series Flex Hub Tools

- Includes (3) blades



Part #	Mfg #	Description
BLD01233	GTC-227A	For GTC-227
BLD01234	GTC-231A	For GTC-231
BLD01235	GTC-226A	For GTC-226
BLD01236	GTC-225A	For GTC-225



# Hex Key Wrenches

## Folding Hex Key Sets

### Grip-It® 5-Key Hex Set

- Heavy-duty reinforced handle
- Precision fit ball hex ends



Part #	Mfg #	Description
TOL02593	70570	5" Length Sizes: 3/16", 7/32", 1/4", 5/16", 3/8" - Yellow
TOL03971	70572	5" Length Sizes: 5mm, 6mm, 7mm, 8mm, 10mm - Ball - Red

### Grip-It® 9-Key Hex Set

- Heavy-duty reinforced handle
- Precision fit hex ends



Part #	Mfg #	Description
TOL02466	70574	9" Length Sizes: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"
TOL02566	70575	9" Length Sizes: .050", 1/16", 5/64", 3/32", 7/65", 1/8", 9/64", 5/32", 3/16"

### Grip-It® 12-Key Hex Set

- Heavy-duty reinforced handle
- Square cut ends



Part #	Mfg #	Description
TOL02592	70573	12 Length Sizes: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm - Blue

### Metric 5-Key Hex Set



Part #	Mfg #	Description
TOL02428	70580	133mm Length Sizes: 4, 5, 6, 8, 10

### Metric 7-Key Hex Set



Part #	Mfg #	Description
TOL03972	70582	92mm Length Sizes: 1.5, 2, 2.5, 3, 4, 5, 6

### TORX® 7-Key Hex Set



- TORX® Drive cuts slippage, saves fasteners, and efficiently transmits more torque to the work

Part #	Mfg #	Description
TOL02517	70586	4-1/4" Length Sizes: 2-1/8" to 3"

### 5-Key Hex Set



- (2) Key positions (straight-out or right angle) for extra leverage
- Hex ends are square-cut for a secure full depth fit and maximum contact with the hex socket to prevent slippage and stripping of the socket



Part #	Mfg #	Description
TOL02362	70579	5-1/4" Handle Length, Sizes: 3/16", 7/32", 1/4", 5/16", 3/8"

### 8-Key Hex Set



Part #	Mfg #	Description
TOL02361	70581	3-1/16" Length Sizes: .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32"
TOL02716	70583	5-1/4" Length Sizes: 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"

### 9-Key Hex Set



Part #	Mfg #	Description
TOL02360	70591	4-1/4" Length Sizes: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"

# Hex Key Wrenches

## L-Style Hex Keys

### Long-Arm Hex Key



Part #	Mfg #	Hex Size	Short/Long Lengths
TOL02364	LL2	1/2"	5/8" - 2-15/16"
TOL02365	LL4	1/16"	21/32" - 3-3/32"
TOL02366	LL5	5/64"	11/16" - 3-9/32"
TOL02367	LL6	3/32"	3/4" - 3-15/32"
TOL02368	LL7	7/64"	25/32" - 3-21/32"
TOL02369	LL8	1/8"	27/32" - 3-27/32"
TOL02370	LL9	9/64"	7/8" - 4-1/32"
TOL02371	LL10	5/32"	15/16" - 4-7/32"
TOL02372	LL12	3/16"	1-1/32" - 4-1/2"
TOL02373	LL14	7/32"	1-1/8" - 4-29/32"
TOL02374	LL16	1/4"	1-7/32" - 5-11/32"
TOL02375	LL20	5/16"	1-11/32" - 6-1/32"
TOL03095	LL24	3/8"	1-15/32" - 6-27/32"
TOL02509	LLM10	10mm	1-3/32" - 5-9/32"

### L-Style Ball-End Hex Key

- Long side for accessing hard-to-reach places
- Short side for higher torque situations and low clearances



Part #	Mfg #	Hex Size	Short Lgth	Long Lgth
TOL02377	BL2	1/2"	19/32"	2-29/32"
TOL02378	BL4	1/16"	5/8"	3-1/16"
TOL02379	BL5	5/64"	21/32"	3-1/4"
TOL02380	BL6	3/32"	23/32"	3-7/16"
TOL02381	BL7	7/64"	3/4"	3-5/8"
TOL02382	BL8	1/8"	13/16"	3-13/16"
TOL02383	BL9	9/64"	27/32"	4"
TOL02384	BL10	5/32"	29/32"	4-3/16"
TOL02385	BL12	3/16"	1"	4-15/32"
TOL02386	BL14	7/32"	1-3/32"	4-7/8"
TOL02387	BL16	1/4"	1-3/16"	5-5/16"
TOL02388	BL20	5/16"	1-5/16"	6"

## L-Style Hex Key Sets

- Long side for accessing hard-to-reach places
- Short side for higher torque situations and low clearances

### 9-Piece L-Style Hex Ball-End Caddy Set - Metric

- Includes:
  - 1.5mm (BLM15)
  - 2mm (BLM2)
  - 2.5mm (BLM25)
  - 3mm (BLM3)
  - 4mm (BLM4)
  - 5mm (BLM5)
  - 6mm (BLM6)
  - 8mm (BLM8)
  - 10mm (BLM10)



Part #	Mfg #	Description
TOL02661	BLMK10	9-Piece Set - Metric

### 9-Piece L-Style Hex Caddy Set - Metric

- Includes:
  - 1.5mm (LLM15)
  - 2mm (LLM2)
  - 2.5mm (LLM25)
  - 3mm (LLM3)
  - 4mm (LLM4)
  - 5mm (LLM5)
  - 6mm (LLM6)
  - 8mm (LLM8)
  - 10mm (LLM10)



Part #	Mfg #	Description
TOL02970	LLMK10	9-Piece Set - Metric

### 12-Piece L-Style Hex Ball-End Caddy Set - Inch

- Includes:
  - .050" (BL2)
  - 1/16" (BL4)
  - 5/64" (BL5)
  - 3/32" (BL6)
  - 7/64" (BL7)
  - 1/8" (BL8)
  - 9/64" (BL9)
  - 5/23" (BL10)
  - 3/16" (BL12)
  - 7/32" (BL14)
  - 1/4" (BL16)
  - 5/16" (BL20)



Part #	Mfg #	Description
TOL02376	BLK12	12-Piece Set - Inch

# Hex Key Wrenches

## 12-Piece L-Style Hex Caddy Set - Inch

- Includes:
  - .050" (LL2)
  - 1/16" (LL4)
  - 5/64" (LL5)
  - 3/32" (LL6)
  - 7/64" (LL7)
  - 1/8" (LL8)
  - 9/64" (LL9)
  - 5/32" (LL10)
  - 3/16" (LL12)
  - 7/32" (LL14)
  - 1/4" (LL16)
  - 5/16" (LL20)



Part #	Mfg #	Description
TOL02363	LLK12	12-Piece Set - Inch

## 8-Pc Metric Journeyman™ T-Handle Hex Key Set with Stand

- Soft-touch grips
- Sizes laser etched on blades
- Blade-through handle design
- Chamfered end
- Treated steel for rust and corrosion resistance



Part #	Mfg #	Blade Length
TOL04520	JTH68MB	6"
TOL03973	JTH98M	9"

## T-Handle Hex Keys

### Individual T-Handle Hex Key

- T-Handle design delivers more torque to the fasteners
- Color-coded handles: blue for metric, black for inch



Part #	Mfg #	Hex Size	Blade Length
TOL03127	76214	7/32"	4-1/2"
TOL02667	76220	5/16"	4-1/2"
TOL02669	76232	1/2"	4-1/2"
TOL03677	76310	10mm	6"
TOL02577	79220	5/16"	7-1/2"

## 10-Pc SAE Journeyman™ T-Handle Hex Key Set with Stand

- T-Handle design delivers more torque to the fasteners
- Cat. number and hex size on handle for positive identification
- Molded-in finger grooves
- Treated steel for rust and corrosion resistance
- Soft-touch grips



Part #	Mfg #	Blade Length
TOL03737	JTH610E	6"
TOL03665	JTH910E	9"

## Journeyman™ T-Handle Hex Key

- T-handle design delivers maximum power
- Soft touch grips for maximum control and comfort
- Sizes laser etched on blade
- Blade-through handle design for high torque applications
- Tip-Ident sizes marked
- Treated steel for rust and corrosion resistance
- Chamfered end for ease of use



Part #	Mfg #	Hex Size	Blade Length
TOL03664	JTH9E10	5/32"	9"
TOL03702	JTH9E08	1/8"	9"
TOL04028	JTH9E13	1/4"	9"
TOL04029	JTH9E15	3/8"	9"

# Holemaking Products & Accessories

## Drill Bits

### Carbide-Tipped Masonry Drill Bit

- Drills through brick, concrete, plaster, and tile
- Black-oxide finish



Part #	Mfg #	Description
TOL04031	53178	1/2" Masonry Drill Bit

### Unibit® High Speed Steel Step-Drill Bit - Inch

- Single fluted design
- Laser etched hole sizes
- Anti-skid tip
- Works in most metals (steel, brass, aluminum, copper), as well as in plastic and wood
- T Suffix = titanium nitride coated (steel standard)



Part #	Mfg #	No. of Hole Sizes per Bit
TOL02397	59001	(13) in 1/32" Increments, 1/8" to 1/2"
TOL02398	59002	(8) in 1/16" Increments, 9/16" to 1"
TOL02399	59003	(9) in 1/16" Increments, 1/4" to 3/4"
TOL02400	59004	(10) in 1/16" Increments, 13/16" to 1-3/8"
TOL02401	59005	(6) in 1/16" Increments, 3/16" to 1/2"
TOL02403	59008	(1) - 7/8"
TOL03275	59009	(10) in 1/8" Increments, 1/4" to 1-3/8"
TOL03941	59009T	(10) in 1/8" Increments, 1/4" to 1-3/8"
TOL02405	59011	(2) in 1/16" Increments, 7/8" to 1-1/8"
TOL02406	59014	(12) in 1/16" Increments, 3/16" to 7/8"
TOL02720	59001T	(13) in 1/32" Increments, 1/8" to 1/2"
TOL02721	59003T	(9) in 1/8" Increments, 1/4" to 3/4"
TOL03140	59014T	(12) in 1/16" Increments, 3/16" to 7/8"

### 13-Pc Regular-Point Drill Bit Set

- Hinged metal box with stand-up bit holder
- General-purpose high-speed bits
- Standard jobber length
- Black-oxide finish
- Lightly roughened surface



Part #	Mfg #	Description
TOL02562	53002	13-Piece Regular-Point Drill Bit Set

### 15-Pc Regular-Point Drill Bit Set

- Hinged metal box with (2) stand-up bit holders
- General-purpose high-speed bits
- Standard jobber length
- Black-oxide finish
- Lightly roughened surface



Part #	Mfg #	Description
TOL03826	53001	15-Piece Regular-Point Drill Bit Set

### 29-Pc Regular-Point Drill Bit Set

- Hinged metal box with (3) stand-up bit holders
- General-purpose high-speed bits
- Standard jobber length
- Black-oxide finish
- Lightly roughened surface



Part #	Mfg #	Description
KIT12238	53000	29-Piece Regular-Point Drill Bit Set

# Holemaking Products & Accessories

## Hole Saws

### Bi-Metal Hole Saw

- Bi-metal cobalt for heavy-duty cutting
- Variable pitch teeth
- Multiple knock out slots and holes for easy core removal
- Cuts through steel, wood, plastic, stainless steel, and cast iron



Part #	Mfg #	Size
TOL02915	31512	3/4"
TOL02882	31514	7/8"
TOL02976	31516	1"
TOL02883	31518	1-1/8"
TOL02990	31520	1-1/4"
TOL02924	31522	1-3/8"
TOL02991	31524	1-1/2"
TOL02885	31528	1-3/4"
TOL02904	31532	2"
TOL02905	31534	2-1/8"
TOL02906	31540	2-1/2"
TOL02992	31548	3"
TOL02917	31556	3-1/2"
TOL02918	31564	4"
TOL03019	31566	4-1/8"
TOL02919	31572	4-1/2"
TOL02920	31580	5"
TOL02921	31596	6"

### Flex Bit Auger

- Tapered back for easy retrieval
- Spring steel shaft resists deformation
- Screw point tip
- Hole in tip for wire or cable pulling grip



Part #	Mfg #	Length
TOL03316	53751	72" x 3/4"

### Hole Saw Accessories



31674

Part #	Mfg #	Description
TOL02887	31674	1/4" x 3" Replacement Pilot Drill Bit
TOL02949	31672	1/4" x 4-1/2" Replacement Pilot Drill Bit

### Hole Saw Arbor

- 118° Split point pilot bits
- Hardened mandrels for long thread life



Part #	Mfg #	Size	Shank	Thread
TOL02886	31660	1/2"	7/16" Hex	1/2"-20
TOL02907	31650	1/4"	1/4" Rnd	1/2"-20
TOL02908	31655	3/8"	3/8" Hex	1/2"-20
TOL02909	31670	7/16"	1/2" Hex	5/8"-18

### Journeyman's Hole Saw Kit

- Includes:
  - (9) Bi-metal hole saws: 3/4", 7/8", 1-1/8", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/4", 2-1/2"
  - (3) Arbors
  - (1) Arbor extender
  - Rust-proof molded plastic carrying case



Part #	Mfg #	Description
KIT12347	31635	Journeyman's Hole Saw Kit

### Large Size Hole Saw Kit

- Includes:
  - (4) bi-metal hole saws: 3", 3-5/8", 4-1/8", 4-1/2"
  - (1) Arbor
  - Metal carrying case



Part #	Mfg #	Description
TOL03550	31645	Large Size Hole Saw Kit

### Replacement Carbide Hole Cutter Pilot Bit

- Cuts holes in stainless steel, mild steel, iron, copper, and brass sheet up to 3/16" thick
- Split point pilot drill bit
- Integrated flange



Part #	Mfg #	Description
TOL03459	31874	Replacement Carbide Hole Cutter Pilot Bit



# Holemaking Products & Accessories

## 8-Pc Electrician's Hole Saw Kit

- Includes:
  - (8) Hole saws: 7/8", 1-1/8", 1-3/8", 1-3/4", 2", 2-1/2"
  - (2) Arbors
  - Rust-proof molded plastic carrying case



Part #	Mfg #	Description
TOL02750	31630	8-Piece Electrician's Hole Saw Kit

## Adjustable Hole Saw

- Adjusts to cut holes from 2" to 7" diameter
- Fits 3/8" and 1/2" drill chucks



Part #	Mfg #	Description
TOL04294	53731	Adjustable Hole Saw

## Punches

### 9-Piece Knockout Set

- Cutting capacity of 10 gauge mild steel
- Cuts aluminum, fiberglass and plastic
- Splits slugs for easy removal
- Punches holes cleanly and accurately
- Includes:
  - 1" Ratcheting wrench
  - (6) Knockout punches and dies: 1/2", 3/4", 1", 1-1.4", 1-1/2" and 2" conduit sizes
  - (2) Draw studs



Part #	Mfg #	Description
TOL03274	53732	9-Piece Knockout Set



# HVAC IAQ Tools

## Indoor Air Quality Particle Counters

### 985 Indoor Air Quality Particle Counter

- Determines airborne particle concentrations
- Measure filter efficiency
- Locate particle sources for remediation
- Six channels and particle size range of 0.3 - 10um
- 10-Hour battery life
- 3.5 QVGC Color display



FLUKE

Part #	Mfg #	Description
MTR01383	FLUKE-985	IAQ Particle Counter

## Automotive Instruments

### PV350 Pressure Vacuum Module

- Compatible with all Fluke and most popular DMMs
- Digital pressure and vacuum measurements in a single module
- Measures vacuum to 76 cm Hg
- 1-Year warranty



FLUKE

Part #	Mfg #	Description
MOD0126	PV350	Pressure Vacuum Module 8

## Carbon Monoxide Detectors

### Carbon Monoxide Tester

FLUKE



Part #	Mfg #	Description
KIT07921	CO-205	Aspirator Kit Samples Up to 370°F, Use w/CO-210 or CO-220

# Test Tools

## Psychrometers

### THWD-3 Digital Sling Psychrometer

- Extended probe stem to easily access air ducts
- Dew point
- Wet bulb
- Minimum/maximum readings
- Data hold
- Capacitive sensor with protective cover



Part #	Mfg #	Description
MTR01195	THWD-3	Digital Sling Psychrometer

### THWD-10 Relative Humidity & Temperature Meter

- Highly stable  $\pm 2.5\%$  humidity measurement
- Processes humidity and temperature measurements simultaneously
- Wet/dry bulb, dew point measurement
- Relative zero function
- Maximum, minimum, and average readings
- Easy selection between K, NTC, and K-DP
- (2) Temperature sensors, internal and external
- Includes (4) batteries and K-type thermocouple



Part #	Mfg #	Temperature Range
MTR01161	THWD-10	Relative Humidity and Temperature Meter

## Temperature & Humidity Testers

### TH-1 Compact Probe Style Relative Humidity Meter

- Dual display
- Also measures wet bulb and dew point
- Selectable metric or English
- Stores minimum/maximum readings
- Data hold function



Part #	Mfg #	Temperature Range
MTR01212	TH-1	Compact Probe Style Relative Humidity Meter

### THWD-10W Wireless Temperature and Relative Humidity Meter

- Wireless 2-way transmission
- Highly stable  $\pm 2.5\%$  humidity measurement
- Wet/dry bulb, dew point measurement
- Easy selection between K, NTC, and K-DP
- Relative zero function
- Maximum, minimum, and average measurements
- (2) Temperature sensors, internal and external



Part #	Mfg #	Temperature Range
MTR01162	THWD-10W	Wireless Relative Humidity and Temperature Meter

### TH-3 Relative Humidity Temperature Meter

- Dual display
- Extended probe stem
- Minimum and maximum readings
- Data hold function
- Auto power-off feature
- Capacitive sensor with protective cover
- Includes soft carrying case



Part #	Mfg #	Temperature Range
MTR01206	TH-3	Relative Humidity Temperature Meter

## Infrared Thermometers

### IR-450 3-in-1 Pocket Infrared Thermometer

- Thermometer, laser pointer and LED flashlight
- Distance to spot ratio: 8:1
- Temperature range:  $-22^{\circ}\text{F}$  -  $932^{\circ}\text{F}$
- Holds temperature reading for 10 seconds



Part #	Mfg #	Description
MTR01391	IR-450	Pocket Infrared Thermometer

# Test Tools

## IR-608A Infrared Thermometer

- Fixed emissivity at 0.95
- Laser sighting for accurate targeting
- Distance to spot size ratio 8:1
- Accuracy to 2%



Part #	Mfg #	Measurement Range
MTR00968	IR608A	0° - 750°F

## IR-710 Infrared Thermometer

- Distance to spot ratio from 10:1 - 50:1
- Laser pointer for accurate targeting
- 8 Second auto display hold
- Adjustable emissivity for measuring a variety of materials



Part #	Mfg #	Measurement Range
MTR01380	IR-710	-59° - 2822°F

## Thermometers

### RTD-10 Dual Input Digital RTD Thermometer

- Selectable °C or °F
- Warning beeper with high/low setting
- Includes (4) batteries



Part #	Mfg #	Description
MTR01163	RTD-10	Dual Input Digital RTD Thermometer

### RTD-10W Wireless Dual Input Digital RTD Thermometer

- Wireless 2-way transmission
- Selectable °C or °F
- Data hold
- Warning beeper with high/low setting
- Resolution 0.1°C or 0.2°F



Part #	Mfg #	Description
MTR01174	RTD-10W	Wireless Dual Input Digital RTD Thermometer

### TMD-50 K-Type Thermocouple Thermometer

- 0.1% Basic accuracy
- Dual input T1, T2, T1-T2
- Large backlit display
- In-field thermocouple offset adjustment
- Selectable °C or °F
- Auto power-off feature
- Relative zero function
- Includes (1) K-type thermocouple, (4) batteries, and protective holster



Part #	Mfg #	Description
MTR01181	TMD-50	K-Type Thermocouple Thermometer

### TMD-51 K/J-Type Thermometer with Memory

- 0.1% Basic accuracy
- Dual input T1, T2, T1-T2
- Large backlit display
- In-field thermocouple offset adjustment
- Selectable °C or °F
- Auto power-off feature
- Data hold function
- Includes (2) K-type thermocouples, (4) batteries, and protective holster



Part #	Mfg #	Description
MTR01182	TMD-51	K/J-Type Thermometer with Memory



# Test Tools

## TMD-52 K/J/T/E-Type Thermometer

- Dual input T1, T2, T1-T2
- Large backlit display
- In-field thermocouple offset adjustment
- Selectable °C or °F
- Auto power-off feature
- Data hold
- Relative zero function
- Includes protective holster, (4) batteries, and (2) K-type thermocouples



Part #	Mfg #	Description
MTR01177	TMD-52	K/J/T/E-Type Thermometer

## TMD-53 K/J-Type Thermocouple Thermometer

- Dual input
- Maximum and minimum with elapsed time
- Data hold
- Selectable °C or °F
- Warning beeper with high/low setting
- Resolution 0.1 °C to 0.2 °F
- Includes (2) K-type thermocouples and (4) batteries



Part #	Mfg #	Description
MTR01175	TMD-53	K/J-Type Thermocouple Thermometer

## TMD-53W Wireless K/J-Type Thermocouple Thermometer

- Wireless 2-way transmission
- Dual input
- Maximum and minimum with elapsed time
- Selectable °C or °F
- Warning beeper with high/low setting
- Resolution 0.1 °C to 0.2 °F



Part #	Mfg #	Description
MTR01176	TMD-53W	Wireless K/J-Type Thermocouple Thermometer

## TMD-55 Digital Thermometer

- Backlit triple display
- Built-in memory with maximum 1,024 data points
- Data logging
- Thermocouple Offset Adjustment
- Relative zero function
- Warning beeper with high/low setting
- Selectable recording interval
- Real time clock with calendar



Part #	Mfg #	Description
MTR01178	TMD-55	Digital Thermometer

## TMD-55W Wireless Thermometer

- Backlit triple display
- Built-in memory
- Data logging
- Thermocouple offset adjustment
- Relative zero function
- Warning beeper with high/low setting
- Selectable recording interval
- Real time clock with calendar



Part #	Mfg #	Description
MTR01179	TMD-55W	Wireless Thermometer

## TMD-56 Multi-Logging Digital Thermometer

- Backlit triple display
- Built-in memory
- Data logging
- Thermocouple offset adjustment
- Relative zero function
- Warning beeper with high/low setting
- Selectable recording interval
- Real time clock with calendar



Part #	Mfg #	Description
MTR01180	TMD-56	Multi-Logging Digital Thermometer

## Pocket Tools

### Telescopic Inspection Mirror



Part #	Mfg #	Description
TOL02779	2002-0300	Telescopic Inspection Mirror, 4/Pk

# Test Tools

## Pocket Tools

### Replacement Mirror



Part #	Mfg #	Description
GLS00849	78106	2" x 3-1/2" Rectangular Glass

### Telescoping Flame Inspection Mirror

- Stainless steel mirror on ball joint rotates 360°
- Checks flame, serial numbers and leaks in hard-to-see places
- 28" Extension



Part #	Mfg #	Description
TOL01545	78100	3-3/4" Round
TOL01546	78101	3-3/4" x 2" Rectangular
TOL02033	78102	2" x 1-1/4" Rectangular

### Telescoping Glass Mirror

- Replaceable glass mirror
- 9-1/4" - 14-1/4" Extension



Part #	Mfg #	Description
TOL01763	78094	2-1/4" Round

### Telescoping Glass Mirror

- Replaceable glass mirror
- Pocket clip
- Insulated head
- 7" - 19" Extension



Part #	Mfg #	Description
TOL02085	78098	1-1/4" Round
TOL01547	78104	1" x 2" Oval

### Telescoping Glass Mirror

- Pocket clip
- Insulated head
- 11" - 15-1/2" Extension



Part #	Mfg #	Description
TOL01501	78103	2" x 3-1/2" Rectangular

## Side Can Taps

- Handles slip around and close to pierce the can
- Small inserts for use with lubricant cans
- Check valve on side taps help prevent back pressure into can



Part #	Mfg #	Description
TOL02559	36193	R-12 Side Can Tap

# Infrared, Visual IR, & Contact Thermometers

## Infrared Thermometers

### VT04 Visual Infrared Thermometer

- Spot thermometer with visual thermal imager
- Temperature measurement range: 14° - 482°F
- Viewing options: blending of visual and infrared from full infrared to full visual in 25% steps
- Includes:
  - VT04 Visual IR thermometer
  - Hard case
  - Micro-SD card
  - Micro-SD conversion adapter to standard
  - Li-Ion rechargeable battery
  - Micro USB charger and universal AC adapters
  - Lanyard
  - Printed quick reference guides
  - SmartView® software
  - Users manual
- HVAC Kit also includes:
  - Fluke 902 HVAC Clamp Meter
  - (2) AA alkaline batteries
  - Soft carrying case
  - TL75 test leads (1 pair)
  - 80BK Integrated DMM temperature probe
  - Fluke 902 users manual
  - Fluke 116 Digital Multimeter
  - 4 mm silicone test lead set
  - Holster
  - Installed 9V battery
  - Fluke 116 users manual



Part #	Mfg #	Description
FLK-VT04-HVAC-K	FLK-VT04-HVAC-KIT	Visual Infrared Thermometer Kit w/Clamp Meter and Digit Multimeter
FLK-VT04-BATTER	FLK-VT04-BATTE RY	Replacement Battery for VT04 Thermal Imager

### 59 MAX Infrared Thermometer

- Precise laser technology for more accurate and repeatable measurements
- Temperature range: -30°C to 350°C / -22°F to 662°F
- Large backlit display
- 8:1 distance to spot ratio
- IP40 rated for extra protection
- Displays the minimum, maximum, or average temperature, or the difference between two measurements
- Hi and Lo alarms for rapid display of measurements outside the limits
- Powered by (1) AA battery
- One year warranty



Part #	Mfg #	Description
FLK-59 MAX	FLUKE-59 Max	8:1 Distance to Spot Ratio

### 59 MAX+ Infrared Thermometer

- Precise laser technology for more accurate and repeatable measurements
- Temperature range: -30°C to 500°C / -22°F to 932°F
- Large backlit display
- 10:1 Distance to spot ratio
- IP40 Rated for extra protection
- Displays the minimum, maximum, or average temperature, or the difference between two measurements
- Hi and Lo alarms for rapid display of measurements outside the limits
- Powered by (1) AA battery
- 1-Year warranty



Part #	Mfg #	Description
FLK-59 MAX PLUS	FLUKE-59 MAX+	10:1 Distance to Spot Ratio



# Infrared, Visual IR, & Contact Thermometers

## 62 MAX+ Infrared Thermometer

- Dust and water resistant
- Tested to 6.5' drop
- Small and lightweight
- Backlight display
- Dual rotating lasers help identify area to be measured

FLUKE®



Part #	Mfg #	Description
MTR01369	FLUKE-62 MAX	Single Laser
MTR01370	FLUKE-62 MAX+	Dual Laser

## 561 HVAC Pro Infrared & Contact Thermometer

- Multipurpose thermometer for heating, ventilation, air conditioning and refrigeration inspections
- Measures:
  - IR and Contact temperature
  - Electrically energized
- Includes:
  - IR Thermometer (561)
  - K-Type thermocouple Velcro® pipe probe (80PK-11)
  - Hard carrying case
  - (2 ) AA Alkaline batteries
  - Users manual



FLUKE®

Part #	Mfg #	Description
MTR01010	FLUK-561	12:1 Distance to Spot Ratio

## 568 Two-In-One Infrared & Contact Thermometer

- Access advanced features with soft-key buttons and dot-matrix display
- Compatible with all standard miniconnector Type K thermocouples
- Adjustable emissivity feature, including built-in material table
- Captures up to 99 points of data
- 2 Levels of backlight
- Audible and visual alarms
- Minimum, maximum, average, and differential functions
- Type-K thermocouple bead probe included
- 1% Measurement accuracy
- Versatile interface with 6 language options
- Includes:
  - IR Thermometer (568)
  - Thermocouple K bead probe
  - Hard carrying case
  - (2) AA Alkaline batteries
  - Getting started guide (in 6 languages)
  - Users manual on CD (in 6 languages)
- 2-Year warranty



FLUKE®

Part #	Mfg #	Description
MTR01108	FLUKE-568	50:1 Distance to Spot Ratio





# Infrared, Visual IR, & Contact Thermometers

## 568 EX Intrinsically Safe Infrared Thermometer

- Can be used in Class I Div 1 and Div 2 or Zone 1 and 2 hazardous environments anywhere in the world
- Easily access advanced features with soft-key buttons and graphical display
- Measure -40° to 8,000°C / -40° to 1,472°F
- Conductive case for carrying safely into hazardous areas
- Distance-to-spot ratio of 50:1
- Compatible with mini-connector K-type thermocouple (KTC) probe
- Adjustable emissivity feature, including built-in material table
- Capture up to 99 points of data
- Measurement accuracy: +/-1%
- 2 Levels of backlight
- Audible and 2-color visual alarms
- Versatile interface with (5) language options
- Includes:
  - IR Thermometer (568 EX)
  - K-type thermocouple bead probe
  - Conductive IS hard carrying case
  - User's manual
- 2-Year warranty



FLUKE®

Part #	Mfg #	Description
FLK-568 EX-ETL	FLUKE568EX	50:1 Distance to Spot Ratio

## 572-2 High-Temperature Infrared Thermometer

- Distance-to-spot: 60:1
- Temperature range: -30°C to 900°C (-22°F to 1652°F)
- User selected multi-language interface
- Current temperature plus minimum, maximum, average, and differential temperature displays
- Compatible with standard mini-connector K-type thermocouples
- Infrared and thermocouple temperature on backlit display
- Audio and two-color visual high and low temperature alarm



FLUKE®

Part #	Mfg #	Description
FLUKE-572-2	FLUKE-572-2	60:1 Distance to Spot Ratio

## 574 Precision Infrared Thermometer

- Three point coaxial laser
- Distance to spot ratios:
  - 60:1 Standard focus
  - 50:1 Close focus
- Temperature range: -30°C to 900°C (-25°F to 1600°F)
- Differential/Average measurement calculations instantly computed
- 100 Temperature data logging capability
- 30 Pre-set common material emissivity values for most accurate temperature readings
- Audible and visual HI and Lo temperature alarm for instant recognition
- Thermocouple K probe input for contact temperature measurements with same unit
- Customizable log names, alarms, and emissivity values

FLUKE®

Part #	Mfg #	Description
MTR00960	FLUKE-574	60:1 Standard Focus 50:1 Close Focus

Tools



# Insulated Tools

## Insulated Pliers

### Insulated High Leverage Diagonal Cutter Pliers

- High leverage design
- Rivet is closer to the cutting edge for greater cutting power



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL04312	D228-8-INS	8-1/16"	13/16"	1-3/16"
TOL02935	D2000-28-INS	8-1/4"	13/16"	1-3/16"
TOL03749	D248-8-INS	8-1/4"	13/16"	1-3/16"
TOL02936	D2000-48-INS	8-1/4"	13/16"	1-3/16"

### Insulated Heavy-Duty Side-Cutting Long-Nose Pliers

- Induction hardened cutting knives
- Heavier design
- Extended handles
- D203-8N-INS Has skinning hole for No. 12 AWG wire



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02937	D203-8-INS	8-7/8"	2-5/16"	1"
TOL02873	D203-8N-INS	8-7/8"	2-5/16"	1"

### Insulated Pump Pliers

- Secure tongue and groove design for non-slip grip



Part #	Mfg #	Length	Max
TOL02930	D502-10-INS	10-1/4"	1-3/4"

### Insulated Standard Long-Nose Side-Cutting Pliers

- Induction hardened, long-lasting cutting knives
- Knurled jaws for sure wrapping and looping



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL03750	D203-6-INS	6-7/8"	1-15/16"	3/8"
TOL03751	D203-7-INS	7-3/8"	2-7/16"	11/16"
TOL02715	D203-7-INS	7-3/8"	2-7/16"	11/16"

### NE-Type Insulated High Leverage Side-Cutting Pliers - Connector Crimping

- Individually tested to exceed standards
- Crimping die behind hinge for superior leverage



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02872	D213-9NE-CR-INS	9-5/8"	1-19/32"	1-5/16"

### NE-Type 2000 Series Insulated High Leverage Side-Cutting Pliers

- Individually tested to exceed standards
- Provides 46% greater cutting and gripping power
- Streamlined design with sure-gripping, cross-hatched knurled jaws
- Heavy-duty cutting knives
- Cuts ACSR, screws, nails and most hardened wire



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL03748	D2000-9NE-IN S	9-5/8"	1-19/32"	1-5/16"

## Insulated Cushion Grip Nut Drivers

### Insulated Nut Driver - 3" Hollow Shank



Part #	Mfg #	Size
TOL02791	630-5/16-INS	5/16"
TOL02932	630-1/4-INS	1/4"
TOL02933	630-3/8-INS	3/8"

### Insulated Nut Driver - 6" Hollow Shank



Part #	Mfg #	Size
TOL04024	646-5/16-INS	5/16"
TOL04025	646-1/4-INS	1/4"
TOL04026	646-3/8-INS	3/8"

# Insulated Tools

## 9-Piece Cushion Grip Insulated Nut Driver Kit

- Includes:
  - 3/16", 1/4", 5/16" 11/32", 3/8", and 7/16" 3" Shaft
  - 1/2", 9/16", and 5/8" 4" Shaft
  - Heavy-duty Cordura® case: 15"W x 12-3/4" x 3-1/2"



Part #	Mfg #	Description
TOL03034	33523	9-Piece Insulated Nut Driver Assortment w/Case

## 9-Piece Cushion Grip Insulated Nut Driver Kit 6" Shafts

- 2-Layer molded construction
- Includes:
  - 3/16", 1/4", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5/8"
  - Custom Cordura® case with document pocket



Part #	Mfg #	Description
TOL03533	33524	9-Piece Insulated Cushion Grip Nut Driver Kit with Case, 6" Shafts

## Insulated Cushion Grip Screwdrivers

### Heavy-Duty Round Shank Screwdriver - Insulated Keystone Tip

- Individually tested to exceed standards
- Tips are precision ground to fit screw openings securely and resist slippage
- Cushion grip handles



Part #	Mfg #	Shank Tip	Shank Length	Overall Length
TOL02939	602-6-INS	5/16"	6"	10-15/16"

## Round Shank Screwdriver - Insulated Cabinet Tip

- Individually tested to exceed standards
- Cushion grip handles
- For electrical, telephone, and work in recessed holes and other tight spaces



Part #	Mfg #	Shank Tip	Shank Length	Overall Length
TOL03442	601-4-INS	3/16"	4"	7-3/4"
TOL03917	601-7-INS	3/16"	7"	9-3/4"
TOL03104	601-8-INS	3/16"	8"	11-3/4"
TOL02938	602-4-INS	1/4"	4"	8-5/16"
TOL03938	602-7-INS	5/16"	7"	12-3/8"
TOL03952	602-8-INS	3/8"	8"	13-3/8"

## Round Shank Screwdriver - Insulated Phillips Tip

- Individually tested to exceed standards
- Cushion grip handles
- Tips are profilated to provide a more consistent geometric symmetry than conventional Phillips tip screwdrivers



Part #	Mfg #	Tip Size	Shank Length	Overall Length
TOL02941	603-3-INS	#1	3"	6-3/4"
TOL04545	633-4-INS	#1	4"	7-3/4"
TOL02407	603-4-INS	#2	4"	8-5/16"
TOL04170	6337INS	#3	7"	12-3/8"

## Insulated Cushion Grip Screwdriver Sets

### Cushion Grip Insulated Screwdriver Kit

- Individually tested to exceed standards
- (2) Layers of insulation
- Nylon case with coil zipper closure, custom-fitted tool pockets, and extra pocket for storage
- Overall case dimensions: 11"L x 15-1/2"W x 2-1/2"H



Part #	Mfg #	Description
TOL03206	33528	Insulated Screwdriver Kit



# Insulated Tools

## 2-Piece Insulated Cushion Grip Screwdriver Set

- Includes (1) 1/4" cabinet tip (602-4-INS) and (1) #2 Phillips tip (603-4-INS)
- Reduces risk with work up to 1,000V
- 2-Layer molded insulation
- Orange outer coating is flame and impact-resistant
- White high-dielectric inner coating



Part #	Mfg #	Description
TOL03943	33532-INS	2-Piece Insulated Cushion Grip Screwdriver Set

## 2-Piece Cushion Grip Screwdriver Set- Combo Tip

- Precision machined tip
- Cushion-grip handles
- Includes:
  - (1) #1 Combo tip (7314)
  - (1) #2 Combo tip (7324)



Part #	Mfg #	Description
TOL04507	32378	2-Piece Insulated Cushion Grip Screwdriver Set

## Insulated Terminal Block Screwdrivers

- Precision machined tip provides exact fit for terminal block screws
- Tip is up to 19% stronger than competitors
- Tip provides 76% higher torque value than the required ASME B107 Standard
- Cushion-Grip handle offers greater torque comfort



## Display Set of 12 Terminal Block Screwdrivers



Part #	Mfg #	Description
TOL04140	61412	Display Set of 12 Terminal Block Screwdrivers

## Insulated Cable Cutters

### Insulated Crimping/Cutting Tool

- Individually tested to exceed standards
- Insulated crimping tool with tapered nose designed for working in confined spaces
- Crimping dies marked for insulated and non-insulated solderless terminals and connectors
- Accommodates wire from 10 to 22 AWG
- Wire cutter in nose



Part #	Mfg #	Handle Color	Length
TOL03519	1005-INS	Orange	9-3/4"

### Insulated High-Leverage Cable Cutter

- (2) Layers of insulation
- High-dielectric white inner coating
- Flame retardant, impact-resistant, bright orange outer coating
- Integral guards
- Cable-gripping shear-type jaws
- Precision one-hand shearing action



Part #	Mfg #	Handle Color	Length
TOL02929	63050-INS	Orange	9-5/8"

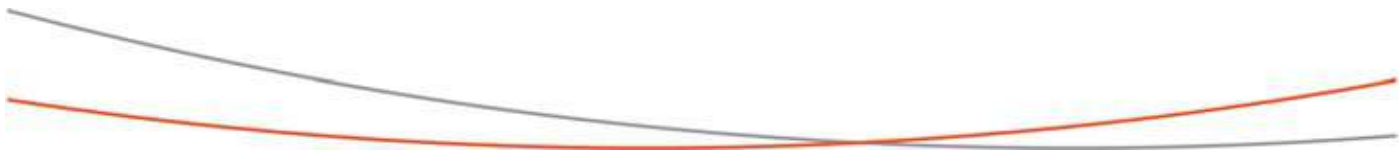
## Insulated Knives

### Insulated Cable/Lineman's Skinning Knife

- Steel hook blade, notch and ring
- 7-3/4" Overall length



Part #	Mfg #	Blade Length	Color
TOL02931	1570-3LR-INS	2-1/4"	Orange



# Insulated Tools

## Insulated Wire Stripping & Cutting Tools

### Insulated Klein-Kurve® Wire Stripper/Cutter - Solid and Stranded Wire

- Individually tested to exceed standards
- Cuts, strips, loops, and gauges both 10-18 solid and 12-20 stranded AWG wire
- Cleanly shears 6-32 and 8-32 screws
- Curved handles
- Hardened steel with precision ground stripping holes
- Serrated nose



Part #	Mfg #	Description
TOL03518	11055-INS	10-18 Solid, 12-20 Stranded AWG

### Insulated Lightweight Narrow Nose Wire Stripper/Cutter - Spring Action

- Individually dielectrically tested
- Gauges, cuts, strips, and loops wire
- Spring-loaded for self-opening
- Hardened spring steel with precision-ground stripping holes for easy removal of insulation



Part #	Mfg #	Strips & Cuts	Handle Color
TOL04544	11045-INS	10 - 18 Solid	Orange
TOL03007	11045-12	Replacement Blades	

## Insulated Tool Sets

### Basic Insulated 8-Pc Tool Kit

- Individually tested to exceed standards
- Nylon case features coil zipper closure, polypropylene handles, and custom-fitted tool pockets
- Overall case dimensions: 11"L x 15-1/2"W x 2-1/2"H



Part #	Mfg #	Description
TOL03122	33526	8-Piece Insulated Basic Tool Kit

### Insulated General-Purpose Tool Kit

- Individually tested to exceed standards
- Custom case includes (3) pallets with custom-fitted pockets for each tool, piano-hinged cover has both a combination lock and (2) key-locked latches for security, storage space behind the pallets
- (2) Layers of insulation
- Overall case dimensions: 15-3/8"L x 18-7/8"W x 8-1/4"H



Part #	Mfg #	Description
TOL03033	33527	Insulated General-Purpose Tool Kit

### Utility Insulated 13-Piece Tool Kit

- Individually tested to exceed standards
- (2) Layers of insulation provide protection against electric shock
- Custom case includes (2) pallets with custom-fitted pockets for each tool, piano-hinged case cover has both a combination lock and (2) key-locked latches for security, storage space behind the pallets
- Case's inside dimensions: 8"H x 17-3/4"W x 14-1/4"D
- Overall case dimensions: 8-1/4"H x 18-7/8"W x 15-3/8"D
- Includes:
  - Side-cutting pliers (D2000-9NE-INS)
  - Diagonal-cutting pliers (D2000-28-INS)
  - Diagonal-cutting pliers, angle head (D2000-48-INS)
  - Heavy-duty long-nose pliers, side-cutting (D203-8-INS)
  - Keystone heavy-duty round shank screwdriver, 1/4" x 4" (602-4-INS)
  - Keystone heavy-duty round shank screwdriver, 5/16" x 6" (602-6-INS)
  - Keystone heavy-duty round shank screwdriver, 3/8" x 10" (602-10-INS)
  - Phillips round shank screwdriver, No. 1 (603-3-INS)
  - Phillips round shank screwdriver, No. 2 (603-4-INS)
  - Phillips round shank screwdriver, No. 3 (603-6-INS)
  - High-leverage cable cutter (63050-INS)
  - Pump pliers (D502-10-INS)
  - Cable/lineman's skinning knife (1570-3LR-INS)



Part #	Mfg #	Description
KIT12256	33525	13-Piece Tool Kit

# Insulation, Ground Resistance & Power Quality

## Insulation Resistance Testers

- Test insulation of wires, cables, transformers and electrical motors

### AMB-2 Analog Insulation Resistance Tester

- Automatic discharge of equipment capacitance for safe removal of test leads
- Sensitive ohmmeter for checking resistance of motor windings
- Built-in voltmeter



Part #	Mfg #	Description
MTR00917	AMB-2	Analog Insulation Resistance Tester

### AMB-25 Digital Insulation Resistance Tester

- Selectable test voltages: 250V, 500V and 1,000V
- Programmable timer to perform the dielectric absorption ratio test
- Sensitive ohmmeter for checking resistance of motor windings



Part #	Mfg #	Description
MTR01390	AMB-25	Digital Insulation Resistance Tester

### AMB-3 Insulation Resistance Tester

- Battery powered
- Built-in voltmeter
- Battery OK test
- Mirror scale
- Automatic discharge of equipment capacitance



Part #	Mfg #	Description
MTR00887	AMB-3	Insulation Resistance Tester

### AMB-45 Digital Insulation Resistance Tester

- Built in voltmeter
- Programmable timer to perform dielectric absorption ratio test
- Selectable test voltages: 250V, 500V and 1000V
- Internal memory stores measurements for future reference



Part #	Mfg #	Description
MTR00916	AMB-45	Digital Insulation Resistance Tester

## AMB-50 Industrial High-Voltage Insulation Tester

- Selectable testing voltages
- Insulation resistance measurement up to 1T ohms
- User selectable programmable timer, 10 seconds to 30 minutes
- Automatic discharge of test object
- Diagnostic tools
- Polarization index
- Dielectric absorption ratio
- Comparison feature to set pass/fail thresholds
- Dual power source, receptacle or batteries
- Built-in internal memory stores (18) measurements
- Includes:
  - Power adapter
  - Software
  - USB Interface cable
  - Hard carrying case
  - Batteries
  - Complete set of test leads
  - Instruction manual
- CAT III 600V Certified



Part #	Mfg #	Description
MTR01166	AMB-50	Industrial High-Voltage Insulation Tester

## AMB-55 Industrial High-Voltage Insulation Tester

- Includes:
  - Test lead
  - Large jaw alligator clips
  - Batteries
  - Carrying case
  - Software
  - RS-232 Cable
  - USB Cable
  - User manual



Part #	Mfg #	Description
MTR01167	AMB-55	Industrial High-Voltage Insulation Tester

# Insulation, Ground Resistance & Power Quality

## AMB-110 Industrial High-Voltage Insulation Tester

- Selectable testing voltage from 500V - 10,000V with 25V increments
- Insulation resistance measurement up to 10T ohms
- Selectable programmable timer from 1 second to 99 minutes
- Automatic discharge of test object after completion of measurement
- Capacitance measurement
- Diagnostic tools
- Step voltage test



Part #	Mfg #	Description
MTR01186	AMB-110	Industrial High-Voltage Insulation Tester

## AMC-3 Hand-Cranked Insulation Tester

- Tests insulation of wires, cables, transformers, and electrical motors
- Does not require batteries or external power supply
- Sensitive ohmmeter
- Guard terminal eliminates effect of any surface leakage
- High-impact housing
- Spring-loaded terminal connection



Part #	Mfg #	Description
MTR01092	AMC-3	Hand-Cranked Insulation Tester

## DGC-1000A Clamp Ground Resistance Tester

- Accurate ground resistance measurement: 0.025 to 1500 ohms
- True-rms current measurement including leakage current
- Accurate readings regardless of power quality in less than 10 seconds
- Continuity beep if resistance is lower than 40.00 ohms
- Easy to use, no test leads or auxiliary electrodes necessary
- Data logging capability: 116 records
- Individual data point recording
- User selectable high and low ohm audible alarms
- Auto power off that can be disabled
- Large LCD display with low battery indicator



Part #	Mfg #	Description
MTR01204	DGC-1000A	Clamp Ground Resistance Tester

## Power Quality Analyzers

### DM-III Multitest F 3,000A Power Quality Recorder

- True-RMS
- Measures and records AC current, AC voltage to 600V, harmonics, frequency, active/reactive/apparent power and energy, and peak demand
- Works with single and 3-phase systems
- Compatible with a wide range of current transducers
- Detects and records voltage anomalies, sags, and surges
- Built-in scope displays waveforms
- Phase sequence indication
- Records up to 64 parameters simultaneously
- Manual and programmable recording start
- Password protection
- Selectable fundamental frequency of 50 or 60Hz
- Windows compatible PC software provides download capabilities
- Line or battery powered
- Selectable test voltages of up to 1,000V
- Programmable timer for dielectric absorption ratio test
- Sensitive ohmmeter with selectable polarization
- Automatic voltmeter protects against misuse on hazardous energized systems



Part #	Mfg #	Description
MTR01205	DM-III MULTITEST F	Power Quality Recorder



# Knives & Cutting Tools

## Cable Splicers

### Cable Splicer Kit

- Includes:
  - Cable splicer's knife
  - Electrician's scissors
  - 2-Pocket leather pouch
- Cuts cable, telephone wire, and strips insulation



Part #	Mfg #	Description
TOL03184	46037	Cable Splicer, Scissors & Pouch

## Pocket Knives

### Compact Pocket Knife - Drop Point Blade

- Compact and lightweight
- Stainless steel handle and blades
- Rosewood handle inserts on both sides
- Modified spearpoint blades lock open



Part #	Mfg #	Blade Length
TOL02734	44033	2"
TOL02735	44034	2-5/8"

## Knives

### Cable/Lineman's Skinning Knife

- Blade withstands frequent scoring and slitting of cable jacket
- Blade and ring are securely molded in handle
- Notch on blade back for scraping or removing wire insulation
- Comfortable textured handle with finger grooves and guard
- No contact between stainless steel ring and hardened steel blade
- Rectangle-shaped handle design for attachment to some utility hot stick equipment
- 8" Overall length less ring



Part #	Mfg #	Blade Length
TOL02644	1570-3	3"

### Cable Splicer's Knife

- Special purpose short blade with comfortable, full-sized, heavy-duty handle
- Coping-type blade made of the finest cutlery steel, tough and carefully tempered to hold its edge
- Handle is textured for comfort and firm grip
- Hang hole for easy storage and portability



Part #	Mfg #	Blade Length	Overall Length
TOL04454	44200	1-3/4"	6-1/4"

### Lightweight Lockback Pocket Knife - Drop-Point Blade

- Blades are AUS 8 stainless steel hardened to 58-59 Rc
- Premium quality blade offers superior edge holding
- Slim and comfortable silver anodized-aluminum handle for corrosion-resistance (44000)
- Black chrome blade and black anodized-aluminum handle for corrosion-resistance (44000-BLK)
- Impact-resistant nylon resin handle with rubber insert (44002 & 44003)
- Reversible thumb stud provides easy one-handed opening



Part #	Mfg #	Blade Length	Blade Color
TOL02495	44002	2-3/8"	Silver
TOL02752	44003	2-3/4"	Silver



# Knives & Cutting Tools

## Lightweight Lockback Pocket Knife - Drop Point Blade with Pocket/Belt Clip

- Blades are AUS 8 stainless steel hardened to 58-59 Rc
- Premium quality blade offers superior edge holding
- Slim and comfortable silver anodized-aluminum handle for corrosion-resistance (44001)
- Black chrome blade and black anodized-aluminum handle for corrosion-resistance (44001-BLK)
- Reversible thumb stud provides easy one-handed opening



Part #	Mfg #	Blade Length	Blade Color
TOL02751	44001	2-1/2"	Silver
TOL03224	44001-BLK	2-1/2"	Black

## Lightweight Lockback Pocket Knife - Tanto Blade

- Tanto blade is AUS 8 stainless steel hardened to 58-59 Rc
- Black-chrome blade and black anodized aluminum handle for corrosion resistance
- Premium quality blade offers superior edge holding
- Reversible thumb stud provides easy, one-handed opening
- Includes a pocket/belt clip



Part #	Mfg #	Blade Length	Blade Color
TOL03376	44051BLK	2-3/8"	Black
TOL03377	44052BLK	2-3/4"	Black

## Sportsman's Pocket Knife

- Curved handle with big bolster
- Brass bolster and ebony wood handle
- Stainless steel blade
- Brass lining
- Blade locks open



Part #	Mfg #	Description
TOL02852	44036	2-3/8" Drop Point Blade
TOL03547	44037	3-3/8" Drop Point Blade with Leather Snap Case & Belt Loop

## 1-Blade Money-Clip Pocket Knife

- Stainless steel with rosewood insert
- Includes:
  - Money clip
  - (1) Spearpoint blade
  - (1) Nail file



Part #	Mfg #	Blade Length	Description
TOL03718	44031	1-1/2"	Stainless Steel

## 1-Blade Pocket Knife - Sheepfoot Slitting Blade

- Extra-large curved sheepfoot slitting blade
- Ideal for heavy-duty line work
- Woodgrain plastic handle
- Blade locks open



Part #	Mfg #	Blade Length	Description
TOL03086	1550-4	2-5/8"	Carbon Steel

## 2-Blade Lockback Pocket Knife - Drop Point & Screwdriver Tip Blades

- Anodized aluminum handle
- Thumb stud
- Includes removable pocket/belt clip



Part #	Mfg #	Description
TOL03386	44008	Stainless Steel

## 2-Blade Pocket Knife - Sheepfoot & Screwdriver Tip Blades

- 2-3/8" Long curved sheepfoot slitting blade
- 2-1/2" Long screwdriver tip blade
- Screwdriver blade locks open



Part #	Mfg #	Description
TOL03247	1550-7	Carbon Steel

# Knives & Cutting Tools

## 2-Blade Pocket Knife - Spearpoint & Screwdriver Tip Blades

- Screwdriver tip blade locks open



Part #	Mfg #	Blade Length	Description
TOL03328	1550-42	2-1/2"	Stainless Steel

## 3-Blade Pocket Knife - Sheepfoot, Spearpoint & Screwdriver Tip

- Includes:
  - 2-3/8" Curved-sheepfoot skinning blade
  - 2-1/2" Standard spearpoint blade
  - 2-1/2" Screwdriver-tip blade
- Screwdriver blade locks open



Part #	Mfg #	Description
TOL02749	1550-6	Carbon Steel Blades

## Scissors

### Electrician's Scissors

- Strong, tough tempered steel
- Nickel-plated finish resists corrosion
- Scraper and file on outside of both blades
- Screw hinge



2100-5



2100-7

Part #	Mfg #	Description
TOL02637	2100-5	5-1/4" OAL
TOL02671	2100-7	5-1/4" OAL with Stripping Notches

## Free-Fall Snip Electrician's Scissors



- Stainless steel blades to maintain durability and sharpness
- Blade is fully serrated for non-slip cutting action
- Free-fall snip feature for ease of use
- Cuts electrical communication 19 AWG and 23 AWG wire
- Extended handle provides comfort and cutting leverage for wire cutting applications

Part #	Mfg #	Description
TOL03304	2100-8	6-5/16" OAL w/Free-Fall Snip & Stainless Steel Blades

## Sharpening Tools

### Combination Knife & Scissors Sharpener

- High grade, tungsten-carbide inserts sharpen both sides of the blade at the same time
- Restores knife edge in three or four strokes
- Built-in finger guard
- Lightweight, compact size
- Sharpens electrician's scissors, pocket knives, retractable blade utility knives, razor blade knives and serrated knives



Part #	Mfg #	Overall Size
TOL02823	48036	4"L x 2-1/4"W x 3/4"D

### Pocket Size Knife Sharpener

- Blade unscrews and stores in handle for carrying
- Blade is precision cut, hard chromed steel
- 3-3/4" Blade, 5-1/2" length closed



Part #	Mfg #	Description
TOL02607	44151	Magnetized w/Pocket Clip

# Knives & Cutting Tools

## Shears

### Bent Trimmer

- Nickel chrome-plated blades
- Extended handle
- Cuts felt lining, muslin, cord, rubber, abrasive materials, and multiple layers of fabric



Part #	Mfg #	Cutting Length	Overall Length
TOL03933	23011	4-3/4"	11-1/4"

### Broad Blade Utility Shear

- Nickel chrome-plated blades
- Broad, short jaws
- Extended handle
- Cuts rubber, cables, light metal, wire metal screens, cordage, plastics, and rope



Part #	Mfg #	Cutting Length	Overall Length
TOL03180	22002	2"	8-1/2"

## Utility Knives

### Auto-Loading Folding Retractable Utility Knife

- Auto-loading blade
- Triple ground blades
- Rubber grips on handle
- Heavy-duty durable construction
- Internal blade storage includes and holds (3) blades



Part #	Mfg #	Closed Length	Overall Length
TOL03907	44130	4-1/8"	4-1/2"

### Auto-Loading Retractable Utility Knife

- Auto-loading blade feature
- Triple ground blades
- Rubber handle grips
- Heavy-duty construction
- Internal blade storage
- Includes (3) blades



Part #	Mfg #	Length
TOL03908	44132	6-1/4" Closed

### Folding Utility Knife

- Push button to open and close
- Triple ground blades
- Rubber grips on handle
- Heavy-duty durable construction



Part #	Mfg #	Closed Length	Overall Length
TOL03898	44131	4-1/8"	4-1/2"

### Heavy-Duty Utility Knife - Quick Change Retractable Blade Klein-Kurve®

- Curved handle design with slip-resistant grip for comfort and ease of use
- No tools required for quick blade change
- Safety overlap handle design for heavy-duty cutting
- Retractable blade locks in (3) positions
- Includes one heavy-duty blade and stores up to (10) blades in handle
- Fits most standard utility blades
- Blades made in the USA



Part #	Mfg #	Description
TOL02610	44107	Knife, Holster & Blade

### Klein-Kurve® Retractable Utility Knife

- Triple ground blades
- Rubber handle grips
- Heavy-duty construction
- Internal blade storage
- Includes (6) blades



Part #	Mfg #	Length
TOL03909	44133	6-7/8" Closed

### Retractable Blade Utility Knife

- Heavy-duty razor edged blade
- (3) Cutting positions
- Lightweight
- Aluminum handle with (3) blades



Part #	Mfg #	Length
TOL02395	44100	6" Closed

# Knives & Cutting Tools

## Utility Blades

- Heavy-duty razor edged reversible



Part #	Mfg #	Description
BLD01046	44101	(5) Utility Knife Blades

## Utility Knife Blade Dispenser

- Includes (50) blades
- Triple ground blades
- Gauge on dispenser indicates number of blades remaining
- Interim storage for used blades
- Blades are compatible with most standard utility knives



Part #	Mfg #	Description
TOL03910	44103	(50) Utility Knife Blades in Dispenser with Gauge



# Laser Distance Meters

## HVAC Guide® System Analyzers

### Laser Distance Meter

- Instant measurement with one-button operation
- Quick calculation of area and volume
- Easy addition and subtraction of measurements
- Designed for indoor and outdoor use
- Includes:
  - (2) AAA Alkaline batteries
  - Carrying pouch
- 2-Year warranty

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Part #	Mfg #	Description
MTR01389	FLUKE-414D	Measures to 165' with .08" Accuracy
MTR01394	FLUKE-419D	Measures to 260' with .04" Accuracy
MTR01395	FLUKE-424D	Measures to 330' with .04" Accuracy



# Levels & Measuring Tools

## Levels

### Accu-Bend™ Level

- Ensures precise 90° bends
- Eliminates dog legs in conduit bends
- (3) Points of contact for hold to conduit
- Relaxed V-groove accepts up to 1" conduit
- Solid aluminum frame
- Rare Earth magnets



Part #	Mfg #	Description
TOL04142	9317RE	6" Accu-Bend™ Level

### Aluminum Level

- Lightweight, precision made
- Acrylic plastic yellow vials



Part #	Mfg #	Description
TOL02429	930-9	9" Level, Plumb & 45°

### Electrician's Level

- Large, high visibility vials
- Unique 3-point design holds securely to pipe
- Rare Earth magnets hold level to ferrous metals
- Machined billet aluminum



931-6RESEN

Part #	Mfg #	Description
TOL04524	931-6RESEN	6" Electrician's Level
TOL03375	931-6RE	6" Electrician's Level

### Heavy-Duty Level with Magnet

- Allows hands-free measurements on iron or steel surfaces
- Features Rare Earth magnets and vial frames with E-Z-See™ glow-in-the-dark-material



Part #	Mfg #	Description
TOL02551	931-9RE	9" Level, Plumb & 45°

### Torpedo Level

- Large, high visibility vials are easy-to-read
- Rare Earth magnet
- Vials set for measurements at 0°, 30°, 45°, and 90°
- Machined billet aluminum design
- High contrast laser etched markings



Part #	Mfg #	Description
TOL03317	932-9RE	9" Level, Plumb, 30°, & 45°

### Torpedo Lighted Level

- Rare Earth magnet
- Lights up
- Auto shut-off after 10 minutes
- Includes 2 AAA batteries
- Vials set for measurements at 0°, 45°, and 90°
- Water and impact resistant
- Machined billet aluminum design



Part #	Mfg #	Description
TOL03842	9330RE	9" Level, Plumb & 45°

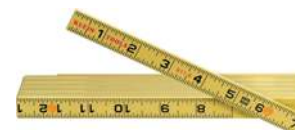
## Folding Rules

### Fiberglass Folding Rule

- Constructed of tough nylon, reinforced with glass fibers for added durability, and resistance to weather, abrasion and most chemicals
- Positive locking joints and stainless steel spring hinges for added strength
- Measurements are marked on both sides and both edges, graduated to 1/16"
- Black markings on yellow, with red stud center markings every 16"
- Engraved graduations on both sides



910-6



911-6

Part #	Mfg #	Reading	Length
TOL02549	910-6	Inside	6'

# Levels & Measuring Tools

## Wood Folding Rule

- Strong, 6' long hardwood rules with clear abrasion resistant coating
- Black markings on yellow, with red stud center markings every 16"
- Measurements are marked on both sides and both edges, graduated to 1/16"
- Riveted lock joints are designed for long wear and maintained accuracy
- Engraved graduations on both sides
- Extension slide moves under friction in a T-slot which has stops at each end to prevent it from falling out



900-6



901-6



905-6



Part #	Mfg #	Reading	Length
TOL02828	900-6	Inside	6'
TOL02829	901-6	Outside	6'
TOL02830	905-6	Outside	6' with Extension

## Steel Measuring Tape

### Magnetic Double End-Hook Tape

- Nylon-coated hardened steel blade
- True zero feature for accurate inside and outside measuring
- Rare earth magnetic double end hook
- First 11" (279mm) has oversized, bold numbers
- Easy-read fractional scale
- Double-sided rule for measurement while using against wall, ceiling or conduit
- Horizontal and vertical standout for easy one person measurements



Part #	Mfg #	Description
TOL03763	93225	25' With Magnetic Tip

## Magnetic Tape Measure

- Nylon-coated hardened steel blade resists abrasion and wear for long life
- Built-in shock absorber to protect blade tip
- True zero feature for accurate inside and outside measuring
- Durable steel belt clip for convenience
- Multi-riveted end hook with bottom blade protector reinforces the blade tip and provides maximum pull out strength
- Rare earth magnetic single end hook
- First 11" has oversized, bold numbers
- Easy read fractional scale
- Double sided rule for measurement while using against wall, ceiling or conduit
- Horizontal and vertical standout for easy one person measurements
- Shock and impact resistant case



93116



93125



93225



93430



Part #	Mfg #	Length	Hook
TOL03706	93116	16'	Single
TOL03758	93125	25'	Single
TOL02861	93225	25'	Double
TOL03776	93430	30'	Double

## Nylon Coated Tape Measure



Part #	Mfg #	Length	Hook
TOL03772	93025	25'	Single



# Levels & Measuring Tools

## High-Visibility Power-Return Tape

- Same as No. 922 Series, but with high visibility case
- High visibility, high impact orange case makes it easy to find in a tool box, pouch, and on the job site
- 16" & 19.2" Stud center marks
- Tape measure holders available



Part #	Mfg #	Length	Width
TOL02670	928-25HV	25'	1"

## Power Measuring Tapes

- Rust resistant yellow lacquered blade
- Belt clip and finger-tip blade lock



Part #	Mfg #	Size	Color
TOL01622	540-25G	1" x 25'	Neon Green
TOL01621	540-25R	1" x 25'	Neon Orange





# Meters

## Fluke® FlukeConnect™ Wireless System

### 3000 FC Wireless Digital Multimeter

- Displays meter measurement and readings from up to 3 wireless modules up to 20 meters away
- True-RMS wireless multimeter
- AC/DC Voltage measurements to 100V
- AC/DC Current with 0.01 mA resolution
- Continuity, resistance, diode test, capacitance and frequency measurements
- Minimum/Maximum Recording
- Includes:
  - Test leads (TL175)
  - Alligator clips (AC175)
- CAT III 1000V, Cat IV 600V; IP54



FLUKE®

Part #	Mfg #	Description
MTR01467	FLK-3000FC	10,000 Count Digital Display

### a3000 FC Wireless AC Current Clamp Module

- Wirelessly relays measurements to FlukeConnect™ enabled master units:
  - 3000 FC DMM
  - Ti200/300/400 Infrared camera
  - PC via optional pc3000 FC adapter
  - Fluke Connect mobile app
- True-RMS AC clamp meter
- Measure up to 400A AC
- Use standalone or as part of the system
- Logging function for recording and saving up to 65,000 readings
- Inrush function



FLUKE®

Part #	Mfg #	Description
MTR01471	FLK-A3000FC	Wireless AC Current Clamp Module

### a3001 FC Wireless iFlex® AC Current Module

- Wirelessly relays measurements to FlukeConnect™ enabled master units:
  - 3000 FC DMM
  - Ti200/300/400 Infrared camera
  - PC via optional pc3000 FC adapter
  - Fluke Connect mobile app
- True-RMS AC clamp meter
- Measure up to 2,500A AC
- Use standalone or as part of the system
- Logging function for recording and saving up to 65,000 readings
- Inrush function



FLUKE®

Part #	Mfg #	Description
MTR01473	FLK-A3001FC	Wireless AC Current Clamp Module

### a3002 FC Wireless AC/DC Current Module

- Wirelessly relays measurements to FlukeConnect™ enabled master units:
  - 3000 FC DMM
  - Ti200/300/400 Infrared camera
  - PC via optional pc3000 FC adapter
  - Fluke Connect mobile app
- True-RMS AC clamp meter
- Measure up to 400A AC/DC with i410 (sold separately)
- Measure up to 600A AC or 1,000A DC with i1010 (sold separately)
- Use standalone or as part of the system
- Logging function for recording and saving up to 65,000 readings



FLUKE®

Part #	Mfg #	Description
MTR01480	FLK-A3002FC	Wireless AC/DC Current Module



# Meters

## v3000 FC Wireless AC Voltage Module

- Wirelessly relays measurements to other Fluke Connect™ enabled master units:

- Fluke 3000 FC DMM
- Fluke Ti200/300/400 Infrared camera
- PC via optional pc3000 FC adapter
- Fluke Connect mobile app

- Use standalone or as part of the system
- Logging function for recording and saving up to 65,000 readings
- Measure up to 1,000V True-RMS AC
- 6,000 Count LCD display with backlight



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## v3000 FC Wireless AC Voltage Kit

- Includes:
  - 3000 FC Wireless multimeter
  - v3000 FC AC Voltage module
  - Test leads (TL175)
  - Alligator clips (AC175)
  - Alligator clips (AC285)
  - Magnetic hanging strap



FLUKE

Part #	Mfg #	Description
MTR01479	FLK-V3000FC/KIT	FlukeConnect™ Wireless Voltage Module w/Multimeter Kit

Part #	Mfg #	Description
MTR01478	FLK-V3000FC	FlukeConnect™ Wireless Voltage Module

## v3001 FC Wireless DC Voltage Module

- Wirelessly relays measurements to other Fluke Connect™ enabled master units:

- Fluke 3000 FC DMM
- Fluke Ti200/300/400 Infrared camera
- PC via optional pc3000 FC adapter
- Fluke Connect mobile app

- Use standalone or as part of the system
- Logging function for recording and saving up to 65,000 readings
- Measure up to 1,000V DC
- 6,000 Count LCD display with backlight



FLUKE

## v3001 FC Wireless DC Voltage Kit

- Includes:
  - 3000 FC Wireless multimeter
  - v3001 FC DC Voltage module
  - Test leads (TL175)
  - Test leads (TL222)
  - Alligator clips (AC175)
  - Alligator clips (AC220)
  - Magnetic hanging strap



FLUKE

Part #	Mfg #	Description
MTR01481	FLK-V3001FC/KIT	FlukeConnect™ Wireless Voltage Module w/Multimeter Kit

Part #	Mfg #	Description
MTR01482	FLK-3001FC	FlukeConnect™ Wireless Voltage Module

## v3003 FC Wireless AC/DC Voltage Measurement Kit

- Includes:
  - Fluke 3000 FC Series Wireless Multimeter
  - Fluke v3000 AC Voltage Module
  - Fluke v3001 DC Voltage Module
  - Test leads (TL175)
  - Test leads (TL224)
  - Test leads (TL222)
  - Alligator clips (AC175)
  - Alligator clips (AC285)
  - Alligator clips (AC220)
  - Magnetic hanging straps



FLUKE

Part #	Mfg #	Description
MTR01483	FLK-V3003FC/KIT	FlukeConnect™ Wireless Voltage Module w/Multimeter Kit

# Meters

## a3000 FC Wireless iFlex® AC Current Clamp Kit

- Includes:
  - 3000 FC Wireless multimeter
  - a3000 FC Wireless iFlex AC Current
  - Test leads (TL175)
  - Alligator clips (AC175)



FLUKE

Part #	Mfg #	Description
MTR01472	FLK-A3000FC/KIT	Wireless iFlex AC Current Clamp Kit

## a3001 FC Wireless iFlex® AC Current Clamp Kit

- Includes:
  - 3000 FC Wireless multimeter
  - a3001 FC Wireless iFlex AC Current
  - Test leads (TL175)
  - Alligator clips (AC175)
  - iFlex i2500-10 Flexible current probe

FLUKE

Part #	Mfg #	Description
MTR01474	FLK-A3001FC/KIT	Wireless iFlex AC Current Clamp Kit

## t3000 FC Wireless Temperature Module

- Wirelessly relays measurements to other Fluke Connect™ enabled master units:
  - Fluke 3000 FC DMM
  - Fluke Ti200/300/400 Infrared camera
  - PC via optional pc3000 FC adapter
  - Fluke Connect mobile app
- Use standalone or as part of the system
- Logging function for recording and saving up to 65,000 readings
- Temperature range: -200° to 1372°C
- K-Type Mini input terminal



FLUKE

Part #	Mfg #	Description
MTR01476	FLK-T3000FC	FlukeConnect™ Wireless Temperature Module

## 789 FC ProcessMeter™ & Temperature Kit

- Includes:
  - 789 ProcessMeter™
  - t3000 FC Wireless k-Type temperature module
  - ir3000 FC connector
  - Premium test lead set (TL71)
  - Alligator clips (AC72)
  - (4) AA alkaline batteries (installed)
  - Users manual
  - Quick reference guide



FLUKE

Part #	Mfg #	Description
MTR01464	FLK-789FC/T3000	FlukeConnect™ ProcessMeter™ and Temperature Kit

## T3000 FC Wireless Temperature Kit

- Includes:
  - 3000 FC Wireless multimeter
  - t3000 K-Type thermocouple thermometer
  - Test leads (TL175)
  - Alligator clips (AC175)
  - Magnetic hanging strap



FLUKE

Part #	Mfg #	Description
MTR01477	FLK-T3000FC/KIT	FlukeConnect™ Wireless Thermometer w/Multimeter Kit

## T1105 a3001 FC iFlex® Kit

- Includes:
  - 105 Infrared camera
  - 3000FC Wireless digital multimeter with (3) AA batteries installed
  - a3001FC Module with (2) AA Batteries installed
  - iFlex® 10" Coil
  - Magnet/strap
  - Test leads (TL175)
  - Alligator clips (AC175)
  - USB Cable
  - SD Memory card
  - FlukeConnect™ WiFi SD card
  - SmartView® software
  - Hand carrying case
  - 3-Compartment soft case (C3003)
  - Soft transport bag
  - Printed users manual
  - Information pack
  - Warranty registration card



FLUKE

Part #	Mfg #	Description
MTR01461	FLK-T1105 30HZ/FCA	30 Hz Infrared Camera w/Wireless Digital Multimeter Combo

# Meters

## Ti125 30Hz/FCB FlukeConnect® Kit

- Includes:
  - Ti125 infrared camera
  - (3) a3001FC iFlex current clamp modules
  - 805 Vibration meter
  - USB cable
  - SD memory card
  - Multi-format USB memory card reader
  - Adjustable hand strap
  - SmartView® software
  - Lithium ion smart battery
  - Two-bay charging base
  - AC power adapter
  - Hard carrying case
  - Soft transport bag
  - Users manual
  - Warranty registration card

FLUKE®

Part #	Mfg #	Description
MTR01462	FLK-TI125 30HZ/FCB	30 Hz Infrared Camera w/AC Clamps and Vibration Tester

## 3000 FC Industrial System

- Includes:
  - 3000 FC Wireless multimeter
  - a3001 FC Wireless iFlex AC current module
  - v3000 Voltage module
  - Test leads (TL224)
  - Test leads (TL175)
  - Alligator clips (AC285)
  - Alligator clips (AC175)
  - (3) iFlex i2500-10 Flexible current probes
  - Magnetic hanging strap



FLUKE®

Part #	Mfg #	Description
MTR01459	FLK-TI200 60HZ/FCA	60 Hz Infrared Camera w/Wireless Digital Multimeter Combo

## Ti300 a3001 FCA iFlex® Kit

- Includes:
  - Ti300 Infrared camera
  - AC Power supply and battery pack charger
  - Micro SD memory card
  - USB Cable
  - HDMI Video cable
  - SmartView® software via free download
  - Rugged, hard carrying case
  - Soft transport bag
  - Adjustable handstrap
  - Fluke 3000FC wireless digital multimeter with (3) AA batteries (installed)
  - a3001FC iFlex AC Current module
  - iFlex 10" Coil
  - Magnet/strap
  - Test leads (TL175)
  - Alligator clips (AC175)
  - 3-Compartment soft case (C3003)
  - Information pack
  - Warranty registration card



FLUKE®

Part #	Mfg #	Description
MTR01458	FLK-TI300 60HZ/FCA	60 Hz Infrared Camera w/Wireless Digital Multimeter Combo

## Ti400 a3001 FCA iFlex® Kit

- Includes:
  - Ti400 Infrared camera
  - AC Power supply and battery pack charger
  - Micro SD memory card
  - USB Cable
  - HDMI Video cable
  - SmartView® software via free download
  - Rugged, hard carrying case
  - Soft transport bag
  - Adjustable handstrap
  - Fluke 3000FC wireless digital multimeter with (3) AA batteries (installed)
  - a3001FC iFlex AC current module
  - iFlex 10" Coil
  - Magnet/strap
  - Test leads (TL175)
  - Alligator clips (AC175)
  - 3-Compartment soft case (C3003)
  - Information pack
  - Warranty registration card

FLUKE®

Part #	Mfg #	Description
MTR01457	FLK-TI400 60HZ/FCA	60 Hz Infrared Camera w/Wireless Digital Multimeter Combo

# Meters

## Ti400 60Hz FCC Fluke Connect Kit



- Includes:
  - Ti400 60Hz Infrared camera
  - (3) a3001FC iFlex AC Current Modules
  - 805 Vibration tester
  - WiFi SD Card
  - Additional accessories



Part #	Mfg #	Description
MTR01460	FLK-TI400 60HZ/FCC	60 Hz Infrared Camera w/AC Clamps and Vibration Tester

## 3000 FC General Maintenance System

- Includes:
  - 3000 FC Wireless multimeter
  - v3000 Voltage module
  - v3001 Voltage module
  - a3001 FC wireless iFlex current module
  - Test leads (TL224)
  - Test leads (TL222)
  - Test leads (TL175)
  - Alligator clips (AC285)
  - Alligator clips (AC220)
  - Alligator clips (AC175)
  - iFlex i2500-10 Flexible current probe
  - Magnetic hanging strap



Part #	Mfg #	Description
MTR01468	FLK-3000FC/GM	FlukeConnect™ Wireless Multimeter General Maintenance System

## 3000 FC HVAC System

- Includes:
  - 3000 FC Wireless multimeter
  - a3000 FC Wireless AC current clamp module
  - t3000 Thermocouple thermometer
  - Test leads (TL175)
  - Alligator clips (AC175)
  - 80PK-1 K-Type bead thermocouple
  - Magnetic hanging strap



Part #	Mfg #	Description
MTR01469	FLK-3000FC/HVA C	FlukeConnect™ Wireless Multimeter HVAC System

## 3000 FC Industrial System

- Includes:
  - 3000 FC Wireless multimeter
  - a3001 FC Wireless iFlex AC current module
  - v3000 Voltage module
  - Test leads (TL224)
  - Test leads (TL175)
  - Alligator clips (AC285)
  - Alligator clips (AC175)
  - (3) iFlex i2500-10 Flexible current probes
  - Magnetic hanging strap



Part #	Mfg #	Description
MTR01470	FLK-3000FC/IND	FlukeConnect™ Wireless Multimeter Industrial System

## FlukeConnect™ Accessories



Part #	Mfg #	Description
MTR01463	FC-SD	FlukeConnect™ Wireless SD Card
MTR01475	FLK-PC3000/FC	FlukeConnect™
MTR01484	FLUKE-IR3000FC	FlukeConnect™ Infrared Smart Phone Connector f/Fluke 189/289/789
MTR01485	FLUKE-IR3000FC 1550	FlukeConnect™ Infrared Smart Phone Connector f/Fluke 1550/1555

# Meters

## Calibrators

### 726 Precision Multifunction Process Calibrator

- 24V Loop power supply
- (2) Separate input channels
- Measure volts, mA, RTDs, thermocouples, frequency, and resistance to test sensors and transmitters
- Store frequently used test setups for later use
- HART mode inserts 250 ohm resistor in mA measure and source for compatibility with HART instrumentation
- New voltage input protection design for improved reliability
- Includes:
  - (1) Set of AC72 alligator clips
  - (1) Set of stackable test leads
  - (1) Set of TL75 test leads
  - User manuals
  - NIST-traceable calibration report and data
- 3-Year warranty



Part #	Mfg #	Description
MTR01498	726	24V 22mA Multifunction Process Calibrator

## Electrical Test Meters

### 1550 Series Insulation Resistance Tester Kit

- Test voltages up to 5 kV provides solutions for all applications
- Voltage breakdown detection alerts
- Gives voltage reading up to 600 V AC or DC for increased safety
- Selectable test voltages in 50 V steps from 250 to 1000 V, and 100 V steps above 1000 V
- Measurements can be stored in up to 99 memory locations
- Long battery life gives over 750 tests between charges
- Automatic calculation of Dielectric Absorption (DAR) and Polarization Index (PI) with no additional setup
- Guard system eliminates the effect of surface leakage current on high-resistance measurements
- Large digital/analog LCD for easy viewing
- Capacitance and leakage current measurement
- Ramp function for breakdown testing
- Resistance measurements up to 2Tohms
- Timer settings up to 99 minutes for timed tests
- CAT III 1,000V, CAT IV 600V Safety rating
- 3-Year warranty



Part #	Mfg #	Description
MTR01486	FLUKE-1550C/KIT	5 kV Insulation Tester Kit
MTR01487	FLUKE-1555/KIT	10 kV Insulation Tester Kit



# Meters

## Vibration Meters

### 805 Vibration Meters

- Can read a wide range of frequencies, 10 to 1,000Hz and 4,000Hz to 20,000Hz
- Minimizes measurement variations caused by device angle or contact pressure
- Exportable data via USB
- Flashlight for viewing measurement locations
- Trending in Microsoft Excel® using built-in templates
- Includes:
  - USB Cable
  - Storage case
  - Belt holster
  - Quick reference guide
  - CD-Rom including MS Excel template and documentation
  - (2) AA Alkaline batteries
- Suffix FC includes FlukeConnect® App



FLUKE

Part #	Mfg #	Description
MTR01465	FLUKE-805 FC	Vibration Meter w/FlukeConnect™ App

### 810 Vibration Meter

- Report on machine faults the first time measurements are taken, without prior measurement history
- Includes:
  - Tri-axial accelerometer
  - Magnet mount
  - Mounting pad kit with adhesive
  - Accelerometer quick disconnect cable
  - Laser tachometer
  - Storage pouch
  - Mini USB cable
  - Viewer PC software
  - Users Manual CD-ROM
- Suffix FC includes FlukeConnect® App



FLUKE

Part #	Mfg #	Description
MTR01329	FLUKE-810	Handheld Vibration Tester
MTR01466	FLUKE-810FC	Vibration Meter w/FlukeConnect™ App



# Mining & Heavy Industry Tools

## Ripping Bars

### Round Crowbar

- High-tensile carbon manganese steel
- Ground and sharpened diamond point end
- Long, tapered blade
- Heat-treated ends
- Round bar profile
- Anti-corrosive primer with enamel finish



Part #	Mfg #	Overall Length
TOL04064	5CBR180022	71"

## Wedges

### Stainless Steel Fox Wedge

- Forged stainless steel
- Ground blade with fine edge
- Heat-treated



Part #	Mfg #	Thickness	Overall Length
TOL04123	7FWSS10025	1"	4"

### Steel Fox Wedge

- Forged and ground blade with fine edge
- Heat-treated



Part #	Mfg #	Thickness	Overall Length
TOL04122	7FW27050	1"	11"





# Multimeters

## Digital Multimeters

### AM-140-A True-RMS Precision Digital Multimeter with PC Connection

- Measures AC/DC voltage up to 1,000V, AC/DC current, frequency, capacitance, and duty cycle
- Optical isolated PC interface capability
- Crest, maximum, and minimum recording
- Auto and manual ranging
- Intelligent auto power-off feature
- Data hold
- Relative zero mode
- Audible and visual warning against improper plug-in
- DC loop current 4-20mA
- dBm Reading with (20) selectable impedance values
- Large backlit LCD display
- High speed analog bar graph
- Diode test
- Audible continuity



Part #	Mfg #	Description
MTR01165	AM-140-A	True-RMS Precision Digital Multimeter with PC Connection

### AM-160-A True-RMS Precision Multimeter with Temperature

- Precision accuracy to 0.02%
- Measures AC/DC voltage up to 1,000V, resistance, AC/DC current, frequency, capacitance, and duty cycle
- Dual temperature
- Optical isolated PC interface capability
- Crest, maximum, and minimum recording
- Auto and manual ranging
- Intelligent auto power-off feature
- Data hold
- Relative zero mode
- Audible and visual warning against improper plug-in
- DC loop current 4-20mA
- dBm Reading with (20) selectable impedance values
- Large backlit LCD display
- High speed analog bar graph
- Diode test
- Audible continuity



Part #	Mfg #	Description
MTR01172	AM-160-A	True-RMS Precision Multimeter with Temperature

### AM-250 Industrial True-RMS Digital Multimeter

- Measures AC/DC voltage up to 1,000V, current, resistance, frequency, capacitance, and temperature
- Audible continuity
- Diode test
- Auto and manual ranging
- Relative zero mode
- Data hold
- Peak hold, 30ms response time
- Large backlit LCD display
- Beep-jack audible warning against improper connection
- Auto power-off feature



Part #	Mfg #	Description
MTR01158	AM-250	Industrial True-RMS Digital Multimeter



# Multimeters

## AM-270 True-RMS Industrial Multimeter with Temperature

- Measures AC/DC voltage up to 1,000V, current, resistance, frequency, capacitance, and temperature
- Auto and manual ranging
- Auto power-off feature
- Data hold
- Large backlit LCD display
- Audible continuity
- Diode test



Part #	Mfg #	Description
MTR01159	AM-270	Industrial True-RMS Multimeter with Temperature

## AM-500 DIY-PRO Digital Multimeter

- Measures voltage to 600V AC/DC, current, and resistance for residential and office maintenance
- Audible continuity quickly identifies shorts and open circuits
- Diode test to verify diode polarity
- Data hold feature freezes reading on display for further analysis
- Auto power-off function
- Low battery warning
- CAT III 600V Safety rated



Part #	Mfg #	Description
AM-500	AM-500	Digital Multimeter

## AM-510 Commercial/Residential Multimeter

- Measures AC/DC voltage up to 600V, AC/DC current, resistance, frequency, capacitance, duty cycle, and temperature
- Non-contact voltage detection
- Audible continuity quickly identifies shorts and opens
- Diode test to verify diode polarity
- Data hold freezes reading on display for further analysis
- Minimum & maximum recording
- Relative zero mode
- Auto power-off feature
- Low battery warning
- Built-in flashlight
- Velcro hanging strap
- Backlit LCD display
- CAT III 600V Safety rated



Part #	Mfg #	Description
AM-510	AM-510	Commercial/Residential Multimeter

## AM-520 HVAC Multimeter

- Measures voltage up to 750VAC and 1000VDC, AC/DC current, resistance, frequency capacitance and temperature
- Built-in flashlight and test leads storage
- Data hold
- Diode test
- Audible continuity
- VoITech Plus™ Non-contact voltage detection



Part #	Mfg #	Description
MTR01381	AM-520	HVAC Multimeter



# Multimeters

## AM-530 True-RMS Electrical Contractor Multimeter

- Measures AC/DC voltage up to 600V, AC/DC current, resistance, frequency, capacitance, and temperature
- Non-contact voltage detection
- Audible continuity quickly identifies shorts and opens
- Diode test to verify diode polarity
- Data hold freezes reading on display for further analysis
- Minimum and maximum recording
- Relative zero mode
- Auto power-off feature
- Low battery warning
- Built-in flashlight
- Velcro hanging strap
- Auto and manual ranging
- Backlit LCD display
- CAT III 600V Safety rated



Part #	Mfg #	Description
AM-530	AM-530	True-RMS Electrical Contractor Multimeter

## AM-560 Advanced HVAC Multimeter

- Measures AC/DC voltage up to 1,000V, AC/DC current, resistance, frequency, capacitance, temperature, and duty cycle
- Dual thermocouple
- Low pass filter
- Non-contact voltage detection
- Audible continuity
- Diode test to verify diode polarity
- Data hold freezes reading on display for further analysis
- Peak hold captures and holds peak value of voltage or current surges
- Minimum and maximum recording
- Relative zero mode
- CAT IV 600V/CAT III 1000V Safety rated



Part #	Mfg #	Description
AM-560	AM-560	Advanced HVAC Multimeter

## AM-570 Industrial Multimeter

- True-RMS technology
- Measures AC/DC voltage up to 1,000V, AC/DC current, resistance, frequency, capacitance, temperature, and duty cycle
- Low Z mode detects stray voltages
- Low pass filter
- Peak hold captures and holds the peak value of a voltage or current surge
- Non-contact voltage detection
- Audible continuity
- Diode test to verify diode polarity
- Data hold freezes reading on display for further analysis
- Minimum and maximum recording
- Relative zero mode
- Warning alerts against improper test leads connection
- Auto power-off feature
- Low battery warning
- Built-in flashlight
- Velcro hanging strap
- Auto and manual ranging
- Dual reading backlit LCD display
- CAT IV 600V/CAT III 1000V Safety rated



Part #	Mfg #	Description
AM-570	AM-570	Industrial Multimeter

## DM73C Pen Probe Digital Multimeter

- Built-in test probe
- 600VAC/DC Range
- Resistance to 34 ohms
- Continuity beeper
- 3,400 Count digital display plus analog bargraph
- Auto power-off feature
- Includes:
  - Alligator clip
  - Ground test lead
  - Spare probe tip
  - Installed batteries



Part #	Mfg #	Description
DM73C	DM73C	Pen Probe Digital Multimeter with Built-In Test Probe



# Multimeters

## HD110C IP67 Heavy-Duty Multimeter

- Measures 1500 VDC
- Constructed with drop-resistant housing and PCB mounting
- Magne-Grip™ holster with magnetic hanging strap
- Includes high voltage test leads with threaded alligator clips
- 3-1/2 Digit LCD display, 1999 counts, with annunciators
- Automatic polarity indication
- Low battery indication
- Standard 9 V battery, NEDA 1604, JIS 006P, IEC 6F2
- Flame retardant, high-impact thermoplastic case
- CAT IV 1000 V
- IP67 Rated



Part #	Mfg #	Description
MTR01208	HD110C	Heavy-Duty IP67 Multimeter

## PM55A Pocket Multimeter with VoITech™ Non-Contact Voltage Detection

- Measures AC/DC current, capacitance, frequency, continuity with beeper
- VoITech™ non-contact voltage detector
- AutoTect™ feature directs the meter to know if it is measuring AC or DC volts or resistance with no user interface



Part #	Mfg #	Description
MTR01215	PM55A	600VAC

## 5XP-A Compact Digital Multimeter with VoITect™

- 27 Ranges/10 functions
- Battery load test with 1.5 and 9V capabilities
- Minimum/Maximum record minimum and maximum values
- Triple safety rating
- VoITect™ non-contact voltage (NVC) detection



Part #	Mfg #	Description
MTR01447	5XP-A	Uses DL248D Test Leads

## 15XP-B Digital Multimeter VoITect™ Non-Contact Voltage Detection

- Autoranging display
- TTL Logic test for digital circuits
- Integrated tilt stand
- Diode test
- Data hold function
- 600VAC/DC Rating
- 2,000 ohms Measurement range



Part #	Mfg #	Description
MTR01209	15XP-B	Digital Multimeter with Non-Contact Voltage Detection

## 33XR-A Digital Multimeter with Temperature

- Minimum/maximum, relative, peak, and data hold functions
- Auto power-off feature
- 3-3/4" Digit LCD display
- Analog bar graph
- Overrange indication
- Input warning tone when test leads are in wrong jack
- Includes Magne-Grip™ holster with magnetic hanging strap



Part #	Mfg #	Description
MTR01214	33XR-A	Digital Multimeter with Temperature

## 35XP-A Digital Multimeter with Temperature

- 600VAC/DC Voltage rating
- Capacitance for motor run/start test
- Frequency to 1 MHz
- Resistance to 40 ohms
- Data hold function
- VoITect™ non-contact voltage detector
- Low battery indicator
- Includes Magne-Grip™ holster



Part #	Mfg #	Description
MTR01199	35XP-A	Digital Multimeter with Temperature

# Multimeters

## 37XR-A True RMS Digital Multimeter

- Backlight, true RMS with component and logic test
- Inductance to 40H, frequency to 40MHz, capacitance to 400uf, logic to 20MHz
- 10A AC/DC, fully safety fused
- Continuity beeper
- Minimum and maximum average relative, peak, and data hold
- Operating temperature: 0°C - 45°C at < 70% RH



Part #	Mfg #	Description
MTR01407	37XR-A	Digital Multimeter with Component Logic Test

## 38XR-A True-RMS Digital Multimeter with Temperature

- True-RMS with optical PC interface
- Bright blue backlight
- 10A AC/DC, fully safety fused
- Continuity beeper
- Data hold
- Auto power-off feature
- Input lead warning
- Includes Magne-Grip™ holster with magnetic hanging strap



Part #	Mfg #	Description
MTR01197	38XR-A	True-RMS Digital Multimeter with Temperature



# Multi-Tools

## Quarrow® Multi-Tools

### Turtle8™ Pocket Tool

- Folding design features 8 tools in 1 compact design
- Includes:
  - Pliers
  - Wire cutters
  - Wire stripper
  - File
  - Knife
  - Phillips screwdriver
  - Flat-head screwdriver
  - Carabiner



**NEBO**  
TOOLS

Part #	Mfg #	Description
TOL04272	5091	Turtle8™ Pocket Tool

## Pens

### Light-Writer 3-in-1 Laser Light Pen

- Black ball point pen
- 12,000 MCD LED Light
- Red laser pointer travels over 450 yards
- Includes (6) LR44 button cell batteries



**NEBO**  
TOOLS

Part #	Mfg #	Description
LIT01138	5571	Light-Writer Laser Light Pen

### Lite-Writer™ Pen and Stylus

- (2) Micro LEDs output 10 lumens
- Anodized aircraft-grade aluminum
- Water and impact-resistant
- On/off button doubles as a stylus
- Steel belt/pocket clip
- Rear-positioned on/off button
- Twist bezel counter-clockwise to expose pen
- Includes (1) AAA battery



**NEBO**  
TOOLS

Part #	Mfg #	Description
LIT01216	5998	Lite-Writer™ Pen and Stylus

## Utility Knives

### Folding Lock-Blade Utility Knife

- Anodized aluminum handle with rubber grip
- Quick-change blade feature requires no tools
- Thumb studs for one-handed opening
- Carabiner
- Lock release button to unfold



**NEBO**  
TOOLS

Part #	Mfg #	Description
LIT01202	5517	7" Utility Knife

## Innovative Tools Socket Sets

### 14-in-1 Ultra™ Socket

- Head tilts and locks at 0°, 45°, and 90°
- Reversible ratchet mechanism
- Water and impact-resistant
- Ergonomic reinforced plastic handle
- Sockets and bits stored inside handle
- Includes:
  - Socket adapter
  - (5) Sockets: 1/4", 9/32", 5/16", 11/32", and 3/8"
  - (3) Phillips bits: P1, P2, and P3
  - (2) Slotted bits: 3/16" and 1/4"
  - (2) Torx bits: T15 and T20



**NEBO**  
TOOLS

Part #	Mfg #	Description
TOL04432	5606	14-in-1 Ultra™ Socket

## True Utility® Multi-Tools

### True Utility® Clip Tool

- 422 Grade stainless steel multi-tool
- Includes:
  - Pliers
  - File
  - Knife
  - Phillips screwdriver
  - Bottle opener
  - Quick release clip



**NEBO**  
TOOLS

Part #	Mfg #	Description
TOL04455	TU192	Clip Tool

# Multi-Tools

## True Utility® FIXR

- 420 Grade black stainless steel
- 180° Rotating gold titanium coated disc
- K5 Carbon steel blade
- Includes:
  - Quick-release CleverClip for easy access
  - Bottle opener
  - Cutting blade
  - Pry bar
  - Nail file
  - Wire stripper
  - Nail cleaner
  - Box opener
  - Large flat driver
  - Medium flat driver
  - Eyeglass screwdriver
  - Medium Phillips driver
  - Small Phillips driver
  - Bicycle spoke wrench
  - Measuring ruler
  - 1/4" Wrench
  - 5/16" Wrench
  - 3/8" Wrench
  - 1/2" Wrench
  - 9/16" Wrench
  - Leather carrying pouch



**NEBO**  
TOOLS

Part #	Mfg #	Description
TOL04549	TU200	FIXR

## True Utility® NailClip Kit

- 422 Grade stainless steel multi-tool
- Includes:
  - Nail clippers
  - Nail file
  - Flat head screwdriver
  - Scissors
  - Knife
  - 10mm Split key ring attachment



**NEBO**  
TOOLS

Part #	Mfg #	Description
TOL04459	TU215	NailClip Kit

## True Utility® MiniDriver

- Chromium plated steel
- Anti-slip grooves on main body for better control
- (4) Screwdriver heads:
  - Standard Phillips
  - Small Phillips
  - Standard flathead
  - Small flathead
- Includes quick release CleverClip



**NEBO**  
TOOLS

Part #	Mfg #	Description
TOL04267	TU231	MiniDriver

## True Utility® SlimClips

- 422 Grade stainless steel
- Strong nail clippers
- Coarse file
- Key ring attachment



**NEBO**  
TOOLS

Part #	Mfg #	Description
TOL04270	TU236	SlimClips

## True Utility® sciXors+®

- 422 Grade stainless steel
- Includes:
  - Sharp and serrated scissors
  - Bottle opener
  - Small and large screwdrivers
  - Quick release pin key ring attachment
  - Split ring



**NEBO**  
TOOLS

Part #	Mfg #	Description
TOL04458	TU238	sciXors®

## True Utility® CashStash

- Aircraft-grade aluminum
- Water and impact resistant
- Fits any single note
- Water-proof neoprene o-ring
- Stainless steel CashClip
- 10mm Split key ring attachment
- Cash not included



**NEBO**  
TOOLS

Part #	Mfg #	Description
TOL04262	TU241	CashStash

Tools

# Multi-Tools

## True Utility® MicroTool

- 422 Grade stainless steel
- Includes:
  - Scissors
  - Knife
  - Bottle opener
  - Screwdriver
  - File
  - Nail cleaner
  - Quick release clip



**NEBO**  
TOOLS

Part #	Mfg #	Description
TOL04266	TU242	MicroTool

## True Utility® KeyRing System

- 316 Marine grade stainless steel
- Includes:
  - (4) Stainless steel quick release CleverClips
  - Stainless steel key shackle
  - Strong stainless steel key ring



**NEBO**  
TOOLS

Part #	Mfg #	Description
TOL04263	TU245	KeyRing System

## True Utility® TelePen

- Stainless steel
- Telescopic (2" to 4.5")
- Includes:
  - Ballpoint pen with (3) extra black ink refills
  - Key ring attachment
  - Quick pull release mechanism



**NEBO**  
TOOLS

Part #	Mfg #	Description
TOL04261	TU246	TelePen

## True Utility® KeyTool

- Fits all standard keys
- 420 Grade stainless steel
- Includes:
  - Bottle opener
  - Eyeglass screwdriver
  - Medium screwdriver
  - Large screwdriver
  - Nail file
  - Finger nail cleaner
  - Thread cutter
  - Tweezers
  - Quick release CleverClip



**NEBO**  
TOOLS

Part #	Mfg #	Description
TOL04259	TU247	KeyTool

## True Utility® Twistick®

- 422 Grade stainless steel
- Full-size coated corkscrew helix
- 4mm Stainless steel bar
- 10mm Split key ring attachment



**NEBO**  
TOOLS

Part #	Mfg #	Description
TOL04456	TU248	Twistick®

## True Utility® FireStash

- Dark chrome plated zinc alloy
- Petrol refillable lighter (supplied without lighter fluid)
- Waterproof neoprene o-ring
- 20mm Split key ring attachment



**NEBO**  
TOOLS

Part #	Mfg #	Description
TOL04265	TU262	FireStash

## True Utility® Compact MicroLite

- Includes (3) batteries



**NEBO**  
TOOLS

Part #	Mfg #	Description
TOL04460	TU283S	Compact MicroLite



# Multi-Tools

## True Utility® TinyTorch

- (2) 5mm LED Bulbs
- 8+ lumens
- 50-Hour run time
- Aircraft-grade aluminum
- Machine milled knurling for anti-slip grip
- On/off push button operation
- Includes (3) Button cell batteries
- D-Ring for attaching to key ring



**NEBO**  
TOOLS

Part #	Mfg #	Description
TOL04268	TU284	TinyTorch

## True Utility® NanoLite

- 5mm LED Bulbs
- 4 Lumens
- Solid brass with an electro-plated silver finish
- Twist on/off switch
- Water and impact-resistant
- Spinning key ring attachment
- Includes (3) sets of batteries



**NEBO**  
TOOLS

Part #	Mfg #	Description
TOL04269	TU285	NanoLite

## True Utility® Micro USB MobileCharger

- Micro USB to USB cable
- Charges all micro USB phones (not compatible with iPhone)
- Data transfer
- Key ring included
- Premium copper wire flat cable for fast charging



**NEBO**  
TOOLS

Part #	Mfg #	Description
TOL04260	TU290B	Micro USB MobileCharger

## True Utility® SkeletonKnife

- 420 Grade stainless steel
- Belt/pocket clip
- ABS Plastic blade stop
- Key ring hole attachment



**NEBO**  
TOOLS

Part #	Mfg #	Description
TOL04264	TU571	SkeletonKnife

## True Utility® SmartKnife

- Sandblasted 420 grade stainless steel
- Includes:
  - Knife
  - Belt clip
  - Bottle opener
  - Screwdriver
  - Belt cutter
  - Adjustable spanner (4mm to 10mm bolts)
  - Key ring attachment



**NEBO**  
TOOLS

Part #	Mfg #	Description
TOL04457	TU573	SmartKnife

## Tools

### Quarrow® MT13 Anglers Tool

- 4.5" x 1" x 1.375"
- 13 Features in 1 tool:
  - Split ring needle nose pliers
  - Crimper
  - Cutter
  - Hook remover
  - Fish descaler
  - Scissors
  - Phillips screwdriver
  - 2.5" Stainless steel knife blade
  - 2.5" Serrated double edge stainless steel saw blade
  - Jigeye cleaner
  - 2 Flat-head screwdrivers
  - 2.5" Double sided file



**NEBO**  
TOOLS

Part #	Mfg #	Description
LIT01137	5467	Quarrow® MT13 Anglers Tool

# Pliers

## All-Purpose Pliers

- Strips and cuts 8-16 AWG solid and 10 - 18 AWG stranded wire
- Long nose
- 6-32 and 8-32 Screw shearing
- Induction hardened cutting knives
- Hot-riveted joint
- Forged steel
- Spring-loaded
- Dual material Journeyman™ handles



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL04115	J206-8C	8-3/8"	1"	1/2"

## Curved Jaw Pliers

### Klein-Lok® Curved Jaw Pliers with Cutting Knives



Part #	Mfg #	Size
TOL03371	10410	10"

## Diagonal-Cutting Pliers

### Diagonal Tapered Nose Cutter

- Plastic dipped handles



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02266	D202-6	6-1/8"	13/16"	11/16"

## Heavy-Duty Diagonal Cutter - Tapered Nose

- Plastic dipped handles



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02265	D220-7	7-11/16"	1"	31/32"

## All-Purpose Heavy-Duty Diagonal Cutter

- Plastic dipped handles



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02922	D252-6	6-1/8"	13/16"	3/4"

## Hi-Viz Diagonal-Cutting Pliers

- Glow in the dark grips charge in natural and artificial lighting
- Cuts ACSR, screws, nails, and most hardened wire
- High-leverage
- Short jaws and beveled cutting edges permit close cutting
- Sure-gripping cross-hatched knurled jaws
- Note: glow time and intensity may vary if charged in low light. Clean grips regularly to maintain glow brightness



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
D2000-28 GLW	D2000-28GL W	8-1/16"	13/16"	1-3/16"

## Midget Diagonal-Cutting Pliers - Spring-Loaded

- Plastic dipped handles
- Tapered nose for easy working in confined areas and close tip cutting



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL03265	D257-4C	4-1/4"	1/2"	7/16"

# Pliers

## Midget Diagonal-Cutting Pliers - Tapered Nose, Narrow Jaws

- Blue plastic dipped handles
- Spring-loaded
- Induction hardened cutting knives
- Hot-riveted joint



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02519	D244-5C	5-1/16"	1/2"	11/16"

## Midget Lightweight Diagonal Cutter

- Comfortable plastic coated handles
- Heat treated



Part #	Mfg #	Description
TOL04413	D275-5	5" Flush Cutting

## High-Leverage Pliers

### Diagonal Angled Head Cutter Pliers

- Plastic dipped handles
- High leverage
- Semi-flush cuts cherry barrel rivets, for use on non-ferrous wire only



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02263	D248-8 *	8-1/16"	13/16"	1-3/16"

### Diagonal Angled Head Cutter Pliers - Ironworker's

- Plastic dipped hooked handles
- High leverage
- Induction-hardened cutting knives
- Hot-riveted joint



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02436	D248-9ST	9-3/16"	13/16"	1-3/16"

## Hi-Viz High-Leverage Diagonal Cutting Pliers

- Glow in the dark grips charge in natural and artificial lighting
- Angled head for easier work in confined areas
- High leverage
- Note: glow time and intensity may vary if charged in low light. Clean grips regularly to maintain glow brightness



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL04323	D248-8-GLW	8-1/4"	13/16"	1-3/16"

## Diagonal Cutter Pliers

- Plastic dipped handles
- High leverage



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02261	D228-7	7-1/8"	13/16"	1-3/16"
TOL02262	D228-8	8-1/16"	13/16"	1-3/16"

## High-Leverage End Cutter

- Plastic dipped handles
- Wide throat clearance
- Extended handles
- High leverage



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL03721	D232-8	8-1/2"	3/8"	1-3/16"

## Heavy-Duty High-Leverage Side-Cutting Pliers

- Cust ACSR, screws, nails, and most hardened wire
- Induction hardened cutting knives
- Hot-riveted joint
- Handle tempering helps absorb shock
- Precision hardened plier head
- Blue plastic-dipped handles
- Combination polished and black-oxide finish



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02762	D2000-8	8-11/16"	1-7/16"	5/8"



# Pliers

## Journeyman™ Diagonal Angled Head Cutter Pliers

- Dual material handles
- High leverage



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL03724	J248-8	8-1/8"	13/16"	1-3/16"

## Journeyman™ Diagonal Cutter Pliers

- High leverage
- Red and black dual material handles



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02443	J228-8	8-1/8"	13/16"	1-3/16"

## Journeyman™ 2000 Series Diagonal Angled Head Cutter Pliers - Heavy-Duty

- Dual material handles
- Cuts ACSR, screws, nails & most hardened wire
- High leverage



Part #	Mfg #	OAL Width	Jaw Length	Jaw
TOL02599	J2000-48	8-1/2"	13/16"	1-3/16"

## Journeyman™ 2000 Series Diagonal Cutter Pliers

- Dual material handles
- Cuts ACSR, screws, nails, and most hardened wire
- High leverage



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02598	J2000-28	8-1/8"	13/16"	1-3/16"

## NE-Type High Leverage Side-Cutting Pliers

- Rivet is closer to the cutting edge for 46% greater cutting and gripping power
- Streamlined design with sure-gripping, cross-hatched knurled jaws
- Plastic-dipped handles



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02569	D213-8NE	8-11/16"	1-7/16"	1-3/16"

## NE-Type High Leverage Side-Cutting Pliers - Connector Crimping

- Crimping die behind hinge for superior leverage crimping
- Rivet is closer to the cutting edge for 46% greater cutting and gripping power
- Streamlined design with rounded nose and sure-gripping, cross-hatched knurled jaws
- Plastic-dipped handles



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02260	D213-9NECR	9-3/8"	1-19/32"	1-1/4"
TOL02435	D2000-9NEC R	9-3/8"	1-19/32"	1-1/4"

## NE-Type High Leverage Side-Cutting Pliers - Fish Tape Pulling

- Pulls 1/8" or 1/4" flat steel fish tape without damaging the tape
- Rivet is closer to the cutting edge for 46% greater cutting and gripping power
- Streamlined design with sure-gripping, cross-hatched knurled jaws
- Plastic-dipped handles



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL03040	D213-9NETP	9-3/8"	1-19/32"	1-1/4"

# Pliers

## NE-Type High Leverage Side-Cutting Pliers - Lineman's Bolt-Thread Holding

- Hinge opening holds and cleans 5/8" pole line and hardware bolts or threaded rods
- Rivet is closer to the cutting edge for 46% greater cutting and gripping power
- Streamlined design with rounded nose and sure-gripping, cross-hatched knurled jaw
- Plastic-dipped handles



**KLEIN TOOLS**

Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02570	D213-9NETH	9-3/8"	1-19/32"	1-1/4"

## NE-Type Journeyman™ Series High Leverage Side-Cutting Pliers - Connector Crimping

- Crimping die behind hinge for superior leverage crimping
- Rivet is closer to the cutting edge for 46% greater cutting and gripping power
- Streamlined design with rounded nose and cross-hatched knurled jaws
- Dual material handles



**JOURNEYMAN**

**KLEIN TOOLS**

Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL03199	J213-9NECR	9-1/2"	1-19/32"	1-1/4"

## NE-Type Journeyman™ 2000 Series High Leverage Side-Cutting Pliers

- Rivet is closer to the cutting edge for 46% greater cutting and gripping power
- Streamlined design with sure-gripping, cross-hatched knurled jaws
- Heavy-duty cutting knives
- Cuts ACSR, screws, nails and most hardened wire
- Dual material handles



**JOURNEYMAN 2000 SERIES**

**KLEIN TOOLS**

Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02597	J2000-9NE	9-1/2"	1-19/32"	1-1/4"

## NE-Type Journeyman™ 2000 Series High Leverage Side-Cutting Pliers - Connector Crimping

- Crimping die behind hinge for superior leverage crimping
- Rivet is closer to the cutting edge for 46% greater cutting and gripping power
- Streamlined design with sure-gripping, cross-hatched knurled jaws
- Cuts ACSR, screws, nails and most hardened wires
- Dual material handles



**JOURNEYMAN 2000 SERIES**

**KLEIN TOOLS**

Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02766	J2000-9NECR	9-1/2"	1-19/32"	1-1/4"

## NE-Type Side-Cutting Pliers - Streamlined Design

- Plastic dipped handles
- Streamlined design with sure-gripping, cross-hatched knurled jaws
- High leverage



**KLEIN TOOLS**

Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02259	D213-9NE	9-1/4"	1-19/32"	1-1/4"

## NE-Type 2000 Series® High Leverage Side-Cutting Pliers - Heavy-Duty Cutting

- Cuts ACSR, screws, nails and most hardened wire
- Rivet is closer to the cutting edge for 46% greater cutting and gripping power
- Streamlined design with sure-gripping, cross-hatched knurled jaws
- Plastic-dipped handles (D2000-9NE)
- Heavy-duty, oversized plastic-dipped handles (HD2000-9NE)



D2000-9NE



HD2000-9NE

**KLEIN TOOLS**

Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02763	D2000-9NE	9-3/8"	1-19/32"	1-1/4"
TOL03825	HD2000-9NE	9-1/2"	1-19/32"	1-1/4"

# Pliers

## NE-Type 2000 Series® Side-Cutting Pliers - Fish Tape Pulling

- Plastic-dipped handles, royal blue
- Pulls 1/8" or 1/4" flat steel fish tape
- Sure-gripping, cross-hatched knurled jaws
- Heavy-duty cutting knives for ACSR, screws, nails and most hardened wire
- High leverage
- Polished black-oxide finish



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL03759	D2000-9NETP	9"	1-19/32"	1-1/4"

## Universal Side-Cutting Pliers - Connector Crimping

- Plastic dipped handles
- Crimping die behind hinge for superior leverage crimping
- Toothed pipe grip



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02430	12098	8-5/8"	1-25/32"	1-1/32"

## 2000 Series® Diagonal Angled Head Cutter Pliers - Heavy-Duty

- Plastic dipped handles
- Cuts ACSR, screws, nails, and most hardened wire
- High leverage



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02264	D2000-48	8-1/16"	13/16"	1-3/16"

## 2000 Series® Diagonal Cutter Pliers

- Plastic dipped handles
- Cuts ACSR, screws, nails, and most hardened wire
- High leverage



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02643	D2000-28	8-1/16"	13/16"	1-3/16"

## Long-Nose Pliers

### Hi-Viz Side-Cutting Long-Nose Pliers

- Glow in the dark grips charge in natural and artificial lighting
- Plastic-dipped extended handles
- Induction hardened cutting knives
- Note: glow time and intensity may vary if charged in low light. Clean grips regularly to maintain glow brightness



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL04322	D203-8GLW	8-7/16"	2-5/16"	1"

### Curved Long-Nose Pliers

- 70° Bent nose
- Knurled jaws
- Curved handles



Part #	Mfg #	Overall Length	Jaw Length
TOL02515	D302-6	6-3/8"	1-1/2"

### Long-Nose Chain Nose Pliers

- Knurled jaws
- Spring-loaded
- Curved handles



Part #	Mfg #	Overall Length	Jaw Length
TOL03891	D317-5C	5-1/16"	1-1/8"

### Midget Curved Chain-Nose Pliers

- 60° Bent nose
- Polished inside jaws and radiused jaw edges
- Spring-loaded
- Curved handles



Part #	Mfg #	Overall Length	Jaw Length
TOL02520	D320-41/2C	4-3/4"	1"

# Pliers

## Midget Long-Nose Slim Nose Pliers

- Lightweight
- Knurled jaws
- Curved handles



Part #	Mfg #	Overall Length	Jaw Length
TOL02603	D321-41/2	4-13/16"	1-1/16"

## Slim Long-Nose Pliers

- Spring-loaded
- Curved handles
- Knurled jaws



Part #	Mfg #	Overall Length	Jaw Length
TOL03240	D307-51/2C	5-5/8"	1-11/16"

## Needle-Nose Pliers

### Heavy-Duty Side-Cutting Long-Nose Pliers

- Plastic dipped extended handles
- Induction hardened cutting knives



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02267	D203-8	8-7/16"	2-5/16"	1"

### Heavy-Duty Side-Cutting Long-Nose Pliers - Wire Strippers

- Cleanly strips 12 AWG wire
- Induction hardened cutting knives
- Plastic dipped extended handles



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02437	D203-8N	8-7/16"	2-5/16"	1"

### Heavy-Duty Side-Cutting Long-Nose Pliers - Wire Stripping & Crimping

- Plastic dipped extended handles
- Cleanly strips 12 AWG wire
- Crimps connectors, lugs, and terminals
- Induction hardened cutting knives



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02268	D203-8NCR	8-5/8"	2-5/16"	1"

### Journeyman™ Heavy-Duty Side-Cutting Long-Nose Pliers

- Dual material handles
- Induction hardened cutting knives
- Extended handles



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02514	J203-8	8-1/2"	2-5/16"	1"

### Journeyman™ Heavy-Duty Side-Cutting Long-Nose Pliers - Wire Strippers

- Dual material extended handles
- Cleanly strips 12 AWG wire
- Induction hardened cutting knives



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02584	J203-8N	8-9/16"	2-5/16"	1"

### Journeyman™ Standard Long-Nose Side-Cutting Pliers

- Dual material handles
- Induction hardened, long lasting cutting knives
- Knurled jaws for sure wrapping and looping



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02604	J203-6	6-3/4"	1-7/8"	3/8"

# Pliers

## Journeyman™ Standard Long-Nose Tool

- Slim head design
- Induction-hardened cutting knives
- Knurled jaws for sure wrapping and looping
- Hot-riveted joint
- Yellow/black handles



Part #	Mfg #	Handle Color	Length
TOL02605	J203-7	Journeyman;long Nose Pliers	

## Standard Long-Nose Side-Cutting Pliers

- Plastic dipped handles
- Induction hardened cutting knives
- Knurled jaws



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02269	D203-6	6-5/8"	1-7/8"	11/16"
TOL02270	D203-7	7-3/16"	2-7/16"	11/16"

## Long Needle-Nose Pliers - Extra Slim

- Slim hinge
- Finely knurled jaws
- Spring-loaded
- Curved handles



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL03038	D335-51/2C	5-5/8"	1-11/16"	1/4"

## Long-Nose Pliers - Long Reach

- Plastic dipped handles



Part #	Mfg #	Description	Overall Length
TOL03102	D360-11	Straight	11-1/16"

## Standard Long-Nose Pliers

- Knurled jaws for sure wrapping and looping
- Curved plastic dipped handles



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL03557	D301-6	6-5/8"	1-7/8"	11/16"

## Pump Pliers

### Classic Klaw™ Pump Pliers

- Unique jaw design provides multiple points of contact for maximum torque
- Compact, narrow design for easy work in small or hard to reach spaces
- Gripping surface with specially hardened teeth for reduced wear and positive grip
- Extended grips with yellow plastic-dipped coating



Part #	Mfg #	Overall Length	Max Cap
TOL03922	D504-7	7-3/8"	2-1/8"
TOL03923	D504-10	9-7/8"	2-1/8"
TOL03924	D504-12	12"	2-3/4"

### Classic Klaw™ Quick-Adjust Pump Pliers

- Unique jaw design provides multiple points of contact for maximum torque
- Push button and quick ratchet feature allows for fast and easy adjustment to any position
- Compact, narrow design for easy work in small or hard to reach spaces
- Gripping surface with specially hardened teeth for reduced wear and positive grip
- Extended grips with yellow plastic-dipped coating



Part #	Mfg #	Overall Length	Max Cap
TOL03920	D504-10B	10-1/8"	2-1/8"
TOL03921	D504-12B	12-1/2"	2-3/4"



# Pliers

## Journeyman™ Pump Pliers

- Dual material handles
- Secure tongue and groove design for non-slip grip
- Wide range of versatile jaw positions



Part #	Mfg #	Overall Length	Max Cap
TOL02619	J502-10	10-1/4"	1-3/4"

## Pipe-Wrench Pump Pliers - Angled Head

- Plastic dipped handles with stop
- Secure tongue and groove design for non-slip grip
- Seven versatile jaw positions



Part #	Mfg #	Length	Max
TOL03856	D503-10	10-1/4"	2-1/8"
TOL02717	D503-12	13-1/4"	2-5/8"

## Pump Pliers

- Secure tongue and groove design for non-slip grip
- Wide range of versatile jaw positions
- Plastic-dipped handle



Part #	Mfg #	Overall Length	Max Cap	Handle Color
TOL02272	D502-6	6-1/2"	7/8"	Yellow
TOL02273	D502-10	10"	1-3/4"	Yellow
TOL02274	D502-12	12-1/4"	2-3/8"	Yellow
TOL02554	D502-16	16-3/4"	4-1/4"	Yellow

## Side-Cutting Pliers

### Hi-Viz High-Leverage Side-Cutting Pliers

- Glow in the dark grips charge in natural and artificial lighting
- Cuts ACSR, screws, nails, and most hardened wire
- High-leverage
- Sure-gripping cross-hatched knurled jaws
- Note: glow time and intensity may vary if charged in low light. Clean grips regularly to maintain glow brightness



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
D2000-9N	D2000-9NEGL	9-3/8"	1-19/32"	1-1/4"
EGLW	W			

### Square Nose Side-Cutting Pliers

- Plastic dipped handles
- Sure-gripping, cross-hatched knurled jaws



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02567	D201-7NE	7-7/16"	1-9/32"	1-1/16"
TOL02968	D201-8NE	8-1/2"	1-7/16"	1-7/32"
TOL03039	D201-9NE	9-1/4"	1-19/32"	1-5/16"

## Slip-Joint Pliers

### Slip-Joint Hose Clamp Pliers - Plastic Dipped Handles

- Quickly installs and removes spring-tension hose clamps
- Grips with either end or side of jaws
- Nickel-chrome plated



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02618	D514-8	8-1/16"	1-3/8"	1-1/4"

# Pliers

## Slip-Joint Pliers - Plastic Dipped Handles

- (2) Versatile jaw positions
- Serrated jaws
- Nickel-chrome plated



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02271	D511-6	6-1/2"	1-3/16"	1-3/16"
TOL02571	D511-8	8-1/16"	1-3/8"	1-1/4"
TOL03129	D511-10	9-7/8"	1-3/4"	1-3/8"

## Snap-Ring Pliers

### Retaining Ring Pliers

- Steel construction with corrosion-resistant black-oxide finish
- Heat-treated tips
- External retaining-ring field style
- Fixed tip design without spring



Part #	Mfg #	Overall Length
TOL04118	73421	5-11/16"

### Retaining Ring Pliers - Internal Deluxe Ring - Spring-Loaded

- Plastic dipped handles
- Sturdy steel construction with corrosion resistant black-oxide finish
- Heat treated tips



Part #	Mfg #	Tip Size	Angle
TOL02606	73237	.038"	Straight

## Special Use Long-Nose Pliers

### Conduit Locknut and Reaming Pliers

- Tightens 1/2" and 3/4" EMT or 1/2" rigid locknuts
- Fits liquid tight fittings and caps
- Reams and smooths inside and outside of conduit
- Knurled jaws
- Machined nose



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL03197	D333-8	7-3/4"	1-5/8"	1/2"

## Replacement Plastic Handles

### Replacement Klein-Koat® Tenite Pliers Handle

- Tenite plastic for slip-resistant grip and comfort
- Maroon color



Part #	Mfg #	Size to Fit Pliers
TOL02501	60	6" Long
TOL02961	70	7" Long
TOL02502	89	8" - 9" Long

# Portable Oscilloscopes

## Oscilloscopes

### 120 Series ScopeMeter® Test Tool

- Includes:
  - 40MHz Oscilloscope
  - (2) True-rms digital multimeter
  - "Paperless" TrendPlot™ recorder
  - Current clamp (i400s)
- Automatic capture and replay of 100 screens
- 600V CAT III Safety certified
- Up to five hours battery operation with standard battery, seven hours with optional battery (included with tool)



FLUKE®

Part #	Mfg #	Description
MTR00905	FLUKE123/003	40MHz
MTR00921	FLUKE123/003S	40MHz
MTR00938	FLUKE-124/003S	40MHz with SCC Kit

### 190 Series ScopeMeter® Handheld Digital Storage Oscilloscope

- Dual-input 200, 100, or 60 MHz bandwidth
- Up to 2.5 GS/s real-time sampling per input
- High resolution color display
- High waveform resolution of 3,000 datapoints per channel
- Connect-and-View™ automatic triggering and full range of manual trigger modes
- Frequency Spectrum Analysis using FFT
- Automatic capture and replay of 100 screens
- 27,500 points per input record length using ScopeRecord™ mode
- TrendPlot™ paperless chart recorder for trend analysis up to 22 days
- Up to 1000V independently floating isolated inputs
- 1000v CAT II and 600V CAT III safety certified
- (4) Hour rechargeable Ni-MH battery pack
- Warranty: 3-Years on main instrument, 1-year on accessories



FLUKE®

Part #	Mfg #	Description
MTR01344	FLUKE-190-204/S	200 MHz Color Oscilloscope
MTR01002	FLUKE-199C/003	60/100/200 MHz Color Oscilloscope

## Oscilloscope Accessories

FLUKE®

Part #	Mfg #	Description
MTR00926	SCC190EFG	Carry Case, FlukeView™ Software & Optically Isolated USB-Cable



# Power Quality Tools

## Energy Loggers

### 1730 Series Three-Phase Energy Logger

- *Key measurements: voltage, current, power, power factor and associated values*
- *Bright, color touch screen*
- *(2) USB ports*



Part #	Mfg #	Description
FLUKE-1730	FLUKE-1730US	3-Phase Energy Logger US Version
FLUKE-1730BASIC	FLUKE-1730BASIC	3-Phase Energy Logger Basic Version
MTR01039	FLUKE-1735	3-Phase Energy Logger



# Power Tools

## Heat Guns

- 500°F, 750°F and Cold settings
- Shock-proof and cool-running with Lexan® housing
- Ideal for applications including:
- Fast heating and drying of materials
- Quick curing and drying of epoxies
- Applying shrink tubing
- Softening tubing for bending
- Speed-drying of touch-up paint to eliminate haze
- Drying out condensation in motors, clutches and controls



**ROBINAIR**

Part #	Mfg #	Description
TOL00182	14450	115V, 50/60Hz

# Power Tool Accessories

## Drill Bits

### Phillips Insert Power Driver - 1" Bit

- Precision machined
- Impact rated
- Heat-treated
- 5/Pack



Part #	Mfg #	Description
TOL04161	PH115	#1 Phillips Bit
TOL04164	PH2115	#2 Phillips Bit
TOL04167	PH315	#3 Phillips Bit

### Phillips Power Driver - 3-1/2" Bit

- Impact rated
- Heat-treated
- 5/Pack



Part #	Mfg #	Description
TOL04162	PH1355	#1 Phillips Bit
TOL04165	PH2355	#2 Phillips Bit
TOL04168	PH3355	#3 Phillips Bit

### Phillips Power Driver - 6" Bit

- Impact rated
- Heat-treated
- 5/Pack



Part #	Mfg #	Description
TOL04163	PH162	#1 Phillips Bit
TOL04166	PH262	#2 Phillips Bit
TOL04169	PH362	#3 Phillips Bit

### Combination Tip Power Driver - 1" Bit

- Impact rated
- Heat-treated
- 5/Pack



Part #	Mfg #	Description
TOL04503	C1-1-5	#1 Combination Tip
TOL04505	C2-1-5	#2 Combination Tip

### Combination Tip Power Driver - 3-1/2" Bit

- Impact rated
- Heat-treated
- 5/Pack



Part #	Mfg #	Description
TOL04504	C1-35-5	#1 Combination Bit
TOL04506	C2-35-5	#2 Combination Bit

### Flat Head Power Driver - 3-1/2" Bit

- Impact rated
- Heat-treated
- 5/Pack



Part #	Mfg #	Description
TOL04446	SL316355	3/16" (5mm) Slotted Bit
TOL04445	SL14355	1/4" (6mm) Slotted Bit

### Switch Drive™ Power Driver Set

- Quick release mechanism
- Switch Drive™ cushion-grip handle



Part #	Mfg #	Description
TOL04222	32701	Switch Drive™ Handle Power Nut Driver Set
TOL04221	32700	Switch Drive™ Handle with #2 Phillips and #2 Square Drivers
TOL04433	32703	Switch Drive™ Handle with #1 and #2 Phillips Drivers
TOL04434	32704	Switch Drive™ Handle with #1 and #2 Square Drivers
TOL04447	32759	Power Driver Set with (3) Hex Power Driver Bits
TOL04480	PND1210	1/2" Driver Shaft, 10" Long
TOL04415	PND125	1/2" Driver Shaft, 5" Long
TOL04481	PND71610	7/16" Driver Shaft, 10" Long
TOL04416	PND7165	7/16" Driver Shaft, 5" Long
TOL04482	PND91610	9/16" Driver Shaft, 10" Long
TOL04417	PND9165	9/16" Driver Shaft, 5" Long

# Power Tool Accessories

## 5-in-1 Multi-Bit Power Driver

- Solid body with 1/4" hex quick connect
- Offers (3) screwdriver functions and (2) nut drivers in a single adapter that fit any power tool:
  - PH2, SQ2, SL 3/16 Screwdrivers
  - 1/4" & 3/8" Nut drivers
- Includes:
  - (1) Magnetically held standard 1" bit
  - (1) Double ended bit



Part #	Mfg #	Description
TOL04398	32605	5-in-1 Multi-Bit Power Driver

## 6-in-1 Multi-Bit Power Driver

- Solid body with 1/4" hex quick connect
- Offers (3) screwdriver functions and (3) nut drivers in a single adapter that fit any power tool:
  - PH2, SQ2, SL 3/16 Screwdrivers
  - 1/4", 5/16" & 9/16" Nut drivers
- Includes:
  - (1) Magnetically held standard 1" bit
  - (1) Double ended bit



Part #	Mfg #	Description
TOL04399	32606	6-in-1 Multi-bit Power Driver

## Tapping Tool Kits

### 8-Piece Drill Tap Tool Kit

- For aluminum, brass, copper, plastic and mild steel up to 10ga
- 1/4" Hex connection



Part #	Mfg #	Description
TOL04497	32217	6-32, 8-32, 10-32, 10-24, 12-24 and 1/4-20

# Pressure Washers

## Pressure Washers

### Portable Hi-Pressure Washer

- 1.7 hp
- Stainless steel construction
- 25' Steel reinforced hi-pressure hose
- 3' Stainless steel wand
- Variable pressure nozzle
- Can use hot water for additional cleaning power
- Output water pressure: 1,200 psi @ 1.8 gpm
- Soap container
- Triplex plunger running in oil bath
- Weight: 41 lbs net dry



Part #	Mfg #	Description
TOL02743	GPW-1200A-50	1.7 hp, 220V, 50Hz Portable Hi-Pressure Washer
TOL01679	GPW-1200-60	1.7 hp, 115V, 60Hz Portable Hi-Pressure Washer
TOL01899	GPW-GA-1200	Spray Gun Assembly for Model GPW-1200 (includes 2' Hi-Pressure Hose, Spray Gun, Wand And Nozzle)

### Heavy-Duty Mobile Pressure Washer for Productivity



Part #	Mfg #	Description
TOL04117	GPW-1300-60	115V Heavy-Duty Pressure Washer with Reel

## Pressure Washer Hose

### Hi-Pressure Extension Hose



- For all units except GPW-1200 and GPW-4000-G
- Quick disconnect fittings

Part #	Mfg #	Length
HSE01491	HPH-25E	25'

### GPW-1200 Hi-Pressure Extension Hose

- For GPW-1200 model only
- Quick disconnect fittings



Part #	Mfg #	Length
HSE01561	1024-25-1200	25'

### Pipe/Drain Cleaner Hose for Pressure Washers

- For all models except GPW-1200, GPW-1000-P, and HPW units
- Quick connect



Part #	Mfg #	Length
HSE01412	TE-30-HOSE	30'

### Water Supply Hose

- 50' Long
- 5/8" ID
- Top-grade rubber
- For all GPW and HPW models
- Heavy-duty machined brass fittings
- Abrasion-resistant
- Retains flexibility to -25°F



Part #	Mfg #	Description
HSE01366	WSH-R50	50' Heavy-Duty Water Supply Hose, Red
HSE01368	1024-38	25' Extension Hose, Threaded Ends

## Pressure Washer Accessories

Part #	Mfg #	Description
NOZ00828	TEN-1000	Pipe & Drain Cleaner Nozzle
NOZ01008	QDN-1512-Y	15° Flat Quick Disconnect Coil Cleaner Nozzle
NOZ00887	QDN-1504Y	15° Flat Quick Disconnect Coil Cleaner/Pressure Washer Nozzle
NOZ00823	1027	Variable Spray Nozzle
FTG00952	USF-001	Pressure Washer Universal Swivel Fitting
KIT08152	5805-BK-3	Bypass Model Kit for GPW-1200
FTG00896	1056	Barbed Fitting, 10-32 Thread to 1/8" Hose Fitting And It's Made of Brass for Ram-5 And Ram-6
MOT11988	5805-60	Motor/Pump Assembly for Model GPW-12000-60
NOZ00819	5812	Variable Spray Nozzle for GPW-1200 Washer
OIL00107	1546	15w50 Synthetic Oil for GPW-1200 Pump, 1 qt
PIN00871	1719	Roll Pin, 1/16" for RAM-5-GT Gun Assembly
CRD00092	1240	Ground Fault Power Cord for GPW-1000 and GPW-1200



# Probes

## Probes

### 1075 General Purpose Puncture Probe

- Maximum cable temperature: 200°F
- 6' Polyurethane cable
- For SH66A SRH77A temperature humidity testers
- Temperature range: -40° to 300°F (-40° to 149°C)
- 1-Year warranty



Part #	Mfg #	Description
SEN01504	1075	-40°F to 300°F

### 2010 Air Probe

- Maximum cable temperature: 200°F
- 12' Polyurethane cable
- For SH66A temperature/thermister instrument
- Temperature range: -40° to 200°F (-40° to 93°C)
- 1-Year warranty



Part #	Mfg #	Description
SEN01503	2010	-40°F to 200°F

### 4005MK "The Claw" Pipe Clamp Probe

- Easily reads pipe surface temperatures in diameter up to 1-3/8"
- Spring-loaded to ensure repeatability
- 10' Straight cable
- Flexible sensor
- 2 Second response time



Part #	Mfg #	Description
SEN01495	4005MK	-20°F to 300°F

## Thermocouple Probes

### Thermocouple Ceramic Tip Straight Stem Probe

- Temperature range: -40° to 1202°F
- 1 Second response time on oiled surface
- 4" Shaft
- 48" Cable
- 1 Year probe warranty



Part #	Mfg #	Description
SEN01800	50318-K	4" Ceramic tip Straight Stem Probe with 4' Cable

### Thermocouple Heavy-Duty Frozen Product Probe

- Stainless steel handle
- 4 Second response time in liquids
- 3" Shaft
- 30" Cable
- Temperature range: -40° to 400°F



Part #	Mfg #	Description
SEN01551	50101-K	K-Type Frozen Product Thermocouple Probe

### Thermocouple MicroNeedle Probe

- Available in types J, K and T
- 4' Extended polyurethane outer jacket cable, 1' retracted
- Provides response with minimal impact
- Not recommended for use in highly acidic or alkaline
- Maximum tip temperature: 500°F
- Maximum cable temperature: 176°F
- Temperature range: -100° to 500°F (-73° to 260°C)
- 1-Second response time in liquid
- 1-Year limited warranty



Part #	Mfg #	Description
SEN01794	50209-K	3-1/2" MicroNeedle Probe with Coil Cable

### Thermocouple DuraNeedle Probe

- Available in types J, K and T
- 4' Extended polyurethane outer jacket cable, 1' retracted
- Maximum tip temperature: 500°F
- Maximum cable temperature: 176°F
- Temperature range: -40° to 500°F (-40° to 260°C)
- 1-Year limited warranty



Part #	Mfg #	Description
SEN01668	50336-K	6" DuraNeedle Probe with Coil Cable

# Probes

## Thermocouple Pipe Strap Probe - Type K

- 10' Straight polyurethane cable
- $\pm 2.5^\circ\text{F}$  Temperature accuracy
- Fits pipes up to 3-1/3" diameter
- Temperature range:  
-25° to 300°F (-32° to 149°C)
- Includes 11" stretchable strap-hook mount
- 1-Year limited warranty
- RoHS Compliant



Part #	Mfg #	Description
SEN02038	54011-K	3-3/10" Dia Pipe Strap Probe with 10' Cable

## Thermocouple Solid Simulator Probe - Type K

- 6" Flexible cable with FEP jacket
- Temperature range:  
-40° to 180°F (-40° to 82°C)
- Includes 12" Cable tie mount
- FDA Approved material
- 2-Hour Initial stabilization response time
- 1-Year limited warranty



Part #	Mfg #	Description
SEN01964	52048-K	6" Solid Simulator Probe with 6" Cable

## Thermistor Probes

### Blunt Tip Veterinary Thermistor Air Probe

- $\pm 0.4^\circ\text{F}$  Temperature accuracy
- Waterproof
- Maximum cable temperature: 400°F
- Maximum tip temperature: 300°F
- Temperature range:  
-40° to 300°F (-40° to 149°C)
- 18-Second response time
- 10' Straight Teflon cable
- 1-Year limited warranty



Part #	Mfg #	Description
SEN01787	2007	4" Veterinary Probe with 10' Cable

## Needle Thermistor Probe

- Maximum cable temperature: 200°F
- Maximum tip temperature: 300°F
- Temperature range:  
-40° to 300°F (-40° to 149°C)
- 6' Uncoiled polyurethane cable
- 4-Second response time
- 1-Year limited warranty



Part #	Mfg #	Description
SEN01950	1052	2-9/10" Needle Probe with 6' Cable

## Pipe Strap Thermistor Surface Probe

- For SH66A temperature and thermistor instrument and SRH77A temperature/humidity tester
- $\pm 2^\circ\text{F}$  Temperature accuracy
- Maximum tip temperature: 212°F
- Maximum cable temperature: 200°F
- Temperature range:  
-25° to 212°F (-32° to 100°C)
- 12' Uncoiled polyurethane cable
- 1-Year limited warranty



Part #	Mfg #	Description
SEN01502	4011	Pipe Strap Probe with 12' Cable

## Slim Humidity Thermistor Probe

- For SRH77A temperature humidity tester
- Maximum tip temperature: 150°F
- Maximum cable temperature: 200°F
- Temperature range:  
0° to 150°F (-18° to 66°C)
- Humidity range: 10 - 95%RH
- 6' Coiled PVC cable
- 30-Second response time in moving air
- 1-Year limited warranty



Part #	Mfg #	Description
SEN01505	5028	4-9/10" Thermistor Probe with 6' Cable



# Probes

## Thermistor Fast Surface Contact Probe

- Maximum cable temperature: 200°F
- Maximum tip temperature: 300°F
- Temperature range:  
-40° to 300°F (-40° to 149°C)
- 6' Uncoiled polyurethane cable
- 15-Second response time
- 1-Year limited warranty



Part #	Mfg #	Description
SEN01653	4040	3-1/2" Fast Surface Contact Probe with 6' Cable

## Thermistor Pipe Clamp Surface Probe

- For measuring pipe surface temperatures
- For use on pipes with 1/4" to 1-3/8" diameters
- Maximum cable temperature: 200°F
- Probe temperature range:  
-14° to 212°F (-10° to 100°C)
- 10' Uncoiled TEP cable
- 12-Second response time
- 1-Year limited warranty



Part #	Mfg #	Description
SEN01494	4005	Pipe Clamp Probe with 10' Cable

## Thermistor Puncture Probe with Heavy-Duty Cord

- 17" Shaft
- Temperature range: -40° to 300°F
- 100 Second response time
- 1 Year probe warranty



Part #	Mfg #	Description
SEN02040	1014	17" Puncture Probe



# Process Calibration Tools

## Calibrators

### 707 Loop Calibrator

- One-handed user interface with "Quick Click" detented knob
- mA sourcing, simulation, and measurement
- 0.015% Accuracy and 0.001 mA resolution
- Simultaneous mA and % of span display
- Selectable step or ramp outputs
- 24V Loop supply with mA measure, including 250 ohm Hart resistor
- 0-28Vdc measurement to check loop voltage
- Easy battery exchange without opening the case
- Compact case with separate protective holster
- 3-Year warranty



Part #	Mfg #	Description
MTR00907	FLUKE-707	Loop Calibrator w/Quick Click Knob

### 715 Volt/mA Calibrator

- 24V Loop power supply
- Source or simulate 24 mA loop current
- Measure voltage output process signals from PLCs, transmitters
- Enhanced voltage and current measure and source accuracy
- 250ohm HART resistor with loop power
- Holster features test lead storage
- Compatible with TPAK magnetic hanging system
- Step and linear ramp output function
- Configurable zero and span settings
- 3-Year warranty



Part #	Mfg #	Description
TOL01949	FLUKE-715	24V 24mA Volt/mA Calibrator

### 717 Pressure Calibrator

- Measure pressure: 0.05% full scale
- Measure mA with 0.015% accuracy and 0.001 mA resolution, while sourcing 24V loop power
- 1/8" FNPT Pressure fitting
- Compatible with non-corrosive gases and liquids
- Zero, min, max, and hold functions
- Calibrate P/I instruments with simultaneous pressure and current measurement
- Pressure switch test function captures set, reset, and deadband values
- Holster features test lead storage
- Compatible with TPAK magnetic hanging system
- 3-Year warranty



Part #	Mfg #	Description
TOL02694	FLUKE-717-30G	30 psi Pressure Calibrator
TOL02695	FLUKE-717-100G	100 psi pressure Calibrator
MTR01132	FLUKE-717 3000G	3,000 psi Pressure Calibrator

### 718 Pressure Calibrator

- Measure pressure: 0.025% full scale
- Measure mA with 0.015% accuracy and 0.001 mA resolution
- Minimum/Maximum/Hold to capture changing measurements
- 3-Year warranty



Part #	Mfg #	Description
TOL02696	FLUKE-718-30US	30 psi Pressure Calibrator
TOL02697	FLUKE-718-100US	100 psi pressure Calibrator



# Process Calibration Tools

## 725 Multifunction Process Calibrator

- View input and output simultaneously
- Measures:
  - Volts
  - mA
  - RTDs
  - Thermocouples
  - Frequency
  - Ohms
  - Pressure
- Perform fast linearity tests with auto-step and auto-ramp features
- 24V Loop power supply
- Store frequently used test setups for later use
- Includes:
  - (1) Set of AC72 alligator clips
  - (1) Set of stackable test leads
  - (1) Set of TL75 test leads
  - User manuals
  - NIST-traceable calibration report and data



Part #	Mfg #	Description
TOL02595	FLUKE-725	24V 22mA Multifunction Process calibrator



# Saws & Blades

## Compass Saws

### Magic-Slot Compass Saw - 10 TPI

- 8" Carbon steel blade
- Blue die-cast zinc handle



Part #	Mfg #	Description
TOL03244	703	Compass Saw

## Hacksaws

### "Dual Purpose" Hacksaw

- Powerful, efficient cutting action
- Die cast aluminum handle and front end
- Rigid steel box frame
- Pivot lock tensions all blades
- Extra blades store in frame



Part #	Mfg #	Description
TOL02409	701-S	12" Hacksaw Frame

### High-Tension Hacksaw

- Adjustable blade tension up to 30,000 psi for fast, precise cuts
- Soft-touch grips
- Blade storage in handle
- Alternative 45° degree mounting for flush cutting
- Front-mount for reciprocating saw blades
- Includes 12" x 24 TPI bi-metal hacksaw blade and 6" x 24 TPI bi-metal reciprocating saw blade



Part #	Mfg #	Blade Length	Overall Length
TOL03548	702-12	12"	16-1/4"

## Heavy-Weight Hacksaw

- A rugged, heavy-duty saw with the versatility to satisfy Professional requirements
- Greater weight means a faster job
- Permits efficient one-hand use where necessary
- Blade cuts fully through to a flat surface
- Converts easily from vertical to horizontal position for full-flush cutting
- Durable, tubular steel frame and die-cast zinc handles with blue finish
- Pivot-action front end with slotted tensioning rod permits maximum tightening of blade for more efficient sawing and longer blade life
- Curved front-end design for comfortable two-hand use
- Storage for extra blades in tubular steel frame



Part #	Mfg #	Blade Length	Overall Length
TOL02472	701-12	12"	16"

## Hacksaw Blades

### Bi-Metal Blade

- High-speed steel teeth fused to carbon-steel body
- Withstands greater saw tension for less blade flexing
- Fits 12" hacksaw blades
- Blue finish
- Available in box of (100) blades or in a reclosable, heavy-vinyl, seal tight pouch of (10) blades



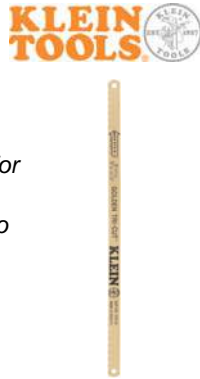
Part #	Mfg #	Blade Length	TPI	Pkg
BLD01043	1224BI-P	12"	24	10
TOL02761	1232BI-P	12"	32	10



# Saws & Blades

## Golden Tri-Cut™ Blade

- Unique design provides three teeth sizes on one blade
- Has 32 teeth/inch up front for quick starts, 24 teeth/inch in the middle, and 18 teeth/inch on the end for fast and smooth conventional cutting
- Special high speed steel teeth fused to carbon-steel provide superior cutting action and long life
- Reclosable, heavy vinyl seal tight pouch of ten blades
- Gold finish



Part #	Mfg #	Blade Length	TPI	Pkg
TOL02719	1200BI-P	12"	32-24-18	10

## Jab Saws

- Cuts drywall, wallboard, plywood, and plastic
- Triple ground teeth for a fast cut
- Blade cuts in both directions (push and pull)
- Hardened, carbon steel blade for durability
- Hardened, beveled blade point for scoring and plunge cuts
- Comfort cushion grip with thumb groove
- Handle structure designed for strength and durability
- Flat end grip for palming or punching through drywall



Part #	Mfg #	Blade Length	Overall Length
TOL02674	725	6"	12"

## Reciprocating Saw Blades

### Bi-Metal Reciprocating Saw Blade - 6 TPI

- 6" Long
- Bi-metal blade
- Shock-resistant teeth resist strippage
- 1/2" Universal shank fits most reciprocating saw tools
- For wood with nails



Part #	Mfg #	Description
TOL03141	31716	5-Pack of 6 TPI 6" Blades for Wood with Nails
TOL03142	31716-15	15-Pack of 6 TPI 6" Blades for Wood with Nails
TOL03527	31750	5-Pack of 6 TPI 9" Blades for Wood with Nails

### Bi-Metal Reciprocating Saw Blade - 14 TPI

- Bi-metal blade
- Shock-resistant teeth resist strippage
- 1/2" Universal shank fits most reciprocating saw tools
- For heavy-gauge metals



Part #	Mfg #	Description
TOL03530	31722	5-Pack of 14 TPI 6" Blades for Heavy-Gauge Metals
TOL03528	31742	5-Pack of 14 TPI 8" Blades for Heavy-Gauge Metals

### Bi-Metal Reciprocating Saw Blade - 18 TPI

- Bi-metal blade
- Shock-resistant teeth resist strippage
- 1/2" Universal shank fits most reciprocating saw tools
- For heavy-gauge metals



Part #	Mfg #	Description
TOL03143	31728	5-Pack of 18 TPI 6" Blades for Heavy-Gauge Metals
TOL03144	31728-15	15-Pack of 18 TPI 6" Blades for Heavy-Gauge Metals

### Bi-Metal Reciprocating Saw Blade - 24 TPI

- Bi-metal blade
- Shock-resistant teeth resist strippage
- 1/2" Universal shank fits most reciprocating saw tools



Part #	Mfg #	Description
TOL04160	31734	5-Pack of 24 TPI 6" Blades for 18-Gauge Wire and Under

# Screwdrivers, Nut Drivers & Accessories

## Conduit Screwdrivers & Reamers

### Conduit Fitting & Reaming Screwdriver

- Reams and smooths 1/2", 3/4", and 1" thin wall conduit ends
- Reams both the inside and outside of the conduit at the same time
- Replaceable reaming blade is now held in place with a 1/16" hex socket set screw



Part #	Mfg #	Shank Width	Shank Length	Overall Length
TOL03081	85191	3/8"	3"	7-3/8"

### Conduit Reamer

- Locks onto screwdrivers; reams and smooths thin wall conduit
- Reams ID and OD at the same time
- (2) Set screws to fit round or square shank screwdrivers
- Fits up to 3/8" keystone tip screwdrivers
- Not for use on power tools



Part #	Mfg #	Reams
TOL03387	19352	Inside & Outside

### Power Drill Conduit Reamer

- Ream 1/2" (13 mm), 3/4" (19 mm) and 1" (25 mm) conduit and install fittings
- Reduce time on projects with large quantities of conduit runs
- Designed to fit into power drill chucks and quick release adapter
- Improved bit retention
- Includes precision engineered replaceable reaming blade
- Made in the USA



Part #	Mfg #	Description
TOL04523	85091	Reamer for 1/2", 3/4" & 1" Conduit

### Conduit Reamer Replacement Blade



Part #	Mfg #	Description
TOL04542	19351	Conduit Reamer Replacement Blade

## Cushion Grip Nut Drivers

### Drive-A-Matic Cushion Grip Nut Driver

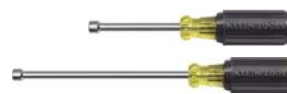
- Automatically fits (15) different nut and screw sizes
- Hex head adjusts to the proper size as you turn it



Part #	Mfg #	Description
TOL02903	632	7" Open; 6-3/4" Closed Length

### Magnetic Tip Nut Driver - Hollow Shank

- Rare Earth magnetic tip
- Handle end is color-coded for easy identification
- Chrome-plated



Part #	Mfg #	Hex Size	Shaft Lgth
TOL04465	630-4.5MM	4.5mm	3"
TOL03511	630-3/16M	3/16"	3"
TOL03515	646-3/16M	3/16"	6"
TOL04466	630-5MM	5mm	3"
TOL02853	630-1/4M	1/4"	3"
TOL02470	646-1/4M	1/4"	6"
TOL02633	618-1/4M	1/4"	18"
TOL04467	630-6MM	6mm	3"
TOL04468	630-7MM	7mm	3"
TOL02854	630-5/16M	5/16"	3"
TOL02471	646-5/16M	5/16"	6"
TOL02634	618-5/16M	5/16"	18"
TOL04469	630-8MM	8mm	3"
TOL03510	630-11/32M	11/32"	3"
TOL03514	646-11/32M	11/32"	6"
TOL03079	630-3/8M	3/8"	3"
TOL03021	646-3/8M	3/8"	6"
TOL03105	630-7/16M	7/16"	3"
TOL03106	630-1/2M	1/2"	3"
TOL03512	646-1/2M	1/2"	6"
TOL03513	646-7/16M	7/16"	6"



# Screwdrivers, Nut Drivers & Accessories

## Nut Driver - Hollow Shank

- Standard length for most applications
- Fits over long bolts and studs



Part #	Mfg #	Hex Size	Shank Length	Overall Length
TOL02318	630-3/16	3/16"	3"	6-3/4"
TOL02326	646-3/16	3/16"	6"	9-3/4"
TOL02319	630-1/4	1/4"	3"	6-3/4"
TOL02327	646-1/4	1/4"	6"	9-3/4"
TOL02320	630-5/16	5/16"	3"	6-3/4"
TOL02328	646-5/16	5/16"	6"	9-3/4"
TOL02989	630-10MM	10mm	3"	6-3/4"
TOL02321	630-11/32	11/32"	3"	6-3/4"
TOL02329	646-11/32	11/32"	6"	9-3/4"
TOL02322	630-3/8	3/8"	3"	6-3/4"
TOL02330	646-3/8	3/8"	6"	9-3/4"
TOL02323	630-7/16	7/16"	3"	7-5/16"
TOL02331	646-7/16	7/16"	6"	10-5/16"
TOL02324	630-1/2	1/2"	3"	7-5/16"
TOL02332	646-1/2	1/2"	6"	10-5/16"
TOL03290	630-9/16	9/16"	4"	9-3/8"
TOL02589	646-9/16	9/16"	6"	11-3/8"
TOL02540	630-5/8	5/8"	4"	9-3/8"
TOL02960	646-5/8	5/8"	6"	11-3/8"

## Stubby Nut Driver - 1-1/2" Hollow Shank

- Rare Earth magnetic tip
- Full hollow shank for long bolts or studs
- Meets or exceeds applicable AMSE / ANSI specifications



Part #	Mfg #	Description
TOL02631	610-1/4M	1/4" Magnetic
TOL02453	610M	2-Piece Set, Magnetic
TOL02982	610-1/4	1/4"
TOL02999	610-5/16	5/16"
TOL02632	610-5/16M	5/16" Magnetic

## Cushion Grip Nut Driver Sets

### Magnetic Tip Nut Driver Set - 6" Hollow Shank

- Set contains 1/4" and 5/16"
- Rare Earth magnetic tip
- Handle end is color-coded for easy identification
- Chrome-plated



Part #	Mfg #	Description
TOL02455	646M	1/4" & 5/16" 2-Piece Set

### Stubby Nut Driver Set - 1-1/2" Hollow Shank

- Set contains 1/4" and 5/16"
- Full hollow shank for long bolts or studs
- Meets or exceeds applicable AMSE / ANSI specifications



Part #	Mfg #	Description
TOL02333	610	2-Piece Set

### 2-Piece Magnetic Tip Nut Driver Set - 3" Hollow Shank

- Rare Earth magnetic tip
- Cushion grip handle
- Color-coded handle end
- Internal flanges provide solid, twist-resistant shaft anchor
- Chrome-plated shaft helps prevent corrosion



Part #	Mfg #	Description
TOL02454	630M	1/4" & 5/16" Hex, 6-3/4" OAL, 2-Pc Set, Magnetic



# Screwdrivers, Nut Drivers & Accessories

## 4-Piece Cushion Grip Square Recess Screwdriver Set

- Color-coded handle ends
- Round shanks with square recess tips
- Works on most combination head receptacles, switches, and panel screws
- Includes:
  - #0 Yellow (660)
  - #1 Green (661)
  - #2 Red (662)
  - #3 Black (663)



Part #	Mfg #	Description
TOL03087	85664	4-Piece Cushion-Grip Square Recess Screwdriver Set

## 7-Piece Magnetic Tip Cushion Grip Nut Driver Set - 3" Shaft

- Full hollow shaft for long bolts or studs, with magnetic tip
- Includes:
  - 3/16" Non-hollow shaft (630-3/16M)
  - 1/4" Hollow shaft (630-1/4M)
  - 5/16" Hollow shaft (630-5/16M)
  - 11/32" Hollow shaft (630-11/32M)
  - 3/8" Hollow shaft (630-3/8M)
  - 7/16" Hollow shaft (630-7/16M)
  - 1/2" Hollow shaft (630-1/2M)



Part #	Mfg #	Description
TOL02944	631M	7-Piece Magnetic Tip Cushion Grip Nut Driver Set

## 7-Piece Cushion Grip Nut Driver Set - 3" Shaft

- Includes:
  - 3/16" Hollow shaft (630-3/16)
  - 1/4" Hollow shaft (630-1/4)
  - 5/16" Hollow shaft (630-5/16)
  - 11/32" Hollow shaft (630-11/32)
  - 3/8" Hollow shaft (630-3/8)
  - 7/16" Hollow shaft (630-7/16)
  - 1/2" Hollow shaft (630-1/2)



Part #	Mfg #	Description
TOL02317	631	7-Piece Cushion Grip Nut Driver Set

## 7-Piece Magnetic Tip Cushion Grip Nut Driver Set - 6" Shaft

- Full hollow shaft for long bolts or studs, with magnetic tip
- Includes:
  - 3/16" Non-hollow shaft (646-3/16M)
  - 1/4" Hollow shaft (646-1/4M)
  - 5/16" Hollow shaft (646-5/16M)
  - 11/32" Hollow shaft (646-11/32M)
  - 3/8" Hollow shaft (646-3/8M)
  - 7/16" Hollow shaft (646-7/16M)
  - 1/2" Hollow shaft (646-1/2M)



Part #	Mfg #	Description
TOL02863	647M	7-Piece Magnetic Tip Cushion Grip Nut Driver Set

## 7-Piece Cushion Grip Nut Driver Set - 6" Shaft

- Includes:
  - 3/16" Hollow shaft (646-3/16)
  - 1/4" Hollow shaft (646-1/4)
  - 5/16" Hollow shaft (646-5/16)
  - 11/32" Hollow shaft (646-11/32)
  - 3/8" Hollow shaft (646-3/8)
  - 7/16" Hollow shaft (646-7/16)
  - 1/2" Hollow shaft (646-1/2)



Part #	Mfg #	Description
TOL02325	647	7-Piece Cushion Grip Nut Driver Set

## 7-Piece Metric Cushion-Grip Nut Driver Set - 3" Shaft

- Includes:
  - 5mm Hollow shaft
  - 5.5mm Hollow shaft
  - 6mm Hollow shaft
  - 7mm Hollow shaft
  - 8mm Hollow shaft
  - 9mm Hollow shaft
  - 10mm Hollow shaft



Part #	Mfg #	Description
TOL03020	65160	7-Piece Metric Cushion-Grip Nut Driver Set

# Screwdrivers, Nut Drivers & Accessories

## Cushion Grip Screwdrivers

### Coated Round Shank Screwdriver - Cabinet Tip

- Plastic coated for circuit protection only
- Not insulated
- Special plastic coating resists cutting, cracking and chipping
- Thin coating permits use in confined areas



Part #	Mfg #	Tip Size	Shank Length	Overall Length
TOL03246	620-6	5/16"	6"	10-15/16"
TOL03292	620-8	3/8"	8"	13-7/16"
TOL03293	621-8	3/16"	8"	11-3/4"

### Cushion Grip Spring Tool



Part #	Mfg #	Shaft Length	Overall Length
TOL02981	ST6	6"	9-3/4"

### Demolition Screwdriver - Keystone Tip

- Patented Tip-Ident®
- Internal flanges inside handle
- Heat-treated metal shaft
- Plated metal strike cap
- Meets or exceeds ASME/ANSI specifications
- Made in the USA



Part #	Mfg #	Blade Length	Point Size	Overall Length
TOL03848	602-4DD	4"	1/4"	9"
TOL03849	602-7DD	7"	5/16"	12-3/8"

### Heavy-Duty Round Shank Screwdriver - Cabinet Tip

- Narrow cabinet tip permits blade access where space is limited



Part #	Mfg #	Tip Size	Shank Length	Overall Length
TOL02290	605-4	1/4"	4"	8-11/32"
TOL02626	605-4B	1/4"	4"	8-11/32"
TOL02287	605-6	1/4"	6"	10-11/32"
TOL02790	605-8	1/4"	8"	12-11/32"
TOL02625	605-10	1/4"	10"	14-11/32"

### Heavy-Duty Round Shank Screwdriver - Keystone Tip

- Built to handle the tough jobs with ease
- Hex bolster reinforces shank for hard use and allows wrench assisted turning



Part #	Mfg #	Tip Size	Shank Length	Overall Length
TOL03358	602-3	7/32"	3"	6-3/4"
TOL02293	602-4	1/4"	4"	8-11/32"
TOL02710	602-8	3/8"	8"	13-7/16"
TOL02789	602-12	3/8"	12"	17-7/16"
TOL02285	602-6	5/16"	6"	10-15/16"

### Heavy-Duty Square Shank Screwdriver - Keystone Tip



Part #	Mfg #	Shank Tip	Shank Length	Overall Length
TOL02283	600-4	1/4"	4"	8-11/32"
TOL02292	600-6	5/16"	6"	10-15/16"
TOL02539	600-8	3/8"	8"	13-7/16"
TOL02536	600-12	1/2"	12"	17-7/16"

### Miniature Cushion Grip Screwdriver - Cabinet Tip



Part #	Mfg #	Tip Size	Shank Length	Overall Length
TOL02841	607-3	3/32"	3"	5-3/4"
TOL02842	608-4	1/8"	4"	6-3/4"
TOL03013	608-2	1/8"	2"	4-3/4"
TOL03014	608-3	1/8"	3"	5-3/4"
TOL03015	608-6	1/8"	6"	8-3/4"
TOL02889	608-8	1/8"	8"	10-3/4"
TOL03012	608-10	1/8"	10"	12-3/4"

### Miniature Cushion Grip Screwdriver - Keystone Tip



Part #	Mfg #	Tip Size	Shank Length	Overall Length
TOL02840	606-2	1/16"	2"	4-3/4"



# Screwdrivers, Nut Drivers & Accessories

## Miniature Cushion Grip Screwdriver - Phillips Tip



Part #	Mfg #	Tip Size	Shank Length	Overall Length
TOL02839	604-3	#0	3"	5-3/4"

## Rapi-Driv® Rotary Screwdriver - Cabinet Tip

- Crank action handle



Part #	Mfg #	Shank Tip	Shank Length	Overall Length
TOL03245	670-6	3/16"	6"	9-3/4"

## Rapi-Driv® Rotary Screwdriver - Phillips Tip

- Crank action handle



Part #	Mfg #	Point Size	Shank Length	Overall Length
TOL03667	682-6	#2	6"	9-3/4"

## Rapi-Driv® Rotary Screwdriver - #2 Square-Recess Tip

- Crank action handle



Part #	Mfg #	Point Size	Shank Length	Overall Length
TOL03792	692-6	#2	6"	9-3/4"

## Round Shank Screwdriver - Cabinet Tip

- Narrow cabinet tip permits blade access where space is limited



Part #	Mfg #	Tip Size	Shank Length	Overall Length
TOL02289	601-3	3/16"	3"	6-3/4"
TOL02294	601-4	3/16"	4"	7-3/4"
TOL02295	601-8	3/16"	8"	11-3/4"
TOL03252	601-10	3/16"	10"	13-3/4"
TOL02284	601-6	3/16"	6"	9-3/4"

## Round-Shank Screwdriver - Combo Tip

- Precision-machined tip
- Special heat-treated, premium chrome-plated shafts
- Cushion-grip handle
- Meets or exceeds applicable ASME/ANSI specifications



Part #	Mfg #	Tip Size	Shaft Length	Overall Length
TOL04510	7314	#1	4"	
TOL04511	7324	#2	4"	

## Round Shank Screwdriver - Profilated® Phillips Tip

- Tips are precision-machined to provide a more consistent geometric symmetry than conventional Phillips tip screwdrivers
- Provides accurate fit and torque without slippage
- B Suffix = Wire bending



603-3



603-4B



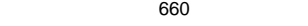
603-7



Part #	Mfg #	Tip Size	Shank Length	Overall Length
TOL02291	603-3	#1	3"	6-3/4"
TOL03911	603-4B	#2	4"	8-5/16"
TOL02412	603-6	#3	6"	11"
TOL02297	603-7	#2	7"	11-5/16"
TOL02623	603-10	#2	10"	14-5/16"
TOL02286	603-4	#2	4"	8-5/16"

## Round Shank Screwdriver - Square-Recess Tip

- Color-coded handle end
- Chrome-plated shank



660



Part #	Mfg #	Point Size	Shank Length	Overall Length
TOL02413	660	#0	4"	7-3/4"
TOL02414	661	#1	4"	7-3/4"
TOL02415	662	#2	4"	8-1/4"
TOL02416	663	#3	4"	8-1/4"
TOL02417	665	#1	8"	11-3/4"
TOL02418	666	#2	8"	12-1/4"
TOL02419	667	#3	8"	12-1/4"

# Screwdrivers, Nut Drivers & Accessories

## Round Shank Screwdriver - TORX® Tip

- Color-coded handle end
- TORX® Tip drive cuts slippage, saves fasteners, and transmits more torque to the work
- Black-oxide shaft for corrosion resistance
- TORX® is a trademark of Camcar Division of Textron, Inc



Part #	Mfg #	Size	Shank Length	Overall Length
TOL02890	19542	T15	4"	8-5/16"
TOL02481	19543	T20	4"	8-5/16"
TOL02662	19544	T25	4"	8-5/16"
TOL02663	19545	T27	4"	8-5/16"
TOL02528	19546	T30	4"	8-5/16"

## Stubby Heavy-Duty Square Shank Screwdriver - Keystone Tip



Part #	Mfg #	Shank Tip	Shank Length	Overall Length
TOL02496	600-1	1/4"	1-1/2"	3-7/16"

## Stubby Round Shank Screwdriver - Profilated® Phillips Tip



Part #	Mfg #	Point Size	Shank Length	Overall Length
TOL02296	603-1	#2	1-1/2"	3-7/16"

## 2-in-1 Interchangeable Rapi-Driv® Screwdriver

- Saves time and effort, especially on long threaded screws used with switch plates and light fixtures
- Crank action handle spins screws fast with one hand
- Interchangeable bit holder for quick switching between tip styles
- Features the most popular tip styles, 3/16" slotted tip and #2 Phillips
- Designed for light duty screwdriving, not intended for high-torque applications



Part #	Mfg #	Shank Length	Overall Length
TOL03787	67100	6"	9-3/4"

## Adjustable Length Screwdriver

- Removable shaft
- Adjustable from 4" to 8"
- Cushion-grip handle
- Made in USA



Part #	Mfg #	Description
TOL04607	32751	#2 Phillips and 1/4" Slotted Drivers

## Electronics Phillips Tip Screwdriver

- Rotating cap for optimum and precise control
- Color coded ring and hot stamped cap marking for quick identification
- Cushion-Grip handle
- Heat-treated precision ground tip for greater strength



Part #	Mfg #	Description
TOL04439	613-3	#0 3" 6-1/2"

## Electronics Cabinet Tip Screwdriver

- Rotating cap for optimum and precise control
- Color coded ring and hot stamped cap marking for quick identification
- Cushion-Grip handle
- Heat-treated precision ground tip for greater strength



Part #	Mfg #	Description
TOL04440	614-2	1/16" 2" 5-1/2"
TOL04441	614-3	3/32" 3" 6-1/2"
TOL04426	614-4	1/8" 4" 7-1/2"
TOL04442	614-6	1/8" 6" 9-1/2"

## Cushion Grip Screwdriver Sets

### 2-Piece Stubby Screwdriver Set

- Heat-treated shafts
- Precision-machined tip
- Chrome-plated
- Includes:
  - (1) Keystone tip
  - (1) Phillips tip



Part #	Mfg #	Description
TOL02624	85071	2-Piece Stubby Screwdriver Set



# Screwdrivers, Nut Drivers & Accessories

## 4-Piece Cushion Grip Electronics Screwdriver Set

- Includes:
  - 1/16" Slotted
  - 3/32" Slotted
  - 1/8" Slotted
  - #0 Phillips



Part #	Mfg #	Description
TOL04141	85613	4-Piece Cushion-Grip Electronics Screwdriver Set

## 4-Piece Mini Cushion Grip Screwdriver Set

- Includes:
  - Phillips tip #0 (604-3)
  - Keystone tip 1/16" (606-2)
  - Cabinet tip 3/32" (607-3)
  - Cabinet tip 1/8" (608-3)



Part #	Mfg #	Description
TOL02945	85484	4-Piece Mini Driver Set

## 5-Piece Cushion Grip Electronics Screwdriver Set

- Rotating caps
- Color-coded rings
- Hot-stamped marking
- Includes (4) slotted tip and (1) phillips tip screwdrivers:
  - 2" (614-2)
  - 3" (614-3)
  - 4" (614-4)
  - 6" (614-6)
  - 3" Phillips (613-3)
  - Carrying case



Part #	Mfg #	Description
TOL03809	85164	5-Piece Electronics Set

## 5-Piece Cushion Grip Screwdriver Set

- Includes:
  - 1/4" Square shank, keystone tip (600-4)
  - 3/16" Round shank, cabinet tip (601-6)
  - 5/16" Round shank, keystone tip (602-6)
  - 4" Round shank No. 2 Phillips tip (603-4)
  - 1/4" Round shank, cabinet tip (605-6)



Part #	Mfg #	Description
TOL02282	85075	5-Piece Set

## 5-Piece Cushion Grip TORX® Screwdriver Set

- Includes:
  - (T15)
  - (T20)
  - (T25)
  - (T27)
  - (T30)



Part #	Mfg #	Description
TOL02856	19555	5-Piece Cushion-Grip TORX® Screwdriver Set

## 6-Piece Cushion Grip Screwdriver Set

- Includes:
  - 1/4" Heavy-duty Keystone tip (600-4)
  - 5/16" Keystone tip (600-6)
  - 3/16" Cabinet tip (601-3)
  - #1 Profilated Phillips tip (603-3)
  - #2 Profilated Phillips tip (603-4)
  - #3 Profilated Phillips tip (603-6)



Part #	Mfg #	Description
TOL03080	85074	6-Piece Set

# Screwdrivers, Nut Drivers & Accessories

## 7-Piece Cushion Grip Screwdriver Set

- Includes:
  - 1/4" Square shank, keystone tip (600-4)
  - 5/16" Round shank, keystone tip (602-6)
  - 3/16" Round shank, cabinet tip (601-3)
  - 3/16" Round shank, cabinet-tip (601-6)
  - 1/4" Round shank, cabinet tip (605-4)
  - 3" Round shank, No. 1 Phillips tip (603-3)
  - 4" Round shank, No. 2 Phillips tip (603-4)



Part #	Mfg #	Description
TOL02288	85076	7-Piece Set

## 8-Piece Cushion Grip Screwdriver Set

- Includes (1) cabinet-tip, (3) keystone-tip, (4) Phillips-tip screwdrivers in styles:
  - (600-1)
  - (601-3)
  - (600-4)
  - (602-6)
  - (603-1)
  - (603-3)
  - (603-4)
  - (603-6)



Part #	Mfg #	Description
TOL02862	85078	8-Piece Set

## Impact Drivers

### Reversible Impact Driver Set with Pouch

- Includes 3/8" square-drive fitting adapter for 5/16" hex bits and (4) assorted hex screwdriver bits
- Internal spring-loaded helical design
- Reversible for tightening or loosening
- High-grade heat-treated alloy steel
- Reclosable seal-tight vinyl pouch with hang-up grommet



Part #	Mfg #	Description
TOL02998	70220	Reversible Impact Driver Set with Pouch

## Multi-Bit Screwdriver/Nut Drivers

- Interchangeable shaft

### Extended-Reach Screwdriver/Nut Driver



Part #	Mfg #	Type	Overall Length	Shank Length
TOL03742	32559	Ext Reach	9"	4.11"
TOL03745	32560	Ext Reach	9.1"	4.11"

### Heavy-Duty Screwdriver/Nut Driver



Part #	Mfg #	Type	Overall Length	Shank Length
TOL03746	32557	Heavy-Duty	7.9"	2.95"

### Ratcheting Screwdriver/Nut Driver



Part #	Mfg #	Type	Overall Length	Shank Length
TOL03741	32558	Ratcheting	8"	2.95"

### Ratcheting Screwdriver Set

- Slotted and phillips tip set



Part #	Mfg #	Description
TOL02498	32473	Ratcheting Screwdriver Set

### Stubby Screwdriver/Nut Driver



Part #	Mfg #	Type	Overall Length	Shank Length
TOL03743	32561	Stubby	3.2"	1.27"
TOL04119	32562	Stubby	3.2"	1.27"

# Screwdrivers, Nut Drivers & Accessories

## Multiple-Application Screwdriver Sets

### 7-Piece Multiple-Application Screwdriver Set

- Includes:
  - (2) Cabinet tip
  - (1) Phillips tip
  - (2) Keystone tip
  - (1) Rotary
  - (1) Screw-holding



Part #	Mfg #	Description
TOL02576	85077	7-Piece Multiple-Application Screwdriver Set

## Offset Screwdrivers

### Slotted-Tip Screwdriver

- Designed for confined hard-to-reach applications
- (2) Tip sizes for added convenience



Part #	Mfg #	Overall Length	Tip Width
TOL02523	VO5	5"	1/4"

## Plastic Handle Hollow Shaft Nut Drivers

### Nut Driver - Magnetic

- Includes a powerful nut-holding magnet



Part #	Mfg #	Handle Color	Hex Size	Overall Length
TOL02350	S86M	Red	1/4"	9-5/8"
TOL02351	S106M	Amber	5/16"	9-5/8"
TOL02348	S8M	Red	1/4"	6-5/8"
TOL02349	S10M	Amber	5/16"	6-5/8"
TOL02573	S126M	Blue	3/8"	9-5/8"
TOL02879	S818M	Red	1/4"	18"
TOL02347	S1018M	Amber	5/16"	21-5/8"

## Nut Driver - 3" Hollow Shaft



- Standard length works for most applications
- Fits over long bolts and studs



Part #	Mfg #	Handle Color	Hex Size	Overall Length
TOL02344	S-8	Red	1/4"	6-5/8"
TOL04472	S-9	Orange	6-5/8"	9/32"
TOL02345	S-10	Amber	5/16"	6-5/8"
TOL03896	S-11	Green	11/32"	6-5/8"
TOL02346	S-12	Blue	3/8"	6-5/8"
TOL03203	S-14	Brown	7/16"	7"

## Nut Driver - 3" Hollow Shaft Metric



- Standard length works for most applications
- Fits over long bolts and studs



Part #	Mfg #	Handle Color	Hex Size	Overall Length
TOL03986	70204	Black	4mm	6-5/8"
TOL03987	70205	Black	5mm	6-5/8"
TOL03988	70245	Black	4.5mm	6-5/8"
TOL03989	70255	Black	5.5mm	6-5/8"
TOL03990	70206	Black	6mm	6-5/8"
TOL03991	70207	Black	7mm	6-5/8"
TOL03992	70208	Black	8mm	6-5/8"
TOL03993	70209	Black	9mm	6-5/8"
TOL03994	70210	Black	10mm	7"
TOL03995	70211	Black	11mm	7"



# Screwdrivers, Nut Drivers & Accessories

## Nut Driver - 6" Shank



- Smooth comfordome handles fit the palm of the hand comfortably
- Handles are color-coded for easy identification
- Hollow shafts facilitate work on stacked circuit boards or other long bolt applications
- Chrome-plated shaft helps prevent corrosion
- Internal flanges provide solid, twist-resistant shaft anchor
- Reaches into deep recesses
- Fits over extra-long bolts and studs
- Meets or exceeds applicable ASME/ANSI specifications



Part #	Mfg #	Handle Color	Hex Size	Overall Length
TOL02335	S66	Black	3/16"	9-5/8"
TOL02336	S86	Red	1/4"	9-5/8"
TOL02337	S106	Amber	5/16"	9-5/8"
TOL02338	S116	Green	11/32"	9-5/8"
TOL02339	S126	Blue	3/8"	9-5/8"
TOL02340	S146	Brown	7/16"	10"
TOL02341	S166	Red	1/2"	10"

## Stubby Nut Driver- 1-1/4" Shaft



Part #	Mfg #	Handle Color	Hex Size	Overall Length
TOL02342	SS8	Amber	1/4"	3-3/4"
TOL02343	SS10	Amber	5/16"	3-3/4"
TOL03895	SS12	Amber	3/8"	3-3/4"

## Plastic Handle Hollow Shaft Nut Driver Sets

### 7-Piece 3" Shaft Nut Driver Set in Plastic Pouch

- In reclosable heavy vinyl, seal tight hang-up pouch



Part #	Mfg #	Sizes
TOL02814	89004	3/16" - 1/2"

### 7-Piece 3" Shaft Nut Driver Set in Vinyl Pouch

- Vinyl pouch hangs up, rolls up, and stands up



Part #	Mfg #	Sizes
TOL02969	K7	3/16" - 1/2"

### 7-Piece 6" Shaft Nut Driver Set

- Chrome-plated, hollow shank



Part #	Mfg #	Sizes
TOL02334	89904	3/16" - 1/2"

## Plastic Handle Screwdrivers

### Journeyman™ Screwdriver - Cabinet Tip



Part #	Mfg #	Shank Tip	Shank Length	Overall Length
TOL03170	JSD4C06	3/16"	4"	8-1/4"
TOL03174	JSD6C06	3/16"	6"	10-1/4"

### Journeyman™ Screwdriver - Keystone Tip



Part #	Mfg #	Shank Tip	Shank Length	Overall Length
TOL03171	JSD4K08	1/4"	4"	9"
TOL03175	JSD6K09	5/16"	6"	11"

# Screwdrivers, Nut Drivers & Accessories

## Journeyman™ Screwdriver - Phillips Tip



**JOURNEYMAN**

Part #	Mfg #	Shank Tip	Shank Length	Overall Length
TOL03172	JSD4PH1	#1	4"	8-1/4"
TOL03173	JSD4PH2	#2	4"	9"
TOL03176	JSD6PH3	#3	6"	11"

## Round Shank Screwdriver - Cabinet Tip



Part #	Mfg #	Shank Tip	Shank Length	Overall Length
TOL02552	A216-3	1/8"	3"	6"
TOL02309	A216-4	1/8"	4"	7"
TOL02310	A216-6	1/8"	6"	9"
TOL02439	A216-8	1/8"	8"	11"
TOL02765	A216-10	1/8"	10"	13"
TOL02311	A316-4	3/16"	4"	7-5/8"
TOL02312	A316-6	3/16"	6"	9-5/8"
TOL02967	A316-8	3/16"	8"	11-5/8"

## Round Shank Screwdriver - Keystone Tip



Part #	Mfg #	Shank Tip	Shank Length	Overall Length
TOL02307	BD144	1/4"	4"	8-1/2"
TOL02308	BD146	1/4"	6"	10-1/2"

## Square Shank Screwdriver - Keystone Tip



Part #	Mfg #	Shank Tip	Shank Length	Overall Length
TOL02305	BD284	1/4"	4"	8-1/2"
TOL02306	BD308	5/16"	8"	13-1/16"

## Round Shank Profilated Screwdriver - Phillips Tip



Part #	Mfg #	Point Size	Shank Length	Overall Length
TOL02313	BD111	#1	3"	6-5/8"
TOL02314	BD122	#2	4"	8-1/2"

## Pocket Clip Round Shank Screwdriver - Keystone Tip



Part #	Mfg #	Shank Tip	Shank Length	Overall Length
TOL03904	A116-4	3/32"	4"	6-7/16"
TOL02304	A130-3	1/8"	2"	4-7/8"
TOL02870	A010	3/32"	1-3/8"	3-1/4"

## Pocket Clip Round Shank Screwdriver - #0 Phillips Tip



Part #	Mfg #	Shank Tip	Shank Length	Overall Length
TOL03551	P12	1/8"	2-1/2"	5"

## Pocket-Clip Round Shank Screwdriver - Cabinet Tip



Part #	Mfg #	Shank Tip	Shank Length	Overall Length
TOL02628	A130-2	1/8"	2"	3-7/8"
TOL02966	A1312	1/8"	2"	4-7/16"
TOL03890	A116-2	3/32"	2"	4-7/16"
TOL02627	A116-3	3/32"	3"	5-7/16"

## Midget Screwdriver - Keystone Tip

- Amber handle
- Nickel-chrome



Part #	Mfg #	Shank Tip	Shank Length	Overall Length
TOL02645	A000	3/32"	1-1/2"	2-7/8"

# Screwdrivers, Nut Drivers & Accessories

## Plastic Handle Screwdriver Sets

### Magnetic Screwdriver Set

- Powerful magnet built into shank
- Comfortable handle with interchangeable bits stored inside



Part #	Mfg #	Description
TOL02545	70035	3/16" and 9/32" Slotted and #1 & #2 Phillips

### 5-Piece Journeyman™ Screwdriver Set

- Includes:
  - (JSD6C06)
  - (JSD4K08)
  - (JSD6K09)
  - (JSD4PH1)
  - (JSD4PH2)



Part #	Mfg #	Description
TOL03177	JSDS01	5-Piece Screwdriver Set

## Screwdriver/Nut Driver Combinations

### Cushion Grip 10-in-1 Screwdriver/Nut Driver

- End of handle is marked to quickly identify tool
- Includes:
  - 5/16" and 1/4" Nut drivers
  - #1 and #2 Phillips
  - 1/4" and 3/16" Slotted
  - #10 and #15 TORX®
  - #1 and #2 Square-recess
- Cushion grip handle



Part #	Mfg #	Description
TOL02299	32477-12	10-in-1 Screwdriver/Nut Driver with Cushioned Hdl

## Double-Ended Hex Screwdriver Replacement Bit

- Fits 2-in-1 (67100), 10-in-1 (32477), 11-in-1 (32500), and 10-Fold (32535-32539) screwdrivers
- Precision-machined tips
- Contains (2) bits



Part #	Mfg #	Description
TOL04090	32547	3/32" Hex and 7/64" Hex
TOL04091	32548	5/32" Hex and 3/16" Hex
TOL04092	32549	1/16" Hex and 5/64" Hex
TOL04093	32550	1/8" Hex and 9/64" Hex
TOL04094	32551	.9mm Hex and 1.3mm Hex
TOL04095	32552	1.5mm Hex and 2mm Hex
TOL04096	32553	2.5mm Hex and 3mm Hex
TOL04097	32554	4mm Hex and 5mm Hex

## Extended Blade Barrel Replacement

- Fits extended-reach multi-bit screwdrivers and nut drivers (32559 and 32560)
- Precision machined



Part #	Mfg #	Description
TOL04069	32395	Blade Barrel Replacement

## Heavy-Duty Main Barrel Replacement

- Fits heavy-duty (32557) and ratcheting (32558) multi-bit screwdrivers and nut drivers
- Precision-machined



Part #	Mfg #	Description
TOL04067	32392	Main Barrel Replacement

## Heavy-Duty Secondary Blade Barrel Replacement

- Fits heavy-duty (32557) and ratcheting (32558) multi-bit screwdrivers and nut drivers
- Precision-machined
- Contains (2) units



Part #	Mfg #	Description
TOL04068	32394	Secondary Blade Barrel Replacement



# Screwdrivers, Nut Drivers & Accessories

## Magnetic Screwdriver Replacement Bit



Part #	Mfg #	Description
TOL03164	4H1P2	#2 Phillips Bit

## Magnetic Screwdriver with 32-Piece Bit Set

- Non-ratcheting screwdriver
- Tamperproof bit set in block includes:
  - TORX® - T7, T8, T10, T15, T20, T25, T27, T30, and T40
  - Fraction Hex - 3/32" 7/64", 1/8", 9/64", 5/32", and 3/16"
  - Metric Hex - 2mm, 2.5mm, 3mm, 4mm, and 5mm
  - Spanner - 4, 6, 8, and 10
  - Tri-Wing® - 1, 2, 3, and 4
  - TORQ-SET® - 6, 8, and 10
  - 1/4" Square to 1/4" hex adapter to drive sockets
- Cushion grip handle



Part #	Mfg #	Description
TOL03150	32510	Screwdriver w/32-Pc Bit Set

## Replacement Bit for 10-in-1

- Replacement bits for 10-in-1 No. 32477



Part #	Mfg #	Description
TOL02300	32482	#1 Phillips - 3/16" Slotted
TOL02302	32484	#1 Square - #2 Square
TOL02303	32485	#10 Torx® - #15 Torx®
TOL02301	32483	#2 Phillips - 1/4" Slotted
TOL04509	32752	#1 Combo - #2 Combo

## Screwdriver Replacement Bit Set

- 1/4" Hex bits
- Fits replaceable-bit screwdrivers and other sockets that accept 1/4" hex bits
- Includes: TORX® tips: T15, T20, T25, T27, and T30



70432 (Single Bit Image)



70036

Part #	Mfg #	Description
TOL02461	70432	For Tools Using 1/4" Hex Bits
TOL03760	70036	For Tools Using 1/4" Hex Bits
TOL03770	70283	For Tools Using 1/4" Hex Bits

## Screwdriver & Nut Driver Replacement Bit



322399



32398

Part #	Mfg #	Description
TOL04071	32397	#2 Phillips and #1 Square for 32557 or 32558
TOL04072	32398	#1 Phillips and 1/4" Slotted for 32557, 32558, or 32561
TOL04073	32399	#2 Square and 3/16" Slotted for 32557 or 32558
TOL04074	32400	#2 Phillips and #1 Phillips for 32559
TOL04075	32401	3/16" Slotted and 1/4" Slotted for 32559
TOL04076	32410	#2 Square and #2 Phillips for 32560
TOL04077	32411	#1 Square and 1/4" Slotted for 32560
TOL04078	32412	#2 Phillips and 3/16" Slotted for 32561
TOL02687	32478	#1 Phillips and 3/16" Slotted for 32476 and 32460
TOL02688	32479	#2 Phillips and 9/32" Slotted for 32476 and 32460
TOL03932	32397	#2 Phillips and #1 Square for 32557 or 32558
TOL04573	32528	Valve Core Removal/Installation - Extractor

## Stubby Blade Barrel Replacement

- Fits stubby multi-bit screwdriver and nut driver (32561)
- Precision machined



Part #	Mfg #	Description
TOL04070	32396	Blade Barrel Replacement

## Tamperproof TORX® Replacement Bit



- Fits the following screwdrivers:
  - 2-in-1 (67100)
  - 10-in-1 (32477)
  - 11-in-1 (32500)
  - 10-Fold (32535-32539)
- Contains (2) bits



Part #	Mfg #	Description
TOL04083	32540	TT7 and TT8
TOL04084	32541	TT9 and TT10
TOL04085	32542	TT15 and TT20
TOL04086	32543	TT25 and TT27

# Screwdrivers, Nut Drivers & Accessories

## TORX® Double-Ended Replacement Bit



- Fits 2-in-1 (67100), 10-in-1 (32477), 11-in-1 (32500), and 10-Fold (32535-32539) screwdrivers
- Precision-machined tips
- Contains (2) bits



Part #	Mfg #	Description
TOL04087	32544	#6 and #7 TORX® Bits
TOL04088	32545	#T8 and #10 TORX® Bits
TOL04089	32546	#T25 and #T27 TORX® Bits

## TORX® Screwdriver Replacement Bit



Part #	Mfg #	Description
TOL02684	4HT15	#15 TORX® 1/4" Hex Bit
TOL02685	4HT20	#20 TORX® 1/4" Hex Bit
TOL02686	4HT25	#25 TORX® 1/4" Hex Bit

## 4-in-1 Screwdriver/Nut Driver

- Versatile screwdriver with interchangeable snap-in blades
- Includes:
  - (4) Different tips on (2) reversible blades
  - #1 and #2 Phillips
  - 9/32" and 3/16" Slotted



Part #	Mfg #	Description
TOL02726	32460	4-in-1 Screwdriver/Nut Driver with Plastic Hdl

## 5-in-1 Screwdriver/Nut Driver



- End of handle is marked to quickly identify tool
- Includes
  - 5/16" Nut driver
  - #1 and #2 Phillips
  - 9/32" Slotted and 3/16" slotted



Part #	Mfg #	Description
TOL02579	32476	5-in-1 Screwdriver/Nut Driver
TOL03008	32476-12	5-in-1 Screwdriver/Nut Driver in Counter Display

## 6-in-1 Screwdriver/Nut Driver

- Cushion-grip handle
- Includes:
  - 3/16" and 1/4" Slotted
  - #1 and #2 Phillips
  - 1/4" and 5/16" Nut drivers



Part #	Mfg #	Description
TOL04534	96590	6-In-1 Screwdriver/Nut Driver

## 10-in-1 Screwdriver/Nut Driver

- End of handle is marked to quickly identify tool
- Includes:
  - 5/16" and 1/4" Nut drivers
  - #1 and #2 Phillips
  - 1/4" and 3/16" Slotted
  - #10 and #15 TORX®
  - #1 and #2 Square-recess
- Cushion grip handle



Part #	Mfg #	Description
TOL02298	32477	10-in-1 Screwdriver/Nut Driver

## 10-Fold™ 10-in-1 Screwdriver/Nut Driver

- Folding pocket-style 10-in-1 tool with interchangeable bits - 8 screwdriver sizes and 2 nut drivers
- Unfolds and locks at a 180° angle to provide a straight screwdriver
- Blast finish steel bits provide a firm hold to the fastener to reduce cam-out
- Contains:
  - 5/16" and 1/4" Nut drivers
  - #1 and #2 Phillips
  - 1/4" and 3/16" Slotted
  - T10 and T15 TORX
  - #1 and #2 Square-recess



Part #	Mfg #	Description
TOL03397	32535	10-Blade Folding Screwdriver



# Screwdrivers, Nut Drivers & Accessories

## 10-Fold™ Fractional Hex Screwdriver/Nut Driver

- Folding pocket-style 10-in-1 tool with interchangeable bits - 8 screwdriver sizes and 2 nut drivers
- Unfolds and locks at 180° to provide a straight screwdriver
- Blast finished steel bits provide a firm hold to the fastener to reduce cam-out
- Contains:
  - 5/16" & 1/4" Nut drivers
  - 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", and 3/16" Standard hex



Part #	Mfg #	Description
TOL03382	32538	10 Blade Fractional Hex Folding Screwdriver

## 10-Fold™ Screwdriver/Nut Driver with Schrader® Valve Core Tool

- Unfold each driver arm up to a full 180 degrees for straight on driving power, or at 90 degrees for extra leverage on stubborn fasteners
- Each arm contains four interchangeable bit-styles and two nut drivers
- Contains:
  - 5/16" and 1/4" Nut drivers
  - #1 and #2 Phillips
  - 1/4" and 3/16" Slotted
  - Schrader® valve core removal/installation-extractor
  - #1 and #2 Square-recess



Part #	Mfg #	Description
TOL03808	32534	10-In-1 Screwdriver/Nut Driver Schrader Valve Core

## 10-Fold™ Metric Hex Screwdriver & Nut Driver

- Folding pocket-style 10-in-1 tool with interchangeable bits
- Locks at 180° angle to provide a straight screwdriver
- Blast finished steel
- Contains:
  - 5/16" and 1/4" Nut drivers
  - .9mm, 1.3mm, 1.5mm, 2mm, 2.5mm, 3mm, 4mm, and 5mm Hex



Part #	Mfg #	Description
TOL03762	32539	10-In-1 Screwdriver & Nut Driver

## 11-in-1 Screwdriver/Nut Driver

- End of handle is marked to quickly identify tool
- Includes:
  - 3/8", 5/16" and 1/4" Nut drivers
  - #1 and #2 Phillips
  - 1/4" and 3/16" Slotted
  - #10 and #15 TORX®
  - #1 and #2 Square-recess
- Cushion grip handle



Part #	Mfg #	Description
TOL03107	32500	11-in-1 Screwdriver/Nut Driver

## 11-in-1 Screwdriver/Nut Driver with Valve Removal/Installation Bit

- Includes a TR-4 Schrader® valve core installation/removal and core extractor bit
- End of handle is marked to quickly identify tool
- Includes:
  - 3/8", 5/16" & 1/4" Nut drivers
  - #1 & #2 Phillips
  - 1/4" & 3/16" Slotted
  - #1 & #2 Square
  - Schrader valve core removal/installation - extractor
- Cushion grip handle



Part #	Mfg #	Description
TOL03379	32527	11-in-1 Screwdriver/Nut Driver w/Schrader Valve Core Tool

## 11-in-1 Screwdriver with Combo Tips

- Cushion-grip handle
- Includes:
  - (2) Combo tips: #1 and #2
  - (2) Phillips tips: #1 and #2
  - (2) Square tips: #1 and #2
  - (2) Slotted tips: 3/16" and 1/4"
  - (3) Nut drivers: 1/4", 5/16" and 3/8"



Part #	Mfg #	Shaft Length	Overall Length
TOL04508	32505	3"	8"

# Screwdrivers, Nut Drivers & Accessories

## Screw-Holding Screwdrivers

- Starts and drives screws with one hand
- Cushion-Grip non-slip handle

### Phillips



Part #	Mfg #	Hex Size	Shank Length	Overall Length
TOL03698	32216	#2 Phillips	7"	11-1/4"

### Phillips Tip Internal

- Blade separates to hold the screw
- Not designed for torquing or tightening



Part #	Mfg #	Overall Length
TOL03892	K14	5"
TOL02629	K16	7"
TOL03526	K19	9"

### Slotted Flat



Part #	Mfg #	Hex Size	Shank Length	Overall Length
TOL03697	32215	1/4"	7"	11-1/4"

### Slotted Screw-Holding Screwdriver



Part #	Mfg #	Shank Tip	Shank Length	Overall Length
TOL03893	K21	1/16"	3"	5-1/4"
TOL03894	K23	3/16"	3"	5-1/4"
TOL03295	K34	1/4"	4"	7-3/4"
TOL02315	K36	1/4"	6"	9-3/4"
TOL02316	K38	1/4"	8"	11-3/4"
TOL02564	K46	5/16"	6"	10-1/4"

## Screw-Holding Screwdriver Sets

### 3-Piece Slotted Screw-Holding Screwdriver Set

- Reclosable seal-tight vinyl pouch with hanging grommet
- Not designed for torquing or tightening
- Includes:
  - K23
  - K34
  - K46



Part #	Mfg #	Description
TOL03406	SK234	3-Piece Slotted Screw-Holding Screwdriver Set

## Terminal Block Screwdrivers

- Precision machined tip provides exact fit for terminal block screws
- Tip is up to 19% stronger than competitors
- Tip provides 76% higher torque value than the required ASME B107 Standard
- Cushion-Grip handle offers greater torque comfort



### Terminal Block Screwdriver

- Precision machined tip provides exact fit for terminal block screws
- Tip is up to 19% stronger than competitors
- Tip provides 76% higher torque value than the required ASME B107 Standard



Part #	Mfg #	Shank Tip	Shank Length	Overall Length
TOL03744	612-4	1/8"	4"	7-3/4"

## Torque Screwdriver Sets

### Torque Screwdriver Set

- Form-fitting storage box



Part #	Mfg #	Description
TOL02499	57034	Torque Screwdriver Set



# Screwdrivers, Nut Drivers & Accessories

## Replacement Bit Holder

- Works with all Klein Tools 10-in-1, 11-in-1, and 10-fold screwdrivers



Part #	Mfg #	Description
TOL04098	32556	Interchangeable Screwdriver Replacement Bit Holder, 2 Pc

## Multi-Bit Sets

### 32-Piece Standard Tip Bit Set

- Chrome-plated
- Internal flanges
- Heat-treated shaft
- Precision-machined tip
- Patented Tip-Ident® quickly identifies the screwdriver type and tip orientation
- PVC Black block for storage
- Block slides over most screwdriver shafts for easy bit access and installation
- Industrial strength, heat-treated bits
- Includes:
  - Hex bits: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32" and 3/16"
  - Phillips bits: #0, #1, #2, and #3
  - Square recess bits: #1, #2 and #3
  - TORX® bits: T6, T7, T8, T10, T15, T20 and T25
  - Slotted bits: 3-4, 5-6, 6-8, 8-10, 10-12, and 12-14
  - Clutch bits: 5/32" and 3/16"
  - 1/4" Square to 1/4" hex adapter to drive sockets



Part #	Mfg #	Description
TOL03151	32526	32-Piece Bit Set

### 32-Piece Tamper-Proof Bit Set

- Gray PVC block
- Block slides over most screwdriver shafts for access and storage
- Industrial strength, heat-treated steel
- Includes:
  - TORX® bits: T7, T8, T10, T15, T20, T25, T27, T30, and T40
  - Fraction hex bits: 3/32", 7/64", 1/8", 9/64", 5/32", and 3/16"
  - Metrix hex bits: 2mm, 2.5mm, 3mm, 4mm, and 5mm
  - Spanner bits: 4, 6, 8, and 10
  - Tri-Wing® bits: 1, 2, 3, and 4
  - TORQ-SET® bits: 6, 8, and 10
  - 1/4" Square to 1/4" hex adapter to drive sockets



Part #	Mfg #	Description
TOL03152	32525	32-Piece Tamper-Proof Bit Set

## Scratch Awls

### Cushion Grip Scratch Awl



Part #	Mfg #	Blade Length	Overall Length
TOL02352	650	3-1/2"	7-7/8"

### Steel Scratch Awl



- 1-Piece forged steel blade and bolstered shank
- Heat treated for long life
- Well-balanced for top efficiency during use
- Black finish for rust resistance

Part #	Mfg #	Blade Length	Overall Length
TOL02718	66385	3-1/2"	7"



# Screwdrivers, Nut Drivers & Accessories

## Tapping Tools

### 6-in-1 Tapping Tool - Reversible Holder

- Each tap size rethreads to next larger size if threads are stripped
- (2) High carbon steel taps are secured in reversible holder



626



627-20



Part #	Mfg #	Tap Sizes
TOL02947	626	7-5/8" Cushion Grip Tap
TOL02630	627-20	7-1/2" Tap

### Replacement Tap



Part #	Mfg #	Description
TOL02995	626-32	Replacement Tap for 625-32
TOL02996	628-20	Replacement Tap For 627-20



# Sheet Metal Tools/HVAC

## Hammers

### Dead Blow Hammer

- Non-marring
- Less rebound than regular hammers
- Applications: HVAC, metal fabrication, electronics, oil and mining, wood and metal assembly, automotive, aerospace



Part #	Mfg #	Head Weight
TOL03708	811-16	16 oz
TOL03707	811-32	32 oz

### Riveting Hammer

- High-carbon steel round head
- Stained and laquered straight-grain American hickory handle
- Flat striking surface with rounded cross peen



Part #	Mfg #	Head Weight	Length
TOL03069	821-12	12 oz	12-1/4"

### Setting Hammer

- Double epoxy resin handle
- High-strength fiberglass shaft
- Cushioned PVC grip
- High-carbon steel, octagon shaped head
- Flat striking surface with rounded cross peen



Part #	Mfg #	Head Weight	Length
TOL03068	820-16	16 oz	13"

## Ratcheting Box Wrenches

### Fully Reversible Ratcheting Refrigeration Wrench

- Fully reversible ratchet wrenches designed for refrigeration packing gland nuts and valve stem sockets
- Also designed for beam clamp installation
- Wrenches are compact in size, with clearly marked sockets for four nut sizes



Part #	Mfg #	Socket Sizes
TOL02358	68310	3/16" & 5/16" Square x 1/4" & 3/8" Square

## Magnetic Hex Drivers

- For driving sheet metal screws
- Strong rare earth magnets for maximum holding
- 1/4" Hex shank with quick release groove
- 1-3/4" Overall length



Part #	Mfg #	Size	Qty
TOL03452	86600	1/4"	3/Pk
TOL03453	86601	5/16"	3/Pk
TOL03454	86602	3/8"	3/Pk
TOL03462	8660010	1/4"	10/Pk
TOL03463	8660110	5/16"	10/Pk
TOL03464	8660210	3/8"	10/Pk

## Nylon Tie Tensioning Tools

### Manual Nylon Tie Tensioning Tool

- Tensions up to 65 lbs
- Maximum tie width of 15/32"



Part #	Mfg #	Description
TOL03451	86570	Nylon Tie Tensioning Tool

# Sheet Metal Tools/HVAC

## Nylon Tie Tensioning Tool with Auto-Cutoff

- Excess tie material is automatically cut-off
- Tensions up to 65 lbs
- Maximum tie width of 15/32"
- Designed to work with ties rated at 120 to 250 lbs



Part #	Mfg #	Description
TOL03450	86571	Nylon Tie Tensioning Tool

## Punches

### Professional 6-in-1 Swaging Punch

- Hex design for ease of extraction
- Precision machined surface for ease of forming
- Heat-treated high alloy steel
- Swages 3/16", 1/4", 5/16", 3/8", 1/2", 5/8" tubing



Part #	Mfg #	OAL
TOL03827	66400	5-3/16"

## Duct Tools

### Folding Tool

- (2) Folding depths:
  - 3/8" (10mm)
  - 1" (925mm)
- Handy sight gauges
- Made of heavy-duty 16 gauge steel



Part #	Mfg #	Description
TOL03060	88980	12" Long
TOL03061	88981	18" Long
TOL03062	88982	24" Long

### Duct Slitting Tool

- Blade used to scribe a line or pierce and enlarge holes in sheet metal
- Cushion grip handle
- Patented Tip-Ident® identifies type of tool and orientation



Part #	Mfg #	Size
TOL03063	DS7	12-5/8" OAL

## Duct Stretcher

- Aligns and pulls ductwork together, easing installation of drive cleats
- Offset handle protects hand



Part #	Mfg #	OAL
TOL03072	89565	16"

## Tube Benders

### Professional 4-in-1 Tube Bender

- Calibrated markings for accurate left-hand, right-hand and offset bends up to 90°
- For soft copper, aluminum and steel tubing
- Bends 3/16", 1/4", 5/16" and 3/8" tubing



Part #	Mfg #	OAL
TOL04159	89030	10"

## Crimpers

### 5-Blade Crimper

- All steel construction and nickel-plating
- Produces indentations in stove pipe and round duct
- Crimps 24 gauge CRSM and 24 gauge SSSM



Part #	Mfg #	Handle Color	Length
TOL02646	86550	Blue	9"

## Duct Knives

### Serrated Duct Knife

- Cuts duct board and flexible duct
- Double-edged knife-regular and serrated
- Puncture resistant nylon sheath with belt loop



Part #	Mfg #	Description
TOL03448	DK06	5-1/2" Long



# Sheet Metal Tools/HVAC

## Cutting & Notching Snips

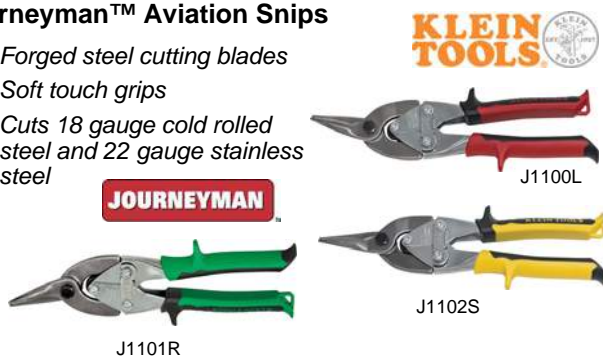
### Aviation Snips



Part #	Mfg #	Overall Length	Cutting Pattern	Color Code
TOL02393	1100L	9-3/4"	Left	Red
TOL02664	1101R	9-3/4"	Right	Green
TOL02510	1102S	10-1/8"	Straight	Yellow
TOL02650	2100L	9-1/2"	Offset Left	Red
TOL02651	2101R	9-1/2"	Offset Right	Green
TOL02652	2102S	9-1/2"	Offset Strt	Yellow
TOL02635	2103	9-1/4"	Notch	Yellow

### Journeyman™ Aviation Snips

- Forged steel cutting blades
- Soft touch grips
- Cuts 18 gauge cold rolled steel and 22 gauge stainless steel



Part #	Mfg #	Overall Length	Cutting Pattern	Color Code
TOL03344	J1100L	9-7/8"	Left	Red/Blk
TOL03345	J1101R	9-7/8"	Right	Grn/Blk
TOL03346	J1102S	10-1/16"	Straight Wide Curves	Yel/Blk

### Journeyman™ Bulldog Snip

- Soft touch grips
- Klein Kurve® handles



Part #	Mfg #	Overall Length	Cutting Pattern	Color Code
TOL03350	J2103S	9-7/16"	Notch/ Straight	Yel/Blk

### Journeyman™ Offset Snip

- Klein Kurve® handles
- Soft touch grips



Part #	Mfg #	Overall Length	Cutting Pattern	Color Code
TOL03347	J2100L	9-1/2"	Left/Strt	Red/Blk
TOL03348	J2101R	9-1/2"	Right/Strt	Grn/Blk
TOL03349	J2102S	9-1/2"	Straight	Yel/Blk
TOL03370	J2106S	10-1/2"	Straight Long Blade	Yel/Blk

### Journeyman™ Upright Snip

- Soft touch grips
- Klein Kurve® handles
- Cuts curves, tight circles and straight



Part #	Mfg #	Overall Length	Cutting Pattern	Color Code
TOL03351	J2104L	7-15/16"	Left	Red/Blk
TOL03352	J2105R	7-15/16"	Right	Grn/Blk

# Sheet Metal Tools/HVAC

## Notching Tools

### Hand Notcher

- Creates 30° "V"-shaped cuts in sheet metal
- Forged, high impact steel jaw with 13/16" maximum throat depth
- All steel construction with nickel-plate and black-oxide finish



Part #	Mfg #	Handle Color	Length
TOL02647	86551	Blue	8-1/2"

### Nibbler Tool

- Cuts up to 18 gauge soft sheet metal, soft copper and aluminum up to 1/16", and tubing from a 1" ID
- Ideal for HVAC installation, automobile work, model making, and sheet metal construction



Part #	Mfg #	Description
TOL02673	76011B	Nibbler with Blade

### Nibbler Tool Replacement Blade

- For 76011B nibbler tool
- Cuts up to 18 gauge soft sheet metal, soft copper, and aluminum up to 1/16", and tubing from a 1" ID



Part #	Mfg #	Description
TOL03073	76012B	Nibbler Tool Replacement Blade

### Snap Lock Punch

- Compound-leverage mechanism for greater control and easy operation
- Drop-forged steel jaw easily punches 3/8" (9.5 mm) wide impressions on metal edges to easily join pieces of sheet metal, duct, or pipe
- All-steel construction and nickel-chrome plated hardware provide long life and durability
- Vinyl grips with handle stops for added comfort and easy operation



Part #	Mfg #	Handle Color	Length
TOL03066	86560	Blue	8"

### Tinner Snip

- 6" Angled, hollow-ground cutting edge for cutting full 3-1/2" (89 mm) straight cuts and wide curves
- Easily replaceable cutting blades made of high-carbon steel
- Cutting capacity:
  - 22 Gauge cold-rolled sheet metal
  - 26 Gauge stainless steel sheet metal
- Not for use on hardened wire, nails, or any other rounded surface
- Lightweight magnesium handles



Part #	Mfg #	Handle Color	Length
TOL03058	3100	Gray	13"

### Tinner Snip Replacement Blade Kit

- High-carbon steel
- Cutting capacity: 22 gauge cold-rolled sheet metal and 27 gauge stainless steel sheet metal
- Includes:
  - (2) Blades
  - (1) 5/16" Center pivot nut
  - (4) 12-32 Phillips head screws with nuts



Part #	Mfg #	Description
TOL03059	3101	Replacement Blade Kit

Tools



# Sheet Metal Tools/HVAC

## Seamers

### Offset Hand Seamer

- Compound-leverage mechanism easily bends, seams and flattens sheet metal
- For use in overhead and confined areas
- Broader jaw model for forming wider folds
- Folds 22 gauge CRSM and 24 gauge. SSSM
- Jaw marked in 1-4" (6 mm) increments for precise bending measurements
- Heavy-duty jaw/handle linkage for durability and easy operation
- All steel construction and nickel chrome plated hardware
- Vinyl grips with handle stops



**KLEIN TOOLS**

Part #	Mfg #	Handle Color	Length
TOL02648	86552	Blue	8"

### Offset Seamer Tong

- Hot drop-forged
- Bending depth indicators marked in 1/4" increments
- Bends 22 gauge CRSM
- Cushioned handles



**KLEIN TOOLS**

Part #	Mfg #	Handle Color	Length
TOL03064	86554	Red	9-3/4"

### Straight Hand Seamer - 3-1/4" Jaw

- For bending and flattening sheet and non-ferrous metals
- 3-1/4" Wide forged, high impact steel jaws are marked in 1/4" increments
- All steel construction and nickel-plated



**KLEIN TOOLS**

Part #	Mfg #	Handle Color	Length
TOL02649	86553	Blue	8-3/8"

### Straight Hand Seamer - 6" Jaw

- Bends, seams and flattens sheet metal and non-ferrous metals
- Folds 22 gauge CRSM and 24 gauge SSSM
- Heavy-duty jaw/handle linkage
- Jaw marked in 1/4" increments for precise bending measurements
- Broader jaw for forming wider folds
- All steel construction and nickel-chrome plated hardware
- Vinyl grips with handle stops



**KLEIN TOOLS**

Part #	Mfg #	Handle Color	Length
TOL03067	86556	Blue	8-3/8"

### Straight Seamer Tong

- Hot drop-forged
- Bending depth indicators marked in 1/4" increments
- Bends 22 gauge CRSM
- Cushioned handles



**KLEIN TOOLS**

Part #	Mfg #	Handle Color	Length
TOL03065	86555	Red	9-3/4"

# Steel Construction Tools

## Connecting Bars

### Hex Bar

- 15° Angle chisel-end



Part #	Mfg #	Diameter	Length
TOL03676	3242	3/4"	30"
TOL03300	3243	7/8"	36"
TOL02973	3244	3/4"	24"

### Round Connecting Bar

- 15° Angle chisel-end
- Forged fit up bar is pointed on one end



Part #	Mfg #	Diameter	Length
TOL02483	3245	3/4"	30"
TOL03259	3246	7/8"	36"
TOL03260	3247	3/4"	24"

## Ripping Bars

### Grizzly Bar

- Forged and hardened alloy blade
- Keyhole nail pulling slot and V-notch with tapered edge
- 3" Wide



Part #	Mfg #	Overall Length
TOL02732	64306	55-1/2"

## Tie-Wire Reel

- Designed for left or right hand use
- Optional accessory rigging leather belt and hip pad available separately
- Easily removed cover plate permits quick, convenient reloading



Part #	Mfg #	Size Dia x W
TOL04453	27400	6-1/4" x 2-15/16"



# Strippers, Cutters & Crimpers

## Cable Cutters

### Crimping/Cutting Tool - Non-Insulated Terminal

- Designed for crimping non-insulated solderless terminals and connectors
- Specially hardened wire cutter in nose
- Tapered nose design
- Plastic-dipped cushioned handles
- Crimps 10 to 22 AWG



Part #	Mfg #	Handle Color	Length
TOL02281	1006	Black	9-3/4"

## Crimping & Cutting Combination Tools

### Crimping/Cutting Tool - Non-Insulated/Insulated Terminal

- Designed to crimp insulated and non-insulated 10 to 22 AWG solderless terminals and connectors
- Tapered nose design
- Specially hardened cutter
- Hot-riveted joint



Part #	Mfg #	Handle Color	Length
TOL02280	1005	Red	9-3/4"

### Journeyman™ Crimping/Cutting Tool - Non-Insulated/Insulated Terminal

- Designed to crimp insulated and non-insulated 10 to 22 AWG solderless terminals and connectors
- Dual material handles
- Tapered nose design
- Specially hardened cutter
- Hot-riveted joint



Part #	Mfg #	Handle Color	Length
TOL02585	J1005	Red/Black	9-3/4"

## Wire Stripping & Cutting Tools

### Adjustable Wire Stripper - Solid and Stranded

- Dial a wire size for fast, easy stripping
- Wire gauge dial sets stripping dies to proper size
- Spring-loaded design
- 5-1/8" Overall length



Part #	Mfg #	Description
TOL03239	74007	12 - 24 AWG Solid & Stranded

### All Purpose 6-in-1 Tool

- Cleanly shears bolts
- Easily cuts and strips wire
- Measures stud sizes
- Gauges wire sizes
- Crimps insulated terminals
- Blue plastic covered cushioned handles



Part #	Mfg #	Strips & Cuts
TOL02463	1000	10 - 22 AWG up to 1"

### Dual-Wire Stripper/Cutter - Spring Action

- Strips two wires in single motion
- Paired stripping holes for 14 and 12 AWG solid wire
- One stripping hole for 10 AWG solid wire
- 6-1/4" Overall length
- Shear-type cutting blades
- Narrow nose fits into tight places
- Hardened steel with precision ground stripping holes
- Wire gauge markings on both sides
- Black-oxide finish resists corrosion
- Textured handles
- Wire looping and bending holes
- Yellow handle



Part #	Mfg #	Strips & Cuts
TOL03024	11048	10, 12, 14 AWG Solid Wire





# Strippers, Cutters & Crimpers

## Hi-Viz Wire Stripper/Cutter

- Glow in the dark grips charge in natural and artificial lighting
- Cuts, strips, and loops 8-16 AWG solid and 10-18 AWG stranded wire
- Strong-gripping serrated nose
- Cleanly shears 6-32 and 8-32 screws
- Closure lock
- Note: glow time and intensity may vary if charged in low light. Clean grips regularly to maintain glow brightness



Part #	Mfg #	Description
11054GLW	11054GLW	8-16 AWG Solid and 10-18 AWG Stranded Copper Wire

## Katapult® Wire Stripper/Cutter

- Cuts and strips 8-22 AWG wire
- Compound action stripping
- Precision machined stripping holes
- Remove up to 1" in length of insulation layer
- Tension loaded wire-grip
- Cast alloy chassis with heavy-duty Ecoat finish



Part #	Mfg #	Description
TOL03918	11063W	8-22 AWG

## Klein-Kurve® Dual NM Cable Stripper/Cutter - Solid Wire

- Stripping holes easily remove insulation on 10, 12, and 14 AWG lead wire
- Strong-gripping serrated nose for easy bending, shaping and, pulling of wire
- Precision staggered blades for square, clean cuts on solid copper wire
- Narrow nose fits into tight places
- Spring-loaded action for self-opening



Part #	Mfg #	Strips & Cuts
TOL02521	K1210	10 & 12 AWG Solid
TOL02622	K1412	12 & 14 AWG Solid

## Klein-Kurve™ Wire Stripper/Cutter

- Precision shear-type blades
- Clean cuts on solid and stranded copper wire
- Markings on both sides
- Curved handles
- Wire looping and bending holes
- Coil spring provides fast self-opening action
- Precision-ground stripping holes
- Strong-gripping serrated nose
- Screw-shearing holes
- Handy closure lock for convenient storage
- Double dipped comfort grips



Part #	Mfg #	Strips & Cuts
TOL03393	11053	6 - 12 Stranded
TOL02275	11055	10 - 18 Solid, 12 - 20 Stranded
TOL02465	11057	20 - 30 Solid, 22 - 32 Stranded

## Klein-Kurve® 90° Bent-Nose Stripper

- Patented bent-nose
- Quickly removes outer jacket of Romex® Cable
- Strips, cuts, and loops 10, 12, or 14 AWG solid wires
- Cleanly shears 6-32 and 8-32 screws
- Serrated nose bends, shapes, and pulls wire
- Comfort grip handles



Part #	Mfg #	Strips & Cuts
TOL03135	K90-10/2	10 AWG Solid, 10/2 NM
TOL03136	K90-12/2	12 AWG Solid, 12/2 NM

## Long-Nose Multi-Purpose Tool

- Crimps insulated and non-insulated terminals and 7 to 8mm ignition terminals
- Plastic covered cushioned handles
- Long, curved cutting blade
- Cleanly shears bolts



Part #	Mfg #	Strips & Cuts
TOL02279	1010	10 - 22 AWG

# Strippers, Cutters & Crimpers

## Metric Wire Stripper/Cutter

- Cuts, strips, loops, and bends stranded wire
- Strips 0.15 - 4.0mm stranded wire
- Shear-type cutting blades
- Spring-loaded action
- Plastic-covered handles



Part #	Mfg #	Description
TOL03970	1011M	0.15 - 4.0mm Wire

## Multi-Purpose Electrician's Tool

- 2-Wire cutters - one at tip, one halfway back near stripping holes
- Color-coded crimping dies for 10 - 22 AWG insulated and non-insulated terminals
- Crimps 7 - 8mm auto ignition terminals
- Cleanly shears bolts
- Pivot nut adjusts tension
- Wire looping holes near tip
- Full sized, plastic covered cushioned handles



Part #	Mfg #	Strips & Cuts
TOL02278	1001	8 - 18 AWG Solid, 10 - 22 AWG Stranded

## Self-Adjusting Wire Stripper/Cutter

- Stripping head adjusts to strip 10-20 AWG solid, 12-22 AWG stranded, and 12/2 and 14/2 Romex® wire
- Adjustable stopper controls length of the core strip
- Tensioning thumb screw allows for precise stripping of smaller gauge wire
- Convenient wire cutter in handle
- Grooved grips



Part #	Mfg #	Description
TOL03925	11061	10-20AWG Solid, 12-22 AWG Stranded, 12/2 and 14/2 Romex®

## TripSaver® Combination Multi-Tool

- High-carbon, rust-resistant stainless steel
- Lightweight, compact, sturdy
- Locking "L" handle snaps into "L" channel
- Includes:
  - Needle-nose pliers
  - Beveled wire cutter
  - Toothed pipe grippers
  - Files (coarse and fine)
  - 5-Slot wire stripper (10-18 AWG)
  - Wire-looping hole
  - Scraper
  - Awl/reamer
  - Serrated sheepfoot knife
  - Clip-point knife
  - Standard/metric ruler
  - Drywall saw
  - Locking "L" handle
  - #1 and #2 Phillips hex bits
  - (1) Small- and (2) large-slotted hex bits
  - 1/4" Socket adapter
  - Lanyard hole and nylon pouch



Part #	Mfg #	Description
TOL02522	1016	5-3/4" Long, TripSaver Multi-Tool

## Wire Stripper/Cutter

- Light, compact tool for stripping insulation
- Black-oxide finish with plastic dipped handles
- Adjustable slide stop with set screw



1003



1004

Part #	Mfg #	Strips & Cuts
TOL02725	1003	12 - 26 AWG Solid & Stranded, with Hold-Open Spring
TOL02786	1004	12 - 26 AWG Solid & Stranded, less Hold-Open Spring

# Strippers, Cutters & Crimpers

## Wire Stripper/Cutter - Solid & Stranded Wire

- Strips (6) standard wire sizes without nicking wire
- Scissors action of 1/2" wide cutter
- Serrated nose jaws to bend, shape or pull wire; holes for looping wire ends
- Spring-loaded for self-opening action
- Plastic covered handles
- 6-1/8" Overall length



Part #	Mfg #	Strips & Cuts
TOL02277	1011	10 - 20 AWG Solid & Stranded

## Wire Stripper/Cutter - Spring Action

- 6-1/4" Overall length
- Narrow nose fits into tight places
- Do not use for cutting steel wire or bolts



Part #	Mfg #	Strips & Cuts	Handle Color
TOL02276	11045	10 - 18 Solid	Yellow
TOL02464	11046	16 - 26 Stranded	Red

## NM Cable Ripper

- Slits the outer jacket of Romex and NM sheathed cable
- Zinc-plated cold-rolled steel



Part #	Mfg #	Description
TOL04296	74017	4" Long, Strips 8 to 14 AWG Cable



# Telecom Tools

## Diagonal-Cutting Pliers

### Diagonal Telephone Work Pliers - Type D-6

- Tapered nose for easy working in confined areas and close tip cutting
- 0.030" and 0.045" Stripping holes
- "V" Stripping notch in jaw for quick insulation slitting
- Serrated behind the hinge to crush insulation



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL03786	72192	6-1/8"	13/16"	3/4"

## Telephone/Bell-System Pliers

### Connector Crimping Pliers with Side Cutter

- Curved plastic dipped handles
- Designed to seat UG, UR, and UY connectors
- Curved handles
- Stop behind cutout prevents damage to connectors



Part #	Mfg #	Overall Length	Jaw Length	Jaw Width
TOL02600	D234-6	1-3/32"	11/16"	3/8"



# Temperature Instruments

## Temperature & Humidity Testers

### 3-Zone Temperature/Humidity Tester

- Backlit display
- Sealed keypad
- Battery eliminator jack
- 3-Zone minimum/maximum memory
- Auto shut-off after 15 minutes of non-use or continuous on mode
- Displays temperature differential between probes 1 & 2
- Minimum/maximum records highest and lowest temperatures from (3) probes
- Scan feature stores data until technician stops
- Polyethylene storage case
- Includes:
  - General purpose probe (1075)
  - Pipe strap probe (4011)
  - Slim humidity probe (5028)
- 5-Year warranty



Part #	Mfg #	Temperature Range
MTR01050	SRH77A	-40°F to 300°F

### 4005I Cordless Pipe Clamp Digital Temperature Instrument

- For measuring pipe surface temperatures
- Use on pipes with 1/4" to 1-3/8" diameters
- 2.5" Stainless steel puncture probe
- 20-Second response time
- Auto shut-off after 5 minutes
- Modes:
  - Mode button
  - Hold
  - Maximum
  - Minimum
- Retractable probe
- Accurate within 3°F
- 1-Year warranty



Part #	Mfg #	Temperature Range
MTR01047	4005I	-20°F to 300°F

## Thermistor Series Thermometers

### Industrial Multi-Zone Temperature/Thermistor Instrument

- Measure suction and liquid line temperatures simultaneously, temperatures across condensing coils, as well as the ambient temperature at the same time
- Minimum/maximum memory
- Scan feature stores data from all (3) probes (sold separately)
- Auto shut-off after 15 minutes with override option
- Backlit for dark environments
- Includes:
  - General purpose probe (1075)
  - Air probe (2010)
  - Surface probe (4011)
  - Sealed membrane touchpad
  - Polyethylene storage case
  - 9V Alkaline battery



Part #	Mfg #	Temperature Range
MTR01048	SH66A	-40°F to 300°F

## Thermistors

### Thermistor Temperature Instrument

- Features minimum/maximum memory, hold and automatic shut-off
- LCD Backlight for dark environments
- Switchable between °F and °C
- Includes:
  - General purpose probe (1075)
  - (2) AAA Batteries
  - Pouch
- Temperature range: -40° - 302°F
- 5-Year instrument limited warranty
- 1-Year probe limited warranty
- CE Certified, RoHS and WEEE compliant



Part #	Mfg #	Temperature Range
MTR01087	TM99A	Meter; Thermistor Temperature Instrument with Case and 1075 Probe



# Temperature Instruments

## Thermocouple Instruments

### AquaTuff™ Wrap & Stow Thermocouple Instrument

- ABS Housing
- Includes DuraNeedle probe (55032)
- $\pm 0.9^{\circ}\text{F}$  Temperature accuracy
- Temperature range:  $-100^{\circ} - 500^{\circ}\text{F}$  ( $-73^{\circ} - 260^{\circ}\text{C}$ )
- LED Backlight
- 1,800 Hour battery
- AA Batteries
- 5-Year limited instrument warranty
- CE Certified, NSF listed, RoHS and WEEE compliant, NIST traceable certificate of calibration
- 1-Year limited probe warranty



Part #	Mfg #	Temperature Range
MTR01337	35232	AquaTuff™ Wrap & Stow with Backlight and Hold Button

### AquaTuff™ Type K Waterproof Thermocouple Instrument

- ABS Housing
- Works with any type-K thermocouple probe
- Switchable between  $^{\circ}\text{F}$  and  $^{\circ}\text{C}$
- Includes:
  - LED Backlight
  - (3) AAA batteries
- $\pm 0.5^{\circ}\text{F}$  Temperature accuracy
- Temperature range:  $-100^{\circ} - 999^{\circ}\text{F}$  ( $-73^{\circ} - 537^{\circ}\text{C}$ )
- CE Certified, NSF listed, RoHS and WEEE compliant
- 5-Year limited instrument warranty



Part #	Mfg #	Temperature Range
SEN01799	35200-K	AquaTuff™ Waterproof

## EconoTemp Combo Pack

- Includes
  - 32311 thermocouple instrument with lanyard
  - 50336-K DuraNeedle prob
  - Wall bracket
- Auto-off feature
- Shock-resistant ABS housing
- Protective rubber boot
- Temperature range:  $-40^{\circ} - 500^{\circ}\text{F}$
- Temperature accuracy:  $\pm 2^{\circ}\text{F}$
- 1-Year probe warranty
- 5-Year instrument warranty



Part #	Mfg #	Temperature Range
MTR01336	93230-K	Includes 32311-K, 50336-K Probes and 9368 Bracket

# Test & Measurement

## Clamp Meters

### CL200 Professional Series Clamp Meter

- Worklights illuminate dark work spaces
- Backlit display
- Diode and continuity tests
- Measures temperature, frequency and capacitance
- Data hold captures measurements in any situation
- 8.2"H x 3"W x 1.4"D
- Includes test leads, batteries, case and thermocouple
- CAT III 600V



Part #	Mfg #	Description
TOL03673	CL200	1" Jaw, 600A AC w/Thermocouple

### CL1000 Professional Series Clamp Meter

- Work lights illuminate dark work spaces
- Backlit display
- Magnetic mount and lead storage
- Data hold captures measurements in any situation
- Diode and continuity tests
- Non-contact voltage tester
- Analog bar graph
- Includes test leads, batteries and case
- 8.875"H x 3.375"W x 1.5"D



Part #	Mfg #	Description
MTR01532	CL1000	1.25" Jaw, 400A AC

### CL1100 AC Clamp Meter with Temperature

- Auto-ranging
- Measures AC/DC voltage, AC/DC current, resistance, capacitance, frequency, duty cycle and temperature
- Backlit display and worklight
- Magnetic mount and lead storage
- Non-contact voltage tester
- Analog bar graph
- Temperature
- 8.875"H x 3.375"W x 1.5"D
- Includes case, test leads, thermocouple, and batteries
- CAT III 600V



Part #	Mfg #	Description
TOL03716	CL1100	400A AC

### CL1300 Clamp Meter with Temperature

- Auto-ranging
- Measures AC/DC voltage, AC/DC current, resistance, capacitance, frequency, duty cycle and temperature
- Also tests non-contact voltage, diodes, and continuity
- Backlit display and work light
- Magnetic mount and lead storage
- Non-contact voltage tester
- Analog bar graph
- Temperature
- 7.65"H x 2.56"W x 1.375"D
- Includes test leads, batteries, case and thermocouple
- CAT IV 600V



Part #	Mfg #	Description
MTR01396	CL1300	600A AC

### CL2000 Professional Series True RMS Clamp Meter

- Worklights illuminate dark work spaces
- Backlit display
- Magnetic mount and lead storage
- Data hold captures measurements in any situation
- Diode and continuity tests
- Non-contact voltage tester
- Analog bar graph
- Measures DC current
- 8.875"H x 3.375"W x 1.5"D
- Includes test leads, batteries and case



Part #	Mfg #	Description
TOL03672	CL2000	1.25" Jaw, 400A AC/DC



# Test & Measurement

## CL2200 AC/DC True RMS Clamp Meter

- Work lights illuminate dark work spaces
- Backlit display
- Magnetic mount and lead storage
- Data hold captures measurements in any situation
- Diode and continuity tests
- Non-contact voltage tester
- Analog bar graph
- Measures DC current
- 8.875"H x 3.375"W x 1.5"D
- Includes test leads, batteries and case



Part #	Mfg #	Description
MTR01521	CL2200	1.25" Jaw, 600A AC/DC
MTR01522	CL2200N	1.25" Jaw, 600A AC/DC, NIST Certified

## CL2300 AC/DC TRMS Clamp Meter with Temperature

- True RMS, auto-ranging
- Measures AC/DC voltage, AC/DC current, resistance, capacitance, frequency, duty cycle, and temperature
- Also tests non-contact voltage, diodes, and continuity
- Backlit display and worklight
- Magnetic mount and lead storage
- Non-contact voltage tester
- Analog bar graph
- Temperature
- CAT IV 600V



Part #	Mfg #	Description
MTR01397	CL2300	600A AC/DC

## Digital Multimeters

### Auto Ranging Multimeter

- Backlit display
- Measures AC/DC voltage to 600V
- Measures AC/DC current to 10A
- Measures capacitance, temperature, and frequency
- CAT III 600V



Part #	Mfg #	Description
TOL03689	MM200	Auto Ranging Multimeter
MTR01452	MM500	Auto Ranging Multimeter

## Electrician's/HVAC Multimeter

- Auto ranging multimeter measures AC/DC voltage, AC/DC current, resistance, capacitance, frequency, duty cycle and temperature
- Tests diodes and continuity
- Auto-ranging voltage measurement
- Measures AC/DC voltage to 1,000V
- Measures AC/DC current to 10A
- Backlit display with analog bar graph
- Includes carrying case, thermocouple, test leads and battery
- CAT IV 600V



Part #	Mfg #	Description
MTR01401	MM1300	Electrician's/HVAC Multimeter

## Electrician's/HVAC TRMS Multimeter

- True RMS auto-ranging multimeter measures AC/DC voltage, low impedance voltage, AC/DC current, resistance, capacitance, frequency, duty cycle and temperature
- Test diodes and continuity
- Measures AC/DC voltage to 1000V
- Measures AC/DC current to 10A
- Backlit display with analog bar graph
- Includes carrying case, thermocouple, test leads and batteries
- CAT IV 600V



Part #	Mfg #	Description
TOL03674	MM2000	Electrician's/HVAC TRMS Multimeter
MTR01402	MM2300	Electrician's/HVAC TRMS Multimeter
MTR01455	MM6000	Electrician's/HVAC TRMS Multimeter

## Electrician's/HVAC TRMS Multimeter with NIST Certification

- True RMS auto ranging multimeter measures AC/DC voltage, AC/DC current and resistance
- Tests diodes and continuity
- Measures AC/DC voltage to 1000V
- Measures AC/DC current to 10A
- Backlit display with analog bar graph
- Includes carrying case, thermocouples, test leads, and batteries
- CAT IV Safety rating



Part #	Mfg #	Description
MTR01456	MM6000N	Electrician's/HVAC TRMS Multimeter with NIST Certification



# Test & Measurement

## Electrician's TRMS Multimeter

- Auto ranging multimeter measures AC/DC voltage and resistance
- Tests diodes and continuity
- Measures AC/DC voltage to 1,000V
- Backlit display with analog bar graph
- Includes carrying case, test leads, and batteries



Part #	Mfg #	Description
MTR01453	MM5000	Electrician's TRMS Multimeter

## Electrician's TRMS Multimeter with NIST Certification

- Auto ranging multimeter measures AC/DC voltage and resistance
- Tests diodes and continuity
- Measures AC/DC voltage to 1,000V
- Backlit display with analog bar graph
- Includes carrying case, test leads, and batteries



Part #	Mfg #	Description
MTR01454	MM5000N	Electrician's TRMS Multimeter with NIST Certification

## Manual Ranging Multimeter

- Battery test function
- Measures AC/DC voltage to 600V
- Measures DC current to 10A
- Includes test leads and battery
- CAT III 600V



Part #	Mfg #	Description
MTR01404	MM100	Manual Ranging

## Electrical Testers

### Digital Circuit Breaker Finder

- Finds corresponding circuit breaker of any 120V standard outlet
- Flashing arrow indicator
- Transmitter reaches distances up to 1,000 feet
- 90 - 120V Operation
- Microprocessor controlled
- Auto power-off feature
- Includes (1) 9V battery for receiver



Part #	Mfg #	Description
TOL04295	69411	Digital Circuit Breaker Finder

### Replacement Test Lead Set

- Pair of universal test leads includes alligator clips
- Fits lead storage compartment on the MM1000, M2000, CL1000, CL2000 and CL3100
- Also compatible with MM100, MM200, CL100, CL200 and CL3000



Part #	Mfg #	Weight
TOL04414	69410	3.2 oz

### GFCI Receptacle Tester

- Designed to detect the most common wiring problems in standard and GFCI receptacles
- Conditions indicated: wiring correct, open ground, reverse polarity, open hot, open neutral, hot/ground reversed
- Conditions not indicated: quality of ground, multiple hot wires, combinations of defects, reversal of grounded and grounding conductors
- Large light indicators for greater visibility
- Light indicator key code on product makes it easy to determine status
- Nominal Voltage: 120/125VAC at 50/60Hz
- Certification: UL & CUL (UL1436 standard)



Part #	Mfg #	Description
TOL04292	RT200	GFCI Receptacle Tester



# Test & Measurement

## GFCI Receptacle Tester - USA Made

- Designed to detect the most common wiring problems in standard 120V receptacles and GFCI receptacles for proper operation
- Test for correct wiring, open ground, reverse polarity, open hot, open neutral, hot and ground reversed
- Conditions not indicated: quality of ground, multiple hot wires, combinations of defects, reversal of grounded and grounding conductors
- Large light indicators for greater visibility
- Reinforced prongs for increased durability
- Push-pull design with slip-resistance ribbing
- Made in USA of U.S. and imported parts



Part #	Mfg #	Description
TOL04293	RT600	GFCI Receptacle Tester

## Circuit Testers

### Digital Circuit Breaker Finder

- Finds corresponding circuit breaker of any 120V standard outlet
- Flashing arrow indicator
- Transmitter reaches distances up to 1,000'
- 90 - 120V Operation
- Microprocessor controlled
- Auto power-off feature
- Includes (1) 9V battery for receiver



Part #	Mfg #	Description
TOL03725	ET300	Digital Circuit Breaker Finder

## Voltage Detectors

### Electronic Voltage/Continuity Tester

- Solid state design is safer than solenoid testers
- Low impedance to reduce false readings
- Indicates voltage without battery
- Voltage indicated by lights, vibration, and tone
- With continuity beeper and bright work light



Part #	Mfg #	Description
TOL03538	ET200	7.375" 600V Voltage/Continuity

## General Purpose Twin-Lead Tester

- Tests voltage in 90 - 250 volt range, AC or DC
- Neon lamp glows indicating live circuit
- 5" Test leads have probes on the ends



Part #	Mfg #	Description
TOL02659	69136	7-7/8" Overall Length

## Non-Contact Voltage Tester

- High intensity, bright green LED indicator when on
- High intensity, bright red LED indicator when voltage is detected
- Package contains insert card with integrated owner's manual and (2) AAA 1.5V batteries



Part #	Mfg #	Description
TOL03315	NCVT-1	50 - 1000VAC

## Dual Range Non-Contact Voltage Tester

- Automatically detects and indicates:
  - Low voltage (12-48VAC)
  - Standard voltage (48-1000VAC)
- High intensity, bright green LED indicates the tester is operational and aids in illuminating the workspace
- Digitally controlled on/off power button
- Auto power-off feature conserves and extends battery life
- Microprocessor controlled low-battery indicator
- CAT IV 1,000V Rating



Part #	Mfg #	Description
TOL03537	NCVT-2	50 - 500Hz
TOL04143	NCVT-2VP-12	50 - 500Hz with Rt100 Receptacle Tester

# Test & Measurement

## Non-Contact Voltage Tester with Flashlight

- Provides non-contact detection of AC voltage
- Detects 12-1000VAC with simultaneous visual and audible voltage indicators
- Bright flashlight illuminates work area and may be used independent of voltage detection function
- Visual LED bar graph indicates the presence of voltage – the higher the voltage sensed, or the closer to the voltage source, the more LEDs light up
- Bar graph visual voltage indicator utilizes up to five vibrant LEDs for easy interpretation/viewing
- Audible voltage indicator beeps at a greater frequency the higher the voltage that is sensed, or the closer to the voltage source
- Auto power-off conserves and extends battery life
- Screw-thread battery cap with o-ring ensures protection against dust and water ingress
- Lightweight, compact tool with pocket clip provides convenient storage and quick access
- IP67: Dustproof and waterproof
- 6.6' (2m) Drop protection
- CAT IV Safety rating for 1000V
- Conforms to CE requirements



Part #	Mfg #	Description
TOL04518	NCVT-3	50 - 500Hz

## Video Borescopes

### Gooseneck Borescope Camera

- Compatible with ET500 and ET510 borescopes, and 17mm x 1m extension
- IP67 waterproof and dustproof
- Bright 4-LED work light
- Includes:
  - Mirror
  - Magnet
  - Camera guide



69450 / 69451



69454



Part #	Mfg #	Description
TOL04129	69450	6mm x 1m
TOL04130	69451	6mm x 2m
TOL04131	69454	17mm x 1m

## Borescope Extension

- Extends reach of 17mm borescope cameras
- Up to (2) extensions may be used without loss of video quality
- Maximum of (4) extensions plus camera
- Compatible with smaller diameter cameras
- For use with ET500 and ET510 borescopes



Part #	Mfg #	Description
TOL04132	69455	17mm x 1m

## Borescope Attachment Tools

- Includes:
  - Mirror camera attachment
  - Hook camera attachment
  - Magnet camera attachment
- Compatible with 17mm cameras



Part #	Mfg #	Description
TOL04133	69457	Mirror, Hook, and Magnet Camera Attachments

## ET500 Video Borescope

- Use to view inaccessible areas
- Features video, audio, photo recording, file playback, a durable camera snake with an adjustable work light, and video output capabilities
- Multiple applications: electrical, HVAC, plumbing, automotive, aircraft
- Rechargeable batteries



Part #	Mfg #	Description
TOL03853	ET500	3.2" Screen

# Test & Measurement

## ET510 Borescope

- Use to view inaccessible areas
- Features a durable camera snake with an adjustable work light
- Waterproof, dustproof camera (IP67), adjustable LED work light, high resolution screen, mirror image
- Multiple applications: electrical, HVAC, plumbing, automotive, aircraft



Part #	Mfg #	Description
TOL03854	ET510	2.4" Screen

## Infrared Thermometers

### 12:1 Dual Laser Infrared Thermometer

- Tight distance-to-spot ratio
- Dual lasers for accurate target measurement area
- K-Type thermocouple input
- Backlit display, auto shut-off, work light
- Includes (2) AAA batteries



Part #	Mfg #	Measurement Range
MTR01348	IR2000	-76° to 1,022°F

### 12:1 Infrared Thermometer

- Quick checks of all types of environments, hazardous extreme temperature ranges, or remote areas
- Maximum/Minimum/Average/Differential
- Backlit display



Part #	Mfg #	Measurement Range
TOL03675	IR1000	-58° to 1000°F

## 30:0 Dual Laser Infrared Thermometer

- Tight distance to spot ratio
- K-Type thermocouple input
- Several calculation modes to assist in making the best possible measurements
- Dual lasers allow you to see the actual target diameter
- Backlit display; worklight
- Includes:
  - Carrying case
  - (2) AAA Batteries
  - Thermocouple
  - Protective boot



Part #	Mfg #	Measurement Range
MTR01400	IR3000	-76° to 1,400°F

## Temperature Loggers

### Dual Input Temperature Logger

- Two-input dual differential digital temperature tester offers logging, monitoring and uploading capabilities to help analyze system performance trends with the included software
- IP67: Waterproof, dust resistant
- Differential: T1-T2
- Data logging
- Memory positions: 9,999
- Minimum, Maximum, Average and Hold
- Backlit display, probe storage, boot with stand and magnetic strap mount
- USB Interface; software included



Part #	Mfg #	Description
MTR01398	DTL302	Two Input Temperature Logger



# Test & Measurement

## Quad Input Temperature Logger

- Four-input dual differential digital temperature tester offers logging, monitoring and uploading capabilities to help analyze system performance trends with the included software
- IP67: Waterproof, dust resistant
- Differential: T1-T2 & T3-T4
- Data Logging
- Memory positions: 9,999
- Minimum, Maximum, Average and Hold
- Backlit display, probe storage, boot with stand and magnetic strap mount
- USB Interface; software included

**KLEIN  
TOOLS**



Part #	Mfg #	Description
MTR01399	DTL304	Four Input Temperature Logger



# Test Equipment

## Test Equipment

### Air Flow Hood

- Measure volumetric flow rate with digital manometer
- Temperature range: 32°F - 122°F
- Volume flow supply range: 41 - 1176 CFM
- Volume flow exhaust range: 45 - 1176 CFM
- Magnet backplate
- Low battery alert



Part #	Mfg #	Description
MTR01324	A FH2	2' x 2' Hood

### Thermo-Anemometer Test Instrument

- Measures air velocity or air volume and temperature simultaneously
- Air velocity range: 0 - 6,000 FPM
- Air velocity accuracy: +/- 3% FS within temperature range of 40°F - 90°F
- Probe length: 8" insertion
- Cable length: 28" retracted, 6' extended



Part #	Mfg #	Description
MTR01355	471B-1	Thermo-Anemometer
MTR01353	AP1	Thermo Anemometer Air Velocity and Temperature Probe with Coiled Cable

### Thermo-Anemometer Test Instrument with Wireless Connection

- Measures air velocity or air volume and temperature simultaneously
- Air velocity range: 0 to 6,000 fpm
- Air velocity accuracy: ±3% FS within temperature range of 40° to 90°F
- Probe length: 8" insertion



Part #	Mfg #	Description
AP2	AP2	Thermo Anemometer Air Velocity & Temperature Probe with Coiled Cable

### Universal Handheld Test Instrument

- Versatile base can combine with multiple probes and modules
- Accepts wire or wireless thermo-anemometer or hygrometer
- Temperature range: 5° - 125°F



Part #	Mfg #	Description
MTR01352	UHH	Universal Test Instrument

### 485B Thermo-Hygrometer Test Instrument

- Probe length: 8"
- Stores up to 99 readings
- Process temperature limit: -40°F - 176°F
- Ambient temperature limit: 5°F - 125°F
- Measures %RH, temperature, dew point and wet bulb
- Relative humidity range: 0 - 100%, non-condensing



Part #	Mfg #	Description
MTR01356	485B-1	Digital Thermo-Hygrometer
MTR01354	RP1	Thermo-Hygrometer %RH and Temperature Probe with Coiled Cable

### Flow Switches

#### V7 Series Flotect® Vane Operated Flow Switch

- Pipe size: 1" - 4"
- Magnetic linkage
- Weatherproof, meets NEMA 4X (IP66)
- Rigid and trimmable design for set point adjustment
- Pressure limit: 250 psi
- CE & UL Listed



Part #	Mfg #	Description
SWT03657	V7	Vane Operated Flow Switch

#### V8 Series Flotect® Vane Operated Flow Switch

- Field adjustable 1" - 6" pipe
- Trimmable vane
- 1" MNPT Connection
- Pressure limit: 150 psig
- CE Certified
- UL Recognized



Part #	Mfg #	Voltage
SWT02822	V8	5A at 125/250VAC

### Gauges

#### A-432 Portable Carrying Case Kit

- Combine carrying case with any Magnehelic® gauge of standard range, except high pressure connection



Part #	Mfg #	Description
HDL00953	A-432	Carrying Case for Magnehelic® Standard Range Gauge

# Test Equipment

## DigiMag® Digital Differential Pressure and Flow Gauge



- Fits in Magnehelic® gauge cut-out

Part #	Mfg #	Range
GAG01173	DM-1102	0.25"wc

## Filter Accessory Kit



- Adapts any standard Magnehelic® gauge for use as an air filter gauge.

Part #	Mfg #	Description
KIT07478	A-605	Air Filter Kit

## Magnehelic® Differential Pressure Gauge



- Ambient temperature range: 20°F - 140°F
- Pressure limits: -20" Hg - 15 psig
- Accuracy within 2%
- Relief plug opens at approximately 25 psig
- 1/8" NPT Female high and low pressure taps, duplicated (1) pair side and (1) pair back connections



Part #	Mfg #	Range
GAG00805	2001	0 - 1.0"wc
GAG00874	2002	0 - 2.0"wc

## Minihelic II® Differential Pressure Gauge Diaphragm Actuated Dial Type



- Barbed for 3/16" ID tubing
- Safely operates at total pressure up to 30 psig
- Accuracy: +/- 5% of full scale

Part #	Mfg #	Description
GAG01116	2-5002-NPT	0 - 2.0"wc with 1/8" MNPT

## Mounting Bracket



Part #	Mfg #	Description
BRK03548	A-298	Flat Aluminum for Flush Mounting Capsuhelic® Gauge
BRK04002	A-299	Flush Mount for Magnehelic® Gauge

## Series A3000 Photohelic® Pressure Switch & Gauge

- For air and non-combustible, compatible gases
- Temperature range: 20°F - 120°F
- Pressure ranges: 0 - 0.25"wc up to 30 psi, or single positive pressure to 6000 psig
- 1/8" FNPT
- Gauge unaffected by switch operation
- Lo-limit and hi-limit control
- Each set point has (2) form C relays



Part #	Mfg #	Range
GAG01159	A3002	0 - 0.25"wc

## Manometers

### Air Velocity Kit with Series 475-1 Manometer

- Range: 0-20.00"wc (4.982 kPa)
- Max pressure: 10 psig
- Includes:
  - Static pressure tips
  - Rubber tubing
  - Pitot tube
  - Step drill
  - Air velocity slide chart
  - Carrying case



Part #	Mfg #	Description
KIT09645	475-1-FM-A	Manometer Air Velocity Kit

### Dual Range Flex-Tube® U-Inclined Manometer

- 21" Long
- Adjustable for precise zeroing



Part #	Mfg #	Vertical Range	Inclined Range
GAG00995	1227	0 - 16"wc	.20 - 2.6"wc



# Test Equipment

## Mark II Inclined-Vertical Tube Manometer

- Provides higher ranges with easily read increments at low readings
- Includes:
  - (2) Tubing connectors for 1/8" pipe or sheet metal ducts
  - (2) Mounting screws
  - (3) 3/4 oz Bottle of fluid



Part #	Mfg #	Description
GAG00991	MARK II 25	0 - 3"wc with Red Oil
GAG00997	MARK II 27	0 - 7,000 FPM with Red Oil

## Mark III Handheld Digital Manometer

- Large easy to read 0.5" LCD display
- Operates up to 100 hours on (1) 9V battery



Part #	Mfg #	Range	Max Pressure
475-0-FM	475-0-FM	0 - 10.0"wc	5 psig
TOL02233	475-1-FM	0 - 20.0"wc	10 psig
475-2-FM	475-2-FM	0 - 40.0"wc	10 psig
MTR01382	475-3-FM	0 - 200.0"wc	30 psig

## Series 1222/1223 Flex-Tube® U-Tube Manometer

- Includes:
  - (2) Magnetic mounting clips
  - Tube clamp
  - (2) Plastic carrying plugs
  - (2) Flexible plastic tubing connectors for attachment of 3/16" rubber or plastic tubing without kinking
  - 3/4 oz Bottle of .826 gauge fluid furnished for D style manometers
  - Fluorescein green dye concentrate furnished with W/M style manometers



Part #	Mfg #	Description
GAG01073	1222-8-WM	4 - 4"wc
GAG00990	1222-12-D	6 - 6"wc
GAG00989	1222-12-W/M	12"wc with Green Dye Fluid
GAG01031	1223-8-D	4 - 4"wc
GAG01033	1223-12-DB	6 - 6"wc Type B

## Series 250-AF Inclined Manometer Air Filter Gage

- Red and green signal flags indicate when a filter change is necessary
- Temperature range: -20° to 150°F
- Connection fittings are positively sealed by o-rings
- Easily removed for zeroing or addition of fluid



Part #	Mfg #	Range
GAG01045	252-AF	.20 - 2.0"wc

## Series 452-AF Inclined Manometer Air Filter Gage

- Red and green signal flags indicate when a filter change is necessary
- Temperature range: -20° to 150°F
- Connection fittings are positively sealed by o-rings
- Easily removed for zeroing or addition of fluid



Part #	Mfg #	Range
GAG01162	452-AF	0 - 2.0"wc

## Series 476A/478A Digital Manometer

- For air and compatible gases
- Temperature range: 0° to 140°F
- Up to 1.5% accuracy
- Auto-power off
- Auto-zero
- (9) Selectable English and metric units
- Extruded aluminum housing



Part #	Mfg #	Range	Max Pressure
TOL03524	476A-0	-20 - 20"wc	5 psi
TOL03207	478A-0	-4 - 4"wc	5 psi
TOL02927	478A-1	-60 - 60"wc	5 psi





# Test Equipment

## Series 477AV Handheld Digital Manometer

- For air and compatible gases
- Temperature range: 0° to 140°F
- (9) Selectable English and metric units
- Stores up to (40) readings with minimum, maximum, and average statistics
- Backlit display
- Includes aluminum case



Part #	Mfg #	Range	Max Pressure
MTR01570	477AV-1	0 - 20"wc	10 psig

## Series 490 Wet/Wet Handheld Digital Manometer

- For compatible gases and liquids
- Temperature range: 32° to 104°F
- Audible and visual overpressure alarms
- (7) Selectable English and metric units
- Stores up to (40) readings
- Adjustable dampening feature for averaging fluctuating readings



Part #	Mfg #	Range	Max Pressure
MTR01120	490-4	0 - 100 psi	200 psi

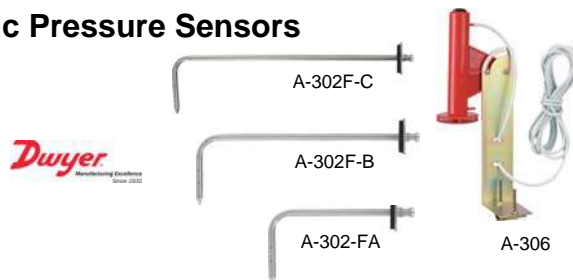
## Series 490A Wet/Wet Handheld Digital Manometer

- For compatible gases and liquids
- Temperature range: 32° to 104°F
- Up to 0.5% accuracy
- (7) Selectable English and metric units
- Stores up to (40) readings
- Backlit display
- Adjustable dampening feature for averaging fluctuating readings



Part #	Mfg #	Range	Max Pressure
MTR01571	490A-3	0 - 50 psi	100 psi

## Static Pressure Sensors



Part #	Mfg #	Description
SEN02015	A-302F-A	Static Pressure Tip with Flange, 4" Insertion
SEN02016	A-302F-B	Static Pressure Tip with Flange, 6" Insertion
SEN02017	A-302F-C	Static Pressure Tip with Flange, 8" Insertion
SEN01279	A-306	Outdoor Static Pressure Sensor with Vinyl Tubing, Mounting Bracket and Hardware



# Test Instruments

## Pocket Tools



MDSH1

Part #	Mfg #	Description
TOL03194	PAL1	Alligator Clip Extension Tool, Extends to 24"
LIT00950	PLM2	Pocket Extension Light with Mirror Attachment
TOL03196	PMG2	Pocket Extension Magnet & LED Light
TOL03190	MDSH1	Magnetic Parts Dish

## Pocket Inspection Mirror



Part #	Mfg #	Description
TOL03188	PMR1	Pocket Inspection Mirror

## Magnetic Parts Grabber



Part #	Mfg #	Description
TOL03189	PBS2	Magnetic Parts Grabber with 24" Extension

## Flashlights

### Pocket LED Flashlight

- Under 5" long



Part #	Mfg #	Description
LIT00951	PLF2	LED Flashlight

## Meter Cases



ANC1



ANC3



ANC5



ANC4



ANC7

ANC8



ANC9



ABM1



ANC2



ABMK3



Part #	Mfg #	Holds
CAS00809	ANC1	(1) Meter & (2) Accessory Head Instruments
CAS02029	ANC2	(1) Small Meter or (1) Accessory Head Instrument
CAS00810	ANC3	(3) Meters & (10) Accessory Head Instruments or (6) Standalones & Their Accessories, (2) Meters & More
CAS02030	ANC4	Single Meter Case
CAS00812	ANC5	(1) Meter & (1) Accessory Head Instrument
CAS02031	ANC6	Clear Front Case for ST4 Standalone Meter
CAS01301	ANC7	(1) Full-Size Clamp Meter or (1) Standalone Instrument & Included Accessories
CAS01302	ANC8	(2) Full-Size Meters & (4) Accessory Head Instruments
TOL03915	ANC10	Drawstring Padded Pouch for SMAN Manifolds
CAS01829	ABMK3	Blow-Molded Refrigerant Leak Detector Case for SRL2 or SRL8



# Test Instruments

## Digital Manifolds

### SMAN360 3-Port Digital Manifold with Micron Gauge

- Built tough for HVAC/R professionals
- (45) Refrigerants with easy updates via mini USB connection
- Micron gauge with alarms, stopwatch, and rate indicator
- Simultaneous superheat and subcooling
- All measurements on one screen
- Automatic target superheat



Part #	Mfg #	Description
MFD01390	SMAN360	3-Port Digital Manifold with Carrying Case

### SMAN3 Digital Manifold Case

Part #	Mfg #	Description
CAS01963	ABM1	Case Only for SMAN3

### Valve & Knob Kit



Part #	Mfg #	Description
KIT16791	RSMANK6	Valve and Knob Kit for SMAN2 and SMAN3

### SMAN460 Wireless 4-Port Digital Manifold with Micron Gauge

- Extra rugged design
- Live, real-time adjustments with wireless measurements
- Micron gauge with alarms, stopwatch and rate indicator
- Large 3/8" full bore and 4th VAC port
- All measurements on (1) screen
- Wireless



Part #	Mfg #	Description
MFD01392	SMAN460	Digital Manifold 4-port Wireless

## Wireless Refrigerant Scales

- No tangled wire mess
- Solid aluminum construction
- Rubber bumpers and grip plate
- Remote stores in the platform body
- Push-button synchronization and zeroing
- Highly accurate weight sensor
- Magnetic hat on the remote
- Sloped plate edge guides bottles in position



Part #	Mfg #	Description
TOL03432	SRS2C	Wireless Refrigerant Scale with Nylon Case
CAS01840	ANC9	Scale Case for Holding SRS2 Wireless Refrigerant Scale

## Charging Jacket

### S365 Charging Jacket

- Charge TXV systems in 37° to 70°F outside temperature
- Service maintenance contracts before and after the summer heat
- Easy to adjust to reach correct pressure differential



Part #	Mfg #	Description
CAS01970	S365	TXV Meter Charging Jacket

## Accessories & Replacement Parts

### Alligator Clips



Part #	Mfg #	Description
CLP00811	ASA2	Small Alligator Clips

### Battery



RCR2032

Part #	Mfg #	Description
BAT00083	RCR2032	Battery for SIR2, SC52 or SC53
BAT00054	RLR44(2)	2/Pk Battery for SPK1, SWT2, SIL2, SIP2
BAT00190	RL736(3)	3/Pk Battery for PLM2

# Test Instruments

## Charger



RCA2



RWA2

Part #	Mfg #	Description
TOL03363	RCA2	Car Charger for SRL2K7 and SRL8
CNT06573	RWA2	Wall Charger for SRL2K7 and SRL8

## Flame Diode Adapter Kit



Part #	Mfg #	Description
KIT08153	AQK3	Flame Diode Adapter Kit

## Fuse



RFL712



RFL83



RFL83A



RFM70



RFS74



RF16

Part #	Mfg #	Description
FUS01785	RFL712(1)	Fuse for HB74
KIT06120	RFL83(4)	4/Pk Fuse for LT83 and LT83A
FUS02325	RFL83A(4)	4/Pk Fuse for LT83A
FUS01843	RFM66(4)	4/Pk Fuse for SC Series Meters
KIT06121	RFM70(4)	4/Pk Fuse for LT16 and LT16A
KIT06118	RFM74(4)	4/Pk Fuse for LT83, LT83A, LT17, HB74
KIT06122	RFS74(4)	4/Pk Fuse Pack for LT83
KIT06119	RF16(4)	4/Pk Fuse for LT17 and LT16

## Manometer Tube Adapter



Part #	Mfg #	Description
ADP01326	RMA316	3/16" - 5/16" Manometer Tube Adapter

## Reflective Tape



Part #	Mfg #	Description
TAP00118	RREF16	Replacement Reflective Tape for SRMP2

## Tool Pack



Part #	Mfg #	Description
TOL01914	HS33K14G	Tool Pack

## Wand Extension



RFE2

Part #	Mfg #	Description
TOL04041	RRE2	9" Rigid Leak Detector Wand Extension
TOL03761	RFE2	9" Flexible Leak Detector Wand Extension

## Handles & Adapters

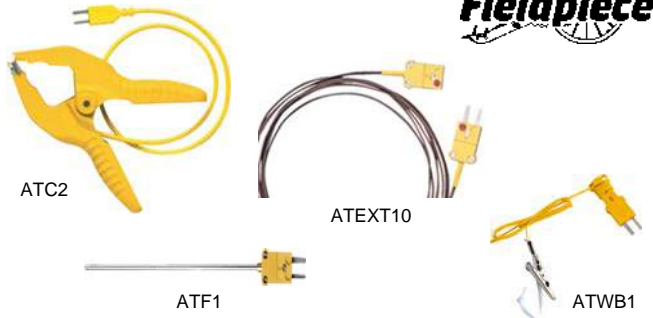
- Converts any fieldpiece accessory head into a stand-alone meter



Part #	Mfg #	Description
ADP00868	AHDL1	Accessory Head Adapter

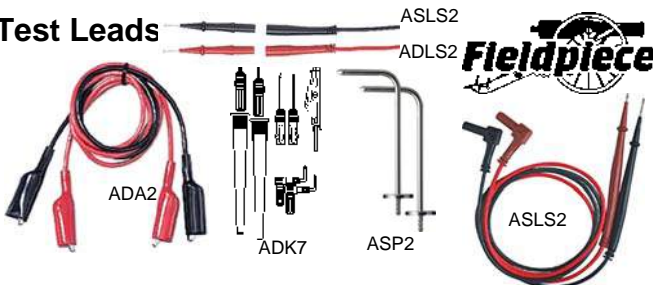
# Test Instruments

## K-Type Thermocouples



Part #	Mfg #	Description
TCP00106	ATA1	K-Type Thermcouple with Alligator Clip
TCP00107	ATAF1	K-Type Thermcouple Male Mini Plug with Wrap-Tab
SEN01754	ATC1R	Small Clamp 1/8" - 3/4"
SEN00950	ATC2	Pipe Clamp
TCP00108	ATWB1	Wet Bulb Thermocouple
SEN00858	ATEXT10	10' Cable
SEN00859	ATF1	For Fluids
TOL02731	ATR1	4.5" Piercing Probe
SEN00862	ATS1	Flat Surface Temperature
SEN00854	ATB1	Beaded Style w/Teflon Insulation
SEN00856	ATC1	Pipe Clamp (1-1/8" Opening)

## Test Leads



Part #	Mfg #	Description
KIT06114	ADA2	Shorting Cables (Pair); Alligator Clips on 3' Wire
KIT15687	ADK7	Deluxe Silicone Test Lead Kit: ADSL2 Silicone Leads, ASA2 Alligator Leads, RCT2 Probe Tips
WIR03694	ADLS2	Silicone Leads
WIR03224	ASLS2	Silicone Test Leads
TOL01934	ASP2	Short Probe Tips

## Accessory Heads

### Current Clamp



Part #	Mfg #	Description
CMP00820	ACDC6	AC/DC Current Clamp (600A)

### Digital Vacuum Micron Gauge Head

- Range: 50 to 2000 microns of mercury
- Displays pressure in steps of 1 micron
- Excellent power accuracy
- Withstands pressures up to 500 psi
- Auto-power off to save battery life



Part #	Mfg #	Description
HED00780	AVG2	Digital Micron Gauge Head

### Manometer Pressure Head

- Measures gas or static pressure
- Range: -60.0 to +60.0"wc
- 5/16" Adapter for measuring inlet or outlet pressures
- Auto power-off (can be disabled for data logging)



Part #	Mfg #	Description
HED00648	AMN2	Manometer (Pressure) Head

# Test Instruments

## Temperature & Humidity Head



ATH4



ATIR3

Part #	Mfg #	Description
HED00689	ATH4	Dual Temperature Head
X1316067	ATIR1	Non-Contact Temperature Head 0010
HED00681	ATIR3	Infrared Temperature Head w/Laser

## Voltage Head

- Converts volts to millivolts for use with data loggers
- Accuracy: DC:  $\pm(0.5\%rdg + 1\text{ dgt})$ ; AC:  $\pm(1.0\%rdg + 4\text{ dgts})$
- Maximum voltage: 600VAC or DC
- Input impedance: 1M $\Omega$
- Standard test leads plug in top



Part #	Mfg #	Description
HED00678	AVH1	Voltage Head

## Wireless Transmitters

- Included with wireless electronic handle (EH4W)
- Connects to any Fieldpiece accessory head



Part #	Mfg #	Description
MTR01431	ET2W	Wireless Transmitter

## Carbon Monoxide Detectors

### ACM4 Carbon Moxide Detector Accessory

- Fast reacting electrochemical sensor
- Field-replaceable CO sensor
- Zero set to ambient
- Display measurements smoothly or real-time
- Fast enough for walk-around tests



Part #	Mfg #	Description
MTR01443	ACM4	Carbon Moxide Detector

### Carbon Monoxide Detector Head

- Measures CO in air and finds CO sources
- Three pin sensor for better performance
- Optional Pump (ACMP3)
- Auto-off can be disabled for data logging
- Range: 0 to 1,000 ppm (2,000 ppm with 5 minute exposure time)
- Operating temperature: 32° to 105 °F



Part #	Mfg #	Description
KIT07930	ACMK3	Carbon Monoxide Detector Head w/Pump

### SCM4 Carbon Monoxide Detector

- Fast response for walk around testing
- Field replaceable smart sensor
- Audio and visual alarms
- Backlit display for dark spaces
- Magnetic hanger
- Automatic power off to extend battery life
- Battery check (9V) with % of battery life displayed
- 0 - 1,000 ppm



Part #	Mfg #	Description
MTR01442	SCM4	Carbon Monoxide Detector

# Test Instruments

## Hand Pump



Part #	Mfg #	Description
PMP01793	AOXP2	Flue Aspirator Hand Pump for ACM3 & SCM3

## Parts Bag



Part #	Mfg #	Description
FLR07560	RAOX9	Replacement Parts Bag for AOXP2

## Manometers

### SDMN6 Dual Port Manometer & Pressure Switch Tester

- Includes:
  - SDMN6 Manometer
  - ANC1 4-Pocket carrying case
  - ASP2S Static pressure probes
  - RMA316 Pressure tubes
  - Quick-connect leads
  - Hoses and Y-splitter
  - Hoses with brass screw fittings
- Auto-off function
- Measures gas pressure up to 60" WC
- (4) Different measurement scales available
- Zero adjust feature
- Static pressure mode



Part #	Mfg #	Description
TOL04116	SDMN6	Dual Port Manometer and Pressure Switch Tester

## Clamp Meters

### SC57 Wireless Swivel-Head Clamp Meter

- 180° Swivel-head clamp
- True RMS, backlight display, flashlight
- Rugged construction
- Calibrates K-type thermocouples
- Wireless measurements
- Automatic power off
- Non-contact voltage alert
- Auto-ranging function
- Includes:
  - Padded case (ANC7)
  - Silicone test leads
  - Battery (installed)
  - Operator's manual



Part #	Mfg #	Description
MTR01385	SC57	Wireless Swivel Head Clamp Meter

### SC200 Series Compact Clamp Meter

- High voltage warning
- Data hold
- Non-contact voltage
- Diode test
- Low ohm range for motor windings
- Read up to 400AAC
- 0.01AAC Resolution
- 9V Battery
- NIST Traceable
- Includes:
  - Padded case (ANC7)
  - Silicone test leads
  - Battery (installed)
  - Operator's manual



Part #	Mfg #	Description
MTR01488	SC220	Compact Clamp Meter
MTR01489	SC240	Compact Clamp Meter with Temperature
MTR01490	SC260	Compact Clamp Meter with True RMS and Magnet





# Test Instruments

## SC420 Clamp Meter

- Volts AC/DC
- Duty cycle %
- 400 Amps AC
- Dual display
- Temperature F/C
- Capacitance
- Microamps DC
- Frequency via leads and clamp
- Non-contact voltage
- 50 Mega Ohm with 0.1 resolution
- Continuity
- Diode Test
- Hold
- Test-lead holder
- Low battery indicator
- Includes:
  - Padded case (ANC7)
  - Silicone test leads
  - Battery (installed)
  - Operator's manual



Part #	Mfg #	Description
MTR01491	SC420	Clamp Meter

## SC440 Clamp Meter

- Volts AC/DC
- Duty cycle %
- 400 Amps AC
- Dual display
- Temperature F/C
- Capacitance
- Microamps DC
- Frequency via leads and clamp
- Non-contact voltage
- 50 Mega Ohm with 0.1 resolution
- Continuity
- Diode Test
- Hold
- Test-lead holder
- Low battery indicator
- True RMS
- Inrush for motor start up
- Clamp Jaw Light
- Backlit display
- Includes:
  - Padded case (ANC7)
  - Silicone test leads
  - Battery (installed)
  - Operator's manual



Part #	Mfg #	Description
MTR01492	SC440	Clamp Meter with True RMS and Inrush



# Test Instruments

## SC620 Clamp Meter

- Volts AC/DC
- Swivel clamp
- Magnetic strap
- Dual display
- Temperature F/C
- Capacitance
- Duty cycle %
- 400 amps AC
- Microamps DC
- Frequency via leads and clamp
- Non-contact voltage
- 50 Mega Ohm with 0.1 resolution
- Continuity
- Diode test
- Hold
- Clamp probe holder
- Low battery indicator
- Large body swivel clamp with probe storage and magnetic strap
- Includes:
  - Padded case (ANC7)
  - Silicone test leads
  - Battery (installed)
  - Operator's manual



## SC640 Series Clamp Meter

- Volts AC/DC
- Swivel clamp
- Magnetic strap
- Dual display
- Temperature F/C
- Capacitance
- Duty cycle %
- 400 amps AC
- Microamps DC
- Frequency via leads and clamp
- Non-contact voltage
- 50 Mega Ohm with 0.1 resolution
- Continuity
- Diode test
- Hold
- Clamp probe holder
- Low battery indicator
- True RMS
- Inrush for motor start up
- Dial backlight
- Clamp jaw light
- Backlit display
- Large body swivel clamp with probe storage and magnetic strap
- Includes:
  - Padded case (ANC7)
  - Silicone test leads
  - Battery (installed)
  - Operator's manual



Part #	Mfg #	Description
MTR01493	SC620	Clamp Meter

Part #	Mfg #	Description
MTR01494	SC640	Clamp Meter with Backlight

## Accessory Heads

### Air Velocity with Temperature Head

- Displays velocity feet per minute, meters per second, MPH and KM per hour
- Displays temperature in °F or °C



Part #	Mfg #	Description
HED00696	AAV3	Anemometer Head

# Test Instruments

## Carbon Monoxide Detector Head

- Measures CO in air and finds CO sources
- Operating temperature: 32° to 105 °F
- Three pin sensor for better performance
- Optional Pump (ACMP3)
- Automatic power off can be disabled for data logging
- Range: 0 to 1,000 ppm (2,000 ppm with 5 minute exposure time)



Part #	Mfg #	Description
HED00650	ACM3	Carbon Monoxide Head

## Dual-Port Manometer Accessory Head

- Static pressure gas pressure differential
- Checks gas pressure, duct blockages, pressure change across a fan and static pressure drops
- Automatic power off to extend battery life
- Range: -60.0" to +60.0"wc
- Includes: 5' hose with brass fittings



Part #	Mfg #	Description
HED00821	ADMN2	Dual-Port Manometer Head

## Milliamps and Microamps Head

- Measures milliamps and microamps for flame diode test
- Measures 4 to 20mA control circuits



Part #	Mfg #	Description
HED00682	AUA2	Milliamps and Microamps Head

## Superheat and Subcooling Head

- Measures refrigerant pressure and temperature
- Calculates superheat or subcooling for R-22 and R-410A in English or metric units
- Displays pressure in PSI or kPa
- Displays temperature, superheat, and subcooling in °F or °C
- Select R-22 or R-410A
- Automatic power off can be disabled for data logging



Part #	Mfg #	Description
MTR00970	ASX14	Superheat and Subcooling Head for A/C

## Temperature and Humidity Head

- Measures milliamps and microamps for flame diode test
- Measures temperature and %RH
- Includes flame diode adapter kit (AQK3)
- Resolution: 0.1 for meters with 0.1mVDC
- Accuracy: DC = +/- (1.0%rdg + 1dgt)  
AC: +/- (1.5% + 2dgt)
- Max current: 200mA AC or DC



Part #	Mfg #	Description
HED00661	ARH4	Digital Sling Psychrometer Head

## 400A Clamp Accessory Head

- Works with any Fieldpiece expandable DMM, instrument, handle or any DMM with mVDC ranges and industry standard jacks
- Remote the amp clamp for hard to reach areas using deluxe silicone leads with detachable probe tips (ADLS2)
- Angled jaw opens to 1.8" and makes singling out a wire fast and easy



Part #	Mfg #	Description
HED00810	ACH4	400A AC Current Clamp Head

# Test Instruments

## Digital Multimeters

### LT16A True-RMS Meter

- Volts, ohms, amps, continuity
- MFD For motor start/run capacitors
- Frequency for variable frequency drives
- Maximum and minimum to record highs and lows
- Phase rotation indication for 3-phase motor connection
- Backlight
- Includes:
  - True-RMS Meter
  - 400A AC Accessory clamp (ACH4)
  - Leads
  - Alligator clips (ASA2)
  - Carrying case (ANC5)



Part #	Mfg #	Description
TOL02677	LT16A	For Working with Motors & Electrical Equipment

### LT-17 "Biggest Bang for the Buck" Multimeter

- Measures:
  - Temperature (ambient air as well as pipes)
  - Capacitance (motor start and motor run capacitors)
  - Microamps (flame rectifier diode circuit)
  - Frequency (variable frequency motor controls)
- Measures AC/DC volts, resistance and has a continuity beeper and diode check
- Works with all Fieldpiece accessories when connected with deluxe test leads (ADL2)
- Includes:
  - Classic style clamp meter with temperature (LT17A)
  - Deluxe silicone test leads (ADLS2)
  - Short alligator lead extensions (ASA2)
  - Clamp accessory (400A)
  - Wrap tab bead tip thermocouple (ATB1)
  - Mail pouch-style instrument case (ANC5)
  - 9V Battery (installed)
  - Operator's manual



Part #	Mfg #	Description
TOL02690	LT17A	Classic Style Digital Multimeter

### LT-83A Digital Multimeter

- Works with all Fieldpiece accessory heads
- For testing basic electrical parameters including AC/DC current, resistance and voltage
- Bright blue backlight
- Maximum/minimum hold



Part #	Mfg #	Description
MTR01451	LT83A	Digital Meter

### SDMN5 Dual Port Manometer

- Measures inches WC, mmWC, mBar, and psi
- Rugged rubber boot
- Minimum/Maximum and "hold" indicators
- Automatic power off
- Accuracy: +/-1.5% FS
- Range: 0.00 to +/-60.0
- Resolution: 0.01"wc



Part #	Mfg #	Description
MTR00975	SDMN5	Dual Port Manometer

### SPDM-1 Pocket Digital Multimeter

- Leads store within the meter casing
- The back folds open for lead storage
- Non-contact voltage
- Volts AC/DC
- Ohms
- Continuity
- Diode test
- "Hold" function
- Auto-ranging



Part #	Mfg #	Description
MTR00948	SPDM-1	Meter w/NCV

# Test Instruments

## Standalone Superheat and Subcooling

- For AC and refrigeration
- Select R-134A, R-404A, R-410A, or R-22
- Now accepts K-Type thermocouples
- Thermocouple calibration pot
- Atmosphere pressure calibration
- Includes:
  - Magnetic hanger
  - "T"
  - K-Type thermocoupler (ATC1)



Part #	Mfg #	Description
TOL02702	SSX34	Superheat and Subcooler Checker

## Wireless Digital Multimeter

- Designed for HVACR field service
- Receives measurements wirelessly from any Fieldpiece accessory heads when they are connected to the wireless transmitter included
- Measure wirelessly up to 75' away
- Continuity LED and beeper
- Silicone leads with detachable probe tips
- Tilt stand and magnetic hanger
- Maximum and minimum hold



Part #	Mfg #	Description
TOL03728	LT17AW	Wireless Digital Multimeter

## Fieldpacks

### Fieldpiece® Mega Pack

- Includes
  - EHDL1 Electronic handle
  - HG2 HVAC Guide® system analyzer with accessories less case
  - HS36 True RMS stick multimeter with blacklight less case
  - SMG5 Megger with case and leads
  - ADA2 Dual alligator clips
  - ASA2 Small alligators (pr)
  - AQC3 Flame diode kit AQC2+AQP1
  - ADLS2 Silicone deluxe
  - Velcro strip attaches ATB1 to pipe
  - ANC3 Briefcase
  - ATA1 thermocouple with alligator clip
  - ATWB1 Wet bulb thermocouple with alligator clip
  - ATC1 3/8" - 1-3/8" Small pipe clamp thermocouple
  - ATB1 Bead tip thermocouple
  - AAV3 Air velocity and temperature head
  - ACH4 400A AC Clamp head
  - ACM3 Carbon monoxide head
  - ADMN2 Dual-port manometer
  - AOX2 %CO and %O2, and temperature head
  - ASX14 Superheat & subcooling head for A/C
  - ATH4 Dual temperature head
  - ATIR3 Infrared temperature head
  - AVG2 Vacuum gauge head
  - PLM2 Mirror with LED light
  - PMG2 Lighted magnet tool



Part #	Mfg #	Description
TOL03427	HS36K40	Fieldpiece Mega Pack

# Test Instruments

## HS36 Midsize Gas Fieldpack

- Includes:
  - EHDL1 Electric handle
  - HS36 True RMS stick multimeter with backlight less case
  - ADA2 Dual alligator clips
  - ASA2 Small alligators (pr)
  - AQK3 Flame diode kit AQC2+AQP1
  - ADLS2 Silicone delux
  - Velcro strip attaches ATB1 to pipe
  - ANC3 Briefcase
  - ATA1 Thermocouple with alligator clip
  - ATWB1 Wet bulb thermocouple with alligator clip
  - ATC1 3/8" - 1-3/8" Small pipe clamp thermocouple
  - ACH4 400A AC Clamp head
  - ATB1 Bead tip thermocouple
  - ACM3 Carbon monoxide head
  - AMN2 Manometer head
  - ARH4 %RH, WB, dew point, air temperature head
  - AVG2 Vacuum gauge head



Part #	Mfg #	Description
TOL02591	HS36K19G	Midsize Gas Fieldpack

## HVAC/R Data Logger Gas Fieldpack

- Includes:
  - EHDL1 Electronic handle
  - DL3 Data logger with accessories less case
  - HS36 True RMS stick multimeter with backlight less case
  - SMG5 Megger with case and leads
  - ADA2 Dual alligator clips
  - ASA2 Small alligators (pr)
  - AQK3 Flame diode kit AQC2+AQP1
  - Silicone deluxe
  - Velcro strip attaches ATB1 to pipe
  - ANC3 Briefcase
  - ATA1 Thermocouple with alligator clip
  - ATWB1 Wet bulb thermocouple with alligator clip
  - ATB1 Bead tip thermocouple
  - AAV3 Air velocity temperature head
  - ACM3 Carbon monoxide head
  - AMN2 Manometer head
  - ARH4 %RH, WB, dew point and air temperature head
  - ASX14 Superheat and subcooling head for A/C
  - ATIR3 Infrared temperature head
  - AVG2 Vacuum gauge head
  - AVH1 Volt head
  - PLM2 Mirror with LED light
  - PMG2 Lighted magnet tool



Part #	Mfg #	Description
TOL02615	HS36K35G	HVAC/R Data Logger Gas Fieldpack

## Handles & Adapters

### EHDL1 Electronic Handle

- Resolution: 0.1 mV
- Accuracy VDC: +/- (0.5%rdg + 1dgt)
- Accuracy VAC: +/- (1.2%rdg + 3dgt) 50 - 500Hz
- Overload protection: 30VDC or 24VAC



Part #	Mfg #	Description
HDL00886	EHDL1	Electronic Handle

### EH4W Wireless Electronic Handle

- Includes ET2W wireless transmitter
- Wireless range: Up to 75'
- Wireless frequency: 910MHz - 920MHz
- Displacy: 5000 count FSTN LCD
- Measurement rate: 2.5 times per second, nominal
- Battery life: 200 hours typical with alkaline
- Operating enviornment: 32°F - 122°F at <70% relative humidity



Part #	Mfg #	Description
MTR01340	EH4W	Wireless Electronic Handle

# Test Instruments

## HVAC Guide® System Analyzers

### Wireless HVAC Guide® System Analyzer

- Accurately diagnose systems with real-time data
- (12) Wireless parameters for live analysis
- Multi-parameter data logging
- Eliminates measurement reconnections
- Monitors system while making adjustments
- Easy, one-time set up
- Holds up to 200 tests on internal memory
- Includes:
  - Wireless HVAC guide (HG3)
  - Wireless handle (ET2W)
  - Dual temperature accessory head (ATH4)
  - Dry bulb thermocouple (ATA1)
  - Wet bulb thermocouple (ATWB1)
  - CD to download software
  - Computer cable to transfer data
  - Nylon carrying case (ANC8)



Part #	Mfg #	Description
MTR01330	HG3	Wireless System Analyzer

## Stick Meters

### HS26 Heavy-Duty Stick Style DMM

- Removable test tip
- Non-slip rubberized finger pad
- "Display hold" indicator
- "Max hold" indicator
- Low battery indicator
- "Hold" freezes display



Part #	Mfg #	Description
TOL00310	HS26	Meter w/Capacitance, Hi-Volt Beeper, 200mV AC/DC Ranges for 0.1 Resolution When Used with Accessory Head

### HS33 Stick Style DMM

- Works with all accessory heads
- Non-contact voltage
- Includes:
  - Expandable manual ranging stick multimeter for HVAC/R (HS33)
  - 400A Clamp accessory (ACH4)
  - Deluxe silicone test leads (ADLS2)
  - Short alligator lead extensions (ASA2)
  - Deluxe meter case (ANC1)
  - 9-Volt battery (installed)
  - Operator's manual



Part #	Mfg #	Description
TOL01911	HS33	Stick Meter
TOL01913	HS33K14	Stick Meter Kit Includes HS33, ADA2, ASA2, AQC3, ANC8, ATC1, ACH4, GACM3, GAMN2, ARH4, AUA2

### HS35 Stick Style DMM

- Works with all accessory heads
- Microamps for flame rectifier diode tests
- For variable frequency drives
- Non-contact voltage
- Includes:
  - Expandable auto ranging stick multimeter (HS35)
  - 400A Clamp accessory (ACH4)
  - Deluxe silicone test leads (ADLS2)
  - Short alligator lead extensions (ASA2)
  - Deluxe meter case (ANC1)
  - 9-Volt battery (installed)
  - Operator's manual



Part #	Mfg #	Description
TOL01912	HS35	Stick Meter

# Test Instruments

## HS36 Stick Style DMM

- True RMS
- Auto-ranging
- Microamps for flame rectifier diode tests
- For variable frequency drives
- Thermocouple plugs in directly
- Non-contact voltage
- For motor-run and motor-start capacitors
- Backlight
- Includes:
  - Rubberized case with magnetic hanger
  - 400A AC Clamp head
  - Deluxe silicone test leads
  - Alligator clips
  - K-Type thermocouple
  - Batteries
  - Operator's manual
  - RFM66 Fuse



Part #	Mfg #	Description
KIT09516	HS36	Stick Meter

## Electrical Testers

### SMG5 Megohm Meter

- Low cost for checking compressor insulation
- Predicts compressor failure
- Backlit LCD display
- Automatic power off
- Case, alligator clip, leads with removable tips



Part #	Mfg #	Measures
MTR00819	SMG5	Insulation Resistance Megohm Meter

## Voltage Detectors

### Non-Contact Voltage Tester

- Detects AC voltages without contact
- Bright red LED light
- Buzzer
- Range: 24VAC to 440VAC
- Senses: 24VAC for thermostat
- Conveniently clips to shirt pocket



Part #	Mfg #	Description
SEN01610	SNCV1	Non-Contact Voltage Tester

## Psychrometers

### SDP2 Dual In-Duct Diagnostic Psychrometer

- Temperature range: -4°F - 140°F
- Simultaneously measures supply wet bulb and temperature and return wet bulb and temperature in real time
- Sends live indoor wet bulb readings while charging at condenser
- Real-time target evaporator exit temperature and target delta T
- Displays actual unit performance and calculates how unit should be performing
- Shows enthalpy changes across the evaporator in real time
- Wirelessly sends all four evaporator temperatures to system analyzer for full system diagnostics
- Bright backlight
- Threaded in-duct probe locks
- Ruled 38" telescoping probes
- Magnetic hanger for hands-free testing
- Dual display
- Automatic power-off
- Battery life: 150 hours with low battery indication



Part #	Mfg #	Temperature Range
MTR01432	SDP2	Dual In-Duct Diagnostic Psychrometer





# Test Instruments

## Combustion Meters

### SOX3 AutoPump Combustion Check Meter

- Measures:
  - Flue gasw
  - Percent oxygen
- Calculates:
  - Combustion efficiency
  - Percent carbon dioxide
  - Percent excess air
- Automatic electric pump with pause
- Field-replaceable oxygen sensor
- Tests any type of fuel
- Magnet attached to hang for ease of getting the sample
- Bright blue backlight
- Automatic power-off to help extend battery life
- Hold/minimum/maximum button holds the reading
- Includes:
  - Combustion check (SOX3)
  - Barrel and thermocouple handle (RSOX3)
  - Threaded barrel lock (RCONE1)
  - Filter accessory kit (RAOX9)
  - Padded, blow-molded case



Part #	Mfg #	Description
MTR01413	SOX3	Combustion Check Meter

### Oxygen Sensor



Part #	Mfg #	Description
TOL04042	RSO2	Field Replaceable Oxygen Sensor for SOX3

### Thermocouple Kit



Part #	Mfg #	Description
TOL04043	RSOX3	Barrel, Handle, Thermocouple and Hose for SOX3

## Data Loggers

### DL3 Data Logger

- 20,000 Data points
- Real time clock
- Span programmable: 1 second to 999 days
- Period programmable: 1 second to 999 hours
- 0.01mV Resolution, LCD output
- Downloadable to computer



Part #	Mfg #	Description
MTR01105	DL3	Expandable Data Logger

### USB Cable



Part #	Mfg #	Description
CAB01560	RCBLDL5	Replacement USB Cable for DL2 and DL3

## In-Duct Instruments

### AAT3 In-Duct Hot-Wire Anemometer & Air Velocity Head

- Measures air velocity, temperature and %RH
- Velocity range: 40-3940' per minute
- Relative humidity range: 0% - 100%
- Temperature range: -4°F - 140°F
- Calculates wet bulb and dew point
- Battery life: 20 - 35 hours
- Automatic power off after 15 minutes of inactivity if APO is active
- Calculates target superheat, target evaporator exit temperature and CFM when connected to HG3



Part #	Mfg #	Description
MTR01384	AAT3	In-Duct Hot-Wire Anemometer and Psychrometer



# Test Instruments

## ARH5 In-Duct Psychrometer Head

- Measures temperature and %RH
- Temperature range: -4°F - 140°F
- Relative humidity range: 0% - 100%RH
- Calculates wet bulb and dew point
- Battery life: 150 hours
- Automatic power off after approximately 15 minutes
- Calculates target superheat, target evaporator exit temperature when connected to HG3



Part #	Mfg #	Description
MTR01361	ARH5	In-Duct Psychrometer Head

## SRH3 In-Duct Diagnostic Psychrometer

- Measures temperature and %RH
- Temperature range: -4°F - 140°F
- Relative humidity range: 0% - 100%RH
- Calculates wet bulb, target superheat, target evaporator and exit temperature
- Automatic power off
- Battery life: 150 hours with low battery indication



Part #	Mfg #	Description
MTR01360	SRH3	In-Duct Diagnostic Psychrometer

## STA2 In-Duct Hot-Wire Anemometer

- Measures air velocity and temperature
- Stated accuracy @ 73°F:  $\pm 9^\circ\text{F}$  ( $23^\circ\text{C} \pm 5^\circ\text{C}$ ), <90%RH
- Calculates CFM
- Slim 38" telescoping probe for in duct traversing
- Fast response time
- Dual display for combo of real-time CFM, air velocity, or temperature
- Depth and direction indicators
- Minimizes turbulence effect with time/test point averages
- Hands-free testing with stabilizing cone and magnetic hanger



Part #	Mfg #	Description
MTR01359	STA2	In-Duct Hot-Wire Anemometer

## Psychrometers

### PRH2 Digital Pocket Psychrometer

- Measurements can be taken in the duct or while walking around
- Backlit, dual display:
  - Wet bulb
  - Dry bulb
  - Dew point
  - % Relative humidity (RH)



Part #	Mfg #	Description
MTR01378	PRH2	Digital Pocket Psychrometer

## Tachometers

### SRPM2 Optical Laser Tachometer

- Works to 40"
- Range: 1.5 - 99,999 rpm
- Protective rubber boot
- Includes:
  - Carrying case
  - (2) Reflective strips



Part #	Mfg #	Description
MTR01063	SRPM2	Optical Laser Tachometer

## Condensate Drain Tools

### Clog Popper

- Creates a powerful vacuum to clear condensate drain clogs
- Includes 3/4" PVC assorted fittings and adapters to fit various tubing and pipe sizes



Part #	Mfg #	Description
TOL04114	SCP2	Clog Popper

# Test Instruments

## Infrared Thermometers

### Gun Style Infrared Thermometer with Laser

- Select °F or °C
- Accuracy:  $\pm 4^{\circ}\text{F}$  or 2% rdg
- Resolution:  $1^{\circ}\text{F}$
- Automatic data hold
- Backlight
- 10:1 Field of view
- Automatic power off



Part #	Mfg #	Measurement Range
MTR00953	SIG1	-22° to 1022°F

### Infrared Thermometer with Laser Sight

- Conveniently fits in a shirt pocket
- View angle 3:1 laser guide
- Faster than thermistor based thermometers
- Use immediately after pulling from your pocket
- Range:  $-27^{\circ}$  to  $482^{\circ}\text{F}$



Part #	Mfg #	Includes:
THR00058	SIR2	Infrared Thermometer w/Laser Sight

## Pocket Thermometers

### Pen Style Thermometer

- Field of view 1:1
- Protective IR lens cap
- Automatic data hold
- Automatic power off to extend battery life



Part #	Mfg #	Description
TOL02586	SIL2	Pocket Thermometer w/LED

## Pocket Knife Style Thermometer

- Easily hangs from vent or thermostat
- Pull out rod just like you would a pocket knife
- Grooves hold rod at any angle
- Easily hangs from flex duct
- Rod folds away; no sleeve to lose
- Range:  $-58^{\circ}$  to  $392^{\circ}\text{F}$



Part #	Mfg #	Description
THR00096	SPK1	Pocket Knife Style Thermometer

## Folding Pocket In-Duct Thermometer

- Low battery indicator
- Calculates T1-T2
- Auto-off function
- 8,000 Hours of battery life on (1) AA battery



Part #	Mfg #	Description
THR00104	SPK2	Folding Pocket In-Duct Thermometer

## Rod and IR Temperature Pocket Style Tool

- Folding ROD for in-duct measurements
- 8:1 IR for register and ambient temperatures
- Hands-free in-duct measurements
- Quickly calculates T1-T2 across both ROD and IR



Part #	Mfg #	Description
THR00102	SPK3	Rod and IR Temperature Pocket Style Tool



# Test Instruments

## Thermometers

### Ruggedized Dual Temperature Thermometer

- Rugged rubber boot
- Min/max and hold
- LED Indicates disengaged probe
- (2) K-Type thermocouples included
- Range: -58°F to 2,000°F
- Includes clear-front case with magnetic hanger



Part #	Mfg #	Description
TOL02102	ST4	Dual Temp Thermometer with Thermocouples

### Shirt Pocket IR Thermometer

- Field of view 1:1
- Resolution: 0.1°F
- Faster than thermistor-based thermometers
- Range: -22° to 1,023°F
- Auto-power off to extend battery life



Part #	Mfg #	Description
TOL03191	SIP2	Shirt Pocket IR Thermometer

### Water Resistant Thermometer

- Sealed for field use
- Minimum/maximum function
- Temperature range: -58°F to 392°F
- Auto-off function



Part #	Mfg #	Description
MTR01102	SWT2	Water Resistant Pocket Thermometer



# Thermal Images

## Thermal Imagers

### Ti100 General Purpose Thermal Imager

- Temperature range: -4° - 482°F
- IR Detector resolution: 160 x 120
- (19,200 pixels)



Part #	Mfg #	Measures
MTR01375	FLK-TI100 9HZ	-20°C to 250°C

### Ti105 Industrial Thermal Imager

- 160 x 120 Infrared resolution
- Focus free (fixed focus) system
- Fluke Connect™ app compatible with included wireless SD card
- IR-Fusion® technology allows picture in picture, full IR, and full visible modes
- Field replaceable battery
- 2-Year warranty



Part #	Mfg #	Measures
FLK-TI105 30HZ	FLK-TI105-30HZ	-20°C to +250°C (-4 °F to +482 °F)

### Ti110 Industrial Thermal Imager

- 160 x 120 Resolution
- IR-OptiFlex™ Focus system with manual mode
- IR PhotoNotes™ annotation system
- IR-Fusion®, captures digital photo (visible light image) and infrared image fusing together
- Capture current measurements from up to five wireless modules at once
- Multi-mode video recording
- Records focus-free video in visible light and infrared
- Electronic compass (8-point Cardinal) to communicate location of problems
- 2-Year warranty



Part #	Mfg #	Measures
FLK-TI110 30HZ	FLUKE-TI110-30H Z	-20°C to +250°C (-4 °F to +482 °F)
MTR01409	FLUKE-TI110-30H Z/DEMO	-20°C to +250°C (-4 °F to +482 °F)

### Ti125 Industrial Thermal Imager

- 160 x 120 Infrared resolution
- IR-OptiFlex™ Focus system with manual mode
- IR PhotoNotes™ annotation system
- IR-Fusion®, captures digital photo (visible light image) and infrared image fusing together
- Capture current measurements from up to five wireless modules at once
- Multi-mode video recording
- Records focus-free video in visible light and infrared
- Electronic compass (8-point Cardinal) to communicate location of problems
- 2-Year warranty



Part #	Mfg #	Measures
MTR01410	FLK-TI125 30HZ	-20 °C to +350 °C (-4 °F to +662 °F)

### Ti200 Thermal Imager

- 200 x 150 Infrared resolution
- LaserSharp® auto focus
- Fluke Connect™ app compatible
- IR-Fusion® AutoBlend™ mode and picture in picture
- Wireless image transfer direct to PC, Apple® iPhone® or iPad®, and Android™ 4.3 and higher
- One-handed, easy to use interface
- Ruggedized touchscreen display
- Voice recording and annotation details saved with image file
- Optional interchangeable lenses
- Rechargeable, field replaceable smart batteries with five-segment LED display
- 5 Megapixel industrial-performance digital camera for high definition images
- Includes SmartView® and SmartView Mobile App Analysis and Reporting software



Part #	Mfg #	Measures
FLK-TI200 60HZ	FLK-TI200-60HZ	-20°C to +650°C -4°F to +1202°F



# Thermal Images

## Ti300 Thermal Imager

- 240 x 180 Infrared resolution
- LaserSharp® auto focus
- Fluke Connect™ app compatible
- IR-Fusion® AutoBlend™ mode and picture in picture
- Wireless image transfer direct to PC, Apple® iPhone® or iPad®, Android™ 4.3 and higher
- One-handed, easy to use interface
- Ruggedized touchscreen display
- Voice recording and annotation details saved with image file
- Optional interchangeable lenses
- Rechargeable, field replaceable smart batteries with five-segment LED display
- 5 Megapixel industrial-performance digital camera for high definition images
- Includes SmartView® and SmartView Mobile App Analysis and Reporting software



Part #	Mfg #	Measures
FLK-TI300	FLK-TI300-60HZ	-20°C to +650°C
	60HZ	-4°F to +1202°F

## Ti400 Thermal Imager

- 320 x 240 Infrared resolution
- LaserSharp® auto focus
- Fluke Connect™ app compatible
- IR-Fusion® AutoBlend™ mode and picture in picture
- Wireless image transfer direct to PC, Apple® iPhone® or iPad®, Android™ 4.3 and higher
- One-handed, easy to use interface
- Ruggedized touchscreen display
- Voice recording and annotation details saved with image file
- Optional interchangeable lenses
- Rechargeable, field replaceable smart batteries with five-segment LED display
- 5 Megapixel industrial-performance digital camera for high definition images
- Includes SmartView® and SmartView Mobile App Analysis and Reporting software



Part #	Mfg #	Measures
FLK-TI400	FLK-TI400-60HZ	-20°C to 1200°C
	60HZ	-4°F to 2192°F

## TiR110 Building Diagnostic Thermal Imager

- Temperature range: -4° - 302°F
- IR Detector resolution: 160 x 120



Part #	Mfg #	Measures
MTR01377	FLK-TIR110 9HZ	-20°C to 150°C

## TiR125 Building Diagnostic Thermal Imager

- Temperature range: -4° - 662°F
- IR Detector resolution 160 x 120



Part #	Mfg #	Measures
MTR01376	FLK-TIR125 9HZ	-20°C to 150°C

## Thermal Imager Accessories

### Telephoto Infrared Lens 2

- For use with Ti400, Ti300 and Ti200 infrared cameras
- Optional, field swappable
- Allows user to see and measure temperature of objects at greater distances, or smaller objects at normal distances



Part #	Mfg #	Field-Of-View
FLK-LENS	FLK-LENS/TELE2	12° X 9°
	-TELE2	

### Ti Visor 3

- For use with Ti 400, Ti 300, and Ti 200 infrared cameras
- Reduce LCD screen glare and reflection
- Indoor/outdoor
- Heavy-duty plastic
- Clips on without need for additional hardware
- Easily removed and stored when not in use



Part #	Mfg #	Description
FLK-TI-VIS	FLK-TI-VISOR3	Visor f/Ti400/300/200 IR Cameras
	OR3	



# Thermal Images

## Tripod Mounting Accessory 3

- Tripod mounting base for Ti 400, Ti 300, and Ti 200 infrared cameras



FLUKE

Part #	Mfg #	Description
FLK-TI-TRI POD3	FLK-TI-TRIPOD3	Tripod Mounting Base f/Ti 400/300/200 IR Cameras

## Wide-Angle Infrared Lens 2

- Optional, field swappable
- Allows user to have a wider field of view for working in tight spaces
- For us with Ti400, Ti300, and Ti200 infrared cameras



FLUKE

Part #	Mfg #	Field-Of-View
FLK-LENS -WIDE2	FLK-LENS/WIDE2	46° x 34°



# Thermometers

## Bi-Metal Thermometers

### 1" Dial CT Series Pocket Test Thermometer

- $\pm 2^{\circ}\text{F}$  Temperature accuracy
- Adjustment tool
- Features magnifying lens
- 5" Stainless steel shaft
- Protective red sheath with anti-microbial additive and pocket clip
- 1-Year limited warranty



Part #	Mfg #	Temperature Range	Grade
THR00079	CT180-51-6	-40° to 180°F	Economy 12/Pk
THR00085	CT220-51-6	0° to 220°F	Economy 12/Pk

## Digital Panel Thermometers

### Back Connect Digital Panel Thermometer

- 2" Diameter polycarbonate lens
- Front flange has (3) equally spaced holes on bolt circle
- Stainless steel with bright buff finish
- Powered by 1.5V LR754 battery (included)
- Temperature range: -40° - 450°F (-40° - 230°C)
- 15-Second response time
- 1-Year limited warranty
- CE Certified and RoHS compliant



Part #	Mfg #	Description
THT02970	DM450-0-3	Front Flange Back Connect Digital Panel Thermometer

### Back Connect Panel Refrigerator/Freezer Thermometer

- 2" Diameter polycarbonate removable lens
- Switchable between °F and °C
- Temperature range: -40° - 120°F (-40° - 49°C)
- 39" Sensor lead
- Mounting:
  - DM120 is Front flange surface
  - DM120S is Back flange surface
- 1-Year limited warranty
- CE and NSF Certified, RoHS and WEEE compliant



Part #	Mfg #	Description
SEN01500	DM120-0-3	Front Flange Back Connect Panel Refrigerator/Freezer Thermometer

### Mini Rectangular Digital Panel Thermometer

- Switchable between °F and °C
- Maximum/minimum and on/off features
- Polycarbonate housing
- Powered by (1) AA battery (included)
- Temperature range: -40° - 122°F (-40° - 50°C)
- 30-Second response time
- 1-Year limited warranty



Part #	Mfg #	Description
THR00088	PM120-0-8	Mini Rectangular Panel Thermometer





# Thermometers

## Mini Remote-Reading Thermometer/Hygrometer

- Compatible with 9302 mount flange
- Selectable between °F and °C
- Minimum/maximum and clear features
- Polycarbonate housing
- Powered by (1) AA battery (included)
- Temperature range: -12° - 140°F (-24° - 60°C)
- Humidity range: 10 - 99% RH
- 30-Second response time
- 1-Year limited warranty



Part #	Mfg #	Description
THR00089	PMRH120-0-8	Mini Remote-Reading Thermometer/Hygrometer

## Square Solar Panel Thermometer

- ABS Housing
- Operates using ambient light - natural, fluorescent and incandescent
- Uses (1) 1.5V A76 battery as an automatic back-up
- Switchable between °F and °C
- 10' PVC Cable
- Temperature range: -58° - 158°F (-50° - 70°C)
- 30-Second response time with 10-second updates
- 1-Year limited warranty
- CE Certified and RoHS compliant



Part #	Mfg #	Description
THR00090	SP120-0-8	Square Solar Panel Thermometer

## Solar Panel Thermometer

- ABS Housing
- Switchable between °F and °C
- Uses (1) AAA battery as an automatic back-up
- Operates using ambient light - natural, fluorescent and incandescent
- Temperature range: -58° - 158°F (-50° - 70°C)
- 30-Second response time
- 1-Year limited warranty
- CE Certified, RoHS and WEEE compliant



Part #	Mfg #	Description
THT02969	SP160-01-8	White Solar Panel Thermometer

## Digital Test Thermometers

### Digital Economy Oval Pocket Test Thermometer

- 1/4" Easy-to-read LCD display
- 4-5/8" Stainless steel shaft
- Switchable between °F and °C
- On/off switch
- Temperature accuracy:
  - ±2°F from -10° - 212°F
  - ±4°F Below -10°F and above 212°F
- Powered by 1.5V #LR44 battery
- Protective pocket sheath with clip
- <20-Second response time
- 1-Year limited warranty
- CE Certified, RoHS and WEEE compliant



Part #	Mfg #	Temperature Range
THR00078	DT300-0-8	-40° to 302°F (-40° to 150°C)



# Thermometers

## Swivel Head Digital Pocket Test Thermometer

- ABS Plastic housing with anti-microbial additive
- 1" Wide LCD display
- 5" Stainless steel shaft
- Switchable between °F and °C
- Temperature accuracy:
  - ±2°F From 32° - 212°F
  - ±4°F Below 32°F and above 212°F
- Swivels 90° in both directions (180°), stops at 30°, 45°, 60° or 90°
- Powered by (1) 1.5V LR44 battery
- Protective pocket sheath with clip
- On/off switch
- Automatic shut-off after 10 minutes
- <18-Second response time
- CE Certified, RoHS and WEEE compliant
- 1-Year limited warranty



Part #	Mfg #	Temperature Range
THR00080	DPS300-01-8	-40° to 302°F (-40° to 150°C)

## Digital Wall Thermometers

### Thermo-Hygrometer Humidity Tester

- ABS Plastic case
- Dual 1/2" LCD in wall mount plastic case
- Switchable between °F and °C
- Humidity range: 25 - 95% RH
- Temperature accuracy:
  - ±2°F From 32° - 104°F
  - ±4°F Above 104°F
- Humidity accuracy:
  - ±5 From 40 - 80% RH
  - ±7% Below 40% and above 80% RH
- No probes required; contains internal sensors
- Powered with (2) AA batteries (not included)
- 1-Year limited warranty



Part #	Mfg #	Temperature Range
SEN02078	TRH122M	14° to 140°F (-10° to 60°C)

## Glass Stick Indoor/Outdoor Thermometers

- 7-1/2"H x 2"W
- Non-toxic, spirit-filled glass tube
- Suction cups included for window mount
- Displays both °F and °C
- ±2°F Temperature accuracy
- 1-Year limited warranty



Part #	Mfg #	Temperature Range
THR00084	268-02-8	-40° to 120°F (-40° to 50°C)

## Infrared Thermometers

### Gun Style Infrared Thermometer with Dual Laser

- ABS Plastic housing
- LCD Display with amber backlight
- Dual-point Class II laser
- Switchable between °F and °C
- Includes:
  - (2) AAA Alkaline batteries
  - ABS Plastic carrying case
  - Magnetic stand
- Temperature accuracy: ±2% or ±4°F (±2°C), whichever is greater
- Minimum/maximum memory, difference and lock features
- High/low alarms
- Automatic shut-off
- 1-Second response time
- 35:1 Spot ratio
- CE Certified, RoHS compliant and WEEE marked
- 1-Year limited warranty



Part #	Mfg #	Temperature Range
MTR01371	424-0-8	-76° to 1,600°F (-60° to 900°C)



# Thermometers

## Infrared with Laser & Thermocouple Jack

- Innovative design incorporates non-contact infrared thermometer to measure surface temperature
- Single-dot laser sighting
- High and low alarms
- Back-lit LCD
- Automatic data hold
- Average, maximum, minimum, differential and lock modes
- Probe not included



Part #	Mfg #	Temperature Range
MTR01049	412	-83° to 932°F

## Mini Infrared Thermometer

- Switchable between °F and °C
- ±3.6°F (±2°C) Temperature accuracy
- Minimum/maximum memory, hold and lock features
- Includes lithium button cell CR2032 battery
- 15-Second automatic hold and shut-off
- 1-Second response time
- 1-Year limited warranty
- CE Certified, RoHS compliant and WEEE marked



Part #	Mfg #	Temperature Range	Spot Ratio
THR00091	470-0-8	-27° to 428°F (-33° to 220°C)	1:1

## Panel Thermometers

### Digital Solar Panel Thermometer

- Compact size
- Requires no external power source
- Solar powered with 1.5V AAA battery backup
- 30-Second response time
- 1-Year warranty



Part #	Mfg #	Temperature Range	Color
SEN01501	SP160-01-8	-58° to 158°F	White

## Pocket Thermometers

### Bi-Metal Pocket Test Thermometer

- 1" Diameter dial
- 5" Shaft length
- Stainless steel stem
- Adjustment tool
- Protective red sheath with anti-microbial additive with pocket clip
- NSF Certified
- 1-Year warranty



Part #	Mfg #	Temperature Range
THR00072	1246-01	-40° to 180°F
THR00073	1246-02	0° to 220°F

### Food Service Digital Pocket Test Thermometer

- 0.25" High LCD display
- Easy-access batteries
- Protective red sheath with clip
- Thermistor sensors
- 5" Stainless steel stem
- Instant update button
- Automatic shut-off
- Temperature alarm
- Flat head waterproof



Part #	Mfg #	Temperature Range
THR00071	DFP450W-0-8	-40° to 450°F

### Waterproof Pen-Style Digital Pocket Test Thermometer

- 1/4" Easy-to-read LCD
- 2.75" Shaft length
- Auto off after 10 minutes
- °F/°C Switchable
- IPX7 Water-proof rated
- ABS Plastic housing with anti-microbial additive
- Protective pocket sheath with clip
- On/off switch
- Lifetime warranty



Part #	Mfg #	Temperature Range
THR00097	DPP400W-0-8	-40° to 392°F



# Thermometers

## Refrigerator & Freezer Thermometers

### Horizontal Glass Tube Thermometer

- 1.3" x 5" Non-toxic spirit-filled glass tube with magnifying lens
- Hang, stand, or permanently mount
- Stainless steel casing
- $\pm 2^\circ\text{F}$  Temperature accuracy
- 1-Year limited warranty
- NSF Certified



Part #	Mfg #	Temperature Range
THR00087	335-01-1	-40° to 80°F (-40° to 25°C)
THR00070	335-01-2	-40° to 80°F, 2/Pk

### Lightweight Vertical Glass Tube Refrigerator & Freezer Thermometer

- 3" Non-toxic spirit filled glass tube
- Plastic casing
- NSF Certified
- 1-Year warranty



Part #	Mfg #	Temperature Range
THR00082	330	-40° to 120°F

### Refrigerator, Freezer & Dry Storage Thermometer

- Stainless steel frame/bezel either hangs or stands
- 1-3/4" HACCP reference dial displays both °F and °C
- $\pm 2^\circ\text{F}$  Temperature accuracy
- Hangs or stands
- 2" Height
- 1-Year limited warranty
- NSF Certified



Part #	Mfg #	Temperature Range
THR00086	25HP001-1	-20° to 80°F
THR00069	25HP-01-2	-20° to 80°F, 2/Pk

## Refrigerator & Freezer Glass Tube Thermometer

- Non-toxic spirit filled glass tube
- Includes (2) L-brackets
- Temperature range: -40° - 120°F
- 1 Year warranty



Part #	Mfg #	Temperature Range
THT02973	332-0-4	-40° to 120°F (-40° to 50°C)

## Remote Vapor Tension Refrigerator & Freezer Thermometers

### Remote Vapor Tension Panel Thermometer

- Polycarbonate lens/bezel
- Dual scale dial
- 2" Dial diameter
- Strap hanger
- 1-Year warranty



Part #	Mfg #	Temperature Range
MTR01569	6642-12	40° to 240°F (10° to 115°C)

## Digital Thermometers

### Digi-Alarm Thermometer

- No calibration
- °F/°C Switchable
- Data hold function
- Key tone for operation confirmation
- Maximum/minimum temperature memory
- Fold-away stand
- Automatic self test after battery installation
- Measurement range: -58° to 392°F



Part #	Mfg #	Description
MTR00965	69239	Digi-Alarm Thermometer



# Thermometers

## K-Type Probe for Pocket Differential and Single Probe Digital Thermometer



Part #	Mfg #	Description	Max Temp	Lgth	Resp Time
MTR01135	69215	Air Probe	1100°F	4'	5 sec
TOL01762	69216	1.25" Clamp-On	1100°F	4'	12 sec
TOL03331	69218	Gen Purpose	500°F	3'	3 sec
MTR01136	69222	Probe	570°F	4'	12 sec
TOL02169	69224	Strap-On	300°F	12'	12 sec

## ManTooth™ Dual Pressure Wireless Digital P/T Gauge Accessories



Part #	Mfg #	Description
TOL02146	93394	1/4" Flare Cap & Strap
TOL02147	93395	1/2" Flare Cap & Strap

## Infrared Thermometers

### Infrared Thermometer

- Real time temperature of the surface measured
- Highest and lowest temperature taken
- Average temperature from the time the power key was first pressed
- Determines net temperature difference between two surfaces or readings of the same surface to calculate net heating or cooling



Part #	Mfg #	Description
TOL01542	69235	Infrared Thermometer (°F)

## Pistol-Grip Infrared Thermometer

- Temperature range: -40° - 932°F
- Selectable 3-point emissivity for simple set-up
- Backlit for dark area use
- °F/°C Switchable
- Accuracy: +/- 2% of 2°C
- Resolution: 0.1°F @ -40° - 212°F
- Fast response time of 500 ms



Part #	Mfg #	Description
TOL02116	69228	Pistol-Grip Infrared Thermometer

## Pocket Thermometers

### Pocket Thermometer

- Adjustable dial thermometer
- 5" Stainless steel stem and stainless steel case
- Individually calibrated
- Shock-resistant



Part #	Mfg #	Description
THR00099	69251	1" Dial 0° to 220°F (12/Pk)
THR00101	69255	1-3/8" Dial -40° to 160°F (12/Pk)
THR00098	69256	1-3/8" Dial 0° to 220°F (12/Pk)

### Pocket Digital Thermometer

- Reads -58°F - 302°F (-50°C - 150°C)
- Digital hand rotates 180° for easy reading
- Auto shut-off after 10 minutes saves battery
- Reading updates every second
- 5" Stem



Part #	Mfg #	Description
THR00042	69107	Pocket Digital Thermometer
THR00100	69250	69107 Display (12/Pk)
BAT00029	69110	Battery for 69107



# Tool Sets

## Tool Sets

### 12-Piece Electrician Tool Set

- Includes:
  - (1) Side-cutting pliers
  - (1) Diagonal-cutting pliers
  - (1) Long-nose side-cutting pliers
  - (1) Pump pliers
  - (1) Wire stripper/cutter
  - (1) Metric/English tape measure
  - (1) Phillips-tip screwdriver
  - (1) Cabinet-tip screwdriver
  - (2) Square-recess-tip screwdriver
  - (1) 18-Pocket tool pouch
  - (1) Powerline™ web work belt



Part #	Mfg #	Description
TOL04590	92003	12-Pc Electrician's Tool Set

### 18-Piece Journeyman™ Tool Set

- Includes:
  - (1) Side-cutting pliers
  - (1) Diagonal-cutting pliers
  - (1) Long-nose pliers
  - (1) Pump pliers
  - (1) Adjustable wrench
  - (1) Phillips-tip screwdriver
  - (1) Wire-bending screwdriver
  - (2) Cabinet-tip screwdrivers
  - (1) Rapi-driv® screwdriver
  - (1) Square-recess tip screwdriver
  - (2) Nut drivers
  - (1) 25' x 1" Tape measure
  - (1) Klein-Kurve® wire stripper/cutter
  - (1) Protective eyewear
  - (1) Powerline™ work belt
  - (1) 10-Pocket tool pouch



Part #	Mfg #	Description
TOL02736	80118	18-Pc Journeyman Tool Set

### 28-Piece Electrician's Tool Set

- Includes:
  - (1) Long-nose side-cutting pliers
  - (1) Side-cutting pliers
  - (1) Diagonal-cutting pliers
  - (1) Pump pliers
  - (1) Adjustable wrench
  - (2) Keystone-tip screwdrivers
  - (3) Cabinet-tip screwdrivers
  - (1) Wire bending screwdriver
  - (1) Square-recess tip screwdriver
  - (1) Conduit-fitting and reaming screwdriver
  - (1) 7-Piece nut driver set
  - (1) Crimping/cutting tool
  - (1) Wire stripper/cutter
  - (1) Retractable blade utility knife
  - (1) 25' x 1" Tape measure
  - (1) Magnetic torpedo level
  - (1) Protective eyewear
  - (1) 16" Canvas tool bag
  - (1) Canvas zipper bag



Part #	Mfg #	Description
TOL02737	80028	28-Pc Electrician's Tool Set

## Tool Sets

### 41-Piece Journeyman™ Tool Set

- Includes:

- (1) 12-Piece ball-end hex-key cady set
- (1) Long-nose pliers
- (1) Long-nose side-cutting pliers
- (1) Side-cutting pliers
- (1) Diagonal-cutting pliers
- (1) Pump pliers
- (2) Adjustable wrenches
- (3) Keystone-tip screwdrivers
- (3) Cabinet-tip screwdrivers
- (2) Philips-tip screwdrivers
- (1) Wiring bending screwdriver
- (1) Square-recess tip screwdriver
- (1) Rapi-Driv® cabinet-tip screwdriver
- (1) Conduit-fitting and reaming screwdriver
- (1) 7-Piece nut driver set
- (1) Crimping/cutting tool
- (1) Klein-Kurve® cable stripper/cutter
- (1) Klein-Kurve® wire stripper/cutter
- (1) Klein-Kurve® utility knife
- (1) Cable cutter
- (1) Cable-splicer's kit
- (1) Scratch awl
- (1) 20' x 1" Tape measure
- (1) Magnetic torpedo level
- (1) Fish tape
- (1) Protective eyewear
- (1) Padded shoulder strap
- (1) 10-Pocket canvas tool bag
- (1) Canvas zipper bag



Part #	Mfg #	Description
TOL04589	80141	41-Pc Journeyman Tool Set

# Tool Bags

## Tool Bags

- Orange interior for easy tool visibility
- 1680d Ballistic weave

### Canvas Tool Bag

- Heavy-duty No. 8 natural canvas
- Rivet reinforced for durability
- Steel frame mouth with hinge
- Stitched and riveted leather handles
- (2) Retaining straps with buckles
- Bottom and lower sides are covered with moisture-resistant vinyl
- Non-scratch studs on base



5102-16



Part #	Mfg #	Size
TOL02727	5102-12	12"L x 6"W x 10"D
TOL02728	5102-14	14"L x 6"W x 14"D
TOL02682	5102-16	16"L x 6"W x 14"D

### Canvas/Naugahyde® Tool Bags

- Heavy-duty No. 8 natural canvas
- Reinforced for durability, 6 studs protect bottom
- 6" Wide x 14" Deep
- 5003 Model features:
  - External pocket
  - Bottom and 3" of side covered with black leather
  - 2" Wide 900 pound test polypropylene-web handles
  - One black retaining strap
  - Leather handle wrap
  - External tool loop in the handle webbing



5002



5003

Part #	Mfg #	Description
TOL02681	5003-18	18" Canvas w/Leather
TOL02957	5003-20	20" Canvas with Leather

## Carrying Case

- 600 Denier nylon
- Heavy-duty PVC zipper



Part #	Mfg #	Size
HLD00491	69401	3-1/2" x 9-1/2"

## Combination Glove & Sleeve Bag

- Panels are tough No. 4 canvas
- Provides separate storage for gloves and sleeves
- Brass grommets in bottom for ventilation
- Bags are 8" wide
- Supplied with two-way snap
- Includes safety notice to remind workers of the importance of using gloves



Part #	Mfg #	Size
TOL02953	5122-18	18"L x 8"W x 4-12/16"D

## Contractor's Zipper Portfolio

- No. 10 canvas
- Heavy-duty brass zipper



Part #	Mfg #	Size
TOL03583	5336	17" x 12"

## Cordura® Ballistic Nylon Tool Bag

- Cordura® ballistic nylon
- Molded polypropylene bottom
- (8) Interior pockets
- (2) Exterior pockets
- Heavy-duty nylon zipper closure
- Box-stitched handles
- D-ring shoulder strap mounts



Part #	Mfg #	Description
TOL03111	5200-15	(8) Interior Pockets, (2) Exterior Pockets



# Tool Bags

## High Bottom Canvas Tool Bag

- Heavy-duty No. 8 natural canvas
- Bottom and 8" of lower sides are covered with moisture-resistant vinyl
- Non-scratch studs on base
- Steel frame mouth with hinges
- Harness-leather handles with (2) retaining straps and buckles



Part #	Mfg #	Size
CAS01834	5105-24	24"L x 15"D x 6"W

## Tool Organizer

- Constructed of double-layered 600 x 300 denier polyester
- Water-resistant
- Interior pockets include:
  - (3) Tool sleeves
  - (1) Power tool/cord sleeve
  - (6) Universal pockets
- Exterior pockets include:
  - (9) Screwdriver/nut driver pockets
  - (11) Plier pockets
  - (11) Utility pockets
  - (2) Wire stripper pockets
  - (2) Velcro® closeable pockets
- Heavy-duty webbing keeps pockets open for easy access to supplies and tools
- Tools are sold separately



Part #	Mfg #	Description
TOL02678	5777	Tool Organizer (45) Pockets

## Top-Grain Leather Zipper Bag

- Brushed cowhide leather



Part #	Mfg #	Size
TOL02959	5139L	12-1/2" x 7"

## Tradesman Pro™ Large Carrying Case

- 2-Layer padding
- Heavy-duty zipper
- Rugged PVC coated polyester
- (1) Interior pocket and (1) exterior pocket
- Handle with box stitching



Part #	Mfg #	Size
HLD00574	69408	2-1/4" x 7" x 10-1/4"

## Tradesman Pro™ Medium Carrying Case

- 2-Layer padding
- Heavy-duty zipper
- Rugged PVC coated polyester
- (1) Interior pocket and (1) exterior pocket
- Handle with box stitching



Part #	Mfg #	Dimensions
HLD00573	69407	2-1/4" x 6" x 10-1/4"

## Tradesman Pro™ Organizer ShoulderPouch

- Tough, durable rubber feet



Part #	Mfg #	Description
HLD00499	55419-SP	(9) Interior Pockets, (7) Exterior Pockets, 8"L x 5"W x 10"H

# Tool Bags

## Tradesman Pro™ Organizer Tech Backpack

- Separate compartment keeps laptop protected from other tools
- Storage for adapters and cables
- Organizer pocket for small items
- Hard molded front pocket for safety glasses
- Orange interior
- Molded bottom
- Shoulder straps and handle



Part #	Mfg #	Description
HLD00571	55456BPL	Organizer Tech Backpack with (25) Pockets

## Tradesman Pro™ Organizer Tech Bag

- Separate compartment keeps laptop protected from other tools
- Storage for adapters and cables
- Zipper pocket for files and paperwork
- Organizer pocket for small items
- Orange interior
- Protective guards and water-resistant material on bottom
- Shoulder strap and handle



Part #	Mfg #	Description
HLD00570	55455M	Organizer Tech Bag with (22) Pockets

## Tradesman Pro™ Organizer Backpack

- Orange interior for easy tool visibility
- Wide opening
- Tough, durable molded bottom
- Large front pocket easily fits fish tapes
- 1680d Ballistic weave



Part #	Mfg #	Description
HLD00503	55421-BP	(34) Interior Pockets, (5) Exterior Pockets, 18"H x 14"L x 7"W
HLD00608	55421BP-14	(39) Pockets, 20"H x 7-1/4"W x 14-1/2"L

## Tradesman Pro™ Organizer Extreme Electrician's Bag

- Lock bars keep bag propped open
- Hard molded pocket protects tools, meters and tech devices
- Wide center with removable pockets for easy access to tools
- Orange interior for easy tool visibility
- Fully molded bottom protects from the elements
- 1680D Ballistic weave for durability
- Shoulder strap with extra padding and handles for easy carrying



Part #	Mfg #	Description
HLD00605	5541718-14	(78) Pockets, 14"H x 10"W x 17-1/2"L
HLD00510	55417-18	(53) Interior Pockets, (25) Exterior Pockets, 19"L x 6.5"W x 16"H

## Tradesman Pro™ Organizer Camo Backpack

- Realtree® AP-Xtra camouflage design
- (39) Pockets for tool storage
- Orange interior for easy tool visibility
- Hard, molded front pocket
- Front zipper pocket
- Taller bag and interior pockets
- 1680D Ballistic weave



Part #	Mfg #	Description
TOL04223	55421BP-14CA MO	Camo Backpack

## Tradesman Pro™ Organizer Ultimate Electrician's Bag

- Lock bars to keep bag propped open
- (2) Padded meter pockets
- Orange interior for easy tool visibility
- Fully-molded bottom
- 1680D Ballistic weave
- Padded shoulder strap and carrying handles



Part #	Mfg #	Description
HLD00509	55418-19	(2) Interior Pockets, (53) Exterior Pockets, 14"H x 10"W x 17.5"L
HLD00606	5541819-14	(55) Pockets, 16"H x 6-1/2"W x 19"L

# Tool Bags

## Tradesman Pro™ Organizer Rolling Tool Bag

- Rugged 6" wheels
- Orange interior
- Molded kick plate
- Reinforced metal frame
- Load tested up to 200 lbs
- Heavy-duty telescoping handle
- 600D Ballistic weave



Part #	Mfg #	Description
HLD00553	55452RTB	Rolling Tool Bag with (24) Pockets

## Tradesman Pro™ Organizer 8" Tote

- Removable zipper bag
- Tough, durable feet



Part #	Mfg #	Description
HLD00501	55415-8	(9) Interior Pockets, (11) Exterior Pockets, 17"H x 8"W x 8"L

## Tradesman Pro™ 8" Tote

- Orange interior to find tools faster
- Large zipper pocket for small parts and tools
- Fully-molded bottom
- 1680D Ballistic weave
- Padded shoulder strap and carrying handles



Part #	Mfg #	Description
HLD00603	554158-14	(20) Pockets, 17"H x 8-3/4"W x 8-3/4"L

## Tradesman Pro™ Organizer 10" Tote

- Removable zipper bag
- Tough, durable feet



Part #	Mfg #	Description
HLD00502	55416-10	(18) Interior Pockets, (22) Exterior Pockets, 12"H x 10"W x 10"L

## Tradesman Pro™ Shoulder Pouch

- Large pockets for small parts and tools
- Fully-molded bottom
- Orange interior for better tool visibility
- 1680D Ballistic weave
- Padded shoulder strap and carrying handle



Part #	Mfg #	Description
HLD00607	55419SP-14	(14) Pockets, 10"H x 5"W x 8"L

## Tradesman Pro™ Lighted Tool Bag

- Orange interior for easy tool visibility
- Twist on/off removable LED light with swivel hook and magnet
- Fully molded bottom
- 1680D Ballistic weave
- Shoulder strap



Part #	Mfg #	Description
TOL04219	55431	(31) Pockets, 14"H x 8"W x 15-1/4"L

## Tradesman Pro™ 17" Tool Tote with Cover

- Attached cover
- Movable metal handle bar with rubber grip
- Wide open section for drills and zipper bags
- Fully molded bottom
- Orange interior
- 1680D Ballistic weave
- Shoulder strap



Part #	Mfg #	Description
TOL04220	55432	(17) Pockets, 13" x 10-1/4" x 17-3/4"

# Tool Bags

## Tradesman Pro™ Hacksaw Electrician's Bag

- Top-loading hacksaw pocket with protective plastic lining
- Fits standard hacksaws up to 16.5" (419 mm)
- Orange interior for easy tool visibility
- Tough, durable molded bottom can withstand cold conditions
- 1680D Ballistic weave for durability
- Shoulder strap and handles for easy carrying



Part #	Mfg #	Description
HLD00616	55453HSB	(48) Pockets, 14-1/2" x 13-1/2" x 17-3/4"

## Tradesman Pro™ Small Carrying Case

- 2-Layer padding
- Heavy-duty zipper
- Rugged PVC coated polyester
- (1) Interior pocket
- Belt loop with snap closure



Part #	Mfg #	Size
HLD00572	69406	2-1/4" x 4-1/2" x 9-1/4"

## Tradesman Pro™ Hard Case - Medium

- Hard shell protects tools, meters, small parts and tech devices
- Soft interior lining
- Durable zipper closure



Part #	Mfg #	Size
CAS02056	5184	2-1/4" x 6-1/2" x 8-3/4"
CAS02057	5189	2-1/4" x 5-1/2" x 10-1/4"

## Zipper Canvas Bag

- Models 5139 & 5140 constructed of No. 8 canvas
- Model 5539CPAK constructed of No. 10 canvas



5139



5140



5139C



Part #	Mfg #	Description
HLD00327	5140	Set of 4, 7" x 12-1/2", Olive, Orange, Royal Blue, and Yellow
TOL03369	5539CPAK	Set of 3, 8" x 10" x 3-1/2", Red, Yellow, & Blue
TOL02676	5139	7" x 12-1/2" White
HLD00336	5139C	7" x 12-1/2" Camouflage

## 10-Compartment Drawstring Bag

- 12 oz Olive canvas
- (10) Compartments for small parts
- Drawstring closure



Part #	Mfg #	Size
TOL03726	5151	6" x 11"

## 17-Pocket Tool Tote™ with Shoulder Strap

- Constructed of rugged, 600x300 denier polyester
- 2" Wide, 900 lb test, polypropylene padded carrying handles with leather strap
- Heavy-duty chain-tape thong
- Durable molded bottom with drain holes to prevent water retention
- Water resistant to avoid the build up of mold and mildew



Part #	Mfg #	Description
TOL02441	58888	(5) Interior Pockets, (7) Exterior Pockets, 15-1/2"L x 7-1/2"W x 10"D
TOL03082	58890	(7) Interior Pockets, (10) Exterior Pockets, 15-1/2"L x 7-1/2"W x 10"D

# Tool Bags

## Padded Adjustable Shoulder Strap

- For canvas tool bags
- Adjustable from both ends
- Fits 5003 series tool bags and Tool Tote™ (58888)



Part #	Mfg #	Description
TOL02679	58889	Padded Adjustable Shoulder Strap

## 19" Canvas Tool Bag

- Heavy-duty No. 6 natural canvas
- Double-layer canvas bottom
- Reinforced, riveted web handles



Part #	Mfg #	Size
TOL03153	5156	19" x 9" x 15"

## 5102/5105 Series Canvas Tool Bag Adjustable Shoulder Strap Kit

- Leather
- Includes:
  - Leather strap with pad and snap hooks
  - Rings
  - Fasteners



Part #	Mfg #	Description
TOL03156	5102S	Shoulder Strap Kit

## Tool Holders

### Tradesman Pro™ Phone Holder

- Magnetic flap closure
- Metal clip for belts up to 2" wide
- 1680D Ballistic weave



Part #	Mfg #	Description
HLD00575	55460	iPhone® 4 and 5 Phone Holder
HLD00576	55461	Samsung Galaxy S® 3 and 4 Phone Holder

## Tradesman Pro™ Attachable Hacksaw Holder

- Quick link for attaching to tool bags
- Fits standard hacksaws up to 16.5" (419 mm)
- Protective plastic lined interior
- Top-loading for easy access to hacksaw
- Web strap with snap closure keeps hacksaw secure
- 1680D Ballistic weave for durability



Part #	Mfg #	Description
HLD00617	55454DHB	8-3/8" x 1-1/2" x 17"

## Tool Pouches

### Tradesman Pro™ Drill Pouch

- Fits most impact and battery drills
- Strap closure keeps drill in place
- Pockets for tools and drill bits
- Compatible with belts up to 2" (51 mm) wide



Part #	Mfg #	Description
TOL04249	5183	8-Pockets

# Lineman Buckets & Accessories

## Lineman Buckets

### 41-Pocket Oval Bucket

- (26) Pockets inside and (15) pockets outside
- No. 6 canvas
- Tripod suspension rope for greater stability
- Equipped with catalog number 2012 swivel snap hook
- Black molded polypropylene bottom



Part #	Mfg #	Size
TOL02638	5152S	10" x 14" x 7"

### Leather Bottom Bucket

- No. 1 canvas
- Leather reinforced bottom
- Leather cuff extends 3" up the side
- Inside pocket measures 8" x 8"
- Rope handle
- 12" Diameter x 17" height



Part #	Mfg #	Description
TOL04290	5104VT	Leather Bottom Bucket with Velcro® Closure Top

### Heavy-Duty Top Closing Leather Bottom Bucket

- No. 1 canvas
- Top of bucket zips closed
- Leather reinforced bottom
- Leather cuff extends 3" up the side
- Rope handle
- Steel rim
- 14" Diameter accommodates standard 5-gallon buckets
- Load rated 150 lbs



Part #	Mfg #	Description
TOL04289	5104CLR17	17"H Lift Bucket



# Tool Pouches, Carriers, Belts & Suspenders

## Suspenders

### PowerLine Padded Suspenders

- Fully adjustable length front and back
- Heavy-duty 1-1/2" wide
- nylon web strap
- VELCRO® brand touch fasteners
- Heavy-duty padding



Part #	Mfg #	Description
TOL03110	5717	Padded Suspenders

### Tradesman Pro™ Suspenders

- One size fits all



Part #	Mfg #	Description
APL00472	55400	Tradesman Pro Suspenders

## Tool Bags

- Orange interior for easy tool visibility
- 1680d Ballistic weave

### Bull Pin & Bolt Bag - Leather



Part #	Mfg #	Overall Size	Belt Connection
HLD00630	5416-L	10" x 5" x 9"	Tunnel

## Tool Belts

### Adjustable Web Tool Belt

- Accommodates tunnel loop and slotted tool pouches and holders
- 2" Wide polypropylene webbing
- Corrosion resistance hardware



Part #	Mfg #	Description
TOL02531	5225	Adjusts to 48" Waist Size

### General Purpose Belt

- Strong, heavy-duty leather
- Removable single tongue buckle held by two heavy-duty snaps



Part #	Mfg #	Waist Size	Size
TOL02505	5202M	32" to 40"	Medium
TOL02506	5202L	38" to 46"	Large

### Heavy-Duty Embossed Tool Belt

- Strong, heavy-duty leather
- Equipped with a double tongue buckle



Part #	Mfg #	Waist Size	Width
APL00217	5415S	32" to 40"	2"
APL00216	5415	36" to 44"	2"
TOL03658	5415-L	40" to 48"	2"

### Lightweight Utility Belt

- Strong, synthetic web belt
- Accepts tunnel-loop and slotted pouches and holders



Part #	Mfg #	Description
TOL02507	5204	Adjusts to 52" Waist Size



# Tool Pouches, Carriers, Belts & Suspenders

## PowerLine™ Web Work Belt

- Accommodates tunnel loop and slotted tool pouches and holders
- Heavy-duty 2" wide nylon webbing



Part #	Mfg #	Description
TOL02701	5705	Adjusts to 54" Waist Size

## PowerLine™ 4-Piece Electrician's Combo Set

- Includes:
  - 8-Pocket tool pouch
  - 19-Pocket tool pouch
  - Hammer holder
  - Padded tool belt
- Double-stitched and rivet reinforced
- Constructed of double layered 1000 denier Dupont Conrdura nylon
- Naturally forms and hugs the body, no break-in period
- Light-weight and comfortable
- Washable



Part #	Mfg #	Description
TOL03109	5710XL	Extra Large - Fits 40" - 44" Waist Size

## Tradesman Pro™ Electrician's Tool Belt

- Removable pouches
- Wide open pockets
- Padded belt with mesh interior
- Drill bit pocket
- Loop tape measure holder
- Hammer holder
- Rugged leather belt ends
- Handles for easy carrying
- 1680D Ballistic weave
- Attachments for suspenders



Part #	Mfg #	Waist	Size
HLD00595	55427	31" - 34"	Medium
HLD00596	55428	35" - 39"	Large
HLD00597	55429	40" - 44"	X-Large

## Tool Holders

### Knife Holder

- Leather construction
- Fits Klein utility knives 44100 and 44105
- Fits belts up to 2-1/2"



Part #	Mfg #	Overall Size	Belt Connection
TOL03404	5185	2-1/4" x 8"	Slotted

## Mobile Phone Holder - Powerline™ Series

- Fits most mobile phones
- Metal belt clip for mounting and removal from belts up to 2" wide
- Closable flap features genuine VELCRO® brand touch fasteners
- Closed bottom for convenient storage
- 1000 Denier Dupont Cordura® nylon
- Washable



Part #	Mfg #	Length	Size
TOL02984	5715XS	4-1/2"	Extra Small
TOL02535	5715S	4-1/2"	Small
TOL02533	5715	6-1/2"	Large

## Multi-Purpose Holder - Powerline™ Series

- Holds a flashlight, cellular phone or electrical tester
- Tunnel belt connection up to 2-1/4" belt width
- 1000 Denier Dupont Cordura® nylon
- Washable



Part #	Mfg #	Overall Size
TOL02983	5708	3-1/4" x 8-1/2"



# Tool Pouches, Carriers, Belts & Suspenders

## Tape Rule Holders

- Leather construction
- Slotted for attaching to belts up to 2-1/2" wide
- Slotted belt connection



Part #	Mfg #	Size	Tape Size
TOL03847	5195	4-1/2" x 7"	Medium

## Tool Pouches

### Closeable Tool Pouch

- Fits belts up to 2-1/4" wide



Part #	Mfg #	Size
TOL03830	5714	7-1/2" x 6-3/4"

### Nail/Screw & Tool Pouch Combination

- Leather
- Large pockets
- All pouches slide along belts up to 3" wide



Part #	Mfg #	Description
TOL03130	42244	Tool Pouch with 32" - 48" Adjustable Belt

### PowerLine™ 8-Pocket Electrician Tool Pouch

- (8) Pockets to carry an assortment of tools and accessories
- 1000 Denier Dupont Cordura® nylon
- Washable



Part #	Mfg #	Overall Size
TOL03025	5718	11" x 12"

### PowerLine™ 19-Pocket Electrician Tool Pouch

- (19) Pockets to carry an assortment of tools and accessories
- Chain tape thong
- 1000 Denier Dupont Cordura® nylon
- Washable



Part #	Mfg #	Overall Size
TOL03026	5719	11" x 12"

### Single-Pocket Tool Pouch

- Leather construction
- Riveted



Part #	Mfg #	Overall Size
TOL03403	5111	4-1/2" x 7"

### Water-Repellant Canvas Pouch - Belt Loops

- Tan 12 oz water-repellent canvas
- Top edge reinforced with 1/4" rope
- With belt loops



Part #	Mfg #	Overall Size	Belt Connection
TOL03435	5179	9" x 7-1/2" x 7"	Loop

# Tool Pouches, Carriers, Belts & Suspenders

## 4-Pocket Tool Pouch

- *Leather construction*
- *Riveted and stitched*



Part #	Mfg #	Overall Size	Belt Connection
TOL03405	5119	6-1/2" x 8-1/2"	Slotted

## 5-Pocket Tool Pouch

- *Leather construction*
- *Riveted*



Part #	Mfg #	Overall Size	Belt Connection
TOL03337	5126	6" x 8-3/4"	Slotted

## 7-Pocket Multi-Purpose Leather Tool Pouch

- *Moisture resistant*
- *(2) Large gusseted utility pockets*
- *(2) Screwdriver pockets*
- *Hammer loop*
- *(3) Pliers pockets*
- *(1) Chain tape thong*



Part #	Mfg #	Overall Size	Belt Connection
TOL02504	5166	7" x 10"	Tunnel

## 8-Pocket Extra Capacity Tool Pouch

- *Leather construction*
- *Extra capacity multi-purpose pouch*
- *Stitched and riveted*



Part #	Mfg #	Overall Size	Belt Connection
TOL03103	5162T	8-1/2" x 10-3/4"	Tunnel

## 8-Pocket Tool Pouch

- *Soft, pliable, white leather*
- *Roomy pouch for electricians, service men, and maintenance workers*
- *Riveted and stitched for extra durability*
- *Heavy-duty chain tape thong securely fastened with a rivet*



Part #	Mfg #	Overall Size	Belt Connection
TOL02665	5178	11" x 10"	Tunnel



# Tool Pouches, Carriers, Belts & Suspenders

## 8-Pocket Top-Grain Leather Tool Pouch



- (4) Large gusseted utility pockets
- (2) Pliers pockets
- (2) Loops for screwdrivers
- Knife snap
- Tunneled to fit belts up to 2-1/2" wide



Part #	Mfg #	Overall Size	Belt Connection
TOL02530	5164	6-3/4" x 9-3/4"	Slotted

## 10-Pocket Big Capacity Leather Tool Pouch

- (4) Large gusseted utility pockets
- (2) Pliers pockets
- (4) Screwdriver pockets
- Knife snap
- Fits belts up to 2" wide
- Leather construction



Part #	Mfg #	Overall Size	Belt Connection
HLD00329	5165	10" x 10"	Slotted

## 11-Pocket Tool Pouch

- Leather construction
- Riveted and stitched
- Multi-pocketed pouch for electricians and other professionals
- Stainless steel clip holder accepts most tape clips up to 1-1/4" wide
- Heavy-duty chain tape thong securely fastened with rivet



Part #	Mfg #	Size
TOL03028	5167	10" x 10-1/2" x 2-3/4"



# Tool Storage

## Cases

### C12A Meter Case

- Zippered carrying case with inside pockets and belt loop
- 1-Year warranty



Part #	Mfg #	Description
CAS01263	C12A	For Fluke 10/11/12/12B, 110/111/112, 16, 7-600/7-300

### C20 Heavy-Duty Meter Case

- Heavy-duty case with handle and accessories storage
- Top cover serves as tilt stand
- 1-Year warranty



Part #	Mfg #	Description
CAS01309	C20	Hard Case for Fluke 27,87/89IV, 87/89 Series V,187/189, 725

### C25 Large Soft Case for DMMs

- Zippered carrying case with padding and inside pocket
- Weather resistant
- 1-Year warranty



Part #	Mfg #	Description
CAS01261	C25	For Fluke 21/23/26/75/77/79, 27, 70/73II, 175/177, 179, 83/85/87 Series III, 87/89 IV, 83/87 Series V, 187/189, 321/322, 1503,1507 1577/1587, 50S50D, 51/52/53/54 Series II, 61, 714/715/716/717, 787, 789

### C33 Soft Carrying Case

- Zippered carrying case with durable vinyl exterior
- Has belt loop and an inner pocket to store test leads or small accessories
- 1-Year warranty



Part #	Mfg #	Description
CAS01701	C33	For Fluke T100 Series, 330 Series, T5

### C35 Soft Carrying Case

- Case top opens laterally to allow use of test tool without removal
- Includes strap to secure test tool
- Durable polyester 600D case constructed for long life
- Compatible with Fluke 20/70/11X/170 Series digital multimeters
- 1-Year warranty



Part #	Mfg #	Description
CAS01826	C35	For Fluke 20/70/11X/170 Series Digital Multimeters

### C37 Soft Carrying Case, Camouflage

- Zippered carrying case with durable vinyl exterior
- Has belt loop and an inner pocket to store test leads or small accessories



Part #	Mfg #	Description
CAS01987	CAMO-C37	Camo Carrying Case

### C43 Soft Carrying Case

- Zippered carrying case with durable vinyl exterior
- Inner front pocket with closure and (2) pockets
- Includes:
  - (1) Detachable 10" handle
  - 1-Touch network analyzer



Part #	Mfg #	Description
CAS01486	C43	For Fluke 40, i1000s & i13000s

### C50 Meter Case

- Zippered carrying case with inside pocket belt loop and inside meter strap
- Compact vinyl soft case
- 1-Year warranty



Part #	Mfg #	Description
CAS01268	C50	For Fluke 110/111/112, 16, 50S/50D, 51/52/53/54 Series II, 65, 7-600/7-300

# Tool Storage

## C75 Soft Carrying Case

- Zippered
- 1-year warranty



Part #	Mfg #	Description
HLD00317	C75	For Fluke Accessories and Test Leads

## C90 Soft Case for DMMs

- Zippered case with inside pocket and belt loop
- 1-Year warranty



Part #	Mfg #	Description
CAS01293	C90	For Fluke 110/111/112, 16, 21/23/26/75/77/79,70/73 III, 175/177, 179, 50s/50d, 51/52/53/54 SeriesII, 65

## C101 Hard Case

- Tough polypropylene exterior shell
- Interior dimensions: 9" x 11.5" x 2.5"
- 1-Year warranty



Part #	Mfg #	Description
CAS01794	C101	Fits All Fluke Industrial Test Tools

## C115 Soft Carrying Case

- Includes two padded pockets for protection of two test tools, such as a digital multimeter and 60 Series IR thermometer and a pouch for test leads and other accessories
- Durable polyester 600D case construction for long life
- 1-Year warranty



Part #	Mfg #	Description
CAS01827	C115	For Fluke 20,70,11X,170 Series

## C120 Hard Carrying Case

- Heavy duty case with accessory storage compartments
- Accommodates Fluke 120 Series or Fluke 43/43B main instrument and associated accessories
- 1-Year warranty



Part #	Mfg #	Description
HLD00325	C120	Hard Case for Fluke 120/43/43B Instruments and Accessories

## C195 Soft Carrying Case

- Zippered carrying case with storage compartments
- Shoulder strap for easy carrying
- Main compartment can be divided into (3) smaller compartments for safe and stable storage of main instruments and larger accessories
- Front pouch has elastic straps to hold smaller accessories conveniently
- Side pouches can be detached for optimal flexibility
- 1-Year warranty



Part #	Mfg #	Description
CAS01307	C195	Soft Carrying Case for Fluke Meters and Accessories

## C280 Soft Carrying Case

- Includes detachable, extendable shoulder strap
- Inner front pocket with closure and dual pouch pockets for test tools and accessories



Part #	Mfg #	Description
HLD00372	C280	Soft Carrying care for Fluke Meters and Accessories

# Tool Storage

## C345 Soft Carrying Case

**FLUKE**



- Movable internal divider provides flexibility or odd-sized items
- Large enough for all your accessories and instrument manuals
- Outer pouch, outer zipper pocket and (2) slash pockets for convenient accessory storage
- Outer pouch includes elastic accessory strap and mesh accessory retainer for convenience

Part #	Mfg #	Description
CAS01854	C345	Soft Carrying Case for Fluke Meters and Accessories

## C437-II Water-Tight Hard Rolling Case

- For Fluke 430/1735/1740 Series power quality products and accessories
- Configurable foam securely holds instruments during transit

**FLUKE**



Part #	Mfg #	Description
CAS02026	C437-II	Hard Rolling Case for Fluke 430/1735/1740 Series Power Quality Products

## C520A Leather Tester Case

- Oiled genuine top grain cowhide
- Oil tanned for long life
- Rugged construction with heavy-duty stitching and reinforced rivets
- Large tool belt loop and top flap
- 1-Year warranty



**FLUKE**

Part #	Mfg #	Description
CAS01285	C520A	Holds Fluke Electrical Testers

## C781 Meter Case

**FLUKE**

- Zippered carrying case with detachable external pouch

Part #	Mfg #	Description
CAS01271	C781	For Fluke Meters and Calibrators

## C789 Meter & Accessory Case

- Removable handle and shoulder strap
- 1-Year warranty

**FLUKE**



Part #	Mfg #	Description
CAS01272	C789	LG Fabric Carrying Case with (3) Compartments

## C800 Meter & Accessory Case

- Tough polypropylene case
- Accessories and manual compartments
- Detachable lid
- (1) year warranty

**FLUKE**



Part #	Mfg #	Description
CAS01281	C800	Poly Case for Meters and Accessories

## C1600 Gear Box for Meter & Accessories

- Rubber gasket in lid seals out dust and keeps contents dry
- Lift out tray keeps everything organized
- Includes:
  - (5) Hooks
  - Loop straps for cord and test leads
- Can be locked
- 1-Year warranty

**FLUKE**



Part #	Mfg #	Description
CAS01330	C1600	Rugged, Molded Plastic Case

## C1730 Soft Case

**FLUKE**



Part #	Mfg #	Description
C1730	C1730	Soft Case for Fluke 1730

# Tool Storage

## C3004 Soft Case for FC Industrial Systems

- *Transports and protects your Fluke Connect test tool system while not in use*
- *Large fabric carrying case equipped with (6) internal pockets for organization of Fluke Connect™ modules, 3000FC DMM, and accessories*
- *15.75"L x 7.5"W x 9.25"H*
- *1-Year warranty*



Part #	Mfg #	Description
CAS02038	C3004	Soft Industrial Toolbag

## CXT170 Extreme Case

- *For use with the following test tools:*
  - *Air quality: 922*
  - *Insulation testers: 1503, 1507, 1577, 1587*
  - *Multimeters: 77III, 77IV, 114, 115, 116, 117, 177, 179*
  - *Process tools: 712, 714, 715, 717, 718, 787*
  - *Temperature: 51, 51-2, 52, 52-2, 53, 53-2, 54, 54-2*
- *Unbreakable, watertight, airtight, dustproof, chemical resistant, and corrosion proof*
- *Buoyancy allows case to float in salt water with 3.6 kg (7.94 lb) load*
- *Features an exclusive 6.4 mm neoprene O-ring and ABS latches for excellent seal*



Part #	Mfg #	Description
CAS02045	3352567	Rugged Extreme Pelican Case for Fluke Meters and Accessories

## CXT280 Extreme Case

- *For use with the following test tools:*
  - *Multimeters: 287, 289*
  - *Earth ground testers: 1621*
- *Unbreakable, watertight, airtight, dustproof, chemical resistant, and corrosion proof*
- *Buoyancy allows case to float in salt water with 3.6 kg (7.94 lb) load*
- *Includes an automatic purge valve for quick equalization after changes in atmospheric pressure*
- *Features an exclusive 6.4 mm neoprene O-ring and ABS latches for excellent seal*
- *5"H x 12.5"W x 11"D*



Part #	Mfg #	Description
CAS02046	3352571	Rugged Extreme Pelican Case for Fluke Meters and Accessories

## CXT80 Extreme Case

- *For use with the following test tools:*
  - *Multimeters: 27, 83 V, 85 V, 87 V, 187, 189*
  - *Process tools: 725, 725, 726, 789*
- *Unbreakable, watertight, airtight, dustproof, chemical resistant and corrosion proof*
- *Buoyancy allows case to float in salt water with 3.6 kg (7.94 lb) load*
- *Includes an automatic purge valve for quick equalization after changes in atmospheric pressure*
- *Features an exclusive 6.4 mm neoprene O-ring and ABS latches for excellent seal*



Part #	Mfg #	Description
CAS02047	3352559	Rugged Extreme Pelican Case for Fluke Meters and Accessories

## Holsters

### H5 Electrical Tester Holster

- *Flap for lead storage*
- *Built-in belt loop*
- *1-Year warranty*



Part #	Mfg #	Description
CAS01265	H5	For T3 & T5 Testers

# Tool Storage

## H6 Infrared Thermometer Holster

- Durable nylon construction protects thermometer while keeping it within reach
- Cuff hook attachment closure provide quick access and a secure closure
- Extra accessory pocket for storing temperature probe
- Snap-open loop attaches easily to your belt



Part #	Mfg #	Description
HLD00321	H6	For Fluke 63,66 and 68 Infrared Thermometers

## H80M Protective Holster with Magnetic Hanging Strap

- General purpose hanger
- Hook and loop straps
- Hanging magnet



Part #	Mfg #	Description
HDL00949	H80M	For all 80 DMMs (New & Old)

## Parts Storage Boxes

### Adjustable Compartment Parts Box

- (3) Partitions, running from front to back, divide the box into four equal 4-1/2 x 12" sections
- Fits 4-drawer extra large slide rack catalog No. 54477
- 3"H x 18"W x 12"L Overall dimensions



Part #	Mfg #	Description
TOL03286	54451	Adjustable Compartments

## Extra-Large 32-Compartment Storage Box

- Full-length piano hinged cover
- Carrying handle and positive pull-down locking catch
- Metallic grey baked enamel finish
- Scoop-bottom design
- Fits 4-drawer extra-large slide rack 54477



Part #	Mfg #	Compartment Sizes
TOL03285	54448	2-1/8" x 2-7/8"

## Mid-Size 8-Compartment Box

- Each box has a carrying handle, positive pull down locking catch
- Fits either four-drawer slide rack No. 54436 or six-drawer rack No. 54476
- 2"H x 13-5/16"W x 9-3/4"D



Part #	Mfg #	Compartment Sizes
BOX01623	54436	6-7/16" x 2-1/16"

## Mid-Size 12-Compartment Storage Box

- Full-length piano hinged cover
- Carrying handle and positive pull-down locking catch
- High-impact styrene constructed compartments
- Scoop-bottom design
- Fits 4-drawer slide rack 54474 or 6-drawer slide rack 54476
- 9-3/4"H x 13-5/16"W x 2"D



Part #	Mfg #	Compartment Sizes
BOX01624	54437	4-5/16" x 2-5/16"



# Tool Storage

## Mid-Size 16-Compartment Box

- Each box has a carrying handle, positive pull down locking catch
- Fits four-drawer slide rack No. 54474 or six-drawer rack No. 54476
- 2"H x 13-5/16"W x 9-3/4"D



Part #	Mfg #	Compartment Sizes
TOL02675	54438	3-1/4" x 2-5/16"

## 16-Compartment Box

- Each box has a carrying handle, positive pull down locking catch
- Fits four-drawer extra large slide rack catalog No. 54477



Part #	Mfg #	Compartment Sizes
TOL03147	54445	4-3/8" x 2-7/8"

## Mid-Size 20-Compartment Box

- Full length piano hinged covers
- Fits either four-drawer slide rack catalog No. 54474 or six-drawer rack catalog No. 54476



Part #	Mfg #	Compartment Sizes
TOL02700	54439	2-5/8" x 2-5/16"

## Mid-Size 21-Compartment Box

- Each box has a carrying handle, positive pull down locking catch
- Fits 4-drawer slide rack No. 54474 or 6-drawer rack No. 54476
- 2"H x 13-5/16"W x 9-3/4"



Part #	Mfg #	Compartment Sizes
BOX01658	54440	(20) 2-1/16" x 2-5/16" (1) 2-3/4" x 9-1/16"

## Slide Racks

### Extra-Large 4-Box Slide Rack

- Holds extra-large storage boxes
- Welded, extra-rigid, all-steel construction
- Metallic gray baked enamel finish
- Heavy-duty channel tracks
- Boxes not included
- 15-3/4"H x 20"W x 14-1/2"D



Part #	Mfg #	Description
TOL03146	54477	Extra-Large 4-Box Slide Rack

### 4-Box Slide Rack

- Holds mid-size storage boxes
- Steel construction
- Metallic grey baked enamel finish
- Heavy-duty channel tracks
- Boxes not included
- 10-3/4"H x 15-1/4"W x 11-3/4"L



Part #	Mfg #	Description
RCK00273	54474	4-Box Slide Rack

# Tool Storage

## 6-Box Slide Rack

- Holds mid-size storage boxes
- Steel construction
- Metallic grey baked enamel finish
- Heavy-duty channel tracks
- Boxes not included
- 16-3/8"H x 15-1/4"W x 11-3/4"L



Part #	Mfg #	Description
RCK00261	54476	6-Box Slide Rack

## Hi-Viz Slide-Top Tool Box

- (2) Slide-out cantilever trays to store small tools and supplies
- Removable tray dividers for flexible organization
- Hinged flip tray covers for quick and easy access
- Large tub for power tools
- 10"H x 15"W x 10"D



Part #	Mfg #	Dimensions
TOL02532	54705	10"H x 15"W x 10"D

## Slide Rack Locking Bar

- For slide rack 54474
- Locks to secure mid-size storage boxes in slide racks
- Front hasp pivots down to allow locking bar to open
- Piano hinge
- Metallic grey baked enamel finish
- Mounting holes allow for installation with sheet metal screws or pop rivets



Part #	Mfg #	Description
BAR00386	54484	For Slide Rack 54474
BAR00388	54486	For Slide Rack 54477 or 54476

## Hi-Viz 3-Tier Tool Box

- Nesting storage compartments
- V-groove in lid for conduit or pipe sawing
- Top tray has compartments for small tools and parts
- Tote tray holds larger tools and accessories
- Tote and top tray have molded handles to carry separately
- Large tub for big power tools
- 12-1/2"H x 16-1/4"W x 9"D



Part #	Mfg #	Dimensions
TOL02482	54700	12-1/2"H x 16-1/4"W x 9"D

## Tool Boxes

### Extra Deep All Purpose Tool Box

- Heavy-duty three-compartment tote tray with big, easy grip handle
- Double draw bolts plus hasp and staple for padlocks up to 3/8" in diameter (padlock not included)
- Protective, red, baked-enamel finish



Part #	Mfg #	Dimensions
TOL03093	54401	9-1/2"H x 20"L x 8-1/2"D

# Voice/Data/Video Test & Inspection Equipment

## Cable Testers

### Coax Explorer Plus Tester

- Test map/ID up to (4) locations simultaneously
- Compact size
- Bright LED indicator
- Push-button operation
- Color-coded remotes for identification
- Includes remote holder



Part #	Mfg #	Description
TOL03804	VDV512-058	Coax Explorer Plus Tester

## Video Borescopes

### VS-S Series Rechargeable Handheld Video Scope with USB & SD

- Waterproof and shock-resistant probe and optics
- Includes:
  - Flexible probe with 307,200 pixel CMOS image sensor
  - 53° Field of view and (6) LED lights
  - 90° Right angle mirror adapter
  - Monitor with mini USB 1.1 port
  - SD Card
  - Cables
  - Carrying case



Part #	Mfg #	Probe Length
TOL03878	VS-S-10	10'
TOL03879	VS-S-30	30'

### VS-W Series Wireless Rechargeable Handheld Video Scope

- Waterproof and shock-resistant probe and optics
- Includes:
  - Flexible probe with 307,200 pixel CMOS image sensor
  - 53° Field of view and (6) LED lights
  - 90° Right angle mirror adapter
  - Transmitter for wireless operations
  - Monitor with mini USB 1.1 port
  - 2 GB SD Card
  - Cables
  - Carrying case



Part #	Mfg #	Probe Length
TOL03880	VS-W-10	10'
TOL03881	VS-W-30	30'

## Inspection Probes

### VS Series Adapter



Part #	Mfg #	Description
ADP01340	5983	90° Adapter
ADP01341	5984	Power Adapter



# Voice/Data/Video Tools & Connectors

## Cable Cutters

### Compact Compression Crimper - F-Connector

- Steel body with black-oxide finish
- Fixed plunger
- Integrated handle lock



Part #	Mfg #	Handle Color	Length
TOL03788	VDV212-008-SEN	Yellow	5.6"

### Lateral Compression Crimper - Multi-Connector

- For both indoor and outdoor cabling
- Adjustable universal plunger
- F/BNC/RCA Gauge markings
- Multi-position connector nest
- Open design
- Locking-nut retains plunger settings
- Spring loaded return
- Contoured grips
- Heavy-duty zinc die-cast chassis
- Integrated handle lock



Part #	Mfg #	Handle Color	Length
TOL03789	VDV211-063	Yellow	6.25"

## Wire Stripping & Cutting Tools

### Katapult® Coaxial Cable Stripper

- Strips RG6 cable
- Compound action
- Precision machined
- Tension loaded wire-grip
- Recoil spring design
- Yellow grips
- 7.15" Overall length



Part #	Mfg #	Description
TOL03791	VDV110-045	RG6 Coaxial Cable

## Ratcheting Modular Crimper/Stripper

- Modular-crimp connector installation for voice and data applications
- All-in one tool, cuts, strips and crimps paired-conductor cables
- Steel body with black-oxide finish
- Crimping dies are precision ground from high-carbon steel
- Crimps 4, 6 and 8 position modular connectors
- Ratchet safety-release and a blade-guard on cutting and stripping knives reduce the risk of injury
- Full-cycle ratchet mechanism prevents the release of the connector prior to full compression
- Not for use with AMP® connectors



Part #	Mfg #	Description
TOL03508	VDV226-011	28-22 AWG Flat or Round Solid or Stranded

## Long-Nose Pliers

### Connector Crimping Long-Nose Pliers

- Crimps UR/UY/UG insulation displacement connectors
- Grooved jaws
- Cleanly strips 23 AWG and 24 AWG wire
- Hot riveted joint
- Induction hardened cutting knives
- Yellow plastic grips



Part #	Mfg #	Overall Length	Connectors
TOL03659	VDV026-049	6.8"	UR/UY/UG

# Vacuums

## Vacuums

### Industrial Wet-Dry Vacuum

- 1.6 hp
- 10A, 115V
- 8.4 gal Stainless steel tank
- Static water lift: 85"
- Air displacement: 90 CFM
- Liquid shut-off prevents overflow
- Reusable filter
- Cord storage hook
- Weight: 22 lbs
- Includes:
  - Filter
  - 8-1/2' Vinyl crush-proof hose
  - 3-Piece 52" wand
  - 16" Floor brush
  - 16" Squeegee floor tool
  - 3" Dusting brush
  - 9-1/2" Crevice tool

GOODWAY



Part #	Mfg #	Description
TOL01896	EV-30	Industrial Wet-Dry Vacuum

### Industrial Twin-Motor Wet-Dry Vacuum with Tilt

- 2 hp Bypass motors
- 16A, 115V, 50/60 Hz AC
- Static water lift: 82"
- Air displacement: 120 CFM
- Tilt bar for easy dumping of recovered materials
- Weight: 53 lbs
- Includes:
  - Filter
  - 8-1/2" Vinyl crush-proof hose
  - 3-Piece 52" wand
  - 16" Floor brush
  - 16" Squeegee floor tool
  - 3" Dusting brush
  - 9-1/2" Crevice tool

GOODWAY



Part #	Mfg #	Description
TOL04126	EV-60-T	Industrial Twin-Motor Wet-Dry Vacuum with Tilt

### Industrial Twin-Motor Wet Flood Pump-Out Vacuum

- 2 hp Bypass motors
- 16A, 115V, 50/60 Hz
- Static water lift: 82"
- Air displacement: 120 CFM
- Internal pump for controlled discharge of recovered liquids
- (2) Independent motor switches and an independent switch for the pump
- Recovered liquids can be discharged while vacuuming at 30 gpm or pumped out later
- Weight: 69 lbs
- Includes:
  - 8-1/2" Vinyl crush-proof hose
  - 3-Piece 52" wand
  - 16" Squeegee floor tool

GOODWAY



Part #	Mfg #	Description
TOL01897	EV-60-P	Industrial Pump-Out Vacuum

### Industrial HEPA Dry Vacuum with Dolly

- 1.6 hp
- 10A, 115V, 50/60 Hz AC
- 10.6 gal Polished steel tank with handles, wheels, and casters
- Static water lift: 90"
- Air displacement: 115 CFM
- Dry capacity: 3.2 gal
- HEPA Filter certified 99.97% efficient @ 0.3 microns
- Weight: 26 lbs
- Includes:
  - Filters
  - 8-1/2" Vinyl crush-proof hose
  - 3-Piece 52" wand
  - 16" Floor brush
  - 3" Dusting brush
  - 9-1/2" Crevice tool

GOODWAY



Part #	Mfg #	Description
TOL01898	EV-30-H	Industrial HEPA Dry Vacuum



# Vacuums

## Industrial HEPA Dry Backpack Vacuum

- 1.2 hp
- 8A, 115V, 50/60 Hz AC
- Static water lift: 92"
- Air displacement: 95 CFM
- HEPA Filter certified 99.97% efficient @ 0.3 microns
- Weight: 15 lbs
- Includes:
  - HEPA Filter
  - Disposable paper filter bag
  - 51' Vinyl crush-proof hose
  - Telescoping 2-piece 56" wand
  - Rug and floor tool
  - 5" Upholstery tool
  - 3" Dusting brush
  - 17" Crevice tool

GOODWAY®



Part #	Mfg #	Description
TOL04128	BPV-100H	Industrial HEPA Dry Backpack Vacuum

## Vacuum Filters

### EV-30 HEPA Filter

- Compatible with EV-30H industrial vacuum

GOODWAY®



Part #	Mfg #	Description
FLR04835	8050	HEPA Filter

### EV-30H Paper Filter Collection Bag with Plastic Tank Liner

- Compatible with EV-30H industrial vacuum
- 12/Pack

GOODWAY®



Part #	Mfg #	Description
FLR04836	8051-12	Paper Filter Collection Bag, 12/Pk

## EV-30H Filter Protector

GOODWAY®

- Compatible with EV-30H industrial vacuum

Part #	Mfg #	Description
FLR04837	8052	Filter Protector Bag

## EV-30 Polyester Filter

- Polyester
- Compatible with EV-30 industrial wet-dry vacuum
- 15 Micron

GOODWAY®



Part #	Mfg #	Description
FLR04838	EV-30-FILTER	Polyester Filter

## Paper Filter Collection Bag for BPV-100H

- Compatible with BPV-100H industrial vacuum
- 1 Micron
- 10/Pack

GOODWAY®



Part #	Mfg #	Description
FLR08005	3205-10	Paper Filter Collection Bag, 10/Pk

## Replacement Polypropylene Filter

- Compatible with the following vacuums:
  - AV-1200
  - GTC-530
  - VAC-2
  - VAC-2Q
  - VAC-3A
  - VAC-3AQ

GOODWAY®



Part #	Mfg #	Description
FLR06615	GTC-175	Replacement Polypropylene Filter

## Replacement Dacron Filter

- Compatible with the following vacuums:
  - AV-1200
  - GTC-540
  - VAC-2
  - VAC-3A

GOODWAY®



Part #	Mfg #	Description
FLR06616	GTC-176	Replacement Dacron Filter

# Vapor/Steam Cleaners

## Steam Cleaners

### Commercial Vapor-Steam Cleaner

- 13A
- 115V, 50/60 Hz AC
- 1,500 W
- 1.3 gal Water tank
- 1.3 gal Chemical tank
- 0.8 gal Boiler
- Adjustable output steam pressure: 0 - 90 psi
- Output steam temperature: 290°F
- Weight: 57 lbs net dry
- Includes:
  - 8' Hose with pistol grip
  - 2-Piece 38" wand
  - 11" Floor brush
  - 5" Triangular brush
  - 9-1/2" Squeegee tool
  - 6-1/2" Curved lance
  - 2" circular nylon brush
  - (3) Circular nylon scrubbing brushes
  - (3) Circular copper scrubbing brushes
  - (3) Circular stainless steel scrubbing brushes
  - 1 Gallon bottle of cleaner

GOODWAY



Part #	Mfg #	Description
TOL02131	GVC-1502	Commercial Vapor-Steam Cleaner with Accessory Kit

## Chemicals

### High Temperature Cleaner

GOODWAY

Part #	Mfg #	Description
CHM00286	GVC-500-1	High Temperature Cleaner



# Wire Pulling Grips

## Haven's® Grips

### Messenger & Guy Strand Haven's® Grip with Swing Latch

- Designed for use when light, compact grip is desired and where cable deformation is not a factor
- Gripping pressure of the knurled jaw is applied to 1/4" cable area
- Swing latch to help hold cable in the jaw



Part #	Mfg #	Cable Range	Max Load
TOL03833	1604-20L	.125" - .50"	5,000 lbs

## Wire-Mesh Pulling Grips

### Double Weave, Rotating-Eye Pulling Grip - Medium Length

- KPS Heavy-duty
- Medium length



Part #	Mfg #	Length	Cable Dia
TOL04063	KPS300-2	30"	3.00" - 3.49"





# Wire Tracers & Cable Locators

## Current Tracers

### CT-326-C Current Tracer

- Heavy-duty
- Traces wires buried underground or hidden behind walls up to 13' deep
- Performs tests without interrupting power
- Locates breakers, neutral, and ground lines
- Pinpoints shorts and ground faults
- Does not interfere with sensitive electronic equipment



Part #	Mfg #	Description
4416119	CT-326-C	Current Tracer

### AT-2004-A Advanced Wire Tracer

- Traces live wires buried or hidden behind walls up to 13' deep
- Traces unenergized and open wires
- Performs tests without interrupting power
- Locates breakers, neutral, and ground lines
- Pinpoints shorts, ground faults, and broken wires
- Does not interfere with sensitive electronic equipment



Part #	Mfg #	Description
4416090	AT-2004-A	Advanced Wire Tracer

## Wire Tracers & Cable Locators

### AT-1000 Wire Tracer

- Traces energized lines up to 300VAC/DC
- Traces de-energized lines and open conductors
- Locates shorts and identifies breakers and fuses without powering down
- Identifies targeted control, alarm, and telephone system cables
- Traces coaxial cable shield
- Receiver range up to 3'
- Includes transmitter, receiver, connection cables, soft carrying case, and batteries



Part #	Mfg #	Description
TOL02912	AT-1000	Wire Tracer

### AT-3500 Underground Cable Locator

- Locates underground energized and de-energized wires, cables and pipes
- Three testing modes for best accuracy:
  - Passive power (50/60 Hz)
  - Passive radio (RF)
  - Active T-3500 signal generator with induction mode directly connected to the cable with test leads or optional clamp
- Active mode depth measurement up to 16' (4.9m)
- Semi-automatic gain control: fast signal location and control
- 33 kHz Active frequency: best frequency for general locating
- Precise pinpointing of buried services and exceptionally fast sound and meter response with backlight multiple-segment
- Complete instrument, ready for use with receiver, transmitter, connection cable, ground stake and ground cable



Part #	Mfg #	Description
MTR01198	AT-3500	Underground Cable Locator



# Wire Tracers & Cable Locators

## AT-4001-A Advanced Wire Tracer

- One universal transmitter works with either energized or non-energized systems
- Traces live wires buried or hidden behind walls
- Traces energized and non-energized wires
- Performs tests without interrupting power
- Locates breakers, neutral, and ground lines
- Pinpoints shorts, ground faults, and broken wires
- Does not interfere with sensitive electronic equipment
- Precise sensitivity adjustment



Part #	Mfg #	Description
4416052	AT-4001-A	Advanced Wire Tracer

## AT-7000 Advanced Wire Tracer

- Traces wires in walls, ceilings, floors and corners
- Locates breakers and fuses
- Pinpoints shorts and opens
- Smart Sensor™ visually displays the location and orientation of hidden, energized wires
- (2) Automatically selected output frequency modes for optimal tracing
- (3) Power modes: high, low and clamp
- High resolution 3.5" LCD screen with embedded help screens
- Includes custom Amprobe hard carrying case, test leads, and accessories



Part #	Mfg #	Description
4313868	AT-7020	Wire Tracer Kit
4313854	AT-7030	Wire Tracer Kit with Signal Clamp and Booster Battery

## AT-4005-A Advanced Wire Tracer with Clamp-On Attachment & Battery Booster

- Universal transmitter
- Traces energized and non-energized wires
- Performs tests without having to interrupt power
- Precise sensitivity adjustment
- Battery booster strengthens signal for open tracing
- Clamp-on attachment injects signal for non-contact operation



Part #	Mfg #	Description
4416083	AT-4005-A	Advanced Wire Tracer



# Test Tools

## Hex Wrench Sets

### Knuckle-Saver™ Hex Wrench Set



- Unique offset design for tight places
- Broached ends for correct fit
- Heat-treated critical wear parts for long-life
- Finger control reversing
- Chrome-plated for durability



Part #	Mfg #	Description
TOL01764	60631	Set of (3) Sizes 1/4" to 9/16"
TOL01448	60630	Set of (5) Sizes 1/4" to 7/8"
TOL01467	60633	1/4" x 5/16"
TOL02028	60634	3/8" x 7/16"
TOL02526	60636	5/8" x 11/16"
TOL04108	60637	3/4" x 7/8"

## Pipe Wrenches

### Heavy-Duty Pipe Wrench



- Replaceable heat treated jaws
- Instant grip and release jaws



Part #	Mfg #	Size	Capacity
TOL04103	60641	8"	1"
TOL04104	60642	10"	1-1/2"
TOL04105	60644	14"	2"
TOL04106	60645	18"	2-1/2"
TOL04107	60646	24"	3"

## Ratchet Wrenches

### 7" Long Ratchet Wrench



- For service valves
- Heavy-duty, reversible
- Hex openings 1/2" and 9/16" at one end; square 3/16" and 1/4" at other end



Part #	Mfg #	Description
TOL01435	60612	A/C Ratchet Wrench Reversible

## Service Wrenches

### Service Wrench - Straight



- Square openings 1/4" and 3/16" at one end; 3/8" and 5/16" at other end



Part #	Mfg #	Description
TOL01416	60603	Straight Service Wrench, 50/Pk

### Service Wrench and Adapter



Part #	Mfg #	Description
TOL02254	60638	Shorter 3/16" & 5/16" Hex Key Adapter

### Service Wrench - Heavy-Duty Straight

- Heavy handle and large gear
- Stronger, gear teeth and strong reversing mechanism
- Square openings 1/4" and 3/16" at one end; 3/8" and 5/16" at other end



Part #	Mfg #	Description
TOL01523	60618	Heavy-Duty Service Wrench

### Service Wrench For Large Service Valves

- Reversible for larger service valves
- 3/8" Square one end and 1/2" square the other end



Part #	Mfg #	Description
TOL01484	60615	Refrigeration Wrench

### Offset Service Wrench

- Knuckle-Saver™ design for tight areas
- Square openings 1/4" and 3/16" at one end; 3/8" and 5/16" at other end



Part #	Mfg #	Description
TOL01417	60006	Offset Service Wrench, 50/Pk

# Test Tools

## Torque Wrenches

### Precision Torque Wrench

- Designed to accommodate the full range of ductless mini-split flare nut sizes and torque requirements
- Adjustable in Newton-meters and foot-pound
- (8) Interchangeable open end adapters - sizes 16, 17, 21, 22, 24, 26, 27 and 29mm
- Micrometer-type sleeve is easy to read and allows accurate pre-set torque values to be set
- Accurate within 4% when measured per BSEN.26789 and ISO 6789 and ASME B107.14M and DIN3122 regardless of the open end adapter head used
- Wrench kit weight: 7.3 lb
- Wrench length with adapter: 16"



Part #	Mfg #	Description
TOL04110	60652	Precision Torque Wrenches with (8) Interchangeable Open End Adapters

## Valve Wrenches

### Sporlan Valve Wrench

- Spanner end tightens packing nut around super heat adjustment stem
- Adjustable square end for solenoid valves with manual lift stems (B6 and E6 thru MA 50)
- Also 3/16" square at same end for expansion valves



Part #	Mfg #	Description
TOL01524	60617	1/8", 3/16" Square End

## Adjustable Wrenches

### Adjustable Wrench - Extra Capacity Heavy-Duty Plastic-Dipped Handle

- Extra capacity allows use of a similar size wrench to handle bigger jobs, especially in confined spaces
- Forged heat-treated alloy steel for maximum strength and lightweight
- High polish chrome finish



Part #	Mfg #	Length	Capacity
TOL02845	HD507-10	10-3/8"	1-5/16"

### Adjustable Wrench - Extra Capacity Plain Handle

- Extra capacity allows use of a similar size wrench to handle bigger jobs, especially in confined spaces
- Forged heat-treated alloy steel for maximum strength and lightweight
- High polish chrome finish



Part #	Mfg #	Length	Capacity
TOL03017	507-6	6-1/4"	15/16"
TOL02558	507-8	8-1/4"	1-1/8"
TOL02958	507-10	10-1/4"	1-5/16"
TOL03018	507-12	12-1/4"	1-1/2"

### Adjustable Wrench - Extra Capacity Plastic Handle

- Excellent in confined spaces
- High polish chrome finish



Part #	Mfg #	Length	Capacity
TOL02354	D507-6	6-3/8"	15/16"
TOL02355	D507-8	8-3/8"	1-1/8"
TOL02356	D507-10	10-3/8"	1-5/16"
TOL02357	D507-12	12-3/8"	1-1/2"

### Adjustable Wrench - Standard Capacity Plastic-Dipped Handle

- Forged heat-treated alloy steel for maximum strength and light weight
- Contoured handles
- Precision-machined jaws
- High polish chrome finish



Part #	Mfg #	Length	Capacity
TOL03041	D500-18	18-3/8"	2-1/16"
TOL03042	D500-24	24-1/4"	2-1/2"

### Extra-Wide Jaw Adjustable Wrench

- Standard and metric sizes marked
- Wide handle



Part #	Mfg #	Length	Capacity
TOL03937	D509-8	8"	1-1/2"

# Wrenches

## Standard Capacity Adjustable Wrench

- Forged and heat treated alloy steel
- High polish chrome finish



Part #	Mfg #	Length	Capacity
TOL02555	506-15	15-7/8"	1-11/16"
TOL03410	500-18	18-1/4"	2-1/16"
TOL03411	500-24	24"	2-1/2"

## Standard-Jaw Design Adjustable Wrench - Plastic Dipped Handles

- Plastic dipped handles
- Forged heat treated alloy steel for maximum strength and lightweight
- High polish chrome finish



Part #	Mfg #	Length	Capacity
TOL02353	D506-4	4-1/2"	1/2"

## Combination Wrenches

### Individual Combination Wrench



Part #	Mfg #	Length	Capacity
TOL02421	68410	1/4"	3-15/16"
TOL02422	68411	5/16"	4-3/4"
TOL02423	68412	3/8"	5-1/4"
TOL02424	68413	7/16"	5-13/16"
TOL02425	68414	1/2"	6-1/2"
TOL02426	68415	9/16"	7-3/16"
TOL02427	68416	5/8"	8"
TOL02447	68417	11/16"	8-25/32"
TOL02448	68418	3/4"	9-5/8"
TOL02488	68419	13/16"	10-5/8"
TOL02489	68420	7/8"	11-1/2"
TOL02490	68421	15/16"	12-1/2"
TOL02491	68422	1"	13-1/4"
TOL02492	68423	1"	13-1/2"
TOL02493	68424	1-1/8"	15-1/2"
TOL02494	68425	1-1/4"	16-7/8"

## Individual Metric Combination Wrench



Part #	Mfg #	Length	Capacity
TOL03996	68507	130mm	7mm
TOL03997	68508	137mm	8mm
TOL03998	68509	155mm	9mm
TOL03999	68510	165mm	10mm
TOL04000	68511	165mm	11mm
TOL04001	68512	181mm	12mm
TOL04002	68513	181mm	13mm
TOL04003	68514	191mm	14mm
TOL04004	68515	191mm	15mm
TOL04005	68517	229mm	17mm
TOL04006	68519	248mm	19mm

## 7-Piece Combination Wrench Set

- Set contains:
  - 1/4" (68410)
  - 5/16" (68411)
  - 3/8" (68412)
  - 7/16" (68413)
  - 1/2" (68414)
  - 9/16" (68415)
  - 5/8" (68416)
- Includes pouch with marked pockets for each wrench



Part #	Mfg #	Description
TOL02420	68400	7-Piece Set with Pouch

## 9-Piece Combination Wrench Set

- Set contains:
  - 1/4" (68410)
  - 5/16" (68411)
  - 3/8" (68412)
  - 7/16" (68413)
  - 1/2" (68414)
  - 9/16" (68415)
  - 5/8" (68416)
  - 11/16" (68417)
  - 3/4" (68418)
- Includes pouch with marked pockets for each wrench



Part #	Mfg #	Description
TOL02446	68402	9-Piece Set w/Pouch

# Wrenches

## 12-Piece Combination Wrench Set



- Set contains:
  - 1/4" (68410)
  - 5/16" (68411)
  - 3/8" (68412)
  - 7/16" (68413)
  - 1/2" (68414)
  - 9/16" (68415)
  - 5/8" (68416)
  - 11/16" (68417)
  - 3/4" (68418)
  - 13/16" (68419)
  - 7/8" (68420)
  - 15/16" (68421)



- Includes pouch with marked pockets for each wrench

Part #	Mfg #	Description
TOL02486	68404	12-Piece Set w/Pouch

## 14-Piece Combination Wrench Set



- Set contains:
  - 3/8" (68412)
  - 7/16" (68413)
  - 1/2" (68414)
  - 9/16" (68415)
  - 5/8" (68416)
  - 11/16" (68417)
  - 3/4" (68418)
  - 13/16" (68419)
  - 7/8" (68420)
  - 15/16" (68421)
  - 1" (68422)
  - 1-1/16" (68423)
  - 1-1/8" (68424)
  - 1-1/4" (68425)



- Includes pouch with marked pockets for each wrench

Part #	Mfg #	Description
TOL02487	68406	14-Piece Set ith Pouch

## 7-Piece Metric Combination Wrench Set



- Includes:
  - 7mm (68507)
  - 9mm (68509)
  - 10mm (68510)
  - 11mm (68511)
  - 13mm (68513)
  - 14mm (68514)
  - 15mm (68515)



- Includes pouch with marked pockets for each wrench

Part #	Mfg #	Description
TOL03940	68500	7-Piece Set with Pouch

## 11-Piece Metric Combination Wrench Set



- Set contains:
  - 7" (68507)
  - 8" (68508)
  - 9" (68509)
  - 10" (68510)
  - 11" (68511)
  - 12" (68512)
  - 13" (68513)
  - 14" (68514)
  - 15" (68515)
  - 17" (68517)
  - 19" (68519)



- Includes pouch with marked pockets for each wrench

Part #	Mfg #	Description
TOL02956	68502	Metric Set with Pouch

## Construction Wrenches

### 1/2" Drive Ratcheting Construction Wrench

- Accepts 1/2" square drive hex socket
- Reversible ratchet
- Eliminates the need for carrying several fixed-size wrenches
- Forged from select alloy steel with continuous-taper handle for aligning bolt holes
- Industrial black finish for corrosion resistance



Part #	Mfg #	Overall Length
TOL04572	3238	15"

### Adjustable Head Construction Wrench



- Versatile wrench fits all nuts and bolts to maximum capacity
- Eliminates the need for carrying several fixed-size wrenches
- Forged from select alloy steel with continuous-taper handle for aligning bolt and/or rivet holes
- Industrial black finish for corrosion resistance



Part #	Mfg #	Overall Length	Max Capacity
TOL04522	3227	11"	1-5/16"
TOL02513	3239	16"	1-1/2"

# Wrenches

## Grip-It® Strap Wrenches



Part #	Mfg #	OD Dia Capacity	Handle Length
TOL02722	S6H	1-1/2" - 5"	6"
TOL02467	S12H	1-1/2" - 5"	12"
TOL02803	S18H	1-1/8" - 8"	18"

## Lineman Wrenches

### Lineman's Insulating 4-in-1 Box Wrench

- "See-through" insulating handle confirms metal ends are not connected
- 12-Point sockets
- Reverse ratcheting action by reversing switches on each end of the wrench
- Textured grooves in handle prevent slipping
- Chrome-plated finish resists corrosion



Part #	Mfg #	Size	Length
TOL04521	KT223-INS	1/2", 9/16", 5/8", 3/4"	9"
TOL03965	KT223X4-INS	1/2", 9/16", 5/8", 3/4"	9"

## Open-End Wrenches

### Open-End Offset Wrench

- Ends are offset at 15°
- Nickel chrome-plated
- Corrosion-resistant
- Forged from alloy-steel



Part #	Mfg #	Description
TOL03835	68460	1/4" and 5/16" Ends
TOL03836	68461	3/8" and 7/16" Ends
TOL03837	68462	1/2" and 9/16" Ends

## 5-Piece Open-End Wrench Set

- Set contains:
  - 1/4" (68460)
  - 3/8" (68461)
  - 1/2" (68462)
  - 9/16" (68463)
  - 11/16" (68464)
- Includes pouch with marked pockets for each wrench



Part #	Mfg #	Description
TOL02871	68450	5-Piece Wrench Set with Pouch

## Ratcheting Box Wrenches

### Fully Reversible Ratcheting Offset 6-Point Box Wrench

- Both ends are offset 25°
- Quick flip reversing lever
- Chrome-plated



Part #	Mfg #	Size	Length
TOL02851	68234	1/4" x 5/16"	4-3/8"
TOL02642	68236	3/8" x 7/16"	5-1/2"
TOL02640	68238	1/2" x 9/16"	6-3/4"

### Fully Reversible Ratcheting Offset 12-Point Box Wrench

- Both ends are offset 25° for use in confined spaces and on long studs
- Laminated construction
- Reverse ratcheting action
- Chrome-plated finish



Part #	Mfg #	Size	Length
TOL02641	68242	3/4" x 7/8"	9-1/8"



# Wrenches

## Fully Reversible Ratcheting Refrigeration Wrench

- Fully reversible ratchet wrenches designed for refrigeration packing gland nuts and valve stem sockets
- Wrenches are compact in size, with clearly marked sockets for four nut sizes
- Also designed for beam clamp installation
- Chrome finish



Part #	Mfg #	Socket Sizes
TOL02683	68309	3/16" & 1/4" Square x 1/2" & 9/16" Hex

## 5-Piece Fully Reversible Offset Box Wrench Set

- Includes:
  - 1/4" x 5/16" (68234)
  - 3/8" x 7/16" (68236)
  - 1/2" x 9/16" (68238)
  - 5/8" x 11/16" (68240)
  - 3/4" x 7/8" (68242)



Part #	Mfg #	Description
TOL02658	68245	5-Piece Set

## Ratcheting Box Wrench

- Both ends are offset 25°
- Different size at each end
- Laminated construction
- Reverse ratcheting action by turning wrench over
- Chrome-plated finish
- 12-Point



68201



68204

Part #	Mfg #	Size	Length
TOL02756	68200	1/4" x 5/16"	4-3/8"
TOL02757	68201	3/8" x 7/16"	5-1/2"
TOL02758	68202	1/2" x 9/16"	6-7/8"
TOL02759	68203	5/8" x 11/16"	8-1/4"
TOL02760	68204	5/8" x 3/4"	8-1/4"

## 5-Piece Ratcheting Box Wrench Set with Pouch

- Packed in a vinyl 8-1/2" x 10" roll-up pouch
- Ends offset at 25°
- Laminated construction
- Includes (5) double-hex wrenches:
  - 1/4" x 5/16" (68200)
  - 3/8" x 7/16" (68201)
  - 1/2" x 9/16" (68202)
  - 5/8" x 11/16" (68203)
  - 5/8" x 3/4" (68204)



Part #	Mfg #	Description
TOL02459	68221	5-Piece Set with Vinyl Pouch

## 7-Piece Ratcheting Box Wrench Set

- Set of the ratcheting box wrenches in vinyl roll-up pouch
- 12-Point
- Includes:
  - 1/4" x 5/16" (68200)
  - 3/8" x 7/16" (68201)
  - 1/2" x 9/16" (68202)
  - 5/8" x 11/16" (68203)
  - 5/8" x 3/4" (68204)
  - 11/16" x 3/4" (68205)
  - 13/16" x 7/8" (68206)



Part #	Mfg #	Description
TOL02565	68222	7-Piece Set

## Ratcheting Box Wrench Sets

### 3-Piece Fully Reversible Ratcheting Offset Box Wrench Set

- Includes:
  - 1/4" x 5/16" (68234)
  - 3/8" x 7/16" (68236)
  - 1/2" x 9/16" (68238)



Part #	Mfg #	Socket Sizes
TOL02594	68244	3-Piece Set



# Wrenches

## Sockets

### 6-Point Socket, 3/8" Driver



Part #	Mfg #	Size
TOL03974	65907	7mm
TOL03975	65909	9mm
TOL03976	65910	10mm
TOL03977	65911	11mm
TOL03978	65912	12mm
TOL03541	65702	1/2"
TOL03543	65712	1/2" Deep
TOL03979	65913	13mm
TOL03980	65914	14mm
TOL03542	65703	9/16"
TOL03544	65713	9/16" Deep
TOL03981	65915	15mm
TOL03982	65916	16mm
TOL03983	65917	17mm
TOL03984	65918	18mm
TOL03985	65919	19mm

### 12-Point Socket, 1/2" Drive



Part #	Mfg #	Size
TOL04227	65808	15/16"

## Socket Wrenches

### Socket Wrench Driver & Extension



Part #	Mfg #	Description
TOL03119	65621	Spinner Handle, 1/4" Driver
TOL02656	65720	7-1/2" Ratchet, 3/8" Driver
TOL02997	65723	6" Extension, 3/8" Driver
TOL02699	65820	10-1/2" Ratchet, 1/2" Driver
TOL02972	65822	17" Flex Handle, 1/2" Driver

## Socket Wrench Sets

### 8-Piece 1/2" Drive Deep Socket Wrench Set

- Includes:
  - (8) 12-Point deep sockets: 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8" and 15/16"
  - Hinged metal box



Part #	Mfg #	Description
TOL02755	65514	8-Piece 1/2" Drive, Deep Socket Set Plus Metal Box

### 16-Piece 1/2" Drive Socket Wrench Set

- Includes:
  - (13) 12-Point sockets: 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1-1/16", 1-1/8", and 1-1/4"
  - Extension: 5" long
  - Flex handle: 17" long
  - Ratchet
  - Hinged metal box



Part #	Mfg #	Description
TOL02442	65512	16-Piece 1/2" Drive Set Plus Metal Box

### 8-Piece 3/8" Drive Deep Socket Wrench Set

- Includes:
  - (8) 6-Point deep sockets: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", and 13/16"
  - Hinged metal box



Part #	Mfg #	Description
TOL02754	65502	8-Piece 3/8" Deep Socket Drive Set Plus Metal Box

Tools

# Wrenches

## 12-Piece 3/8" Drive Socket Wrench Set

- Includes:
  - (4) 6-Point sockets: 3/8", 7/16", 1/2", and 9/16"
  - (4) 12-Point sockets: 5/8", 11/16", 3/4", and 13/16"
  - Spark plug socket: 5/8"
  - (2) Extensions: 1-3/4" and 6" long
  - Ratchet
  - Hinged metal box



Part #	Mfg #	Description
TOL03092	65504	12-Piece 3/8" Drive Set Plus Metal Box

## 20-Piece 3/8" Drive Socket Wrench Set

- Includes:
  - (4) 6-Point sockets: 3/8", 7/16", 1/2" and 9/16"
  - (5) 12-Point sockets: 5/8", 11/16", 3/4", 13/16" and 7/8"
  - (8) 6-Point deep sockets: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4" and 13/16"
  - (2) Extensions: 1-3/4" and 3" long
  - (1) Ratchet
  - Hinged metal box



Part #	Mfg #	Description
TOL02458	65508	20-Piece 3/8" Drive Socket Wrench Set

## 13-Piece Metric Set, 3/8" Drive

- Includes:
  - (13) 6-Point sockets: 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, and 19mm
  - Handy, flip lock tray



Part #	Mfg #	Description
TOL02657	65506	1-Piece 3/8" Drive Metric Set plus Plus Flip Lock Tray

## 13-Piece 1/4" Drive Socket Wrench Set

- Includes:
  - (9) 6-Point sockets: 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", and 1/2"
  - Spinner handle
  - (2) Extensions: 2" and 6" long
  - Ratchet
  - Hinged metal box



Part #	Mfg #	Description
TOL02542	65500	13-Piece 1/4" Drive Set Plus Metal Box

## Torque Wrenches

### Torque Wrench with Square-Drive Ratchet Head

- Micro-adjustable
- Quick release lever
- Stainless steel handle



Part #	Mfg #	Drive Size	Overall Size	Range
TOL03006	57000	3/8"	14-1/8"	15-75 lbs
TOL03686	57005	3/8"	10-5/8"	30-150 lbs

## Ratchet Wrenches

### Refrigeration Ratchet Wrench



Part #	Mfg #	Description
TOL02780	2002-0122	Refrigeration Ratchet Wrench with 3/16", 1/4", 5/16", & 3/8" Square Openings
TOL02781	2002-0123	Refrigeration Ratchet Wrench with 3/16" & 1/4" Square Openings and 1/2" & 9/16" Hex Openings

# Boiler Cleaning Parts & Accessories

## Boiler Cleaner Parts & Accessories

### FTS Tube Cleaning Scraper Tool for SAM-3 Tube Cleaning System

- For removing light scale deposits in boiler firetubes when steel brushes do not remove all deposits
- Medium action, spring-loaded tools
- Ferrule extension required



Part #	Mfg #	Size
TOL02806	FTS-200	2"
TOL02807	FTS-250	2-1/2"
TOL02808	FTS-300	3"

### Tube Cleaning Scraper Tool Ferrule Extension

- For use with FTS and JTS series scraper tools when using BFN series nozzles



Part #	Mfg #	Size
TOL02809	FE-375	3-3/4"
TOL02810	FE-2100	21"

## Boiler Cleaning Brushes

### Steel Spring Filled Boiler Tube Cleaning Brush

- For removing heavy scale deposits



Part #	Mfg #	Tube OD
BRU00433	SFB-200-1 5/8	1-5/8"
BRU00434	SFB-200-2	2"
BRU00435	SFB-200-2 1/2	2-1/2"
BRU00436	SFB-300-51MM	51mm
BRU00437	SFB-300-76MM	76mm

## Steel Tube Cleaning Brush for SAM-3

- For removing soot and light scale deposits



Part #	Mfg #	Tube OD
BRU00195	GTC-151-1 3/8	1-3/8"
BRU00196	GTC-151-2 1/2	2-1/2"
BRU00303	GTC-151-2	2"
BRU00306	GTC-151-1 5/8	1-5/8"
BRU00316	GTC-151-3	3"
BRU00317	GTC-151-3 1/2	3-1/2"
BRU00318	GTC-151-4	4"

## Boiler Cleaning Tools

### Straight Bayonet Nozzle for SAM-3 System



Part #	Mfg #	Size
NOZ00848	BFN-152S-1 3/8	1-3/8"
NOZ00849	BFN-152S-1 5/8	1-5/8"
NOZ00850	BFN-152S-2	2"
NOZ00851	BFN-152S-2 1/2	2-1/2"
NOZ00852	BFN-152S-3	3"
NOZ00853	BFN-152S-3 1/2	3-1/2"



# Chiller Tube Cleaners

## Tube Cleaners

### Complete Chiller Tube Cleaner Kit

- Variable speed
- Speed-feed gun
- Stainless steel construction
- Large wheels
- Simultaneous water flush
- Trigger controlled operation
- Includes:
  - (1) Chiller tube cleaner (RAM-5-SFVS)
  - (1) Chiller bib bag (9401)
  - (1) Chiller bib frame (9402)
  - (2) Flexible shafts (GTC-703Q-45-R5)
  - (25) Blue nylon brushes (GTC-211Q)
  - (1) Repair kit for GTC-703Q flexible shaft (REP-703Q)
  - (1) 2-Direction foot switch (834R-SF)
- Weight: 75 lbs net dry



Part #	Mfg #	Description
KIT16920	R5SFVS-45Q	115V, 60Hz, Chiller Tube Complete Cleaning Kit

### RAM-4 Chiller Rotary Tube Cleaner

- One-person operation
- For cleaning tubes/pipes 1/4" to 1" ID in chillers, condensers, evaporators, absorption machines and heat exchangers
- Water requirements: 30 psi @ 2 gpm
- Stainless steel construction
- Simultaneous water flush
- Foot switch activation
- Dimensions: 37"H x 20"W x 17"D
- Flexible shaft speed: 862.5 rpm
- 21' Power supply cord
- Includes:
  - RAM-4 Chiller tube cleaner
  - Mobile dolly with tool storage box
  - Foot switch



Part #	Mfg #	Description
TOL03395	RAM-4-50-R	1/2 hp, 115V, 50Hz Tube Cleaning Machine, 2-Directional Foot Switch
TOL01860	RAM-4-BASE-60	1/2 hp, 115V, 60Hz Tube Cleaning Machine Base Only, 1-Directional Foot Switch
TOL01861	RAM-4BASE-60-R	1/2 hp, 115V, 60Hz Tube Cleaning Machine, 2-Directional Foot Switch less Dolly
TOL01659	RAM-4-60	1/2 hp, 115V, 60Hz Tube Cleaning Machine, 1-Directional Foot Switch
TOL01746	RAM-4-60-R	1/2 hp, 115V, 60Hz Tube Cleaning Machine, 2-Directional Foot Switch
TOL01787	RAM-4-60-R-C	1/2 hp, 115V, 60Hz Tube Cleaning Machine, 2-Directional Foot Switch and Contractor Dolly
TOL01747	RAM-4-60-C	1/2 hp, 115V, 60Hz Tube Cleaning Machine, 1-Directional Foot Switch and Contractor Dolly
TOL01741	RAM-4A-50	1/2 hp, 220V, 50Hz Tube Cleaning Machine, 2-Directional Foot Switch
TOL03396	RAM-4A-50-R	1/2 hp, 230V, 50Hz Tube Cleaning Machine, 2-Directional Foot Switch
TOL04030	RAM-4X-60-R	1 hp Tube Cleaning Machine with Reversible Motor, 2-Directional Foot Switch
TOL01734	RAM-4X-60-2	1 hp, 115V, 60Hz Tube Cleaning Machine, 1-Directional Foot Switch

# Chiller Tube Cleaners

## RAM-5 Speed-Feed/Variable-Speed Automatic Feeding Chiller Tube Cleaner

- Variable-speed up to 3' per second
- Stainless steel construction
- Large wheels
- Simultaneous water flush removed deposits
- Trigger controlled operation
- Speed-feed gun
- 15' Guide hose
- Foot switch
- Shafts, brushes, and other accessories sold separately
- Weight: 75 lbs net dry
- Includes (1) Set of shaft feeder gears and mobile dolly with tool storage box



Part #	Mfg #	Description
TOL03822	RAM-5DC-60-3	1 hp, 115V, 60Hz
TOL03823	RAM-5DC-60-3C	1 hp, 115V, 60Hz with Contractor Dolly
TOL03824	R5DC-60-3-BASE	1 hp, 115V, 60Hz less Dolly
TOL03905	RAM-5ADC-50-3	1 hp, 220V, 50Hz Auto Feed Tube Cleaner with 703 Series Shaft Gears
TOL03906	RAM-5DC-50-3	1 hp, 110V, 50Hz Auto Feed Tube Cleaner with 703 Series Shaft Gears

## RAM-6 Tube Cleaner

- Variable speed: 200 to 800 rpm
- Stainless steel construction
- Large pneumatic tires
- Quick connect threadless shaft manifold
- Reversible shaft rotation
- Simultaneous cleaning solution injection and water power flush up to 500 psi @ 2.2 gpm
- Foot switch activation
- Weight: 103 lbs net dry
- Includes:
  - 2-Directional foot switch and
  - 1 gal Bottle of R6-CLEANER tube cleaning solution
  - Heavy-duty contractor dolly with tool storage box



Part #	Mfg #	Description
TOL01661	RAM-6-60	1-1/2 hp, 115V, 60Hz

## RAM-PRO Portable Chiller Tube Cleaner

- Chain drive
- Roll cage
- Simultaneous water flush
- Foot switch activation
- Reversible shaft rotation
- Quick connect threadless shaft manifold
- Flexible shaft speed: 862.5 rpm
- Minimum water requirement: 30 psi @ 2 gpm
- Motor power:
  - RAM-PRO-50/RAM-PRO-60: 1/4 hp
  - RAM-PROA-60: 1/2 hp
- Input power:
  - RAM-PRO-50/RAM-PRO-60: 5.5A, 115V, 60 Hz AC
  - RAM-PROA-60: 4.5A, 230V, 60 Hz AC
- Weight: 35 lbs net dry
- Includes RAM-PRO chiller tube cleaner and 2-direction foot switch



Part #	Mfg #	Description
TOL03934	RAM-PRO-50	1/4 hp 110V, 50Hz
TOL03794	RAM-PRO-60	1/4 hp 115V, 60Hz
TOL03795	RAM-PROA-60	1/2 hp 220V, 60Hz

## RAM-PRO-XL® Industrial Tube Cleaner

- Direct drive
- Roll cage
- Quick connect threadless shaft manifold
- Interchangeable cleaning tools
- Chain drive system
- Vibration-resistant
- Integrated compact dolly
- Power cord and foot pedal storage
- Simultaneous water flush
- Variable speed: 0 to 900 rpm
- Minimum water requirement: 30 psi @ 2 gpm
- On-board TubeGuard® dispensing system
- Weight: 55 lbs net dry
- Includes starter pack of TubeGuard-XL tablets



Part #	Mfg #	Description
TOL04204	RAM-PRO-XL	1/2 hp 115V, 50/60Hz, 5.5A
TOL04205	RAM-PRO-XLA	1/2 hp 220V, 50/60Hz, 3A

Tube, Coil, & Cooling Tower Cleaning

# Chiller Tube Cleaners

## TubeGuard-XL Anti-Corrosion Tablets

- Inhibits corrosion in copper and ferrous metal tubes
- Tablets dissolve into RAM-PRO-XL on-board reservoir during tube cleaning



Part #	Mfg #	Description
CHM	TUBEGUARD-XL	Anti-Corrosion Tablets

## Tube Cleaner Chemicals

### R6-Cleaner Tube Cleaning Solution

- Formulated for use with the RAM-6
- Low foaming with a neutral pH
- Biodegradable and phosphate-free
- Cleans both ferrous and non-ferrous tubes

Part #	Mfg #	Description
CHM00734	R6-CLEANER	Tube Cleaning Solution

## Tube Cleaner Parts & Accessories

### Tube Cleaner Accessories

Part #	Mfg #	Description
CAT00165	X2-07	Catch Sprocket 17t for RAM-PRO
CAT00166	X2-08	Catch Sprocket 36t for RAM-PRO
CAT00167	X2-09	Catch Chain for RAM-PRO
CAT00168	2286	Catch Sprocket, 48T x 1/2" Bore for RAM-5DC
CAT00169	2285	Catch Sprocket, 17T x 5/8" Bore for RAM-5DC
CAT00170	2287	Catch Chain, 18" with Master Connecting Link
CLP00960	879	Motor Clip for RAM-4 and 5
CLP00961	2256	Receptacle Clip for RAM-5
CON01047	808	Electrical Connector for All Goodway Machine Models
CON01048	2211	Connector Tube for RAM-5
FAN03174	829-60-1	Motor Cooling Fan for RAM-4
FAN03183	2227	115V Electric Cooling Fan for RAM-5
CPL00991	821	Reducer Coupling for 820 Solenoid

### Tube Cleaner Accessories (Continued)

Part #	Mfg #	Description
CPL00995	C1	Coupling, 8/32m x 8/32m for 1/4" and 5/16" Brushes to 701 Series Flexible Shaft
CPL00996	c2	Coupling, 12/24m x 8/32m for 3/8" Brushes to 701 Series Flexible Shaft
CPL01093	947	Coupling for RAM-PTC
DRN00005	2257	Drain Assembly for RAM-5 Gun Assembly
ELL00892	822	Elbow
ELL00905	2253	Internal Elbow for RAM-5
FTG00895	802	Standard Hose Fitting for RAM-4, 5, 6, PRO, CC-400, 140 & 600
FTG00897	2216	Female Hose Fitting for RAM-5
FTG00898	2212-4	Bulk Head Fitting for RAM-5
FTG00899	2212-5	Switch Fitting RAM-5
FTG00954	2745	Female Disconnect Fittings for RAM-5
FTG01021	936	Barbed Fitting 1/8" NPT x 1/4" Barb for RAM-6
NIP00159	819	Nipple, 1/8" x 1-1/2" NPT for 820 Solenoid
COV03332	2204	Gear Box Cover for RAM-5
GID00094	RAM5-GT-8	8' Guide Tube Assembly for RAM-5
TOL01994	RAM-5-GT	RAM-5-GT Complete Guide Tube Gun Assembly for Model RAM-5
KEY00873	2209	1/8" x 3/16" Gears in RAM-5
LIT00862	1417	Indicator Light for RAM-4, 5 & 6
LIT01109	X2-10	Green Indicator Light for RAM-PRO
ORF01345	2254	Internal Orifice for RAM-5
PIN00872	2245	Trigger Pin for RAM-5 Gun Assembly
PIN00873	DDC-4	Pin for RAM-5-GT Gun Assembly
PLU00923	gtc-705-8	Sight Glass Plug for GSL-705 Lubricator
CRD00082	842	Ground Fault Power Cord for RAM-4 and RAM-PRO
PMP01433	2214	Air Pump; 115V for Ram-5
RCT00838	871	115V Receptacle for Ram-4, 5, and 6
RLY02867	2266	Relay for Ram5
RSR00173	987	1/4"F x 1/8"M Reducer for GPW-1200 Pressure Washer
RNG01756	805	O-Ring
RNG01757	826	Snap Ring for RAM 4, 5, 6 & Pro
RNG01766	2203-4	40mm Snap Ring
RNG01779	DDC-5	Ring for RAM-5-GT

# Chiller Tube Cleaners

## Tube Cleaner Accessories (Continued)

Part #	Mfg #	Description
RNG01795	6020	RAM-6 Snap Ring
RNG01924	949	Snap Ring for RAM-PTC & RAM-PRO-XL
RNG02062	6208-4	Canister O-Ring
RNG02195	SQC-01	Manifold Inner Ring for Ram Series Tube Cleaners Sqc Style
RNG02196	SQC-02	Manifold Outer Ring for Ram Series Tube Cleaners Sqc Style
COV03935	834R-2	Bottom Casing, RAM-4
COV03936	834R-3	Top Casing, RAM-4
SCR01984	609	RAM-5 Screw
SCR01985	611	Cover Screw for RAM-4, 5,6 & Pro
SCR01986	812	Thumbscrews for RAM-dolly
SCR01987	840	Screw for 839 Bumper
SCR01988	HWS1162SH	Screw
SEL00878	824	Water Seal, 1". OD x 1/2" ID for RAM 4, 5, 6 & Pro
SEL00896	6005	U Cup Seal for RAM-6
SEL01164	HWOR-215	O Ring Seal Sqc Shaft Buna
SHF02755	873	Shaft; Driver Assembly for Ram-4
SHF02756	2229	Driver for Ram-5
SHF02757	6003	Shaft Driver for RAM-6
SHF03203	979	Shaft/Driver Assembly for RAM-PTC& AWT-100
SHE03947	830	5" x 1/2" for RAM-4 with 2:1 Drive Ratio
SHE03971	2250	5" x 1/2" for RAM-5S
SHE03972	831X-1	2-1/2" x 5/8" for RAM-4X
SHE04015	830-1	4" x 1/2" for RAM-4X with 1:1 Drive Ratio
SHE04025	831	2-1/2" x 1/2" for RAM-2
SHE04142	831X-2	4" x 5/8" for RAM-4X with 1:1 Drive Ratio
SHE04310	831-1	3" x 1/2" for RAM-4A Units
SLV00187	1321-1	Outer Black Sleeve for RAM-5 Gun Assembly
SPC00507	SQC-08	Manifold Spacer for RAM Series Tube Cleaners Sqc Style
SPG00883	2219-703	Flexible Shaft Stop Spring Assembly for GTC-703 Series Flexible Shaft On RAM-5
SPG00886	2219-2	RAM-5 Shaft Stop GTC-702 Shaft Size
SPG00887	850	Spring for 847 & 834R-SF Foot Pedal
SPG00888	2263	Stop Spring for RAM-5
SPG00889	2264	Coil Return Spring for RAM-5

## Tube Cleaner Accessories (Continued)

Part #	Mfg #	Description
SPG01021	945	Spring Spacer for RAM-PTC & RAM-PRO-XL
SPG01127	SQC-10	Manifold Spring for RAM Series Tube Cleaners SQC Style
COV03108	856	RAM-4 Stainless Steel Cover
COV03142	2201	RAM-5 Stainless Steel Cover
SRA00846	718	Strain Reliever for GTC-701 & GTC-702
SRN00830	2241	Internal Screen for RAM-5
SRP00880	CS-18	Flexible Shaft Carry Strap
SRP00881	2244	Safety Strap for RAM-5
SUP04423	2225	Trigger Pads for RAM-5 Gun Assembly
SUP04429	811	Hanger for RAM-dolly
SUP04430	2212-1	Block for RAM-5
SUP05508	9008	Gear Foot for CC-400HF & RAM-PRO
SWT02452	834	RAM-3 Foot Switch
SWT02435	834R	2-Direction Foot Switch for RAM-4-60 and RAM-PRO
SWT02436	834R-1	Pneumatic Pressure Switch for RAM-4
SWT03189	834R-RAM-6	2-Direction Foot Switch, for RAM-6
SWT02455	834R-SF	2-Direction Foot Switch for RAM-5
SWT02450	847	Single-Direction Foot Pedal for RAM-4
SWT02437	849	Single-Direction Air Switch for 847 Foot Pedal
SWT02438	2224	Gun Assembly Trigger for RAM-5
SWT02928	2267	Air Switch for RAM-5
SWT02659	QSP-22	Male Quick Disconnect Switch for LD-2X2 Leak Detector Gun
SWT03609	X2-11	GFCI Switch for RAM-PRO
SWT02420	846	Single Hose Switch for 847 Foot Pedal
SWT02421	847-SF	Single Foot Switch for RAM-5
COV03331	817-3	115V Only, RAM-4 and RAM-5
KIT12137	R4-TPC	Tube Cleaning Package Kit, for Cleaning 5/8" & 15/16" ID Tubes. Includes: (1) TOL01746, (1) SHF02745, (25) BRU00177, and (30) BRU00262
TOL04120	2248-36	36" Gun Tube Extension for RAM-5
TUB10385	2248	Control Gun Tube for RAM-5 Gun Assembly
TUB10386	2217-15	Guide Tube, 15' for RAM-5 Gun Assembly

# Chiller Tube Cleaners

## Tube Cleaner Accessories (Continued)

Part #	Mfg #	Description
TUB10387	2249	Air Harness Tube for RAM-5
VAL07210	2207	Stop Valve for RAM-5
VAL07444	820	Solenoid Valve, 115V, RAM-4, 5,6 & Pro
VAL07456	820X	Solenoid Valve, 115V, RAM-4X
BLL00935	832	21" V-Belt
BLL00947	832-1	22" V-Belt
BLL01893	6012	RAM-6 V-Belt
BRU00174	EBB-062	5/8" Brass Dual Diameter Brush for Use with RAM-4-60 And RAM-6-60
BRU00182	EBB-062-Q	5/8" Brass Dual Diameter Brush, with Quick Connect Fittings, for Use with RAM-4-60 And RAM-6-60

## Driver/Roller Gear for RAM-5



Part #	Mfg #	Description
GER00350	2205-703	Driver/Roller Gear
GER00351	2205-704	Driver/Roller Gear
GER00352	2206-703	Driver/Roller Gear
GER00353	2206-704	Driver/Roller Gear

## Hose



Part #	Mfg #	Description
HSE01360	841R	Twin Hose for RAM-4 Foot Pedal
HSE01478	935	Water Hose with Inner Braided Tubing for Coilpro Series

## GTC Flexible Shaft Accessories



Part #	Mfg #	Description
IRT00053	722B	Insert for GTC-701
IRT00054	723B	Insert for GTC-702
SHF03463	724B	Insert for GTC-703
IRT00055	725B	Insert for GTC-704

## Manifold for Tube Cleaning Units



Part #	Mfg #	Description
MFD01387	SQC-03	RAM-PRO-XL Manifold
MFD00990	892	Upper Old Style Threaded Manifold for RAM-4 & 5
MFD00991	892/826R	Manifold; Complete Manifold Assembly (consists of One Ea: 805, 824, 825, 826, 892) Old Style Threaded for Ram-4 & 5
MFD00992	6004	Complete Manifold Assembly for RAM-6
MFD00998	823/826R	Complete Manifold Assembly for RAM-3
MFD01351	823-MOD	RAM-PRO Manifold
MFD01363	892-Q	Manifold Quick Connect for RAM-4, 5 & RAM-PRO
MFD01778	892X	Manifold for RAM-4X Model Tube Cleaners
MFD01779	892/826RX	Threaded Manifold Assembly for RAM-4X Tube Cleaners, Includes Seal, Bearing, Snap Ring, O-ring and Manifold Nuts

## Motor for Tube Cleaning Equipment



Part #	Mfg #	Description
MOT10957	829P	1/2 hp 110/220V 60Hz Reversible Motor with Air Switches for RAM-4
MOT10972	829	1/2 hp 110/220V 60Hz Motor for PAM-PTC
MOT10981	2232	3/4 hp, 115/230V 60hz Motor for RAM-5SF
MOT13051	6002	1-1/2 hp, 3-Phase Motor with Thermal Overload for RAM-6
MOT14595	MOT14595	90VDC, 3/4 hp for RAM-5DC
MTR	\$3,101	115V 50/60Hz for RAM-PRO-XL
MTR01351	M-AC-.25-48F	RAM-PRO Motor 115V





# Chiller Tube Cleaners

## RAM Tube Cleaning Replacement Parts

Part #	Mfg #	Description
WAS01026	715-1	Thrust Washer for GTC 703
WAS01027	715-6	Thrust Washer for GTCc-704
WAS01029	803	Screen for Standard Hose Fitting
WAS01030	812-1	Washer for RAM-dolly
WAS01036	6006	Washer Backup for RAM-6
WHL02271	813	Wheel for RAM-dolly
WHL02272	814	Wheel Block Assembly for RAM-dolly
WHL02273	814-1	Wheel Block Assembly for RAM-dolly
WIR03561	2234	Wire Harness for RAM-5
LAT00834	835	Latch for RAM-4 & 5 Cover
HDL00895	806	Carrying Handle for RAM-4, 5, 6
HDL00896	810	Handle Bar for RAM-dolly
HDL00897	2218	Control Handle for RAM-5 Gun Assembly
GRM00862	2233	Grommet for RAM-5
BAR00263	815	Bar for RAM Dolly
BAS01842	855	Machine Base for RAM-4
BAS01895	2200	Empty Machine Base for RAM-5S1
BEL00047	834R-4	Bellow for RAM-4 Foot Pedal
BKR01645	C-CFCI	Ground Fault Retrofit Breaker for GDS-C92 and Ram-5
BUS01376	2208	Bushing Guide for RAM-5
CAP	CD-CAP	Chemical Dispenser Cap for RAM-PRO-XL
CAS01274	719	Strain Reliever Casing for GTC-703 & GTC-704
BOX01483	852	Electrical Box for RAM-4, 5 & 6
BOX01484	2203	Gear Box for RAM-5
BRG01322	825	Bearing for RAM 4, 5, 6 & PRO
BRG01323	833	Bearing Assembly for RAM-4
BRG01324	833-1	Bearing for RAM-4
BRG01429	825-R5	Replacement Bearing for RAM-5 Manifold And Gearbox
BRK03171	2262	Bracket for RAM-5

## RAM Tube Cleaner Dolly





Part #	Mfg #	Description
TOL01749	RAM-DOLLY-C	Heavy-Duty Contractor Dolly for Ram-4, Ram-5sf And Ram-6

## RAM-4 Dolly Assembly

- For RAM-4 or RAM-5 tube cleaning machines





Part #	Mfg #	Description
TOL01733	RAM-4-DOL	Ream-A-Matic Dolly Assembly

## RAM-4 Service Kit

- Includes
  - O-Ring (805)
  - Seal (824)
  - Bearing (825)
  - Snap ring (826)
  - Lower bearing (833)
  - Shaft/driver (873)
  - Screen washer (803)
  - (6) Cover screws (HWST-1037-P)





Part #	Mfg #	Description
KIT08219	RAM4-SVC-KIT	RAM-4 Service Kit



# Chiller Tube Cleaners

## RAM-5 Service Kit

- Includes:
  - O-Ring (805)
  - Seal (824)
  - (10) Bearings (825-R5)
  - Snap ring (826)
  - Lower bearing (833-1)
  - Shaft/driver (2229)
  - Screen washer (803)
  - Speed feed gears (SFG-703)
  - Trigger (2224)
  - (2) Trigger pads (2225)
  - Trigger pin (2245)
  - (6) Cover screws (HWST-1037-P)

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Part #	Mfg #	Description
KIT08220	R5-SVC-KIT-3	RAM-5 Service Kit

## RAM-6 Service Kit

- Includes:
  - O-Ring (805)
  - Seal (6005)
  - Bearing (825)
  - Snap ring (6020)
  - Lower bearing (833)
  - Drive shaft (6003)
  - Screen (803)
  - Washer (6006)
  - V-Belt (6012)
  - (6) Cover screws

GOODWAY®



Part #	Mfg #	Description
TOL03663	RAM6-SVC-KIT	RAM-6 Service Kit

## Tube Cleaning Tools

### Adjustable Buffering Tool

GOODWAY®



- Stainless steel
- For removing light to medium scale deposits or for finishing tubes previously roughed out with other cleaning tools
- For ferrous and nonferrous straight tubes
- Suffixes:
  - DT: With drill tip
  - Q: Quick connect

Part #	Mfg #	Tube Size
TOL01710	GTC-203	5/16" to 3/8"
TOL01711	GTC-203-DT	5/16" to 3/8"
TOL01682	GTC-206	5/16" to 1"
TOL01680	GTC-204	3/8" to 1/2"
TOL01664	GTC-204-DT	3/8" to 1/2"
TOL01712	GTC-204Q	3/8" to 1/2"
TOL04113	GTC-204Q-DT	3/8" to 1/2"
TOL01681	GTC-205	1/2" to 9/16"
TOL01665	GTC-205-DT	1/2" to 9/16"
TOL01713	GTC-205Q	1/2" to 9/16"
TOL01714	GTC-205Q-DT	1/2" to 9/16"
TOL01667	GTC-206-DT	5/8" to 1"
TOL01715	GTC-206Q	5/8" to 1"
TOL01716	GTC-206Q-DT	5/8" to 1"
TOL01900	GTC-223	1" to 3"



# Chiller Tube Cleaners

## Tube Cleaning Tool Parts

### Drive End Repair Coupling

- For repairing the drive end coupling for flexible tube cleaning shafts

GOODWAY



Part #	Mfg #	Description
CPL00982	713-1	For GTC-701
CPL00983	713-2	For GTC-702
CPL00975	713-3	For GTC-703
CPL00984	713-4	For GTC-720, GTC-721, GTC-721G, and GTC-821
CPL00976	713-5	For GTC-704

### Tool/Brush End Repair Coupling

- For repairing tool/brush end crimp coupling for flexible tube cleaning shafts
- Q Suffix = quick connect

GOODWAY



Part #	Mfg #	Description
CPL00985	717-1	For GTC-701
CPL00986	717-2	For GTC-702
CPL00990	717-2Q	For GTC-702
CPL00977	717-3	For GTC-703
CPL00978	717-3Q	For GTC-703
CPL00987	717-4	For GTC-720, GTC-721, GTC-721G, and GTC-821
CPL00979	717-6	For GTC-704
CPL00980	717-6Q	For GTC-704

### Tube Sheet Refacing Kit

- Includes:
  - (2) Liters of base epoxy
  - (1) Liter of hardener
  - Mixing bucket
  - Scraper
  - Steel brush
  - Cup brush
  - (2) Mini rollers
  - 3" Bristle brush
  - Acid brush
  - Coveralls
  - Gloves
  - Tarp

GOODWAY



Part #	Mfg #	Description
KIT13655	TSRK	Tube Sheet Refacing Kit

## Buffing Tools

### Replacement Blade Set

- Fits all versions of GTC series buffing tools

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Part #	Mfg #	Description
BLD01014	GTC-207	Replacement Blade Set for GTC-2303 (TOL0170)
BLD01015	GTC-208A	Replacement Blade for GTC-205 (TOL01681)
BLD01016	GTC-208B	Replacement Blade for GTC-206 (TOL01682)
BLD01020	GTC-224	Replacement Blade for GTC-223 (TOL01900)

## Chiller Bibs

### Chiller Bib Frame Kit

- 24"W x 12"D Reusable aluminum frame
- Disposable poly bag with integrated 25' hose
- Soft, oversized nylon brushes fasten chiller bib to tube sheet
- Includes (3) bags

GOODWAY



Part #	Mfg #	Description
KIT09421	BIB-KIT-3	Chiller Bib Frame Kit
KIT09420	9401	Chiller Bib Bag
KIT09422	BAG-KIT-10	Chiller Bib Bag, 10/Pk
FRM01483	9402	Chiller Bib Frame

## Flexible Shafts

### Flexible Shaft for Wet Tube Cleaning

- Nylon casing
- Q Suffix = quick connect

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### 1/4" - 3/8" Tube ID Flexible Shaft

Part #	Mfg #	Length
SHF02763	GTC-701-12	12'
SHF02764	GTC-701-25	25'

# Chiller Tube Cleaners

## 7/16" - 1/2" Tube ID Flexible Shaft

Part #	Mfg #	Length
SHF02765	GTC-702-12	12'
SHF02768	GTC-702Q-12	12'
SHF02766	GTC-702-17	17'
SHF02769	GTC-702Q-17	17'
SHF02760	GTC-702-25	25'
SHF02770	GTC-702Q-25	25'
SHF02761	GTC-702-35	35'
SHF02771	GTC-702Q-35	35'
SHF02767	GTC-702-45	45'
SHF02772	GTC-702Q-45	45'

## 7/16" - 1/2" Tube ID Flexible Shaft for RAM-5 System

- Speed-feed gears required for RAM-5-SFVS tube cleaning system

Part #	Mfg #	Length
SHF02985	GTC-702-35-R5*	35'
SHF03113	GTC-702-45-R5	45'

\*Includes speed-feed gears for RAM-5 system

## 9/16" - 1" Tube ID Flexible Shaft

Part #	Mfg #	Length
SHF02773	GTC-703-12	12'
SHF02777	GTC-703Q-12	12'
SHF02762	GTC-703-17	17'
SHF02778	GTC-703Q-17	17'
SHF02734	GTC-703-25	25'
SHF02745	GTC-703Q-25	25'
SHF02735	GTC-703-35	35'
SHF02746	GTC-703Q-35	35'
SHF02737	GTC-703-45	45'
SHF02779	GTC-703Q-45	45'
SHF02774	GTC-703-60	60'
SHF02780	GTC-703Q-60	60'
SHF02775	GTC-703-75	75'

## 9/16" - 1" Tube ID Flexible Shaft for RAM-5 System

- Speed-feed gears required for RAM-5-SFVS tube cleaner

Part #	Mfg #	Length
SHF02736	GTC-703-35-R5	35'
SHF02747	GTC-703Q-35-R5	35'
SHF02738	GTC-703-45-R5	45'
SHF02748	GTC-703Q-45-R5	45'
SHF02739	GTC-703-60-R5	60'
SHF02749	GTC-703Q-60-R5	60'
SHF02776	GTC-703-75-R5	75'

## 11/16" - 1" Tube ID Flexible Shaft

Part #	Mfg #	Length
SHF02781	GTC-704-12	12'
SHF02788	GTC-704Q-12	12'
SHF02782	GTC-704-17	17'
SHF02789	GTC-704Q-17	17'
SHF02741	GTC-704-25	25'
SHF02742	GTC-704-35	35'
SHF02743	GTC-704-45	45'
SHF02751	GTC-704Q-25	25'
SHF02752	GTC-704Q-35	35'
SHF02753	GTC-704Q-45	45'
SHF02785	GTC-704-60	60'
SHF02792	GTC-704Q-60	60'
SHF02787	GTC-704-75	75'

## 11/16" - 1" Tube ID Flexible Shaft for RAM-5 System

- Speed-feed gears required for RAM-5-SFVS tube cleaner

Part #	Mfg #	Length
SHF02783	GTC-704-35-R5	35'
SHF02790	GTC-704Q-35-R5	35'
SHF02784	GTC-704-45-R5	45'
SHF02791	GTC-704Q-45-R5	45'
SHF02786	GTC-704-60-R5	60'
SHF02793	GTC-704Q-60-R5	60'



# Chiller Tube Cleaners

## Flexible Shaft for Horizontal Duct Cleaning

- For AQ Series duct cleaning systems
- For ducts up to 18"
- Nylon casing
- For removing light to medium deposits
- G Suffix = heat-resistant to 300'



Part #	Mfg #	Length
SHF02988	GTC-704-12-C	12'
SHF02987	GTC-704-25-C	25'
SHF02986	GTC-704-35-C	35'
SHF03243	GTC-704-60-C	60'
SHF03307	GTC-704G-60-C	60'

## Flexible Shaft Accessories

### Blockoffs



Part #	Mfg #	Description
BOF01670	727	For GTC-701
BOF01671	728	For GTC-702
BOF01672	729	For GTC-703
BOF01673	730	For GTC-704
BOF01674	839	Bumper Bottom Blockoff for All RAM Machines
BOF01675	2238	Bumper Tube Blockoff for RAM-5
BOF01911	2219-702	Blockoff Assembly for GTC-702 Series Flexible Shaft On RAM-5

### Flexible Shaft Collar for GTC Shaft



Part #	Mfg #	Description
CLR00880	2219-703-2	Collar for GTC-703 Shaft Stop Assembly On RAM-5
CLR00881	2219-704-2	Collar for GTC-704 Shaft Stop Assembly On RAM-5

### Flexible Shaft Cone for GTC Shaft



Part #	Mfg #	Description
CNE00838	2219-703-4	Rear Cone for GTC-703 Shaft Stop Assembly On RAM-5
CNE00839	2219-704-4	Rear Cone for GTC-704 Shaft Stop Assembly On RAM-5
CNE00841	2219-703-1	Front Cone for GTC-703 Shaft Stop Assembly On RAM-5

## Flexible Shaft Core for GTC Shaft



Part #	Mfg #	Description
COR00087	GTC201-2	Shaft Core for GTC-701
COR00088	GTC202-1	Shaft Core for GTC-702
COR00089	GTC202H-1	Shaft Core for GTC-703
COR00090	GTC704-1	Shaft Core for GTC-704

## Flexible Shaft Crimping Tool with Punch



Part #	Mfg #	Description
TOL01684	GTC-CT5	Crimping Tool with Punch

## Flexible Shaft Crimping Tool Replacement Punch

- For GTC-CT5 flexible shaft crimping tool



Part #	Mfg #	Description
TOL01696	GTC-CTP	Replacement Punch for GTC-CT5

## Flexible Shaft Carrying Bag



- 26" Diameter



Part #	Mfg #	Description
CAS01275	SB-26	Flexible Shaft Carrying Bag

## Flexible Shaft Casing



- Sold per foot

Part #	Mfg #	Description
CAS01277	GTC201-NT	Casing for GTC-701 Shaft
CAS01278	GTC202H-NT	Casing for GTC-703 Shaft
CAS01279	GTC202-NT	Casing for GTC-702 Shaft
CAS01280	GTC704-NT	Casing for GTC-701 Shaft



# Chiller Tube Cleaners

## Flexible Shaft Lubricator

- Maximum air line pressure: 150 psi



GSL-705

GSL-LU1

Part #	Mfg #	Description
TOL01699	GSL-705	Flexible Shaft Lubricator
LUB00039	GSL-LU1	Flexible Shaft Lubricant, 16 oz Bottle

## Flexible Shaft Repair Kit

- Includes:
  - (4) Drive end repair couplings
  - (4) Thrust washers
  - (4) Tool/brush end repair couplings
  - (1) Crimping tool with punch
  - (1) Flexible shaft lubricator with quick disconnect
  - (2) 16oz Bottles of flexible shaft lubricant
- Q Suffix = quick connect



Part #	Mfg #	Description
KIT07643	REP-701-KIT	For GTC-701
KIT07644	REP-702-KIT	For GTC-702
KIT07646	REP-702Q-KIT	For GTC-702Q
SHF02740	REP-703-KIT	For GTC-703
SHF02744	REP-704-KIT	For GTC-704
SHF02750	REP-703Q-KIT	For GTC-703Q
SHF02754	REP-704Q-KIT	For GTC-704Q

## Shaft Cutting & Crimping Press



Part #	Mfg #	Description
TOL03266	PCC-BASE	Shaft Cutting & Crimping Press for GTC-701/702 & 703

## Shaft Cutting & Crimping Press Dies



- For use with Goodway® flexible shaft cutting and crimping press to repair flexible shafts



Part #	Mfg #	Description
TOL03267	DIE-SET-701	For GTC-701
TOL03268	DIE-SET-702	For GTC-702
TOL03269	DIE-SET-703	For GTC-703
TOL03270	DIE-SET-CUT	PCC-Base for PCC-Base Crimping Tool

## Speed-Feed Gear for RAM-5 Shafts



- Replacement gears for shaft feeding mechanism on RAM-5SFVS tube cleaner

Part #	Mfg #	Description
GER00354	SFG-702	For GTC-702
GER00347	SFG-703	For GTC-703
GER00349	SFG-704	For GTC-704



# Chiller Tube Cleaners

## Tube Cleaning Brushes



### Blue Nylon Tube Cleaning Brush

- For removing soft deposits (mud, algae, etc.) in straight, ferrous and nonferrous tubes
- For use with RAM-4-60, RAM-5SF-60-3, RAM-6-60, RAM-PRO, and RAM-PRO-XL
- Q Suffix = quick connect

Part #	Mfg #	Tube Size	Ftg Type	Qty
BRU00202	GTC-211-1/4	1/4"	Std Thread	15/Pk
BRU00259	GTC-211-5/16	5/16"	Std Thread	Each
BRU00186	GTC-211-3/8	3/8"	Std Thread	15/Pk
BRU00205	GTC-211-7/16	7/16"	Std Thread	15/Pk
BRU00188	GTC-211-1/2	1/2"	Std Thread	15/Pk
BRU00168	GTC-211-9/16	9/16"	Std Thread	25/Pk
BRU00169	GTC-211-5/8	5/8"	Std Thread	25/Pk
BRU00170	GTC-211-11/16	11/16"	Std Thread	25/Pk
BRU00171	GTC-211-3/4	3/4"	Std Thread	25/Pk
BRU00203	GTC-211-13/16	13/16"	Std Thread	15/Pk
BRU00206	GTC-211-7/8	7/8"	Std Thread	15/Pk
BRU00204	GTC-211-15/16	15/16"	Std Thread	15/Pk
BRU00189	GTC-211-1	1"	Std Thread	15/Pk
BRU00263	GTC-211Q-7/16	7/16"	Quick Conn	Each
BRU00260	GTC-211Q-1/2	1/2"	Quick Conn	Each
BRU00176	GTC-211Q-9/16	9/16"	Quick Conn	25/Pk
BRU00177	GTC-211Q-5/8	5/8"	Quick Conn	25/Pk
BRU00178	GTC-211Q-11/16	11/16"	Quick Conn	25/Pk
BRU00179	GTC-211Q-3/4	3/4"	Quick Conn	25/Pk
BRU00261	GTC-211Q-13/16	13/16"	Quick Conn	Each
BRU00264	GTC-211Q-7/8	7/8"	Quick Conn	15/Pk
BRU00262	GTC-211Q-15/16	15/16"	Quick Conn	15/Pk
BRU00187	GTC-211Q-1	1"	Quick Conn	15/Pk

## Brass Tube Cleaning Brush



- For removing soft and light scale deposits in straight, ferrous and nonferrous tubes
- Q Suffix = quick connect

Part #	Mfg #	Tube Size	Ftg Type	Qty
BRU00221	GTC-200B-1/4	1/4"	Std Thread	Each
BRU00224	GTC-200B-5/16	5/16"	Std Thread	Each
BRU00223	GTC-200B-3/8	3/8"	Std Thread	Each
BRU00225	GTC-200B-7/16	7/16"	Std Thread	Each
BRU00220	GTC-200-1/2	1/2"	Std Thread	Each
BRU00201	GTC-200B-9/16	9/16"	Std Thread	15/Pk
BRU00192	GTC-200B-5/8	5/8"	Std Thread	15/Pk
BRU00197	GTC-200B-11/16	11/16"	Std Thread	Each
BRU00198	GTC-200B-13/16	13/16"	Std Thread	Each
BRU00222	GTC-200B-3/4	3/4"	Std Thread	15/Pk
BRU00200	GTC-200B-7/8	7/8"	Std Thread	Each
BRU00199	GTC-200B-15/16	15/16"	Std Thread	Each
BRU00219	GTC-200B-1	1"	Std Thread	15/Pk
BRU00233	GTC-200BQ-7/16	7/16"	Quick Conn	Each
BRU00227	GTC-200BQ-1/2	1/2"	Quick Conn	Each
BRU00235	GTC-200BQ-9/16	9/16"	Quick Conn	Each
BRU00232	GTC-200BQ-5/8	5/8"	Quick Conn	Each
BRU00228	GTC-200BQ-11/16	11/16"	Quick Conn	Each
BRU00231	GTC-200BQ-3/4	3/4"	Quick Conn	Each
BRU00229	GTC-200BQ-13/16	13/16"	Quick Conn	Each
BRU00234	GTC-200BQ-7/8	7/8"	Quick Conn	Each
BRU00230	GTC-200BQ-15/16	15/16"	Quick Conn	Each
BRU00226	GTC-200BQ-1	1"	Quick Conn	15/Pk

## The "Patriot®" Dual Diameter Nylon Tube Cleaning Brush



- For removing soft and light scale deposits in straight, ferrous and nonferrous internally enhanced tubes
- Q Suffix = quick connect



Part #	Mfg #	Tube Size	Ftg Type	Qty
BRU00175	ENN-062	5/8"	Std Thread	25/Pk
BRU00324	ENN-090	15/16"	Std Thread	25/Pk
BRU00183	ENN-062-Q	5/8"	Quick Conn	25/Pk
BRU00448	ENN-090-Q	15/16"	Quick Conn	25/Pk



# Chiller Tube Cleaners

## Dual Diameter Spin-Grit Tube Cleaning Brush

- For removing soft and light scale deposits in straight, ferrous and nonferrous internally enhanced tubes



Part #	Mfg #	Tube Size	Ftg Type	Qty
BRU00184	ESGB-062	5/8"	Std Thread	15/Pk
BRU00193	ESGB-050	1/2"	Std Thread	15/Pk
BRU00194	ESGB-075	3/4"	Std Thread	15/Pk
BRU00190	ESGB-100	1"	Std Thread	15/Pk
BRU00213	ESGB-125	1-1/4"	Std Thread	15/Pk
BRU00214	ESGB-Q-050	1/2"	Quick Conn	15/Pk
BRU00215	ESGB-Q-62	5/8"	Quick Conn	15/Pk
BRU00216	ESGB-Q-075	3/4"	Quick Conn	15/Pk
BRU00217	ESGB-Q-100	1"	Quick Conn	15/Pk
BRU00218	ESGB-Q-125	1-1/4"	Quick Conn	15/Pk

## Spin-Grit Tube Cleaning Brush

- For removing soft and light scale deposits in straight, ferrous and non-ferrous tubes
- Nylon bristles
- Cleans and polishes in one step



Part #	Mfg #	Tube Size	Ftg Type	Qty
BRU00207	SGB-050	1/4" to 3/8"	Std Thread	15/Pk
BRU00172	SGB-075	7/16" to 5/8"	Std Thread	15/Pk
BRU00173	SGB-100	11/16" to 3/4"	Std Thread	15/Pk
BRU00191	SGB-125	13/16" to 1"	Std Thread	15/Pk
BRU00180	SGB-Q-075	7/16" to 5/8"	Quick Conn	15/Pk
BRU00181	SGB-Q-100	11/16" to 3/4"	Quick Conn	15/Pk
BRU00266	SGB-Q-125	13/16" to 1"	Quick Conn	15/Pk

## Stainless Steel Tube Cleaning Brush

- For removing soft and light scale deposits in straight, ferrous tubes
- Q Suffix = quick connect



Part #	Mfg #	Tube Size	Ftg Type	Qty
BRU00238	GTC-210-1/4	1/4"	Std Thread	15/Pk
BRU00244	GTC-210-5/16	5/16"	Std Thread	15/Pk
BRU00243	GTC-210-3/8	3/8"	Std Thread	15/Pk
BRU00246	GTC-210-7/16	7/16"	Std Thread	15/Pk
BRU00236	GTC-210-1	1"	Std Thread	15/Pk
BRU00237	GTC-210-1/2	1/2"	Std Thread	15/Pk
BRU00248	GTC-210-9/16	9/16"	Std Thread	15/Pk
BRU00245	GTC-210-5/8	5/8"	Std Thread	15/Pk
BRU00239	GTC-210-11/16	11/16"	Std Thread	15/Pk
BRU00242	GTC-210-3/4	3/4"	Std Thread	15/Pk
BRU00240	GTC-210-13/16	13/16"	Std Thread	15/Pk
BRU00247	GTC-210-7/8	7/8"	Std Thread	15/Pk
BRU00241	GTC-210-15/16	15/16"	Std Thread	15/Pk
BRU00256	GTC-210Q-7/16	7/16"	Quick Conn	15/Pk
BRU00250	GTC-210Q-1/2	1/2"	Quick Conn	15/Pk
BRU00258	GTC-210Q-9/16	9/16"	Quick Conn	15/Pk
BRU00255	GTC-210Q-5/8	5/8"	Quick Conn	15/Pk
BRU00251	GTC-210Q-11/16	11/16"	Quick Conn	15/Pk
BRU00254	GTC-210Q-3/4	3/4"	Quick Conn	15/Pk
BRU00252	GTC-210Q-13/16	13/16"	Quick Conn	15/Pk
BRU00257	GTC-210Q-7/8	7/8"	Quick Conn	15/Pk
BRU00253	GTC-210Q-15/16	15/16"	Quick Conn	15/Pk
BRU00249	GTC-210Q-1	1"	Quick Conn	15/Pk

## U-Tube Cup Brush Tube Cleaning Tool

- For 1/2" - 3/4" ID tubes
- Brushes permanently mounted on 18" sections of flexible shafts
- Snakes partially through each side of a U-bend to thoroughly clean both sides
- Q Suffix = quick connect



Part #	Mfg #	Description
BRU00208	CBT-075B	Brass
BRU00209	CBT-075B-Q	Brass with Quick Connect
BRU00210	CBT-075S	Stainless Steel
BRU00211	CBT-075S-Q	Stainless Steel with Quick Connect





# Chiller Tube Cleaners

## Tube Plugs

### Adjustable Silicone Tube Plug

- Single seal: <60 psi
- Double seal: <150 psi



Part #	Mfg #	Size	Seal	Hardware
PLU01212	TP-ADJ-062D-B	5/8"	Double	Brass
PLU01213	TP-ADJ-062D-S	5/8"	Double	SS
PLU01214	TP-ADJ-062S-B	5/8"	Single	Brass
PLU01215	TP-ADJ-062S-S	5/8"	Single	SS
PLU01216	TP-ADJ-075D-B	3/4"	Double	Brass
PLU01217	TP-ADJ-075D-S	3/4"	Double	SS
PLU01218	TP-ADJ-075S-B	3/4"	Single	Brass
PLU01219	TP-ADJ-075S-S	3/4"	Single	SS
PLU01220	TP-ADJ-087D-B	7/8"	Double	Brass
PLU01221	TP-ADJ-087D-S	7/8"	Double	SS
PLU01222	TP-ADJ-087S-B	7/8"	Single	Brass
PLU01223	TP-ADJ-087S-S	7/8"	Single	SS
PLU01224	TP-ADJ-100D-B	1"	Double	Brass
PLU01225	TP-ADJ-100D-S	1"	Double	SS
PLU01226	TP-ADJ-100S-B	1"	Single	Brass
PLU01227	TP-ADJ-100S-S	1"	Single	SS
PLU01228	TP-ADJ-112D-B	1-1/8"	Double	Brass
PLU01229	TP-ADJ-112D-S	1-1/8"	Double	SS
PLU01230	TP-ADJ-112S-B	1-1/8"	Single	Brass
PLU01231	TP-ADJ-112S-S	1-1/8"	Single	SS
PLU01232	TP-ADJ-125D-B	1-1/4"	Double	Brass
PLU01233	TP-ADJ-125D-S	1-1/4"	Double	SS
PLU01234	TP-ADJ-125S-B	1-1/4"	Single	Brass
PLU01235	TP-ADJ-125S-S	1-1/4"	Single	SS

### Brass Heat & Chiller Tube Plug

GOODWAY

- Recommended for tubes with BWG ranges 15 to 22



Part #	Mfg #	Tube Size
PLU00947	TP-062S	5/8"
PLU00158	TP-075S	3/4"
PLU00962	TP-087S	7/8"
PLU00358	TP-100S	1"

## Tube Plug Tools

### Torque Wrench for Adjustable Silicone Tube Plugs

- Set of (2) torque wrenches

GOODWAY



Part #	Mfg #	Tube OD	Torque
PLU01237	TP-ADJ-TW-SM	5/8" to 3/4"	17 lbs
PLU01236	TP-ADJ-TW-LG	7/8" to 1-1/4"	33 lbs

## Drill Bits

### Carbide Drill Bit

- "Q" Suffix = with quick connect

GOODWAY



Part #	Mfg #	Size
TOL01718	PTB-025	1/4"
TOL01719	PTB-037	3/8"
TOL01720	PTB-043	7/16"
TOL01721	PTB-050	1/2"
TOL01722	PTB-050-Q	1/2"
TOL01723	PTB-062	5/8"
TOL01724	PTB-062-Q	5/8"
TOL01697	PTB-056	9/16"
TOL01725	PTB-068	11/16"



# Coil Cleaning Machines

## Coil Cleaning Vacuums

### Industrial HEPA Dry Vacuum

- 4 hp
- 12A
- 115V, 50/60Hz AC
- Static water lift: 90"
- Air displacement: 135 CFM
- Dry capacity: 2 quarts
- HEPA Filter certified 99.97% efficient at 0.3 microns
- Includes:
  - Filters
  - Steel tank
  - 6' Vinyl crushproof hose
  - 2-Piece 36" wand
  - 19" Flexible extension wand
  - 3" Dual bristle dusting brush
  - 3" Long bristle dusting brush
  - 5" Blower/bulk pickup nozzle
  - 4-Piece 29" flat wand with crevice tool tip
  - 6" Flat brush
  - 48" Shoulder strap



Part #	Mfg #	Description
TOL02988	CVC-100	Industrial HEPA Dry Vacuum

## Coil Cleaning Vacuum Filters

### Replacement Filters for CoilVac®

- For use with total filter systems:
  - 9955-10 Cloth filter
  - CVC-FILTER-FOAM
  - CVC-FILTER-HEPA
  - CVC-PFILTER



GOODWAY

CVC-FILTER-FOAM

9955-10

CVC-FILTER-HEPA

CVC-PFILTER

Part #	Mfg #	Description
FLR06797	9955-10	Cloth Filter Bag
FLR06798	CVC-FILTER-FOAM	Foam Filter, 3/Pk M
FLR06799	CVC-FILTER-HEPA	HEPA Filter A
FLR06800	CVC-PFILTER-12	Paper Filter Bag, 12/Pk

## Coil Cleaning Systems

### Backpack CoilPro Coil Cleaner

- 0.1 hp
- 4A
- 12VDC Rechargeable VRLA battery
- 5-Gallon water tank
- 3-Quart soap container
- Output water pressure: 40 to 100 psi @ 0.25 to 0.5 gpm
- Weight: 25 lbs net dry
- Includes:
  - 10' Self-coiling hose
  - Spray gun with 18" wand
  - (3) Nozzles: foaming, flat spray, and pinpoint
  - 1 Gallon bottle of CoilShine coil cleaning solution

GOODWAY



Part #	Mfg #	Description
TOL02798	CC-100	Backpack CoilPro Coil Cleaner
TOL02837	CC-100A	Backpack CoilPro Coil Cleaner
TOL03291	CC-100-D	Backpack CoilPro Coil Cleaner with Dolly

### CoilPro Industrial Coil Cleaner

- Output water pressure: 600 psi
- Flow rate: 1.6 gpm
- Integrated 5 gallon water tank and 5 gallon chemical tanks
- Chemical control valve
- 18" Stainless steel wand
- (4) Custom nozzles
- Carrying handle and strap
- Weight: 98 lbs net dry
- Includes 1-gallon bottle of CoilShine coil cleaning solution

GOODWAY



Part #	Mfg #	Description
TOL02708	CC-600	1.3 hp, 115V, 60Hz
TOL02831	CC-600A-50	1.3 hp, 230V, 50Hz

# Coil Cleaning Machines

## CoilPro HiFlow Coil Cleaner

- Output water pressure: 400 psi
- Flow rate: 3.0 gpm
- Spray gun with 12' hose
- 18" Stainless steel wand
- 40" Wonder wand with angled spray tip
- Chemical application and rinsing nozzles
- Weight: 45 lbs net dry



Part #	Mfg #	Description
TOL03887	CC-400HF-60	1.3 hp, 110V, 60Hz with Accessories
TOL03888	CC-400HF-A-60	1.3 hp, 230V, 60Hz with Accessories

## CoilPro High Flow Coil Cleaner Kit with CoilVac

- Output water pressure: 600 psi
- Flow rate: 1.6 gpm
- Integrated 5-gallon water tank and 5-gallon chemical tanks
- Chemical control valve
- 18" Stainless steel wand
- (4) Custom nozzles
- 0.3 Micron HEPA filter
- 2 qt Paper filter collection bag
- 2 vacuum/blower speed settings
- Carrying handle and strap
- Weight: 98 lbs net dry



Part #	Mfg #	Description
KIT15832	CC-600-KIT	1.3 hp, 115V, 60Hz

## CoilPro Jr. Compact Coil Cleaner

- Motor power:
  - 0.2 hp
  - 12A
  - 12VDC Rechargeable battery
- Recharge power:
  - 0.3A
  - 115V
  - 50/60Hz AC
- Output water pressure: 125 psi @ 0.6 gpm
- 3.3-Gallon water tank
- 1.75 qt Soap dispenser
- Weight: 20 lbs net dry
- Includes:
  - 10' Self-coiling hose
  - Spray gun with 3' sectional 3/8" diameter stainless steel condenser wand
  - (2) Nozzles: flat spray and pinpoint spray
  - 1-Gallon Bottle of CoilShine coil cleaner



Part #	Mfg #	Description
TOL03253	CC-JR	CoilPro Jr. Compact Coil Cleaning System

## CoilPro Self-Contained Coil Cleaner

- 0.2 hp
- 3A
- 115V, 50/60Hz AC
- Input water pressure: 120 psi
- Integrated 5-gallon water tank and soap container
- Output water pressure: 40 to 140 psi @ 0.25 to 1 gpm
- Weight: 75 lbs net dry
- Includes:
  - 25' Hose
  - Spray gun with 18" wand
  - (4) Nozzles: foaming, (2) flat spray, pinpoint
  - 1-Gallon bottle of CoilShine coil cleaner



Part #	Mfg #	Description
TOL02707	CC-140	115V, 50/60 Hz CoilPro Self-Contained Coil Cleaning System
TOL02742	CC-140A	230V, 50/60 Hz CoilPro Self-contained Coil Cleaning System



# Coil Cleaning Machines

## CoilPro Wet/Dry Coil Cleaner with CoilVac

- Output water pressure: 40 to 140 psi
- 18" Stainless steel wand
- Flexible extension
- (4) Custom nozzles
- Integrated 5-gallon water tank and soap container
- Removable 25' hose
- 12V Rechargeable battery
- Weight: 88 lbs net dry



Part #	Mfg #	Description
KIT15833	CC-140-KIT	0.2 hp, 115V, 60Hz

## Coil Cleaner Chemicals

### CoilShine Coil Cleaning Solution

- Non-acidic blend of detergents formulated for evaporator and condenser coils
- Expanding and self-advancing foam
- Non-toxic
- Biodegradable



Part #	Mfg #	Description
CHM00772	CC-101-1	Coil Cleaning Solution, 1gal
CHM01164	COILSHINE-5	Coil Cleaning Solution, 5gal

## Coil Cleaning System Parts

### Extension Wand

- High-grade stainless steel
- Quick connect fittings



Part #	Mfg #	Length
NOZ00855	9655	18"
NOZ00856	9656	24"
NOZ00857	9657	36"
NOZ00858	9658	48"
NOZ00859	9659	60"

## Flexible Extension Wand

- For use with CC-Jr, CC-100, and CC-140 only
- 90° Spray tip



9650



8945-FLEX-24

Part #	Mfg #	Length
HSE01524	9650	10"
TOL04061	8945-FLEX-24	24"

## Wonder Wand Kit with Spray Gun

- 90° Spray tip
- Quick connect ends



Part #	Mfg #	Description
TOL03661	9972-36-KIT	36" Wonder Wand Kit
TOL03662	9972-48-KIT	48" Wonder Wand Kit

## Wonder Wand Spray Tip

Part #	Mfg #	Description
TOL03889	WWSS-HF	Wonder Wand Stainless Steel High-Flow Tip

## Coil Cleaner Nozzles

### CoilPro Nozzle Adapter

- Connects to the end of extension wands or coil cleaning guns



Part #	Mfg #	Description
ADP01132	QDN-45	45° Adapter
ADP01133	QDN-90	90° Adapter

### Pinpoint Foaming Coil Cleaner Nozzle

Part #	Mfg #	Description
NOZ00854	9654	Pinpoint Foaming Nozzle

# Coil Cleaning Machines

## Coil Cleaner Parts & Accessories

### Backpack CoilPro Wheel & Dolly Kit

- Attaches to CC-100 backpack CoilPro coil cleaner for easy mobility



Part #	Mfg #	Description
TOL02800	9683	Dolly Assembly

### Charger



Part #	Mfg #	Description
CHG00056	9693	115V Smart Charger 12V for CC-100 Battery

### Crankcase Oil



Part #	Mfg #	Description
OIL00320	RCC-10-OIL	Crankcase Oil for CC-400HF Pumps, 4.5 oz

### Hose



Part #	Mfg #	Description
HSE01606	9623	CC-600 Hose Assembly
HSE01770	RCC-13	Hose Assembly CC-400HF 12'

### Motor



Part #	Mfg #	Description
MOT14755	RCC-12	Motor AC 1 hp CC-400-HF

### Nozzle



Part #	Mfg #	Description
NOZ01007	RCC-14	Spray Gun Assembly CC-400HF

### Pump



Part #	Mfg #	Description
PMP02079	RCC-10	Pump; Pump 3gpm w/ Thermal Valve CC-400HF

### RAM Machine Parts



Part #	Mfg #	Description
BAT00051	\$9,638	Battery Assembly for CC-120/TOL02255

## Scale Removal System



Part #	Mfg #	Description
TOL03671	GDS-15-PH	Scale Removal System; 115V 3/4 hp; 30 gpm with On-Board Ph Level Monitor Including 15 gal Tank, Multiple Fittings and (2) 15' Hands Free Auto Chemical Pump Hoses

# Cooling Tower Vacuums

## Cooling Tower Vacuums

### Cooling Tower Vacuum

- Static water lift: 25'
- Water displacement: 50 gpm
- Centrifugal pump
- For removing cooling tower bacteria and other micro-organisms
- Adjustable flow control
- Weight: 125 lbs net dry
- Includes:
  - Sediment filter
  - 15' Inlet hose
  - 25' Outlet hose
  - 4' Pick-up wand
  - 6" Gulper tool
  - Storage bag



Part #	Mfg #	Description
TOL03258	CTV-1501A-60	1 hp, 230V, 60Hz
TOL03257	CTV-1501-60	1 hp, 115V, 60Hz
TOL03222	CTV-1501-A-50	1.5 hp, 220V, 50Hz

### Cooling Tower Vacuum Accessory Kit

- Includes
  - 25' Vinyl crush-proof extension hose
  - 36" Extension tube
  - 20" Floor brush
  - 12" Paddle tool
  - 18" Bulk pickup tool
  - 6" Utility brush



Part #	Mfg #	Description
KIT15387	CTV-KIT-1501	1-1/2" Cooling Tower Vacuum Accessory Kit

### Cooling Tower Vacuum Accessories

Part #	Mfg #	Description
TOL02135	6225-3	12" Paddle Tool
TOL02136	6225-4	6" Gulper Tool
TOL02137	6228	18" Bulk Pick-up Tool

## Cooling Tower Cleaning Systems

### TowerWash Cooling Tower Fill Cleaner

- 5A, 115V, 60Hz AC
- Output foaming volume: 20 gpm
- Output water pressure: same as supplied
- Compressor output: 60 psi @ 1 CFM
- Integrated continuous duty air compressor for enhanced foam production
- Heavy-duty, chemical-resistant components and dolly
- Platform to hold (1) 5-gallon chemical container
- Water hose connection
- Weight: 50 lbs net dry
- Includes:
  - 35' Chemical-resistant hose
  - Spray gun
  - 30" Foaming wand with quick connect
  - 30" Foaming wand with 90° elbow and quick connect
  - 30" Extension wand with quick connect, fan nozzle, and rinsing attachment
  - 5-Gallon bucket of Towershine



Part #	Mfg #	Description
TOL03154	TFC-100	TowerWash Cooling Tower Fill Cleaner

## Cooling Tower Cleaner Chemicals

### TowerShine Cooling Tower Fill Cleaner

- Use with TFC-100 or CC-400HF coil cleaner
- Biodegradable, expanding foam detergent

Part #	Mfg #	Description
CHM00744	TOWERSHINE-05	5 gal Pail
CHM00985	TOWERSHINE-55	55 gal Drum



# Cooling Tower Vacuums

## Cooling Tower Filter Systems

- For use with CTV-1501
- Maximum input water pressure: 30 psi @ 50 gpm
- Heavy-duty aluminum filter housing
- Integrated dolly
- Reusable filters provide up to (3) uses
- Quick lock lids
- Weight: 70 lbs net dry
- Includes:
  - (2) 5 Micron filters
  - 25' Connection hose
  - 25' Outlet hose

GOODWAY



Part #	Mfg #	Description
TOL02258	CTV-F2	Cooling Tower Filter System

## Cooling Tower Accessories

### CTV-F2 Cooling Tower Filter

- Compatible with CTV-F2 cooling tower filter system

GOODWAY



Part #	Mfg #	Description
FLR06339	9703	Cooling Tower Filter
FLR06340	9703-6	Cooling Tower Filters, 6/Pk

## Brushes

GOODWAY

Part #	Mfg #	Description
BRU00353	6230	6" Utility Brush
BRU00212	6229	20" Floor Brush

## Head

GOODWAY

Part #	Mfg #	Description
HED00763	6220-3	Head; 24" Single Bend Wand

## Hose

GOODWAY

Part #	Mfg #	Description
HSE01451	ctv-eh-25	1-1/2" x 25' Crush-Proof Extension Hose with Quick Connect Fittings
HSE01452	ctv-eh	1-1/2" x 50' Crush Proof Extension Hose with Quick Connect Fittings
HSE01453	6220	1-1/2" x 15' Crush Proof Intake Hose with 6220-3 Single Bend Wand And Quick Connect Fittings
HSE01454	6221	1-1/2" x 25' Crush Proof Discharge Hose with Quick Connect Fittings
HSE01760	6220a	Replacement Inlet Hose

## Ring

GOODWAY

Part #	Mfg #	Description
RNG02061	6240	O-Ring for CTV-1501

## Tubing

GOODWAY

Part #	Mfg #	Description
TUB11136	6225	36" Extension Tube



# Cooling Tower Treatments

## Cooling Tower & Evaporative Cooler Treatments

### CTT™ SM Self-Metering Cooling Tower Treatment

- Controls scale, mud, silt and foaming
- Provides protection for non-ferrous metals and contains a corrosion inhibitor for ferrous metals
- (1) Tube treats units up to (10) tons
- No special equipment needed
- Lasts 1 to 2 months



Part #	Mfg #	Description
CHM01136	68032	16-Tablet Tube

### CTT™ Feeder Tablet

- 100% Active, non-acidic multi-purpose water treatment
- Prevents hard water mineral scale formation and both ferrous and non-ferrous corrosion
- Suspends mud, dirt, and silt
- Controls foaming
- Works in many feeders
- Controls everything but algae
- For systems up to 400 tons
- EPA Registered



Part #	Mfg #	Description
CHM01135	68034	20-Tablet Tube

### Refresh™ Self-Metering Evaporative Cooler Treatment

- Eliminates growths and odors in evaporative coolers, humidifiers and air conditioners
- Improves efficiency and reduces costs
- Recommended for:
  - Reservoirs
  - Drain pans
- Reduces break-downs
- EPA Registered



Part #	Mfg #	Description
CHM00283	68114	4-Tablet Tube
CHM01137	68112	275-Tablet Pail





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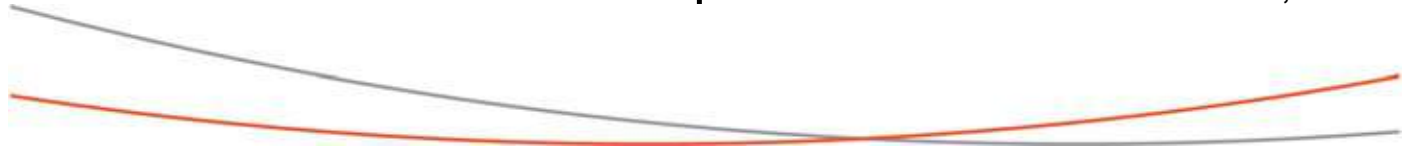
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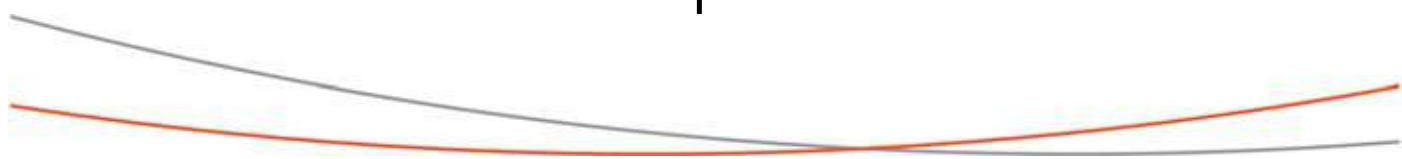


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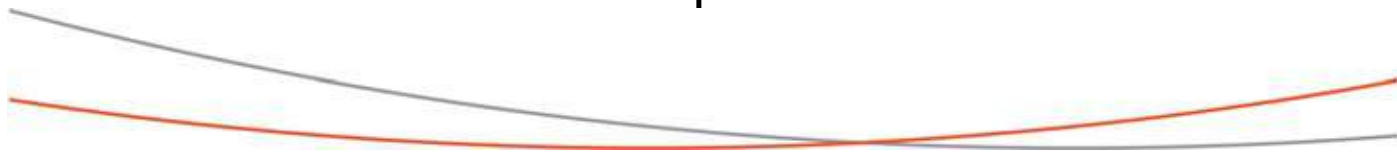
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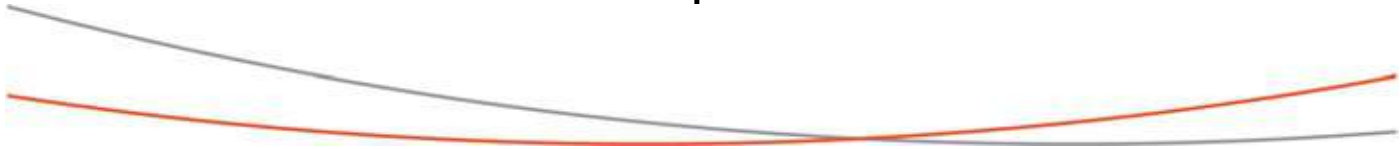
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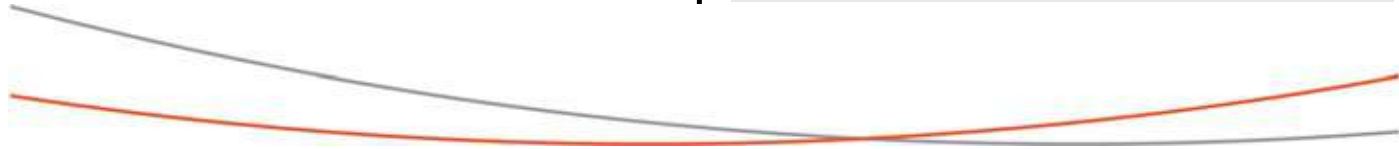


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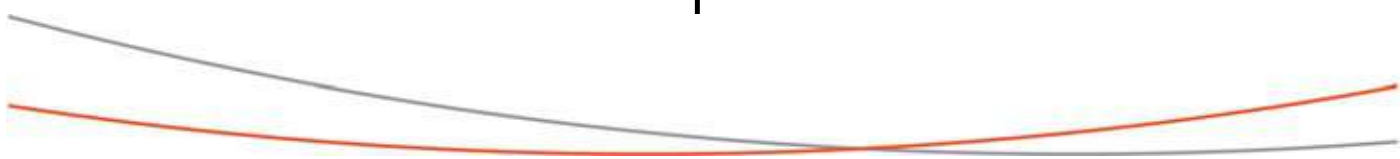
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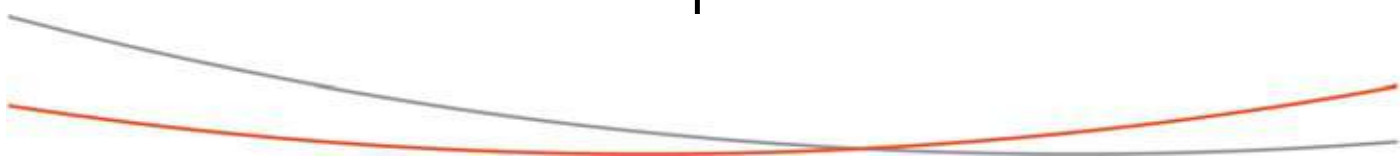
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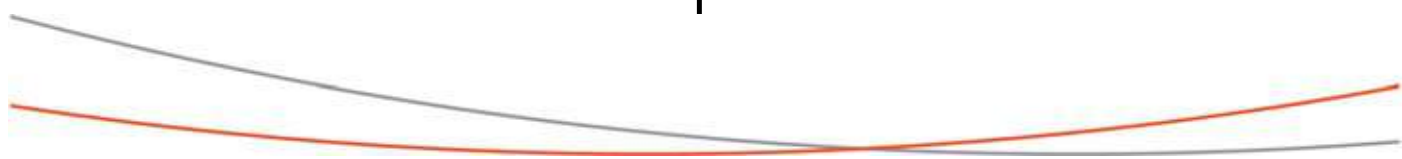
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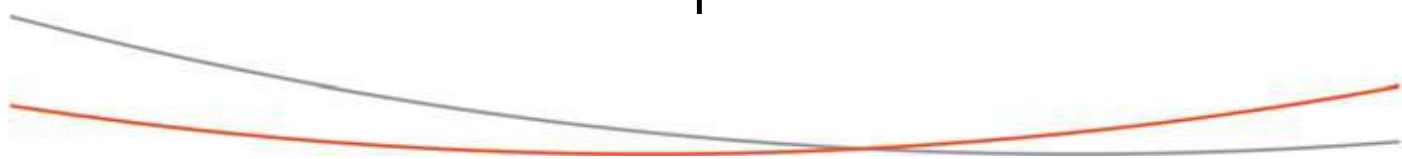
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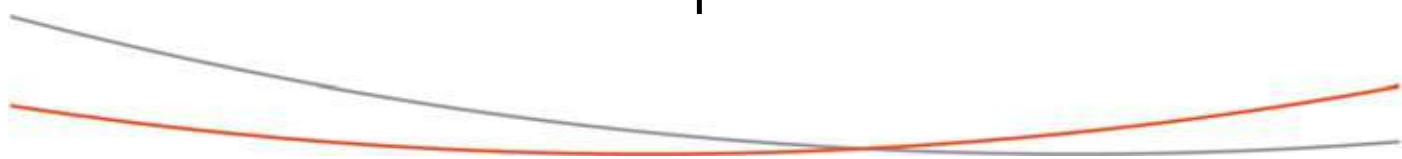


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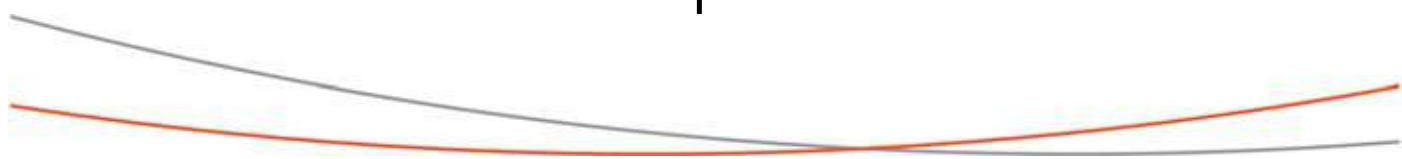
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