

# AIR CONDITIONER



Representative photo only, some models may vary in appearance.

## 1 1/2 THRU 5 TONS SPLIT SYSTEM

### FEATURES

- High efficiency scroll compressors on all models
- Sweat valves on all models
- External refrigerant connections
- Copper tube / aluminum fin coil
- Prepainted condenser fins
- Fan motor in-line disconnect plug
- Factory charge
- Top air discharge for quieter operation
- Galvanized steel cabinet with integral base rails
- Triple step paint process
- Coated inlet grille
- 11+ SEER with Expansion Valve coils



Rated in accordance with ARI Standard 210. Certification applies only when used with proper components as listed with ARI.



# UNIT SPECIFICATIONS

Model Number		CA5518VKD	CA5524VKD	CA5530VKD	CA5536VKD	CA5542VKD	CA5548VKD	CA5560VKD
<b>Electrical Data</b>	Voltage-Phase-Hz	208 / 230-1-60						
	Voltage Range (Min-Max)	197-253						
	Minimum Circuit Ampacity	11.9	14.1	18.9	21.3	24.6	28.6	35.7
	Wire Size/Max. Length (AWG Cu) Ft.	#14 / 50	#14 / 40	#14 / 30	#12 / 35	#12 / 25	#10 / 40	#8 / 50
	Time Delay Fuse (Amps)	15	20	25	30	30	35	45
	Max. Fuse or HACR Type Breaker Size (Amps)	20	20	30	35	40	50	60
<b>Compressor Data</b>	Voltage-Phase-Hz	208 / 230-1-60						
	Full Running / Lock Rotor Amps	9.0 / 42	10.3 / 53	14.1 / 73	16.0 / 100	18.6 / 127	21.8 / 131	27.1 / 175
<b>Fan Data</b>	Voltage-Phase-Hz	208 / 230-1-60						
	Horsepower / Type	1/5 / PSC	1/5 / PSC	1/5 / PSC	1/5 / PSC	1/3 / PSC	1/3 / PSC	1/3 / PSC
	Full Load / Lock Rotor Amps.	1.3 / 2.3	1.3 / 2.3	1.3 / 2.3	1.3 / 2.3	1.4 / 3.6	1.4 / 3.6	1.9 / 4.35
	Speeds / CFM (Max)	1 / 2100	1 / 2100	1 / 2100	1 / 2200	1 / 2800	1 / 3000	1 / 3500
<b>Outdoor Coil Data</b>	Total Face Area (Sq. Ft.)	10.73	10.73	10.73	13.41	15.39	20.13	21.31
	Fins Per Inch / Rows	20 / 1	20 / 1	22 / 1	22 / 1	22 / 1	22 / 1	22 / 1
	Tube Diameter (OD) (In.)	3/8						
<b>Charge</b>	Suction I.D. Size (In.)	3/4			7/8			7/8
	Liquid I.D. Size (In.)	5/16			3/8			
	Factory Charge R-22 (Oz)	59	73	74	82	98	134	150
<b>Weights</b>	Shipping / Net (Lbs.)	130 / 122	132 / 123	140 / 131	156 / 146	183 / 165	193 / 180	209 / 196

## MODEL NUMBER IDENTIFICATION GUIDE

MODEL NUMBER	C	A	55	24	V	K	D
<b>PRODUCT FAMILY</b>	<p>C = Condenser E = Evaporator Coil B = Blower</p>						
<b>PRODUCT TYPE</b>	<p>A = Air Conditioning H = Heat Pump C = Cabinet</p>						
<b>SERIES</b>	<p>55 = 5000 Models      95 = 9000 Models</p>						
							<p><b>SALES CODE</b> ELECTRICAL K = 208/230-1-60 H = 208/230-3-60</p>
							<p><b>CONNECTIONS</b> S = Sweat V = Sweat / Valve X = Other</p>
							<p><b>NOMINAL CAPACITY MBTUH</b> 24 = 24,000</p>

## PERFORMANCE DATA COOLING

OUTDOOR MODEL	INDOOR MODEL	BTUH	SEER RATINGS				EER	WATTS	S/T	CFM	PIN	dBels
			BASE	+ TD1	+ TXV	+ TD1 + TXV						
CA5518*KD	EP*18B15A	17,500	10.90	11.10	11.30	11.40	10.40	1683	.74	600	.051	72
	EP*24B15A	18,000	11.00	11.20	11.40	11.50	10.60	1689	.75	600	.051#	
	EP*30(B15,F19)A	18,000	11.10	11.30	11.50	11.60	10.60	1698	.75	600	.051#	
	EPD/M30F19A + EV12F19	18,100	---	---	12.60	---	11.60	1560	.75	600	.051#	
	EEA,EED24B15A	17,500	10.90	11.10	11.30	11.40	10.40	1683	.74	600	.051	
	EX*24(B15,F19)A	18,300	11.30	11.40	---	---	10.80	1694	.73	600	TXV	
	EAH5524	18,000	11.00	11.20	11.40	11.50	10.70	1682	.74	600	.051#	
	EAH5536	18,500	11.20	11.40	11.60	12.00	10.90	1697	.74	600	.051#	
	FCP2400A	17,500	10.90	---	11.30	---	10.20	1715	.74	600	.051#	
	FCX2400A	18,200	11.20	---	---	---	10.70	1699	.73	600	TXV	
CA5524*KD	EEA,EED24B15A	22,800	10.00	---	---	---	9.5	2400	.73	700	.059#	74
	EP*24B15A	23,600	10.50	10.70	10.90	11.00	10.20	2314	.74	800	.059	
	EP*30(B15,F19)A	23,600	10.60	10.80	11.00	11.10	10.20	2314	.76	800	.059#	
	EPD/M30F19A = EV12F19	23,800	---	---	12.10	---	11.20	2125	.76	800	.059#	
	EX*24(B15,F19)A	24,200	11.20	11.30	---	---	10.30	2350	.75	800	TXV	
	EAH5524	24,200	10.50	10.70	10.90	11.00	10.20	2353	.72	800	.059#	
	EAH5536	24,200	10.70	11.00	11.10	11.20	10.70	2286	.75	800	.059#	
	FCP2400A	23,600	10.50	---	11.00	---	10.00	2360	.74	800	.059#	
	FCX2400A	24,200	11.10	---	---	---	10.30	2350	.75	800	TXV	

# PERFORMANCE DATA COOLING

OUTDOOR MODEL	INDOOR MODEL	BTUH	SEER RATINGS				EER	WATTS	S/T	CFM	PIN	dBels
			BASE	+ TD1	+ TXV	+ TD1 + TXV						
CA5530*KD	EEA,EED30B15A	28,000	---	10.00	---	---	9.5	2947	.73	1000	.065#	76
	EP*30(B15,F19)A	28,600	10.70	10.50	10.90	11.00	9.70	2948	.76	1000	.065	
	EPD/M30F19A + EV12F19	28,800	---	---	12.00	---	10.70	2692	.76	1000	.065	
	EP*36(B15,F19,J22)A	28,800	10.80	10.60	11.00	11.10	9.70	2969	.75	1000	.065#	
	EPD/M36F19A + EV12F19	29,000	---	---	12.10	---	10.70	2710	.75	1000	.065#	
	EPD/M36J22A + EV16J22	29,000	---	---	12.10	---	10.70	2710	.75	1000	.065#	
	EX*36(F19,J22)A	30,000	11.30	11.20	---	---	10.00	3000	.74	1000	TXV	
	EAH5536	28,200	10.60	10.40	10.80	11.00	9.50	2968	.73	1000	.065#	
	FCP3000A	28,600	---	10.50	10.90	---	9.50	3010	.76	1000	.065	
FCX3600A	30,000	---	11.10	---	---	10.00	3000	.74	1000	TXV		
CA5536*KD	EEA,EED36	33,600	---	10.00	---	---	9.4	3574	.74	1200	.072#	76
	EP*36(B15,F19,J22)A	34,400	10.70	10.50	10.90	11.00	9.50	3621	.75	1200	.072	
	EPD/M36F19A + EV12F19	34,600	---	---	12.00	---	10.50	3295	.75	1200	.072	
	EPD/M36J22A + EV16J22	34,600	---	---	12.00	---	10.50	3295	.75	1200	.072	
	EP*42(F19,J22)A	36,000	11.20	11.00	11.40	11.50	10.60	3396	.74	1200	.072#	
	EPD/M42F19A + EV12F19	36,200	---	---	12.50	---	11.60	3121	.74	1200	.072#	
	EPD/M42J22A + EV16J22	36,200	---	---	12.50	---	11.60	3121	.74	1200	.072#	
	EX*36(F19,J22)A	36,000	11.60	11.50	---	---	10.30	3495	.74	1200	TXV	
	EAH5536	33,800	10.60	10.40	10.80	11.00	9.40	3596	.74	1200	.071	
	FCP3600A	34,400	---	10.50	10.90	---	9.30	3699	.75	1200	.072	
FCX3600A	36,000	11.10	11.30	---	---	10.30	3495	.74	1200	TXV		
CA5542*KD	EEA,EED42F19	39,500	---	10.00	---	---	9.50	3879	.74	1225	.078	76
	EP*42(F19,J22)A	42,000	10.70	10.50	10.90	11.00	9.90	4242	.74	1225	.078	
	EPD/M42F19A + EV12F19	42,500	---	---	12.00	---	10.90	3899	.74	1225	.078	
	EPD/M42J22A + EV16J22	42,500	---	---	12.00	---	10.90	3899	.74	1225	.078	
	EX*42J22A	42,000	11.10	11.00	---	---	9.90	4242	.71	1400	TXV	
	EP*48F19A	42,500	11.10	10.90	11.30	11.40	9.90	4293	.74	1400	.078#	
	EPD/M48F19A + EV12F19	42,500	---	---	12.50	---	10.90	3899	.74	1400	.078#	
	EP*48(J22,N26)A	42,500	11.20	11.00	11.40	11.50	10.00	4250	.73	1400	.079	
	EPD/M48J22A + EV16J22	42,500	---	---	12.40	---	10.90	3899	.73	1400	.079	
	EPD/M48N26A + EV20N26	42,500	---	---	12.50	---	11.00	3864	.73	1400	.079	
	EEA,EED48F19A	42,000	10.70	10.50	10.90	11.00	9.90	4242	.74	1225	.078	
	EAH5548	42,500	11.20	11.00	11.40	11.50	10.00	4250	.73	1400	.078#	
	FCP4200A	42,000	---	10.50	10.90	---	9.50	4421	.74	1400	.078	
FCX4800A	42,000	---	11.00	---	---	9.90	4242	.71	1400	TXV		
CA5548*KD	EEA,EED48F19A	43,000	---	10.00	---	---	9.4	4574	.73	1225	.079#	78
	EP*48(F19,J22,N26)A	46,000	10.70	10.50	10.90	11.00	9.80	4694	.76	1600	.079	
	EPD/M48F19A + EV12F19	46,500	---	---	12.00	---	10.80	4306	.76	1600	.079	
	EPD/M48J22A + EV16J22	46,500	---	---	12.00	---	10.80	4306	.76	1600	.079	
	EPD/M48N26A + EV20N26	46,500	---	---	12.00	---	10.80	4306	.76	1600	.079	
	EX48N26A	46,000	11.60	11.50	---	---	10.10	4554	.73	1600	TXV	
	EP*60(J22,N26)A	47,000	11.20	11.00	11.40	---	9.80	4694	.76	1600	.079#	
	EAH5548	44,500	11.10	10.90	11.30	11.50	9.70	4588	.74	1600	.079#	
	EAH5560	46,500	11.20	11.00	11.40	11.50	9.90	4697	.74	1600	.079#	
	FCP4800A	46,000	---	10.50	10.90	---	9.60	4791	.76	1600	.079	
FCX4800A	45,500	---	11.30	---	---	9.80	4664	.73	1600	TXV		
CA5560*KD	EEA,EED60J22A	54,500	---	10.00	---	---	9.5	5737	.70	1400	.089#	78
	EP48N26A	57,500	10.70	10.50	10.90	11.00	9.70	5928	.70	1600	.089	
	EP*60J22A	58,000	10.70	10.50	10.90	11.00	9.60	6042	.69	1600	.090	
	EPD/M60J22A + EV16J22	58,500	---	---	11.20	---	9.80	5969	.69	1600	.090	
	EP*60N26A	58,000	10.70	10.50	10.90	11.00	9.60	6042	.69	1800	.090	
	EPD/M60N26A + EV20N26	58,500	---	---	11.20	---	9.80	5969	.69	1800	.090	
	EX*60N26A	60,000	11.10	11.00	---	---	9.90	6061	.69	1750	TXV	
	EAH5560	60,000	10.90	10.70	11.10	11.50	9.60	6250	.70	1800	.089#	
	FCP6000A	58,000	---	10.50	10.90	---	9.60	6042	.69	1800	.090	
	FCX6000A	59,000	---	10.60	---	---	9.70	6082	.69	1750	TXV	

# = Installer must change pin to size indicated. PIN = Refrigerant orifice PIN size. TD1 = AMA001TDA Indoor Blower Time Delay Kit, required to make SEER indicated. ST9120, FCP, FCX, and EF fan controls satisfy TD1 requirements. TXV = Thermostatic Expansion Valve, use TXV153 (AMF153KA) on 1 1/2 to 3 tons, use TXV335 (AMF335KA) on 3 1/2 to 5 tons. For Electric Furnace (EF Series) ratings: EF08B1500A = EPA24B15A+TD1, EF12F1900A = EPA36F19A+TD1, EF16J2200A = EPA48J22A+TD1, EF20N2600A = EPA60N26A+TD1.

Accessory	Description	Used On
AMF153TKA	Expansion Valve Kit (Use with New Coils)	1 1/2 - 3 Ton
AMF355TKA	Expansion Valve Kit (Use with New Coils)	3 1/2 - 5 Ton
AMA001TDA	Indoor Blower Time Delay	All Models
24370800 *	Compressor Anti-short cycle 24 Volt 3 Min. Time Delay	All Models
1070822*	Compressor Anti-short cycle 24 Volt 5 Min. Time Delay	All Models
1148671 *	Low Ambient Kit (Fan Cycling Switch)	All Models
1053477 *	Compressor Crankcase Heater Solid State "Stick On" Type	All Models
1148113 *	Compressor Crankcase Heater "Wrap-around" Type	All Models
1060833*	Compressor Sound Jacket	3 Ton
1060834 *	Compressor Sound Jacket	4 and 5 Ton

\* Order from Service Parts

### EXTENDED REFRIGERANT LINE CORRECTION FACTORS

Varying Line Length in Feet ( m ) vs. Total Capacity Multiplier					
25 ( 8 )	50 ( 15 )	75 ( 23 )	100 ( 30 )	125 ( 38 )	150 ( 46 )
1.00	.99	.98	.96	.94	.92

#### REFRIGERANT CHARGE DATA

All models are factory charged with R-22 for outdoor unit, 25' ( 8m ) of refrigerant line and matching indoor section.  
 Refrigerant charge correction per foot ( 305mm ) of line:  
 1/4" O.D. = .25 oz.; 5/16" O.D. = .45 oz.; 3/8" O.D. = .60 oz.;  
 1/2" O.D. = 1.2 oz.

### VOLTAGE CORRECTION FACTORS

Volts	Capacity	Watts
208	.98	.99

### INDOOR AIRFLOW CORRECTION TABLE

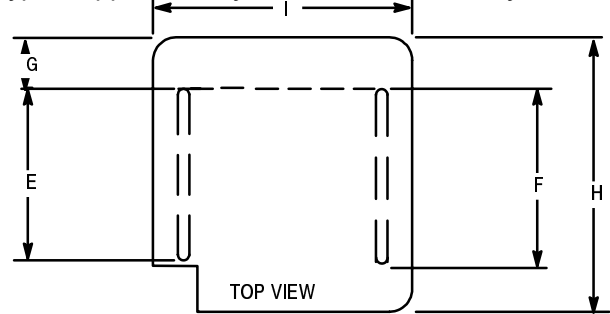
% Rated Air	90	95	100	105	110
Total Cap. Mult.	.98	.99	1.00	1.01	1.03
Sens Cap. Mult.	.95	.98	1.00	1.03	1.05

Model	A	B	C	D	E	F	G	H	I
CA5518	24	11-1/4	17-1/2	4	12-1/2	16-1/2	4-1/2	23-1/2	23-1/2
CA5524	24	11-1/4							
CA5530	24	11-1/4							
CA5536	30	17-1/4							
CA5542	26	10-3/4							
CA5548	34	18-3/4	22	4	17-5/8	18-3/4	5-1/2	30	30
CA5560	36	20-3/4							

### INDOOR TEMPERATURE CORRECTION TABLE (Based on 95°F Ambient)

Indoor D.B. °F (°C)	Correction Factor	Entering Indoor Wet Bulb °F (°C)						
		59 (15)	61 (16)	63 (17)	65 (18)	67 (19)	69 (20)	71 (21)
70 (21)	Total Cap. Mult.	<b>.90</b>	.93	.96	.99	1.02	-	-
	Sens Cap. Mult.	<b>.86</b>	.85	.82	.77	.70	-	-
75 (24)	Total Cap. Mult.	.89	.92	<b>.95</b>	.98	1.01	1.04	-
	Sens Cap. Mult.	1.04	1.03	<b>1.00</b>	.95	.88	.78	-
80 (26)	Total Cap. Mult.	.88	.91	.94	.97	<b>1.00</b>	1.03	1.06
	Sens Cap. Mult.	1.18	1.17	1.14	1.08	<b>1.00</b>	.89	.73
85 (29)	Total Cap. Mult.	-	.90	.93	.96	.99	1.02	<b>1.05</b>
	Sens Cap. Mult.	-	1.29	1.26	1.20	1.11	.98	<b>.81</b>

Bold Type = approximately 50% Relative Humidity



International Comfort Products Corporation (USA)  
 651 Heil-Quaker Ave.  
 Lewisburg, Tennessee 37091

RESIDENTIAL AND COMMERCIAL SYSTEMS • SPLIT SYSTEMS • PACKAGED AIR CONDITIONERS • COMBINATION GAS / ELECTRIC UNITS • HEAT PUMPS • AIR HANDLERS • MANUFACTURED HOME AIR CONDITIONERS • GAS, OIL AND ELECTRIC FURNACES

PART NO. 421 11 1102 08 (3-99)