

* OEM SPECIFICATIONS GUIDE



RIELLO RESIDENTIAL OIL BURNERS OEM Specifications Guide



WARNING

Riello Burners should only be installed by qualified, certified installers.

COMBUSTION MUST BE VERIFIED after the burner has been installed and set.

Improper settings can create:

HAZARDOUS CONDITIONS causing SMOKE, CARBON MONOXIDE or FIRE.

The Data contained in this Guide is based upon the appliance manufacturer's specification, and is the results of testing by the manufacturer and/or RIELLO.

This guide is not intended to supersede the appliance manufacturer's instructions. It is important to reference the manufacturer's instructions first, as appliances may have been upgraded and specifications changed subsequent to publication of this guide.

To obtain the best performance it is important to install the correct burner model and Air Tube combination, use only the specified nozzle, and set the burner according to the specification listed for each appliance model.

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GEMINOX

Appliance Model	Burner Model	Nozzle	Pump PSI	Input GPH	Air Damper Setting	
					MAIN	SECONDARY
FCX 22	RDB2.2R T1	0.55 X 60° A	185	0.62	B	1.50
		0.55 X 60° W*	180		B	1.50
FCX 30	RDB2.2R T3	0.70 X 60° A	185	0.82	C	3.25
		0.70 X 60° W*	180		C	3.25

* Alternative nozzle

QHT INC.

Appliance Model	Burner Model	Nozzle	Pump PSI	Input GPH	Air Damper Setting	
					MAIN	SECONDARY
PT 90	RDB2.2R T1	0.50 X 60° W	175	0.56	B	2.25
PT 90	RDB2.2R T3	0.60 X 60° W*	175	0.70	None	2.50
PT 120	RDB2.2R T3	0.65 X 60° W	175	0.75	None	2.75
PT 120	RDB2.2R T3	0.75 X 60° W*	175	0.85	None	4.25

* Alternative nozzle

ARCOAIRE / HEIL / KEEPRITE / TEMPSTAR

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
NOMF106D12	F3	SBT	3 9/16"	.40 X 70° A	160	0.50	0	3
NOMF106D12	F3	SBT	3 9/16"	.50 X 70° W	170	0.65	0	3.5
NOMF106D12	F3	SBT	3 9/16"	.65 X 70° W	135	0.75	0	4
NOMF156E19	F5	SBT	3 9/16"	.75 X 70° B	130	0.85	0	3
NOMF156E19	F5	SBT	3 9/16"	.85 X 70° W	140	1.00	0	3.5
NOMF156E19	F5	SBT	3 9/16"	1.00 X 70° W	125	1.10	0	4
OLR105A12C	F3	SBT	5 3/16"	.50 X 60° A	156	0.62	0	3
OLR105A12C	F3	SBT	5 3/16"	.60 X 60° A	156	0.75	0	4
OLR105A12C	BF3	SBT	5 3/16"	.50 X 60° W	156	0.62	0	6
OLR105A12C	BF3	SBT	5 3/16"	.60 X 60° W	145	0.72	0	7.5
OLR160B20C	F5	LBT	6 5/8"	.75 X 70° B	130	0.85	1	2
OLR160B20C	F5	LBT	6 5/8"	.85 X 70° B	130	0.97	1	2.5
OLR160B20C	F5	LBT	6 5/8"	1.00 X 70° B	130	1.14	1	3
OLR160B20C	BF5	LBT	6 5/8"	.75 X 70° B	130	0.85	1	3
OLR160B20C	BF5	LBT	6 5/8"	.85 X 70° B	130	0.97	1	4
OLR160B20C	BF5	LBT	6 5/8"	1.00 X 70° B	130	1.14	2	4
OLR182A16C	F5	SBT	5 1/4"	.85 X 60° B	140	1.00	2.5	2.5
OLR182A16C	F5	SBT	5 1/4"	.85 X 60° W	170	1.10	3	2.8
OLR182A16C	F5	SBT	5 1/4"	1.00 X 60° W	145	1.20	6	6
OLR182A16C	F5	SBT	5 1/4"	1.10 X 60° W	140	1.30	3.5	3.3
OLF105A12C	F3	SBT	5 3/16"	.50 X 60° A	156	0.62	0	3
OLF105A12C	F3	SBT	5 3/16"	.60 X 60° A	156	0.75	0	4
OLF105A12C	BF3	SBT	5 3/16"	.50 X 60° W	156	0.62	0	6
OLF105A12C	BF3	SBT	5 3/16"	.60 X 60° W	145	0.72	0	7.5
OLF14012C	F5	SBT	5 1/4"	.60 X 60° W	155	0.75	N/A	N/A
OLF14012C	F5	SBT	5 1/4"	.75 X 70° W	130	0.85	0	3
OLF14012C	F5	SBT	5 1/4"	.85 X 60° W	140	1.00	0	4



ARCOAIRE / HEIL / KEEPRITE / TEMPSTAR

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
OUF105A12C	F3	SBT	5 3/16"	.50 X 60° A	156	0.62	0	3
OUF105A12C	F3	LBT	5 3/16"	.60 X 60° A	156	0.75	0	4
OUF160B18C	F5	LBT	6 5/8"	.75 X 70° B	130	0.85	0	2.5
OUF160B18C	F5	LBT	6 5/8"	.85 X 70° B	130	0.97	0	2.8
OUF160B18C	F5	LBT	6 5/8"	1.00 X 70° B	130	1.14	0	3.9
OTF210	F5	SBT	3 9/16"	1.00 X 70° W	145	1.20	0	3
OTF210	F5	SBT	3 9/16"	1.10 X 70° W	150	1.35	1	3.3
OTF210	F5	SBT	3 9/16"	1.25 X 70° W	145	1.50	4	4
OLR350	F10	SBT	3 9/16"	1.50 X 70° W	135	1.75	2	2.4
OLR350	F10	SBT	3 9/16"	1.75 X 60° B	135	2.00	2	3.2
OLR350	F10	SBT	3 9/16"	2.00 X 60° B	155	2.48	2	3.8
OLR350	F10	SBT	3 9/16"	2.25 X 60° B	125	2.50	4	3.6
ODF	F3	SBT	5 3/16"	.50 X 60° A	156	0.63	0	3
ODF	F3	SBT	5 3/16"	.60 X 60° A	156	0.72	0	4
ODF	BF3	SBT	5 3/16"	.50 X 60° W	156	0.63	0	6
ODF	BF3	SBT	5 3/16"	.60 X 60° W	145	0.72	0	7.5
OCF105A12C	F3	SBT	5 3/16"	.50 X 60° A	156	0.63	0	3
OCF105A12C	F3	SBT	5 3/16"	.60 X 60° A	156	0.72	0	4
OCF105A12C	BF3	SBT	5 3/16"	.50 X 60° W	156	0.63	6	6
OCF105A12C	BF3	SBT	5 3/16"	.60 X 60° W	145	0.72	0	7.5

ARMSTRONG

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
ULTRA 80 / 57	F3	SBT	5 1/2"	.50 X 80° A	135	0.58	2	2
ULTRA 80 / 84	F3	SBT	5 1/2"	.65 X 80° B	140	0.75	2	3
ULTRA 80 / 95	F3	SBT	5 1/2"	.75 X 80° B	140	0.88	2	3.5
ULTRA 80 / 112	F5	SBT	5 1/2"	.85 X 80° B	140	1.00	2	2.5
ULTRA 80 / 120	F5	SBT	5 1/2"	1.00 X 80° B	140	1.18	2	3

ARMSTRONG

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
44299-001	F3	SBT	5 1/8"	.50 X 80° A	135	0.58	2	2
44299-002	F3	SBT	5 1/8"	.65 X 80° B	140	0.76	2	3
44299-003	F3	SBT	5 1/8"	.85 X 80° A	135	0.98	2	2
44299-004	F3	SBT	5 1/8"	.45 X 80° B	140	0.53	2	3
44721-002	F3	SBT	5 1/8"	.65 X 80° B	140	0.76	2	3
44722-002	F5	SBT	5 1/8"	.85 X 80° B	140	1.00	2	2.5
44498-002	F5	SBT	5 1/8"	.85 X 80° B	140	1.00	2	2.5

AXEMAN-ANDERSON

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
PVT105B	F3	SBT	1 3/4"	.60 X 70° B	160	0.75	1.5	3.4
PVT119B	F3	SBT	1 3/4"	.65 X 70° B	160	0.85	2.	3.6
PVT119H	F3	SBT	1 3/4"	.65 X 70° B	160	0.85	2	3.6
PVT140H	F5	SBT	1 3/4"	.85 X 70° A	160	1.10	2	2.6
PVT154H	F5	SBT	1 3/4"	.85 X 70° A	160	1.10	2.2	2.7
PVT175H	F5	SBT	1 3/4"	1.00 X 70° B	160	1.25	3	3.2
PVT189H	F5	SBT	1 3/4"	1.10 X 80° A	160	1.39	3.7	3.6
PVT210H	F5	SBT	1 3/4"	1.25 X 70° B	150	1.50	4	4.3
74NPOU	F5	SBT	1 1/4"	.65 X 70° B	160	0.82	1.2	2.1
74NP0	F5	SBT	1 1/4"	.85 X 70° A	160	1.10	2.2	2.7
87NPOU	F5	SBT	1 1/4"	.85 X 70° A	160	1.10	2.2	2.7
87NP0	F5	SBT	1 1/4"	1.00 X 70° B	160	1.25	3	3.2
108NPOU	F5	SBT	1 1/4"	1.00 X 70° B	160	1.26	3	3.2
108NP0	F5	SBT	1 1/4"	1.25 X 80° A	150	1.53	4	4.3
WL119	F3	SBT	2 1/8"	.65 X 70° B	160	0.85	2	3.6
WL140	F5	SBT	2 1/8"	.85 X 70° A	140	1.00	2	2.6
WL165	F5	SBT	2 1/8"	1.00 X 70° B	140	1.18	2.5	2.9
WL182	F5	SBT	2 1/8"	1.10 X 70° B	140	1.30	3.5	3.5
OL91	F3	SBT	1 1/4"	.60 X 70° B	140	0.70	1	3.1



AXEMAN-ANDERSON

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
OL105	F3	SBT	1 1/4"	.65 X 70° B	140	0.75	1.5	3.4
OL119	F3	SBT	1 1/4"	.65 X 70° B	160	0.85	2	3.6
DD3-21 3	F3	SBT	1 9/16"	.50 X 80° W	145	0.60	.3	3.4
DD3-28 4	F3	SBT	1 9/16"	.65 X 60° W	150	0.80	2	4.2
DD4-42 5	F5	SBT	2 9/16"	1.00 X 60° W	145	1.20	2	3
DD4-50 6	F5	SBT	2 9/16"	1.10 X 60° W	160	1.40	3.5	3.8
DD4-58 7	F10	SBT	2 9/16"	1.25 X 60° B	165	1.60	1	3
DD4-66 8	F10	SBT	2 9/16"	1.50 X 60° B	145	1.80	2	3.1

BOCK WATER HEATER SERIES

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
HMT 32E	F3	SBT	5 3/8"	.60 X 60° B	160	0.75	1	3.6
HMT 52	F5	SBT	5 3/8"	.90 X 60° B	160	1.10	2	3.6
33E	F3	SBT	5 3/8"	.60 X 60° B	160	0.75	1	3.6
40E	F3	SBT	5 3/8"	.75 X 60° B	150	0.90	3	3.8
50ES	F5	SBT	5 3/8"	.90 X 60° B	150	1.10	2	3.6
71E	F5	SBT	5 3/8"	1.00 X 60° B	155	1.25	2.5	4
73E	F10	SBT	5 3/8"	1.50 X 60° B	150	1.83	2	2.8
120E	F5	SBT	5 3/8"	.90 X 60° B	160	1.10	2	3.6

BOYERTOWN

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
CF / LB / HB 85	F3	SBT	5 3/4"	.65 X 60° W	160	0.80	.5	4.5
CF / LB / HB 115	F5	SBT	5 3/4"	.85 X 60° W	160	1.10	2	3.25
CF / LB / HB 145	F5	SBT	5 3/4"	1.00 X 60° W	160	1.26	3	3.75
CF / LB / HB 160	F5	SBT	5 3/4"	1.10 X 60° W	160	1.40	3	6
REL / REH 600	F3	SBT	5 1/4"	.50 X 60° A	150	0.65	3	2.7
REL / REH 750	F3	SBT	5 1/4"	.60 X 60° A	145	0.75	3	4
REL / REH 850	F3	SBT	5 1/4"	.65 X 60° A	150	0.78	3	4

BOYERTOWN

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
REL / REH 1000	F5	LBT	7 1/2"	.85 X 80° B	145	1.00	4	2.8
REL / REH 1250	F5	LBT	7 1/2"	1.00 X 80° B	150	1.22	4	3.6
SL 375	F5	SBT	2 1/4"	.65 X 80° B	150	0.78	.5	2.5
SLD 375	BF5	SBT	2 1/4"	.65 X 80° B	150	0.78	.5	3.25
SL 4100	F5	SBT	2 1/4"	.85 X 80° B	150	1.04	.5	3.25
SLD 4100	BF5	SBT	2 1/4"	.85 X 80° B	150	1.04	1	4.75
SL 5125	F5	SBT	2 1/4"	1.00 X 80° B	150	1.23	4	3
SLD 5125	BF5	SBT	2 1/4"	1.00 X 80° B	150	1.23	4	4.75
SL 6150	F5	SBT	2 1/4"	1.25 X 80° B	150	1.53	4	5.75
5200	F10	SBT	2 1/4"	1.75 X 80° B	150	2.14	0	5.
5175	F10	SBT	2 1/4"	1.50 X 70° B	150	1.83	0	3.6

BRADFORD WHITE / AREO

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
CF 32	F3	SBT	5 3/8"	.55 X 60° W	140	0.65	0	2.25
CF 32	F3	SBT	5 3/8"	.60 X 45° B	155	0.75	1	3
CF 38	F10	LBT	6 3/4"	1.50 X 45° B	135	1.75	2	3
CF 38	F10	LBT	6 3/4"	1.65 X 45° B	150	2.00	3	3.2
CF 38	F10	LBT	6 3/4"	1.75 X 45° B	165	2.25	3	4.6
CF 38	F10	LBT	6 3/4"	2.00 X 45° B	155	2.50	3	5.75
CF 50	F3	LBT	6 3/4"	.60 X 45° AB	155	0.75	1	3
CF 50	F3	LBT	6 3/4"	.65 X 45° B	170	0.85	2	3.5
CF 70	F5	LBT	6 3/4"	.65 X 45° B	170	0.85	2	3.25



BRADFORD WHITE / AREO

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
CF 80	F15	LBT	6 3/4"	3.00 X 45° AB	135	3.50	1.5	3
CF 80	F15	LBT	6 3/4"	3.50 X 45° S	130	4.00	3	4
CF 80	F15	LBT	6 3/4"	3.75 X 80° B	145	4.50	3	5.25
CF 80	F15	LBT	6 3/4"	4.00 X 60° SS	155	5.00	4	5.5
CF100	F15	LBT	7 3/4"	2.00 X 45° W	155	2.50	1	2
CF100	F15	LBT	7 3/4"	2.50 X 45° W	144	3.00	2.6	2
RF 30	F3	LBT	6 3/4"	.65 X 60° B	170	0.85	2	3
RF 50	F5	LBT	7 1/2"	1.00 X 60° B	155	1.25	2	2.5
RF 50	F5	LBT	7 1/2"	1.10 X 60° B	150	1.35	3	3
RF 70	F5	LBT	8 3/4"	1.10 X 60° B	150	1.35	2	3.25

BROCK

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
BK 233 D/V	BF3	SBT	5 3/16"	.50 X 60° W	145	0.60	0	6
BK 231	F3	SBT	5 3/16"	.50 X 60° A	156	0.62	0	3
BK 227 D/V	BF5	8 7/8"	6 5/8"	.75 X 70° B	130	0.85	0	4.75
BK 225	F5	8 7/8"	6 5/8"	.75 X 70° B	130	0.85	0	3.9
CCC-A-006	F3	SBT	5 11/16"	.40 X 60° B	155	0.50	0	1.5
CCC-A-007	F3	SBT	5 11/16"	.55 X 60° B	140	0.65	1	2
CCC-A-008	F3	SBT	5 11/16"	.60 X 60° B	155	0.75	2	2.3
CCC-A-009	F3	SBT	5 11/16"	.70 X 60° B	155	0.87	3	2.5
IB-32 Round	F3	SBT	5 1/2"	.65 X 70° A	170	0.84	0	3.5
IB-32 Octagon	F3	SBT	5 1/2"	.65 X 70° A	170	0.84	0	3.5
MBPI-A-001	F3	SBT	5 11/16"	.40 X 60° B	160	0.50	0	1.5
MBPI-A-002	F3	SBT	5 11/16"	.50 X 60° B	145	0.60	0	1.8
MBPI-A-003	F3	SBT	5 11/16"	.60 X 60° B	135	0.70	1	2.25

BROCK

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
MBPI-A-004	F3	SBT	5 11/16"	.65 X 60° B	150	0.80	3	2.5
MBPI-A-005	F3	SBT	5 11/16"	.75 X 60° B	145	0.90	3	3

BUDERUS

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
G 105-21	F3	SBT	1 9/16"	.50 X 80° W	145	0.60	.5	3.4
G 105-28	F3	SBT	1 9/16"	.65 X 60° B	150	0.80	2	4.2
G 115 SERIES								
*G 115-21	F3	LBT	6"	0.50 X 70°A/W	160	0.60	0	3.5
*G 115-21	BF3	LBT	6"	0.50 X 70°A/w	160	0.60	0	4.5
*G 115-28	F5	LBT	6"	0.60 X 60°A/B	185	0.80	0	2
*G 115-28	BF3	LBT	6"	0.60 X 60°A/B	185	0.80	3	5.25
*G 115-34	F5	LBT	10"	0.70 X 60°A/B	205	1.00	2	2.5
*G 115-34	BF5	LBT	10"	0.75 X 60°A/B	185	1.00	0	5.75
G 115 SERIES UPFIRED								
*G 115-WS/3	F3	LBT	6"	0.55 X 60°A/B	185	0.75	2	3.5
*G 115-WS/4	F5	LBT	6"	0.65 X 60°A/B	190	0.90	1	2.1
*G 115-WS/5	F5	LBT	10"	0.80 X 60°A/B	205	1.15	2	3.1
G 205-34	F5	SBT	2 9/16"	.85 X 60° W	140	1.00	1	2.8
G 205-42	F5	SBT	2 9/16"	1.00 X 60° W	145	1.20	2	3.3
G 205-50	F5	SBT	2 9/16"	1.10 X 60° W	160	1.40	3.5	3.8
G 205-58	F10	SBT	2 9/16"	1.25 X 60° B	165	1.60	1	3
G 205-66	F10	SBT	2 9/16"	1.50 X 60° B	145	1.80	2	3.1
G 215-3	F5	SBT	3 3/4"	.85 X 70° A	165	1.10	1	3.1
G 215-3	BF5	SBT	3 3/4"	.85 X 70° A	165	1.10	1	4.8
G 215-4	F5	SBT	3 3/4"	1.10 X 60° W	160	1.40	4	3.25
G 215-4	BF5	SBT	3 3/4"	1.10 X 60° W	160	1.40	4	5
G 215-5	F10	SBT	3 3/4"	1.35 X 60° B	160	1.70	2	2.8
* G 215-6	F10	SBT	3 3/4"	1.75 X 60° B	150	2.14	3	3.2
* G 215-7	F10	SBT	3 3/4"	2.00 X 60° B	155	2.50	3	4.5



BUDERUS

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
G 315-5	F15	SBT	5 1/8"	2.50 X 60° W	170	3.20	1	2.4
G 315-6	F15	SBT	5 1/8"	3.25 X 60° B	165	4.10	2	3.5
G 315-7	F15	SBT	5 1/8"	4.00 X 60° B	160	5.05	4	5
G 315-8	F20	SBT	5 1/8"	4.50 X 60° B	175	5.95	3	5
G 315-9	F20	SBT	5 1/8"	5.00 x 60° B	185	6.80	4	7

* For replacement only use OEM burners

BURNHAM

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
LE (0.60)	F3	SBT	2"	.50 X 60° A	160	0.60	.5	2.8
LE (1.00)	F5	SBT	2"	.85 X 60° A	150	1.02	1	3
LE (1.25)	F5	SBT	2"	1.00 X 60° A	170	1.20	3	3.5
LEDV (0.60)	F3	SBT	2"	.50 X 60° A	145	0.60	0	3.4
LEDV (1.00)	F5	SBT	2"	.85 X 60° A	145	1.02	1	2.8
LEVD (1.25)	F5	SBT	2"	1.00 X 60° A	145	1.32	3	3.4
LEDVS (0.60)	BF3	SBT	2"	.50 X 60° A	185	0.60	0	4
LEDVS (1.00)	BF5	SBT	2"	.85 X 60° A	150	1.02	1	5
LEDVS (1.25)	BF5	SBT	2"	1.00 X 60° A	180	1.34	3	6.5
* MPO-84	F3	VSBT	2 1/4"	.50 X 70° W	145	0.60	1	4
MPO-147	F5	LBT	10"	.85 X 60° B	145	1.05	1	2.75
MPO-189	F5	SBT	3 1/2"	1.10 X 60° B	150	1.35	3	5.5
* MPO-231	F5	VSBT	3 1/2"	1.35 X 60° B	145	1.65	4	3.5
OPUS SA 145	F5	VSBT	2 1/2"	.85 X 60° B	145	1.02	2	3
OPUS SA 19.5	F5	VSBT	2 1/2"	1.25 X 80° B	145	1.50	3	4
V-73	F3	SBT	1 11/16"	.50 X 60° W	145	0.60	.5	3
V-73	F5	SBT	1 11/16"	.60 X 60° W	145	0.72	.5	2.1
V-73	F5	SBT	1 11/16"	.85 X 60° W	145	1.05	2	2.8

BURNHAM

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
V-74	F5	SBT	1 11/16"	.85 X 60° W	145	1.05	2	2.8
V-74	F5	SBT	1 11/16"	1.10 X 60° W	145	1.32	3.5	3.6
V-75	F5	SBT	1 11/16"	1.10 X 60° W	145	1.32	3.5	3.4
V-75	F10	SBT	1 11/16"	1.35 X 60° W	145	1.65	2	2.7
V-75	F10	ST	1 15/16"	1.35 X 60° W	145	1.65	2	2.7
V-76	F10	SBT	1 11/16"	1.35 X 60° W	145	1.65	2	2.6
V-76	F10	SBT	1 11/16"	1.50 X 60° W	145	1.80	2.5	3
V-76	F10	ST	1 15/16"	1.35 X 60° W	145	1.65	2	2.6
V-77	F10	SBT	1 11/16"	1.50 X 60° B	145	1.80	1.5	3.5
V-77	F10	SBT	1 11/16"	1.75 X 60° B	145	2.10	2	3.5
V-78	F10	SBT	1 11/16"	1.75 X 60° B	145	2.10	2	3.2
V-78	F10	SBT	1 11/16"	2.00 X 60° B	145	2.40	2.5	4.2
V-78	F10	ST	1 15/16"	2.00 X 60° B	145	2.40	2.5	4.2
V-8H3	F5	VSBT	1 1/2"	.90 X 80° B	145	1.05	1	2.1
V-8H4	F5	VSBT	1 1/2"	1.20 X 80° B	145	1.35	3	3
V-8H5	F5	VSBT	1 1/2"	1.35 X 70° B	145	1.65	4	4.5
* V-8H6	F10	SBT	1 1/2"	1.65 X 60° B	145	1.90	2	3
V-82 W	F3	VSBT	1 1/2"	.50 X 80° A	145	0.60	0	3.4
V-82 W	F3	VSBT	1 1/2"	.50 X 80° A	145	0.60	0	3.4
V-82	F3	VSBT	1 1/2"	.50 X 80° A	145	0.60	0	3.4
V-83 S	F5	VSBT	1 1/2"	.70 X 80° B	145	0.84	1	2.3
V-83 WM	F5	VSBT	1 1/2"	.70 X 80° B	145	0.84	1	3.5
V-83	F5	VSBT	1 1/2"	.90 X 80° B	145	1.08	1	3.5
V-84 S	F5	VSBT	1 1/2"	.90 X 80° B	145	1.08	1	3.8
V-84 WM	F5	VSBT	1 1/2"	.90 X 80° B	145	1.08	1	3.8



BURNHAM

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
V-84	F5	VSBT	1 1/2"	1.20 X 80° B	145	1.44	3	6
V-85 S	F5	VSBT	1 1/2"	1.20 X 80° B	145	1.44	2	5.5
V-85 WM	F5	VSBT	1 1/2"	1.20 X 80° B	145	1.44	2	5.5
V-85	F5	VSBT	1 1/2"	1.35 X 80° B	145	1.62	4	6
V-86 S	F10	LBT	10"	1.50 X 45° B	145	1.81	3	3.2
V-86 WM	F10	LBT	10"	1.50 X 45° B	145	1.81	3	3.2
V-86	F10	LBT	10"	1.75 X 45° P	145	2.10	4	3.8
V-87	F10	LBT	10"	2.00 X 45° B	145	2.40	4	4
V-88	F10	LBT	10"	2.00 X 60° B	175	2.65	5	4
V-89	F10	LBT	10"	2.25 X 60° P	145	2.70	5	7

* For replacement only use OEM burners

CARRIER

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
58 CLR-70,000	F3	SBT	3 9/16"	.40 X 70° A	155	0.50	0	3
58 CLR-91,000	F3	SBT	3 9/16"	.50 X 70° W	170	0.65	0	3.5
58 CLR-105,000	F3	SBT	3 9/16"	.65 X 70° W	135	0.75	0	4
58 CLR-120,000	F5	SBT	3 9/16"	.75 X 70° B	130	0.85	0	3
58 CLR-140,000	F5	SBT	3 9/16"	.85 X 70° W	140	1.00	0	3.5
58 CLR-155,000	F5	SBT	3 9/16"	1.00 X 70° W	120	1.10	0	4
58 CLR-70,000	F3	SBT	3 9/16"	.40 X 70° A	155	0.50	0	3
58 CLR-91,000	F3	SBT	3 9/16"	.50 X 70° W	170	0.65	0	3.5
58 CLR-105,000	F3	SBT	3 9/16"	.65 X 70° W	135	0.75	0	4
58 CLR-120,000	F5	SBT	3 9/16"	.75 X 70° B	130	0.85	0	3
58 CLR-140,000	F5	SBT	3 9/16"	.85 X 70° W	140	1.00	0	3.5
58 CLR-155,000	F5	SBT	3 9/16"	1.00 X 70° W	120	1.10	0	4
58 CMR-70,000	F3	SBT	3 9/16"	.40 X 70° A	155	0.50	0	3

CARRIER

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
58 CMR-91,000	F3	SBT	3 9/16"	.50 X 70° W	170	0.65	0	3.5
58 CMR-105,000	F3	SBT	3 9/16"	.65 X 70° W	135	0.75	0	4
58 CMR-119,000	F5	SBT	3 9/16"	.75 X 70° B	130	0.85	0	3
58 CMR-140,000	F5	SBT	3 9/16"	.85 X 70° W	140	1.00	0	3.5
58 CMR-154,000	F5	SBT	3 9/16"	1.00 X 70° W	120	1.10	0	4
OLF105A12C	F3	SBT	5 3/16"	.50 X 60° A	156	0.63	0	3
	F3	SBT	5 3/16"	.60 X 60° A	156	0.72	0	4
OLF140C12C	F3	SBT	5 1/4"	.60 X 60° W	155	0.72	0	4
	F3	SBT	5 1/4"	.75 X 60° W	130	0.85	0	3
	F3	SBT	5 1/4"	.85 X 60° W	140	1.00	0	4

CLARE

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
OLR105A12C	BF3	SBT	5 3/16"	.50 X 60° W	156	0.63	0	6
	BF3	SBT	5 3/16"	.60 X 60° W	145	0.72	0	7.5
OLR160B20C	F5	LBT	6 5/8"	.75 X 70° B	130	0.85	1	2
	F5	LBT	6 5/8"	.85 X 70° B	130	0.97	1	2.5
	F5	LBT	6 5/8"	1.00 X 70° B	130	1.14	1	3
	BF5	LBT	6 5/8"	.75 X 70° B	130	0.85	1	3
	BF5	LBT	6 5/8"	.85 X 70° B	130	0.97	1	4
	BF5	LBT	6 5/8"	1.00 X 70° B	130	1.14	2	4.5
OLR182A16C	F5	SBT	5 1/4"	.85 X 60° B	140	1.00	2.5	2.5
	F5	SBT	5 1/4"	.85 X 60° W	170	1.10	3	2.75
	F5	SBT	5 1/4"	1.00 X 60° W	145	1.20	2.5	3
	F5	SBT	5 1/4"	1.10 X 60° W	140	1.30	3.5	2.5
OLR350	F10	SBT	3 9/16"	1.50 X 70° W	135	1.75	2	2.4
	F10	SBT	3 9/16"	1.75 X 60° B	135	2.00	2	3.2
	F10	SBT	3 9/16"	2.00 X 60° B	155	2.25	2	3.8



CLARE

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
OLR350	F10	SBT	3 9/16"	2.25 X 60° B	125	2.50	4	3.6
ODH53F100LB-3MC OCF105A12C	F3	SBT	5 3/16"	.50 X 60° A	156	0.63	0	3
	F3	SBT	5 3/16"	.60 X 60° A	156	0.75	0	4
	BF3	SBT	5 3/16"	.50 X 60° W	156	0.63	0	6
	BF3	SBT	5 3/16"	.60 X 60° W	145	0.72	0	7.5
HM185	F10	SBT	3 1/8"	1.25 X 70° B	145	1.50	0	3.4
HM212	F10	SBT	3 1/8"	1.50 X 45° B	135	1.75	1	4.5
HM240	F10	SBT	3 1/8"	1.65 X 45° B	145	2.00	2	3.4
HM266	F10	SBT	3 1/8"	1.75 X 45° B	165	2.25	3	5.5
HM293	F10	SBT	3 1/8"	2.25 X 45° B	125	2.50	4	4.5
HML115 / HMT12	F5	SBT	3 9/16"	.85 X 70° B	140	1.00	0	2.5
HML135 / HMT14	F5	SBT	3 9/16"	1.00 X 70° B	145	1.20	1	2.8
HML155 / HMT16	F5	SBT	3 9/16"	1.10 X 70° B	150	1.35	2	3.5
HML175 / HMT18	F5	SBT	3 9/16"	1.25 X 70° B	145	1.50	3	4.5
HMR-080	F3	SBT	3 9/16"	.60 X 80° A	120	0.65	0	3.8
HMR-092	F3	SBT	3 9/16"	.65 X 70° B	135	0.75	0	4.1
HMR-103	F3	SBT	3 9/16"	.75 X 70° B	130	0.85	0	6.1

CROWN BOILER

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
BDS-80	F5	SBT	2 1/4"	.50 X 70° W	145	0.60	.5	2
BDS-92	F5	SBT	2 1/4"	.65 X 70° W	145	0.78	2	2.2
BDS-111	F5	SBT	2 1/4"	.75 X 70° W	145	0.90	1.5	2.6
BDS-119	F5	SBT	2 1/4"	.85 X 70° W	145	1.01	2	3.2
BDS-147	F5	SBT	2 1/4"	1.00 X 70° W	145	1.20	2.5	3.5
BDS-150	F5	SBT	2 1/4"	1.00 X 70° W	145	1.20	2.5	3.8
BDS-178	F5	SBT	2 1/4"	1.25 X 70° W	145	1.50	4	7
BDS-209	F10	SBT	2 1/4"	1.50 X 70° W	145	1.80	2	3.8
BDS-234	F10	SBT	2 1/4"	1.75 X 70° W	145	2.10	2.5	4.1

CROWN BOILER

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
CT-3	F5	SBT	2 1/4"	.60 X 80° AR	150	0.73	0	2.8
CT-35	F5	SBT	2 1/4"	.85 X 70° B	150	1.00	0	3.3
CT-4	F5	SBT	2 1/4"	.85 X 70° B	150	1.00	1	3.2
CT-45	F5	SBT	2 1/4"	1.10 X 70° A	150	1.35	3	4.5
CT-5	F5	SBT	2 1/4"	1.10 X 70° A	150	1.40	0	3.5
KSZ-075	F5	SBT	2 1/4"	.60 X 60° A	150	0.73	0	2.6
KSZ-100	F5	SBT	2 1/4"	.85 X 60° W	150	1.00	2	2.8
KSZ-125	F5	SBT	2 1/4"	1.00 X 60° A	150	1.20	4	4
KSZ-150	F10	SBT	2 1/4"	1.25 X 45° B	150	1.50	1	3
KSZ-175	F10	SBT	2 1/4"	1.35 X 45° B	150	1.65	1.5	3
KSZ-200	F10	SBT	2 1/4"	1.45 X 45° B	150	1.77	2	3.8
ODV-75	BF3	SBT	4 1/2"	.60 X 80° A	145	0.72	2.5	4.2
TWZ-075	F5	SBT	2 1/4"	.60 X 60° A	150	0.73	0	2.6
TWZ-100	F5	SBT	2 1/4"	.85 X 60° W	150	1.00	2	2.8
TWZ-125	F5	SBT	2 1/4"	1.00 X 60° A	150	1.20	4	4
TWZ-150	F10	SBT	2 1/4"	1.25 X 45° B	150	1.50	1	3
TWZ-175	F10	SBT	2 1/4"	1.35 X 45° B	150	1.65	1.5	3
TWZ-200	F10	SBT	2 1/4"	1.45 X 45° B	150	1.77	2	3.8

DE DIETRICH

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
GT 113	F3	LBT	7"	.55 X 60° B	140	0.65	0	3
GT 114	F3	LBT	7"	.75 X 60° B	120	0.80	2	4.4
GT 115	F5	LBT	7"	.85 X 60° B	140	1.00	2	3
GT 116	F5	LBT	7"	1.00 X 60° B	130	1.15	1	4
GT 123A	F3	LBT	7"	.55 X 60° A	133	0.65	1	2.5
GT 124A	F3	LBT	7"	.70 X 80° B	130	0.80	2	3
GT 125A	F5	LBT	7"	.85 X 60° B	138	1.00	1	2.8



DE DIETRICH

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
GT 126A	F5	LBT	7"	1.00 X 80° B	132	1.15	2	3
GT 214A	F5	LBT	7"	1.10 X 80° B	120	1.20	2	4.5
GT 215A	F5	LBT	7"	1.25 X 60° A	155	1.55	4	4
GT 216A	F10	LBT	7"	1.50 X 45° W	160	1.90	3	4
GT 217A	F10	LBT	7"	2.00 X 45° W	125	2.25	4	4.5
GT 218A	F10	LBT	7"	2.00 X 45° B	155	2.50	4	5
GT 113	BF3	LBT	7"	.55 X 60° B	140	0.65	0	4.2
GT 114	BF3	LBT	7"	.65 X 60° B	150	0.80	3	6
GT 115	BF5	LBT	7"	.85 X 60° B	140	1.00	1	5
GT 116	BF5	LBT	7"	1.0 X 60° B	130	1.15	3	5
GT 123A	BF3	LBT	7"	.55 X 60° A	133	0.65	0	4.5
GT 124A	BF3	LBT	7"	.70 X 80° B	130	0.80	3	6
GT 125A	BF5	LBT	7"	.85 X 60° W	138	1.00	2	4.1
GT 126A	BF5	LBT	7"	1.00 X 80° B	132	1.15	3	4.2
GT 214A	BF5	LBT	7"	1.10 X 80° B	120	1.20	2	6

DETTSON

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
OLB53R100LB-3MC OLR105A12C	F3	SBT	5 3/16"	.50 X 60° A	156	0.63	0	3
	F3	SBT	5 3/16"	.60 X 60° A	156	0.72	0	4
	BF3	SBT	5 3/16"	.50 X 60° W	156	0.63	0	6
	BF3	SBT	5 3/16"	.60 X 60° W	145	0.72	0	7.5
OHB64F200LB-5MC OUF160B18C	F5	LBT	6 5/8"	.75 X 70° B	130	0.85	0	2.5
	F5	LBT	6 5/8"	.85 X 70° B	130	0.97	0	2.8
	F5	LBT	6 5/8"	1.00 X 70° B	130	1.14	0	3.9
	BF5	LBT	6 5/8"	.75 X 70° B	130	0.85	0	3.8
	BF5	LBT	6 5/8"	.85 X 70° B	130	0.97	0	4
	BF5	LBT	6 5/8"	1.00 X 70° B	130	1.14	0	4.9

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
OLB64200LB OLR160B20C	F5	LBT	6 5/8"	.75 X 70° B	130	0.85	1	2
	F5	LBT	6 5/8"	.85 X 70° B	130	0.97	1	2.5
	F5	LBT	6 5/8"	1.00 X 70° B	130	1.14	1	3
	BF5	LBT	6 5/8"	.75 X 70° B	130	0.85	1	3
	BF5	LBT	6 5/8"	.85 X 70° B	130	0.97	1	4
	BF5	LBT	6 5/8"	1.00 X 70° B	130	1.14	2	4.5
OHB53F10 OLB-3MC OUF105A12C NOUF105A12D	F3	SBT	5 3/16"	.50 X 60° A	156	0.63	0	3
	F3	SBT	5 3/16"	.60 X 60° A	156	0.75	0	4
	BF3	SBT	5 3/16"	.50 X 60° W	156	0.63	0	6
	BF3	SBT	5 3/16"	.60 X 60° W	145	0.72	0	7.5
OLB53F100LB-3MC OLF105A12C NOLF105A12D	F3	SBT	5 3/16"	.60 X 60° A	156	0.75	0	3
	F3	SBT	5 3/16"	.50 X 60° W	156	0.63	0	4
	BF3	SBT	5 3/16"	.50 X 60° W	156	0.63	0	6
	BF3	SBT	5 3/16"	.60 X 60° W	145	0.72	0	7.5
ODH53F100LB-3MC OCF105A12C	F3	SBT	5 3/16"	.50 X 60° A	156	0.63	0	3
	F3	SBT	5 3/16"	.60 X 60° A	156	0.75	0	4
	BF3	SBT	5 3/16"	.50 X 60° W	156	0.63	0	6
	BF3	SBT	5 3/16"	.60 X 60° W	145	0.72	0	7.5
HMR-080 HMR-092 HMR-103	F3	SBT	3 9/16"	.60 X 60° B	120	0.65	0	3.8
	F3	SBT	3 9/16"	.65 X 60° B	135	0.75	0	4.1
	F3	SBT	3 9/16"	.75 X 60° B	130	0.85	0	6.1
HML115 / HMT12	F5	SBT	3 9/16"	.85 X 70° B	140	1.00	0	2.5
HML135 / HMT14	F5	SBT	3 9/16"	1.00 X 70° B	145	1.20	1	2.8
HML155 / HMT16	F5	SBT	3 9/16"	1.10 X 70° B	150	1.35	2	3.5
HML175 / HMT18	F5	SBT	3 9/16"	1.25 X 70° B	145	1.50	3	4.5
HM185	F10	SBT	3 1/8"	1.25 X 70° B	145	1.50	0	3.4
HM212	F10	SBT	3 1/8"	1.50 X 45° B	135	1.75	1	4.5



DETTSON

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
HM240	F10	SBT	3 1/8"	1.65 X 45° B	145	2.00	2	3.4
HM266	F10	SBT	3 1/8"	1.75 X 45° B	165	2.25	3	5.5
HM293	F10	SBT	3 1/8"	2.25 X 45° B	125	2.50	4	4.5

DUCANE

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
UHZB 55	F3	SBT	5 1/8"	.40 X 80° B	185	0.50	2	1.9
UHZB 55	F3	SBT	5 1/8"	.45 X 80° SS	130	0.50	1	1.75
UHZB 85	F3	SBT	5 1/8"	.65 X 80° W	147	0.78	3	2.25
UHZB 100	F3	SBT	5 1/8"	.75 X 45° B	175	0.99	2	4
UHZB 125	F5	LBT	6 5/8"	.85 X 45° B	160	1.07	2	2.25

DUNKIRK / ULTIMATE

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
3EW .65	F5	SBT	2 1/4"	.50 X 70° B	155	0.62	.5	.5
3EW .75	F5	SBT	2 1/4"	.65 X 70° B	150	0.75	2	2.2
3EW 1.00	F5	SBT	2 1/4"	.85 X 70° B	170	1.10	2	2.3
4EW .90	F5	SBT	2 1/4"	.75 X 70° B	160	0.90	1.5	2.6
4EW 1.25	F5	SBT	2 1/4"	1.00 X 70° B	170	1.30	2.5	3.8
4EW 1.50	F5	SBT	2 1/4"	1.25 X 70° B	175	1.65	4	7
5EW 1.20	F5	SBT	2 1/4"	1.00 X 70° B	150	1.22	2.5	3.5
5EW 1.75	F10	SBT	2 1/4"	1.50 X 70° B	155	1.86	2	3.8
5EW 2.00	F10	SBT	2 1/4"	1.75 X 70° B	155	2.17	2.5	4.1
DPFO 3	F5	SBT	4 5/8"	.75 X 60° W	150	0.91	3	5
DPFO 3T	F5	SBT	4 5/8"	.75 X 60° W	160	0.94	3	4.5
DPFO 3T	F5	SBT	4 5/8"	.85 X 60° W	170	1.10	2	3.1
DPFO 3T	F5	SBT	4 5/8"	.85 X 60° W	150	1.04	2	3.25
DPFO 4	F5	SBT	4 5/8"	1.10 X 60° W	150	1.34	3.5	4.5
DPFO 4T	F5	SBT	4 5/8"	1.20 X 60° A	150	1.46	4	4.5

DUNKIRK / ULTIMATE

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
DPFO 5	F5	SBT	4 5/8"	.60 X 60° W	155	0.75	.5	2.25
DPFO 5	F5	SBT	4 5/8"	.85 X 60° A	170	1.10	2	3
DPFO 5	F10	SBT	4 5/8"	1.35 X 60° W	160	1.70	1.5	3
DPFO 5T	F5	SBT	4 5/8"	.60 X 60° A	175	0.80	1	2.3
DPFO 5T	F5	SBT	4 5/8"	1.25 X 60° A	150	1.50	4	5.5
DPFO 5T	F10	SBT	4 5/8"	1.35 X 60° A	170	1.75	1.5	3.2
DPFO 6T	F5	SBT	4 5/8"	.75 X 60° W	175	0.95	1.5	2.8
DPFO 6T	F5	SBT	4 5/8"	1.20 X 60° W	170	1.45	3.5	5
DPFO 6T	F10	SBT	4 5/8"	1.75 X 60° W	170	2.10	2.5	4.5
DPFO 7	F5	SBT	4 5/8"	.85 X 60° W	150	1.00	2	3.2
DPFO 7	F10	SBT	4 5/8"	1.35 X 60° W	175	1.60	3	1.5
DPFO 7	F10	SBT	4 5/8"	2.00 X 60° W	160	2.35	4	3.5
DPFO 8T	F5	SBT	4 5/8"	1.00 X 60° W	175	1.25	2.5	4
DPFO 8T	F10	SBT	4 5/8"	1.50 X 45° W	175	1.90	2	3.4
DPFO 8T	F10	SBT	4 5/8"	2.25 X 45° W	175	2.75	5	6
DPFO 09	F5	SBT	4 5/8"	1.10 X 60° W	165	1.35	3.5	3.8
DPFO 09	F10	SBT	4 5/8"	1.65 X 60° W	165	2.00	2.5	3.4
DPFO 09	F10	SBT	4 5/8"	2.50 X 60° B	150	3.00	5	7.8
ESB 4125	F5	SBT	2 1/4"	1.10 X 60° W	150	1.35	3	4
ESB 4150	F5	SBT	2 1/4"	1.25 X 60° W	150	1.53	4	6
ESB 5200	F10	SBT	2 1/4"	1.75 X 80° W	150	2.14	0	5
PF0 3	F5	SBT	4 5/8"	.75 X 60° W	150	0.91	3	5
PF0 3T	F5	SBT	4 5/8"	.75 X 60° W	160	0.94	3	4.5
PF0 3T	F5	SBT	4 5/8"	.85 X 60° W	170	1.10	2	3.1
PF0 4	F5	SBT	4 5/8"	.85 X 60° W	150	1.04	2	3.25
PF0 4	F5	SBT	4 5/8"	1.10 X 60° W	150	1.34	3.5	4.5
PF0 4T	F5	SBT	4 5/8"	1.20 X 60° A	150	1.46	4	4.5
PF0 5	F5	SBT	4 5/8"	.60 X 60° W	155	0.75	.5	2.25
PF0 5	F5	SBT	4 5/8"	.85 X 60° A	170	1.10	2	3
PF0 5	F10	SBT	4 5/8"	1.35 X 60° W	160	1.70	1.5	3



DUNKIRK / ULTIMATE

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
PFO 5T	F5	SBT	4 5/8"	.60 X 60° A	175	0.80	1	2.3
PFO 5T	F5	SBT	4 5/8"	1.25 X 60° A	150	1.50	4	5.5
PFO 5T	F10	SBT	4 5/8"	1.35 X 60° A	170	1.75	1.5	3.2
PFO 6T	F5	SBT	4 5/8"	.75 X 60° W	175	0.95	1.5	2.8
PFO 6T	F5	SBT	4 5/8"	1.20 X 60° W	170	1.45	3.5	5
PFO 6T	F10	SBT	4 5/8"	1.75 X 60° W	170	2.10	2.5	4.5
PFO 7	F5	SBT	4 5/8"	.85 X 60° W	150	1.00	2	3.2
PFO 7	F10	SBT	4 5/8"	1.35 X 60° W	175	1.60	3	1.5
PFO 7	F10	SBT	4 5/8"	2.00 X 60° W	160	2.35	4	3.5
PFO 8T	F5	SBT	4 5/8"	1.00 X 60° W	175	1.25	2.5	4
PFO 8T	F10	SBT	4 5/8"	1.50 X 45° W	175	1.90	2	3.4
PFO 8T	F10	SBT	4 5/8"	2.25 X 45° W	175	2.75	5	6
PFO 09	F5	SBT	4 5/8"	1.10 X 60° W	165	1.35	3.5	3.8
PFO 09	F10	SBT	4 5/8"	1.65 X 60° W	165	2.00	2.5	3.4
PFO 09	F10	SBT	4 5/8"	2.50 X 60° B	150	3.00	5	7.8

DYNATHERM ~ PRODEX INC.

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
FP 24 Oil	F5	SBT	2 1/2"	.75 X 80° B	145	0.90	0	2.8
FP 24 Oil	F5	SBT	2 1/2"	.85 X 80° B	145	1.00	1	3
FP 24 Oil	F5	SBT	2 1/2"	1.10 X 80° B	145	1.32	3	3.25
FP 24 DV	BF5	SBT	2 1/2"	.75 X 70° B	145	0.90	0	3.5
FP 24 DV	BF5	SBT	2 1/2"	.85 X 80° B	145	1.00	1	4
FP 24 DV	BF5	SBT	2 1/2"	1.10 X 80° B	145	1.32	3	5.5
FP 48 Oil	F10	LBT	2 1/2"	1.50 X 30° B	145	1.80	2	3
FP 48 Oil	F10	LBT	2 1/2"	1.75 X 30° B	160	2.21	3	4
FP 48 Oil	F10	LBT	2 1/2"	2.00 X 30° B	155	2.48	4	5

ENERGY KINETICS

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
EK1 & EK2	BF5	LBT	2 1/2"	.75 X 60° B	130	0.85	2	4

ENERGY KINETICS

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
EK1 & EK2	BF5	LBT	2 1/2"	.75 X 60° B	130	0.85	2	4
EK1 & EK2	F5	SBT	2 1/2"	.75 X 60° B	130	0.85	2	2.6
EK-1	F5	SBT	2 3/8"	.65 x 60° B	130	0.74	1	2.3
EK-1	F5	SBT	2 3/8"	.75 x 60° B	130	0.85	1.5	2.5
EK-1	F5	SBT	2 3/8"	.85 X 60° B	136	1.00	2	2.8
EK-2	F5	SBT	2 3/8"	1.00 X 60° A	145	1.20	3	3.5
EK-2	F5	SBT	2 3/8"	1.25 X 60° A	125	1.40	3.5	5.5
EK-2	F5	SBT	2 3/8"	1.25 X 60° A	145	1.50	4	5
EK-2	F5	SBT	2 3/8"	1.25 X 60° A	160	1.60	4	5.5

ENTERPRISE FAWCETTE

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
M 101	F3	SBT	3 1/8"	.50 X 60°SS/W	146	0.60	.5	2.8
M 101	F3	SBT	3 1/8"	.60 X 80°AR/W	120	0.65	0.5	3.5
M 101	F3	SBT	3 1/8"	.65 X 80°AR/W	135	0.75	1.5	4
M 101	F3	SBT	3 1/8"	.75 X 80°AR/W	130	0.85	2	4.5
M 141	F5	SBT	3 1/8"	.85 X 60°SG/W	146	1.02	2.5	3.5
M 141	F5	SBT	3 1/8"	1.00 X 60°SS/W	146	1.20	3.5	3.5

FLEETLINE

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
F-9	F3	SBT	3 1/2"	.50 X 80° W	130	0.57	.5	2.7
F-10	F3	SBT	3 1/2"	.50 X 80° W	175	0.66	.5	3
F-11	F3	SBT	3 1/2"	.75 X 80° W	140	0.89	.3	4
F-12	F5	SBT	3 1/2"	.75 X 80° W	175	0.99	2	2.4
F-13	F5	SBT	3 1/2"	.85 X 80° W	160	1.08	2.2	2.7
F-18	F3	SBT	3 1/2"	.75 X 80° W	145	0.90		
F-19	F5	SBT	3 1/2"	.85 X 80° W	145	1.02	2	2.6



FLEETLINE

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
F-20	F5	SBT	3 1/2"	1.00 X 80° W	145	1.20	2.5	3.2
F-21	F5	SBT	3 1/2"	1.00 X 80° W	160	1.26	2.5	3.3
F-22	F5	SBT	3 1/2"	1.10 X 80° W	160	1.39	3.5	3.6
F-23	F5	SBT	3 1/2"	1.25 X 80° W	140	1.48	4	3.4
F-24	F10	SBT	3 1/2"	1.25 X 80° W	175	1.65	1.5	2.7
OFFY .85	F5	SBT	2 3/4"	.65 X 60° W	170	0.85	1	2.5
OFFY 1.00	F5	SBT	2 3/4"	.85 X 60° W	140	1.00	2	2.8
OFFY 1.25	F5	SBT	2 3/4"	1.00 X 60° W	155	1.25	2.5	3
OFFY 1.35	F5	SBT	2 3/4"	1.25 X 60° W	115	1.34	3	3.2
OFFY 1.50	F5	SBT	2 3/4"	1.25 X 60° W	145	1.50	3.50	3.5

GIANT HWT

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
OG 32	R35.3	FIXED	4 3/4"	.65 X 60° W	145	0.78	2	1
OG 32	BF3	FIXED	4 3/4"	.65 X 60° W	145	0.78	N/A	N/A
OG 50	R35.3	.04.OR	4 3/4"	.65 X 60° W	145	0.78	N/A	N/A
UG 30	R 35.3	.04.OR	FIXED	.55 X 60° W	160	0.69	0	2
UG 30	R 35.3	.04.OR	FIXED	.55 X 60° W	190	0.75	1	2
UG 30	R 35.3	.04.OR	FIXED	.65 X 60° W	185	0.88	2	1.5

GRIMBSY STOVE

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
OLF-089/117	F3	SBT	4 5/8"	.60 X 70° W*	150	0.73	3	3.4*
OLF-089/117	F3	SBT	4 5/8"	.65 X 70° W*	170	0.85	3	4*
OLF-089/117	F3	SBT	4 5/8"	.75 X 70° W*	160	0.95	3	4.3*
OLF-089/117	BF5	SBT	4 5/8"	.60 X 70° W*	150	0.73	.5	3.4*
OLF-089/117	BF5	SBT	4 5/8"	.65 X 70° W*	170	0.85	1	4*

GRIMBSY STOVE

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
OLF-089/117	BF5	SBT	4 5/8"	.85 X 70° W*	150	1.00	2	4.3*
OLG-058/069	F3	SBT	6 5/8"	.40 X 70° W*	160	0.50	3	2.3*
OLG-058/069	F3	SBT	6 5/8"	.50 X 70° W*	150	0.60	3	2.7*
OLG-058/086	F3	SBT	6 5/8"	.40 X 70° W*	160	0.50	3	2.3*
OLG-058/086	F3	SBT	6 5/8"	.50 X 70° W*	150	0.60	3	2.7*
OLG-058/086	F3	SBT	6 5/8"	.50 X 70° W*	165	0.65	3	3*
OLG-058/086	F3	SBT	6 5/8"	.60 X 70° W*	150	0.75	3	3.4*
OLG-075/086	F3	SBT	6 5/8"	.50 X 70° W*	170	0.65	3	3*
OLG-075/086	F3	SBT	6 5/8"	.60 X 70° W*	150	0.75	3	3.4*
OLG-080/093	F3	SBT	6 5/8"	.50 X 70° W*	170	0.65	3	3*
OLG-080/093	F3	SBT	6 5/8"	.60 X 70° W*	150	0.73	3	3.4*
OLG-080/122	F3	SBT	6 5/8"	.60 X 70° W*	150	0.73	3	3.4*
OLG-080/122	F3	SBT	6 5/8"	.65 X 70° W*	170	0.85	3	4*
OLG-080/122	F3	SBT	6 5/8"	.75 X 70° W*	160	0.95	3	4.3*
OLG-105/122	F3	SBT	6 5/8"	.65 X 70° W*	170	0.85	3	4*
OLG-105/122	F3	SBT	6 5/8"	.75 X 70° W*	160	0.95	3	4.3*
OLG-123/144	F5	SBT	6 5/8"	.85 X 70° W*	150	1.00	2	2.60*
OLG-123/144	F5	SBT	6 5/8"	.85 X 60° W*	160	1.10	2.5	2.70*
OLG-123/144	F5	SBT	6 5/8"	1.00 X 60° W*	150	1.20	3.5	2.90*
OLG-146/162	F5	SBT	6 5/8"	1.00 X 60° W*	150	1.20	3.5	2.90*
OLG-146/162	F5	SBT	6 5/8"	1.10 X 60° W*	150	1.30	4	3.50*
OHG-089/117	F3	SBT	4 5/8"	.60 X 70° W*	150	0.73	3	3.4*
OHG-089/117	F3	SBT	4 5/8"	.65 X 70° W*	170	0.85	3	4*
OHG-089/117	F3	SBT	4 5/8"	.75 X 70° W*	160	0.95	3	4.3*



GRIMBSY STOVE

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
OHG-089/117	BF5	SBT	4 5/8"	.60 X 70° W*	150	0.73	.5	3.4*
OHG-089/117	BF5	SBT	4 5/8"	.65 X 70° W*	170	0.85	1	4*
OHG-089/117	BF5	SBT	4 5/8"	.85 X 70° W*	150	1.00	2	4.3*

NOTE: All units require an amulet.

* Alternate Nozzles can be Delavan A Hago H or SS or Danfoss AS,AB,or AH

* Air gate settings for start-up only and must receive final setting at installation

GSW / JOHN WOODS

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
JWF 307 V	BF3	SBT	4 3/16"	.60 X 60° A	140	0.70	0	4
JWF 307	R35.3	.04.R0	4 1/4"	.65 x 60° W	150	0.79	1	2.5
JWF 507	R35.3	.05.R0	5 11/14"	.65 x 60° A	160	0.79	1	3
JWF 657	R35.3	.07.R0	7 3/4"	.85 X 60° W	155	1.00	.5	2
JW 657	R35.3	.07.R0	7 3/4"	1.00 X 60° W	145	1.20	1	4
30 ES	R35.3	.05.R0	5 1/8"	50 X 80° B	145	0.60	1.1	1.2

H.B. SMITH

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
8W-3L	F3	SBT	2 1/4"	.60 X 60° W	145	0.75	1.5	2.7
8W-3M	F3	SBT	2 1/4"	.65 X 60° W	145	0.82	3	2.7
8W-3H	F3	SBT	2 1/4"	.75 X 60° W	145	0.94	3	4
8W-4L	F5	SBT	2 1/4"	.85 X 60° W	145	1.00	1	2.4
8W-4H	F5	SBT	2 1/4"	1.00 X 60° W	145	1.22	1.5	4
8W-5L	F5	SBT	2 1/4"	1.20 X 60° W	145	1.46	2	2.5
8W-5H	F10	SBT	2 1/2"	1.35 X 60° W	145	1.62	1	3
8W-6L	F10	SBT	2 1/2"	1.35 X 60° W	145	1.62	1	3

H.B. SMITH

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
8W-6H	F10	SBT	2 1/2"	1.50 X 60° W	145	1.80	3	3
BB14-W3L	F5	SBT	3"	.60 X 60° W	175	0.79	.5	3
BB14-W3M	F5	SBT	3"	.65 X 60° W	180	0.85	1	2.4
BB14-W3H	F5	SBT	3"	.85 X 60° W	180	1.14	2	2.9
BB14-W4L	F5	SBT	3"	1.00 X 60° W	155	1.24	2	3
BB14-W4M	F5	SBT	3"	1.20 X 60° W	145	1.44	3	3.7
BB14-W4H	F5	SBT	3"	1.35 X 60° W	155	1.68	4	6.5
BB14-W3L	F5	SBT	3"	.60 X 60° W	175	0.79	1	1.5
BB14-W5M	F10	SBT	3 1/4"	1.65 X 60° W	145	1.98	2	3.3
BB14-W5H	F10	SBT	3 1/4"	1.75 X 60° W	170	2.28	2.5	3.7
BB14-W6L	F10	SBT	3 1/4"	2.00 X 60° W	160	2.52	3	4.5
BB14-W6H	F10	SBT	3 1/4"	2.25 X 60° W	150	2.75	4	4.7
DV8-3L	BF5	SBT	2 1/4"	.65 X 60° W	145	0.75	0	3
DV8-3H	BF5	SBT	2 1/4"	.75 X 60° W	145	0.94	.5	3.7
DV8-4L	BF5	SBT	2 1/4"	.85 X 60° W	145	1.00	3	4
DV8-4H	BF5	SBT	2 1/4"	1.00 X 60° W	145	1.22	4	7

HEARTHSTONE HYDRONICS

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
H 3	F3	SBT	4"	.60 X 80° W	140	0.70	2	3.8
H 4	F3	SBT	4"	.65 X 80° W	150	0.80	1	5
H 5	F5	SBT	4"	.85 X 60° W	140	1.00	1	5
H 6	F5	SBT	4"	1.00 X 60° W	175	1.30	3	5
H 7	F5	SBT	4"	1.25 X 45° W	175	1.65	4	8
H 8	F10	SBT	4"	1.50 X 45° W	185	2.00	0	3.5
H 9	F10	SBT	4"	1.75 X 45° W	160	2.21	1.5	4.2
H 3	BF3	SBT	3"	.60 X 80° B	170	0.78	0	4.2
H 4	BF3	SBT	3"	.70 X 80° B	160	0.88	2	4.6
H 5	BF3	SBT	3"	N/A				



HEARTHSTONE HYDRONICS

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
H 6	BF3	SBT	3"	1.00 X 80° B	180	1.34	2	4.5
H 7	BF3	SBT	3"	N/A				
H 3	BF3	SBT	3"	.60 X 80° B	170	0.70	2	4.5
H 4	BF3	SBT	3"	.70 X 80° B	160	0.88	2	5
H 5	BF5	SBT	3"	.85 X 60° B	175	1.12	2	4.5
H 6	BF5	SBT	3"	1.00 X 80° B	180	1.34	3	5
H 7	BF5	SBT	3"	1.25 X 60° B	175	1.65	3	6

HEAT TRANSFER-MUCHKIN

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
3MOFB	F3	SBT	3 1/4"	.50 X 60° W	180	0.67	0.50	3.00
4MOFB	F5	SBT	3 1/4"	.75 X 60° W	185	1.02	0.50	3.00
5MOFB	F5	SBT	3 1/4"	1.00 X 60° W	160	1.26	2.50	3.30
6MOFB	F5	SBT	3 1/4"	1.20 X 60° W	160	1.51	3.50	5.50
7MOFB	F10	SBT	3 1/4"	1.50 X 60° W	170	1.95	1.00	4.10

KENMORE

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
3EW .65	F5	SBT	2 1/4"	.50 X 70° B	155	0.62	.5	.5
3EW .75	F5	SBT	2 1/4"	.65 X 70° B	150	0.79	2	2.2
3EW 1.00	F5	SBT	2 1/4"	.85 X 70° B	170	1.10	2	2.3
4EW .90	F5	SBT	2 1/4"	.75 X 70° B	160	0.94	1.5	2.6
4EW 1.25	F5	SBT	2 1/4"	1.00 X 70° B	170	1.30	2.5	3.8
4EW 1.50	F5	SBT	2 1/4"	1.25 X 70° B	175	1.65	4	7
5EW 1.20	F5	SBT	2 1/4"	1.00 X 70° B	150	1.22	2.5	3.5
5EW 1.75	F10	SBT	2 1/4"	1.50 X 70° B	155	1.86	2	3.8
5EW 2.00	F10	SBT	2 1/4"	1.75 X 70° B	155	2.19	2.5	4.1

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
K4CE-090	F3	SBT	2 1/2"	.50 X 80° B	150	0.61	0	2.8
K4CE-090	F3	SBT	2 1/2"	.60 X 60° W	150	0.73	.5	3.5
K4CV-090	BF3	SBT	2 1/2"	.50 X 80° W	150	0.61	.5	5
K4CV-090	BF3	SBT	2 1/2"	.60 X 60° W	150	0.73	1.5	6
K6CE-160	F5	SBT	2 1/2"	1.10 X 60° W	150	1.35	3.5	4
K6CE-110	F3	SBT	2 1/2"	.60 X 80° W	150	0.73	1	4.1
K6CE-110	F3	SBT	2 1/2"	.75 X 60° W	150	0.92	3	5
K6CE-120	F3	SBT	2 1/2"	.75 X 60° W	150	0.92	1	3.2
K6CE-120	F5	SBT	2 1/2"	.85 X 60° W	150	1.04	2	3.4
K6CE-160	F5	SBT	2 1/2"	.75 X 60° W	150	0.92	1	3.2
K6CE-160	F5	SBT	2 1/2"	.85 X 60° W	150	1.04	2	3.3
K6CE-160	F5	SBT	2 1/2"	1.00 X 60° W	150	1.22	2.5	3.4
K6CV-090	BF3	SBT	2 1/2"	.60 X 70° B	150	0.73	1	6
K6CV-120	BF5	SBT	2 1/2"	.75 X 70° B	150	0.92	1.5	4.5
K6CV-120	BF5	SBT	2 1/2"	.85 X 60° W	150	1.04	2	5
K6CV-145	BF5	SBT	2 1/2"	.75 X 70° B	150	0.92	1.5	4.5
K6CV-145	BF5	SBT	2 1/2"	.85 X 60° W	150	1.04	2	5
K6CV-145	BF5	SBT	2 1/2"	1.00 X 60° W	150	1.22	2.5	6.2
KCR (F) V-100	BF3	SBT	2 1/2"	.65 X 80° A	170	0.85	2.5	7
KCR (F) V-120	BF5	SBT	2 1/2"	.75 X 70° B	170	0.98	2	4
KCR (F) V-145	BF5	SBT	2 1/2"	.85 X 60° W	150	1.04	2	5
KCR (F) V-145	BF5	SBT	2 1/2"	1.00 X 60° W	150	1.22	2.5	6.2
KDF(R) E 115	F3	SBT	2 1/2"	.60 X 60° B	150	0.73	0	3.5
KDF(R) E 115	F3	SBT	2 1/2"	.75 X 60° W	150	0.92	1.5	5
KDF(R) E 115	F3	SBT	2 1/2"	.75 X 60° W	175	1.00	1.5	5
KDF(R) E 130	F5	SBT	2 1/2"	.85 X 60° B	170	1.10	2	3.2
KDF(R) E 140	F5	SBT	2 1/2"	.85 X 60° B	170	1.10	2	3.2



KERR

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
KDF(R) E 140	F5	SBT	2 1/2"	1.00 X 60° B	150	1.22	2	3.5
KDF(R) V 095	BF3	SBT	2 1/2"	.60 X 70° B	150	0.73	0	7
KDF(R) V 095	BF3	SBT	2 1/2"	.65 X 60° B	150	0.80	3	6.5
KDF(R) V 110	BF5	SBT	2 1/2"	.75 X 70° B	150	0.92	1.5	4.2
KDF(R) V 130	BF5	SBT	2 1/2"	.85 X 60° W	150	1.04	2	5.2
KCR (F) E-110	F3	SBT	2 1/2"	.65 X 80° B	170	0.85	2	5
KCR (F) E-110	F3	SBT	2 1/2"	.75 X 80° A	170	0.98	2.5	6
KCR (F) E-160	F5	SBT	2 1/2"	.75 X 80° W	170	0.98	3	2.5
KCR (F) E-160	F5	SBT	2 1/2"	.85 X 60° W	150	1.04	3.3	2
KCR (F) E-160	F5	SBT	2 1/2"	1.00 X 60° W	150	1.22	3.5	2.5
KCR (F) E-160	F5	SBT	2 1/2"	1.10 X 60° W	150	1.35	3.5	4
BCE-125	F3	SBT	5 1/2"	.50 X 80° B	150	0.61	.5	2.7
BCE-125	F3	SBT	5 1/2"	.60 X 60° W	150	0.73	1.5	3.5
BCE-125	F3	SBT	5 1/2"	.65 X 60° W	150	0.80	2	3.7
BCE-125	F3	SBT	5 1/2"	.75 X 60° W	150	0.92	3	4.2
BCE-125	F3	SBT	5 1/2"	.85 X 60° W	150	1.04	3	5
BCE5-145	F5	SBT	5 1/2"	.85 X 60° W	150	1.04	2	3.2
BCE5-145	F5	SBT	5 1/2"	1.00 X 60° W	150	1.22	2.5	3.4
BCFE-220	F10	SBT	5 1/2"	1.35 X 60° B	145	1.63	1.75	2.4
BCFE-220	F10	SBT	5 1/2"	1.50 X 60° B	145	1.81	2	2.5
BCFE-250	F10	SBT	5 1/2"	1.75 X 60° B	145	2.12	2.5	3
BCFE-270	F10	SBT	5 1/2"	1.75 X 60° B	170	2.24	2.5	3.5
BCV3-110	BF3	SBT	5 1/2"	.50 X 80° B	150	0.61	1	4.1
BCV3-110	BF3	SBT	5 1/2"	.60 X 60° W	150	0.73	1.5	5
BCV3-110	BF3	SBT	5 1/2"	.65 X 60° W	150	0.88	2	5.6
BCV5-145	BF5	SBT	5 1/2"	.75 X 60° W	150	0.92	1.5	4
BCV5-145	BF5	SBT	5 1/2"	.85 X 60° W	150	1.04	2	4.5

OEM SPECIFICATIONS GUIDE

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
BCV5-145	BF5	SBT	5 1/2"	1.00 X 60°W	150	1.22	2.5	5.5
BNTE-110	F3	MED 8 7/8	5 1/2"	.65 X 60° W	150	0.80	2	3
BNTE-110	F3	MED 8 7/8	5 1/2"	.75 X 60° W	150	0.92	3	3.75
BNTE-125	F5	MED 8 7/8	5 1/2"	.85 X 60° W	150	1.04	2	2.8
BNTE-160	F5	MED 8 7/8	5 1/2"	.85 X 60° W	150	1.04	2	2.8
BNTE-160	F5	MED 8 7/8	5 1/2"	1.00 X 60° W	150	1.23	2.5	3.4
BNTE-160	F5	MED 8 7/8	5 1/2"	1.10 X 60° W	150	1.35	3.5	3.75
KMCE-095	F3	SBT	2 1/2"	.50 X 60° W	150	0.61	.5	2.7
KMCE-095	F3	SBT	2 1/2"	.60 X 60° W	150	0.73	1	3.3
KMCE-095	F3	SBT	2 1/2"	.65 X 60° W	150	0.80	1.2	3.8
KMCV-095	BF3	SBT	2 1/2"	.50 X 80° W	150	0.61	1	3.6
KMCV-095	BF3	SBT	2 1/2"	.60 X 80° W	150	0.73	1.5	4.
KMCV-095	BF3	SBT	2 1/2"	.65 X 70° W	150	0.80	2	4.8
K4CEM-090	F3	SBT	2 1/2"	.50 X 80° B	150	0.61	0	2.8
K4CEM-090	F3	SBT	2 1/2"	.60 X 60° W	150	0.73	.5	3.5
K4CVM-090	BF3	SBT	2 1/2"	.50 X 80° W	150	0.61	.5	5
K4CVM-090	BF3	SBT	2 1/2"	.60 X 60° W	150	0.73	1.5	6
H3	F3		N/A	.75 X 60° W/AR	145	0.90	3	2.7
H5	F5		N/A	.65 X 60° W	150	0.80	1	2
H5	F5		N/A	.75 X 60° W/AR	145	0.90	1.5	2.2
H5	F5		N/A	.85 X 60° W/AR	140	1.00	2	2.5
H5	F5		N/A	1.00 X 60° W	145	1.20	2.5	3
H5	F5		N/A	1.25 X 60° W/AR	145	1.50	4	3.5



LINCOLN

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
MBO-90	F3	SBT	6 1/4"	.60 x 60° W	140	0.70	1.5	3.4
MBO-105	F3	SBT	6 1/4"	.75 x 60° W	150	0.90	2.5	4
LBO-105	F3	SBT	6 1/4"	.75 x 60° W	145	0.90	2.5	4
LBO-130	F5	SBT	6 1/4"	.85 x 60° W	170	1.10	2.5	2.7
LBO-150	F5	SBT	6 1/4"	1.10 x 60° W	145	1.32	3.5	3.5
FLO-115	F3	SBT	6 1/2"	.75 x 60° W	180	1.00	3	5
LH05113	F3	SBT	5 7/8"	.60 X 60° W	145	0.72	1.5	3.4
LH05113	F3	SBT	5 7/8"	.75 X 60° W	145	0.90	3	4.3
LH05168	F5	LBT	8"	1.00 X 60° W	145	1.20	2.5	2.9
LH05168	F5	LBT	8"	1.25 X 60° W	145	1.50	4	4.3
LH05230	F10	LBT	8"	1.65 X 60° W	145	0.98	2.5	3.1

MILWAUKEE (THERMOFLO)

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
LBO 120	F3	SBT	5 3/4"	.75 X 60° W & SS	145	0.90	1.5	3.5
MBO 85	F3	SBT	5 3/4"	.50 X 60° W & SS	145	0.60	0	2.3
MBO 105	F3	SBT	5 3/4"	.60 X 60° W & SS	180	0.80	0	3.5
MBO 120	F3	SBT	5 3/4"	.75 X 60° W & SS	145	0.90	1.5	4.7

NEWMAC

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
LFR-63	F3	SBT	2"	.40 X 80° B	160	0.51	0	2.3
LFR-75	F3	SBT	2"	.50 X 80° B	150	0.61	.5	2.7
LFR-88	F3	SBT	2"	.60 X 60° A	150	0.72	1.5	3.4
LFR-62	BF3	SBT	2"	.40 X 80° B	160	0.51	0	3.2
LFR-73	BF3	SBT	2"	.50 X 70° B	145	0.60	1	3.8
LFR-86	BF3	SBT	2"	.60 X 60° A	145	0.72	1.5	4.4
NH3-90	F3	SBT	4 5/8"	.60 X 60° B	125	0.65	2	3.5

NEWMAC

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
NH3-95	F3	SBT	4 5/8"	.65 X 60° B	135	0.75	2	4
NH3-109	F3	SBT	4 5/8"	.75 X 60° B	130	0.85	2	4.5
NL2-77	F3	LBT	6 3/4"	.60 X 60° W	120	0.65	.5	2.4
NL2-89	F3	LBT	6 3/4"	.65 X 60° W	135	0.75	1	3
NL2-101	F3	LBT	6 3/4"	.75 X 60° W	130	0.85	2.4	4
NL2-118	F3	LBT	6 3/4"	.85 X 60° W	140	1.00	3	5
NL3-121	F5	LBT	7 3/4"	.85 X 60° W	145	1.00	2	2.1
NL3-149	F5	LBT	7 3/4"	1.00 X 60° W	150	1.22	2	2.7
NL3-140	F5	LBT	7 3/4"	1.10 X 60° W	150	1.34	2	2.8
NL3-177	F5	LBT	7 3/4"	1.25 X 60° W	145	1.50	2	3.5
NL4-220	F10	LBT	9 3/8"	1.50 X 60° W	145	1.80	2	2.8
NL4-250	F10	LBT	9 3/8"	1.75 X 60° W	145	2.10	2.5	3.1
NL4-290	F10	LBT	9 3/8"	2.00 X 60° W	145	2.41	3.5	3.4
NL4-325	F10	LBT	9 3/8"	2.25 X 60° W	145	2.71	4	4.2
NLF-77	F3	LBT	7 3/4"	.60 X 60° W	120	0.65	.5	2.4
NLF-89	F3	LBT	7 3/4"	.65 X 60° W	135	0.75	1	3
NLF-101	F3	LBT	7 3/4"	.75 X 60° W	130	0.85	2	3.6
NLF-118	F3	LBT	7 3/4"	.85 X 60° W	140	1.00	3	4.5
NMP-90	F3	SBT	4 5/8"	.60 X 60° B	150	0.73	1.5	2.5
NMP-95	F3	SBT	4 5/8"	.65 X 60° B	150	0.79	2	2.7
NMP-109	F3	SBT	4 5/8"	.75 X 60° B	150	0.90	3	3.1
NMP-90V	BF3	SBT	4 5/8"	.60 X 60° B	150	0.73	1.5	2.9
NMP-95V	BF3	SBT	4 5/8"	.65 X 60° B	150	0.79	2	3.1
NMP-109V	BF3	SBT	4 5/8"	.75 X 60° B	150	0.90	3	3.3
NMR-77	F3	LBT	7 3/4"	.60 X 60° W	120	0.65	.5	2.4
NMR-89	F3	LBT	7 3/4"	.65 X 60° W	135	0.75	1	3



NEWMAC

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
NMR-101	F3	LBT	7 3/4"	.75 X 60° W	130	0.85	2	4
NMR-118	F3	LBT	7 3/4"	.85 X 60° W	140	1.00	3	5
NV2-93	F3	LBT	6 3/4"	.60 X 60° W	150	0.70	3	3.4
NV2-98	F3	LBT	6 3/4"	.65 X 60° W	150	0.80	3	3.6
NV2-112	F3	LBT	6 3/4"	.75 X 60° W	150	0.90	3	4.3
NV2-125	F3	LBT	6 3/4"	.85 X 60° W	150	1.00	3	5.5
NV2-88V	BF3	LBT	6 3/4"	.75 X 60° W	145	0.90	3	7
NV2-97V	BF3	LBT	6 3/4"	.65 X 60° W	145	0.80	3	5
NV2-111V	BF3	LBT	6 3/4"	.60 X 60° W	145	0.70	3	4
NV3-123	F5	LBT	7 3/4"	.85 X 60° W	150	1.00	2	2.6
NV3-144	F5	LBT	7 3/4"	1.00 X 60° W	150	1.22	2	2.9
NV3-160	F5	LBT	7 3/4"	1.10 X 60° W	150	1.34	2	3.5
NV3-181	F5	LBT	7 3/4"	1.25 X 60° W	150	1.53	2	4.3
NV3-121V	BF5	LBT	7 3/4"	.85 X 60° W	145	0.96	2	4.2
NV3-142V	BF5	LBT	7 3/4"	1.00 X 60° W	145	1.20	2	4.5
NV3-155V	BF5	LBT	7 3/4"	1.10 X 60° W	145	1.32	2	5
NBR 90V/NBR2 90V	BF3	SBT	3 1/4"	.60 x 60° B	145	0.73	1.5	4.4
NBR 98V/NBR2 98V	BF3	SBT	3 1/4"	.65 X 60° B	145	0.79	2	5
NBR 111V/NBR2 111V	BF3	SBT	3 1/4"	.75 X 60° B	145	0.90	3	7
NBR 90V/NBR2 90V	BF5	SBT	3 1/4"	.60 X 60° B	145	0.73	0	3.3
NBR 98V/NBR2 98V	BF5	SBT	3 1/4"	.65 X 60° B	145	0.79	.5	3.6
NBR 111V/NBR2 111V	BF5	SBT	3 1/4"	.75 X 60° B	145	0.90	1.5	3.8
NBR 126V/NBR2 126	BF5	SBT	3 1/4"	.85 X 60° B	145	1.00	2	4.2
NBR 144V/NBR2 144V	BF5	SBT	3 1/4"	1.00 X 60° B	145	1.20	2.5	4.5
NBR 158V/NBR2 158V	BF5	SBT	3 1/4"	1.10 X 60° B	145	1.32	3.5	5
NBR 177V/NBR2 177	BF5	SBT	3 1/4"	1.25 X 60° B	145	1.51	4	7

OEM SPECIFICATIONS GUIDE

NEWMAC

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
NBR 91/NBR2 91	40 F3	SBT	3 1/4"	.60 X 60° B	150	0.73	1.5	3.4
NBR 100/NBR2 100	40 F3	SBT	3 1/4"	.65 X 60° B	150	0.79	2	3.6
NBR 113/NBR2 113	40 F3	SBT	3 1/4"	.75 X 60° B	150	0.92	3	4.3
NBR 127/NBR2 127	40 F3	SBT	3 1/4"	.85 X 60° B	150	1.04	3	5
NBR 91/NBR2 91	40 F5	SBT	3 1/4"	.60 X 60° B	150	0.73	.5	1.9
NBR 100/NBR2 100	40 F5	SBT	3 1/4"	.65 X 60° B	150	0.79	1	2
NBR 113/NBR2 113	40 F5	SBT	3 1/4"	.75 X 60° B	150	0.92	1.5	2.2
NBR 127/NBR2 127	40 F5	SBT	3 1/4"	.85 X 60° B	150	1.04	2	2.6
NBR 145/NBR2 145	40 F5	SBT	3 1/4"	1.00 X 60° B	150	1.22	2.5	2.9
NBR 160/NBR2 160	40 F5	SBT	3 1/4"	1.10 X 60° B	150	1.35	3.5	3.5
NBR 179/NBR2 179	40 F5	SBT	3 1/4"	1.25 X 60° B	150	1.53	4	4.30

NEWYORKER / COLMAR BOILER

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
AP 490 U	F3	VSBT	1 1/4"	.65 X 60° W	145	0.78	1	2.8
AP 590 U	F5	VSBT	1 1/4"	.85 X 80° W	145	1.00	0	2.8
AP 690 U	F5	VSBT	1 1/4"	.90 X 80° W	145	1.08	0	3
AP 790 U	F5	VSBT	1 1/4"	1.10 X 80° W	145	1.32	2	3.5
AP 7870	F5	VSBT	1 1/4"	1.25 X 60° W	145	1.50	4	4.6
AP 970	F10	VSBT	1 1/4"	1.50 X 60° W	135	1.75	2	6
AP 1070	F10	VSBT	1 1/4"	2.00 X 60° W	155	2.50	4	4.6
AP 1170	F10	VSBT	1 1/4"	2.50 X 60° W	145	3.00	5	6.9
CL3 105	F5	SBT	2 3/8"	.60 X 60° A	150	0.78	0	2.6
CL3 140	F5	SBT	2 3/8"	.85 X 60° W	150	1.00	2	2.85
CL4 175	F5	SBT	2 3/8"	1.00 X 60° A	150	1.25	4	4
CL4 210	F10	SBT	2 1/2"	1.25 X 60° B	150	1.50	1	3
CL5 245	F10	SBT	2 1/2"	1.35 X 45° B	150	1.75	1.5	3
CL5 280	F10	SBT	2 1/2"	1.65 X 45° B	150	2.00	2	3.8
FRHGS / N 109	F5	VSBT	1"	.70 X 60° B	170	0.80	0	2.5
FRHGS / N 109	F5	VSBT	1"	.85 X 60° B	155	1.00	0	2.3



NEWYORKER / COLMAR BOILER

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
FRHGS / N 110	F5	VSBT	1"	1.20 X 80° B	130	1.30	2	4
FR98122 / N 112	F5	VSBT	1"	.75 X 60° B	150	0.85	0	2.8
FR98122 / N 112	F5	VSBT	1"	1.00 X 80° B	165	1.10	0	4

NY THERMAL

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
#81124	BF3	SBT	4 7/8"	.65 X 60° W	135	0.75	1	5.5
#10630	F5	VSBT	2 3/8"	.85 X 60° B	145	1.02	1	3
#81122	BF5	VSBT	2 3/8"	.85 X 60° B	145	1.02	0	4
C 85	F3	SBT	2 3/8"	.65 X 60° B	120	0.71	0	5.5
C 95	F3	SBT	3 3/8"	.65 X 60° W	135	0.75	1	5.5
C 105	F3	SBT	2 3/8"	.75 X 60° B	130	0.85	1.5	5.5
C 125	F5	SBT	2 3/8"	.85 X 60° B	140	1.00	1	4
C 150	F5	SBT	2 3/8"	1.00 X 60° B	155	1.25	1	4.5
C 180	F5	SBT	2 3/8"	1.25 X 60° B	145	1.50	4	7.5
C 220	F10	SBT	2 3/8"	1.50 X 60° B	135	1.75	.5	3.5
C230	F10	SBT	2 3/8"	1.50 X 60° B	150	1.85	1	4
C 250	F10	SBT	2 3/8"	1.75 X 60° B	130	2.00	1.5	4.5
C 275	F10	SBT	2 3/8"	1.75 X 60° B	165	2.25	2	4
C 305	F10	SBT	2 3/8"	2.00 X 60° B	155	2.50	3	5.5
C 340	F10	SBT	2 3/8"	2.25 X 60° B	155	2.80	4.5	6.5
CT 80	F3	SBT	3 3/4"	.60 X 80° B	120	0.65	0	3.5
CT 90	F3	SBT	3 3/4"	.65 X 80° B	135	0.75	0	4.5
CT 100	F3	SBT	3 3/4"	.75 X 80° B	130	0.85	2	7
CT 120	F5	SBT	3 3/4"	.85 X 60° B	140	1.00	2	2.5
CT 150	F5	SBT	3 3/4"	1.00 X 60° B	155	1.25	2	3.3
CT 180	F5	SBT	3 3/4"	1.25 X 80° B	145	1.50	3.5	4.5
CT 215	F5	SBT	3 3/4"	1.50 X 45° B	140	1.77	2	3.25

NY THERMAL

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
CT 230	F10	SBT	3 3/4"	1.50 X 45° B	150	1.85	2	3.25
CT 250	F10	SBT	3 3/4"	1.50 X 45° B	175	2.00	3	4
MP 60	F3	SBT	2 1/2"	.50 X 60° W	125	0.55	0	6
MP 80	F3	SBT	2 1/2"	.50 X 60° W	169	0.65	0	3.75
MP 90	F3	SBT	2 1/2"	.65 X 60° W	133	0.75	0	5
MP 100	F3	SBT	2 1/2"	.75 X 60° W	128	0.85	2	6.5
MP 120	F5	SBT	3 3/4"	.85 X 60° W	138	0.99	0	3
MP 130	F5	SBT	3 3/4"	.85 X 60° W	167	1.10	1	3.5
MP 80	BF5	SBT	2 1/2"	.50 X 60° W	169	0.65	0	3
MP 90	BF5	SBT	2 1/2"	.65 X 60° W	133	0.75	0	6
MP 100	BF5	SBT	2 1/2"	.75 X 60° W	128	0.85	0	8
MP 120	BF5	SBT	3 3/4"	.85 X 60° W	138	0.99	0	4
NY 112	F3	SBT	*	.75 X 80° B	150	0.91	.5	6
NY 124	F5	SBT	*	1.00 X 80° B	150	1.22	1	6
NY 151	F5	SBT	*	1.10 X 80° B	150	1.35	3	6.5
NY 168	F5	SBT	*	1.35 X 80° B	125	1.50	4	7.5
NY 194	F10	SBT	*	1.50 X 80° B	140	1.75	1	2.5
NY 224	F10	SBT	*	1.75 X 80° B	130	1.99	1.5	3
NY 282	F10	SBT	*	2.00 X 80° B	160	2.52	2	4
NY 339	F10	SBT	*	2.50 X 80° B	140	2.95	4	5
TF 78	F3	SBT	*	.60 X 80° W	120	0.65	0	2.5
TF 89	F3	SBT	*	.65 X 80° W	135	0.75	0	3.5
TF 101	F5	SBT	*	.75 X 80° W	130	0.85	2	3.5
TF 114	F5	SBT	*	.75 X 80° W	160	0.95	3	4.5
VS 80	F3	SBT	2 1/2"	.60 X 60° W	115	0.65	0	4
VS 90	F3	SBT	2 1/2"	.60 X 60° W	155	0.75	0	6
VS 100	F3	SBT	2 1/2"	.75 X 60° W	130	0.85	.5	6
VS 120	F5	SBT	3 3/4"	.75 X 60° W	180	1.00	1	3.5



NY THERMAL

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
VS 130	F5	SBT	3 3/4"	1.00 X 60° W	120	1.10	1.5	4
VS 150	F5	SBT	3 3/4"	1.00 X 60° W	155	1.25	2	6
VS 160	F5	SBT	3 3/4"	1.10 X 60° W	150	1.35	3	6.5
VS 180	F5	SBT	3 3/4"	1.35 X 60° W	125	1.50	4	7.5
VS 210	F10	SBT	3 3/4"	1.35 X 60° W	170	1.75	1	N/A

* Set blast tube recessed inside boiler by 1/4"

OLSEN / DUOMATIC / AIRCO

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
BCL 80 RF	F3	SBT	6 5/16"	.60 X 60° W	120	0.65	.5	2.9
BCL 90 RF	F3	SBT	6 5/16"	.65 X 60° W	135	0.75	1	3.5
BCL 100 RF	F3	SBT	6 5/16"	.75 X 60° W	130	0.85	0	4.3
BCL 120 RF	F5	SBT	6 5/16"	.85 X 60° W	140	1.00	1.5	4.1
BCL 130 RF	F5	SBT	6 5/16"	1.00 X 60° W	145	1.10	2	4.3
BCL 145 RF	F5	SBT	6 5/16"	1.10 X 60° W	120	1.20	2.5	5.9
BCL 80 RBU	BF3	SBT	6 5/16"	.60 X 60° W	120	0.65	.5	2.9
BCL 90 RBU	BF3	SBT	6 5/16"	.65 X 60° W	135	0.75	1	3.5
BCL 100 RBU	BF3	SBT	6 5/16"	.75 X 60° W	130	0.85	0	4.3
BCL 120 RBU	BF5	SBT	6 5/16"	.85 X 60° W	140	1.00	1.5	4.1
BFL 80 RBU	BF3	SBT	6 5/16"	.60 X 60° W	120	0.65	.5	2.9
BFL 90 RBU	BF3	SBT	6 5/16"	.65 X 60° W	135	0.75	1	3.5
BFL 100 RBU	BF3	SBT	6 5/16"	.75 X 60° W	130	0.85	0	4.3
BFL 120 RBU	BF5	SBT	6 5/16"	.85 X 60° W	140	1.00	1.5	4.1
BFL 80 RF	F3	SBT	6 5/16"	.60 X 60° W	120	0.65	.5	2.9
BFL 90 RF	F3	SBT	6 5/16"	.65 X 60° W	135	0.75	1	3.5
BFL 100 RF	F3	SBT	6 5/16"	.75 X 60° W	130	0.85	0	4.3
BLF 120 RF	F5	SBT	6 5/16"	.85 X 60° W	140	1.00	1.5	4.1
BLF 130 RF	F5	SBT	6 5/16"	1.00 X 60° W	145	1.10	2	4.3
BLF 145 RF	F5	SBT	6 5/16"	1.10 X 60° W	120	1.20	2.5	5.9

OLSEN / DUOMATIC / AIRCO

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
BML 60 CRF	F3	SBT	6 5/16"	.50 X 60° W	105	0.51	0	1.6
BML 80 CRF	F3	SBT	6 5/16"	.55 X 45° W	140	0.65	0	2.5
BML 90 CRF	F3	SBT	6 5/16"	.65 X 45° W	135	0.75	2	3
BML 60 BRB	BF3	SBT	6 5/16"	.50 X 60° W	145	0.60	1	1.6
BML 80 BRB	BF3	SBT	6 5/16"	.60 X 45° W	120	0.65	1.5	2.5
BML 90 BRB	BF3	SBT	6 5/16"	.65 X 45° W	135	0.75	2	3
HML 60 CRB	BF3	SBT	6 5/16"	.50 X 60° W	105	0.50	1	1.6
HML 80 CRB	BF3	SBT	6 5/16"	.60 X 60° W	115	0.65	1.5	2.5
HML 90 CRB	BF3	SBT	6 5/16"	.65 X 60° W	135	0.75	2	3
MPL 90 BRF	F5	SBT	6 5/16"	.65 X 45° AS	135	0.75	0	2
MPL 100 BRF	F5	SBT	6 5/16"	.75 X 75° AS	130	0.85	1	2
MPL 120 BRF	F5	SBT	6 5/16"	.85 X 45° AS	140	1.00	1	2.5
MPL 90 BRB	BF5	SBT	6 5/16"	.65 X 45° AS	135	0.75	1	3.3
MPL 100 BRB	BF5	SBT	6 5/16"	.75 X 45° AS	130	0.85	2	3.1
MPL 120 BRB	BF5	SBT	6 5/16"	.85 X 45° AS	1140	1.00	3	3.5
WML 60 CRB	BF3	SBT	6 5/16"	.50 X 60° W	105	0.51	1	1.6
WML 80 CRB	BF3	SBT	6 5/16"	.60 X 60° W	115	0.65	1.5	2.5
WML 90 CRB	BF3	SBT	6 5/16"	.65 X 60° W	135	0.75	2	3

ONEIDA / ROYAL

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
145 /R	F5	SBT	N/A	1.00 X 60° W	125	1.11	4	2
145 F/R	F5	SBT	N/A	1.10 X 60° W	125	1.23	4	2.5
H056A-3B	F3	SBT	5"	.40 X 60° A	160	0.50	0	1.8
H073A-3B	F3	SBT	5"	.50 X 60° A	170	0.65	0	2.3
H084A-3B	F3	SBT	5"	.60 X 60° A	160	0.75	0	2.4



ONEIDA / ROYAL

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
H095A-4B	F5	SBT	5"	.65 X 60° A	175	0.85	1.5	1.8
H0112A-4B	F5	SBT	5"	.75 X 60° A	175	1.00	3	2.1
H0125A-4B	F5	SBT	5"	.85 X 60° A	170	1.10	4	2.1
L056A-3B	F3	SBT	5"	.40 X 60° A	160	0.50	0	1.8
L073A-3B	F3	SBT	5"	.50 X 60° A	170	0.65	1	2.3
L084A-3B	F3	SBT	5"	.60 X 60° A	160	0.75	1	2.4
L095A-3B	F5	SBT	5"	.65 X 60° A	175	0.85	1.5	1.7
L0112A-3B	F5	SBT	5"	.75 X 60° A	175	1.00	2	2.4
L0125A-3B	F5	SBT	5"	.85 X 60° A	170	1.10	3	2.5
LOR56A-3B	F3	SBT	5"	.40 X 60° A	160	0.50	0	2
LOR73A-3B	F3	SBT	5"	.50 X 60° A	170	0.65	0	3
LOR84A-3B	F3	SBT	5"	.60 X 60° A	160	0.75	1	2.7
LOR95A-4B	F5	SBT	5"	.65 X 60° A	175	0.85	1.5	1.9
LOR112A-4B	F5	SBT	5"	.75 X 60° A	175	1.00	2	2.6
LOR125A-4B	F5	SBT	5"	.85 X 60° A	170	1.10	3.5	2.6
80 F/R (060)	F3	SBT	N/A	.40 X 60° W	160	0.50	1.5	2.25
80 F/R (070)	F3	SBT	N/A	.50 X 60° W	150	0.60	1.5	2.5
80 F/R (080)	F3	SBT	N/A	.60 X 60° W	145	0.72	2	3
120 F/R (090)	F3	SBT	N/A	.75 X 70° W	150	0.91	2	3.52
120 F/R (100)	F3	SBT	N/A	.85 X 70° W	150	1.04	2.5	4
120 F/R (120)	F3	SBT	N/A	1.00 X 70° W	160	1.26	3	6

PEERLESS BOILER

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
J0TW 075	F5	SBT	2 5/8"	.60 X 60° W	155	0.74	.5	2.1
J0TW 100	F5	SBT	2 5/8"	.85 X 60° W	145	1.02	2	2.6
J0TW 125	F5	SBT	2 5/8"	1.00 X 60° W	155	1.24	3	3.2

PEERLESS BOILER

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
WBV 085	F5	SBT	2 5/8"	.65 X 60° W	170	0.85	1	2.5
WBV 110	F5	SBT	2 5/8"	.85 X 60° W	165	1.10	2.5	2.8
WBV 125	F5	SBT	2 5/8"	1.00 X 60° W	155	1.24	2.5	3.5
WBV 150	F5	SBT	2 5/8"	1.25 X 60° W	145	1.50	4	4.2
WDV-04-095	BF5	SBT	2 5/8"	.75 X 60° W	160	0.95	1	4
WDV-04-115	BF5	SBT	2 5/8"	.90 X 60° W	160	1.13	2	5
WDV-04-125	BF5	SBT	2 5/8"	1.0 X 60° W	156	1.24	3	4.9
WDV-04-130	BF5	SBT	2 5/8"	1.10 X 60° W	139	1.29	4	5
WDV-04-150	BF5	SBT	2 5/8"	1.25 X 60° W	144	1.50	4	6.8
WBV-03-060	F3	SBT	2 5/8"	.50 X 60° W	145	0.60	0	2.9
WBV-03-085	F5	SBT	2 5/8"	.65 X 60° W	170	0.85	1	2.5
WBV-03-110	F5	SBT	2 5/8"	.85 X 60° W	165	1.10	2.5	2.8
WBV-04-095	F5	SBT	2 5/8"	.75 X 80° B	160	0.95	.5	2.3
WBV-04-125	F5	SBT	2 5/8"	1.00 X 60° W	155	1.24	2.5	3.4
WBV-04-140	F5	SBT	2 5/8"	1.10 X 60° W	160	1.40	4	4.2
WBV-05-175	F10	SBT	2 5/8"	1.35 X 60° B	165	1.73	2	2.5
WBV-05-200	F10	SBT	2 5/8"	1.50 X 60° B	170	1.95	2.5	2.8
EC/ECT 03	F5	SBT	2 5/8"	1.00 X 60° W	145	1.20	3	2.9
EC/ECT 04	F5	SBT	2 5/8"	1.00 X 60° W	155	1.25	2.5	2.5
EC/ECT 04	F5	SBT	2 5/8"	1.35 X 60° B	165	1.73	2	2.5
EC/ECT 05	F10	SBT	2 5/8"	1.50 X 60° B	170	1.95	2.5	2.8
EC/ECT 06	F10	SBT	2 5/8"	2.50 X 60° B	145	3.00	4.5	4.2
EC/ECT-03-075	F5	SBT	2 5/8"	.60 X 60° B	155	0.75	.5	2.1
EC/ECT-03-100	F5	SBT	2 5/8"	.85 X 60° B	145	1.02	2	2.6
EC/ECT-03-120	F5	SBT	2 5/8"	1.00 X 60° B	145	1.20	3	2.9
EC/ECT-04-125	F5	SBT	2 5/8"	1.00 X 60° B	155	1.24	2.5	3.4
EC/ECT-04-150	F10	SBT	2 5/8"	1.25 X 60° B	145	1.50	1.5	3.1
EC/ECT-04-175	F10	SBT	2 5/8"	1.35 X 60° B	165	1.73	2	2.5
EC/ECT-05-200	F10	SBT	2 5/8"	1.50 X 60° B	170	1.95	2.5	2.8



PEERLESS BOILER

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
EC/ECT-05-250	F10	SBT	2 5/8"	2.00 X 60° B	155	2.49	3.5	4.2
EC/ECT-06-275	F10	SBT	2 5/8"	2.25 X 60° B	150	2.75	4	4.2
EC/ECT-06-300	F10	SBT	2 5/8"	2.50 X 60° B	145	3.00	4.5	4.2
WV-DV-03-075	BF5	SBT	2 5/8"	.60 X 80° B	165	0.77	1	3.3
WV-DV-03-085	BF5	SBT	2 5/8"	.65 X 80° B	165	0.83	1	3.8
WV-DV-03-110	BF5	SBT	2 5/8"	.90 X 80° B	165	1.15	2	5

PENNCO

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
KSB 3100	F5	SBT	1/4"	.85 X 80° W	150	1.04	1	3.6
KSB 4125	F5	SBT	1/4"	1.10 X 60° W	150	1.35	3	4
KSB 4150	F5	SBT	1/4"	1.25 X 60° W	150	1.53	4	6
KSB 5200	F10	SBT	1/4"	1.75 X 80° W	150	2.14	0	5

PNA (PENSOTTI NORTH AMERICA)

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
BL-3	BF3	LBT	3 1/4"	.60 X 60° W	145	0.70	1	5
BL-4	BF5	LBT	3 1/4"	.85 X 60° W	145	1.02	2	4
BL-5	BF5	LBT	3 1/4"	1.00 X 60° W	145	1.20	3	5
DK2-3	F3	VSBT	3"	.55 X 70° B	160	0.69	0	3.6
DK2-4	F5	VSBT	3"	.85 X 60° B	140	1.00	2	2.8
DK2-5	F5	VSBT	3"	1.00 X 60° W	156	1.25	3	3
DK2-6	F5	VSBT	3"	1.10 X 60° B	160	1.39	2	4.8
DK2-7	F10	VSBT	3"	1.35 X 45° B	145	1.60	1	3
DK2-8	F10	VSBT	3"	1.50 X 45° B	145	1.80	2	3
DK2-3	BF3	VSBT	3"	.55 X 70° B	160	0.69	2	4.6
DK2-4	BF5	VSBT	3"	.85 X 60° B	145	1.02	1	4.4
DK2-5	BF5	VSBT	3"	1.00 X 60° W	155	1.25	2	5.6
DK2-6	BF5	VSBT	3"	1.10 X 60° B	160	1.39	3	6.5

PNA (PENSOTTI NORTH AMERICA)

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
S1-18 BL-3	F3	SBT	3 1/4"	.50 X 60° W	180	0.67	.5	3
S1-26 BL-4	F5	SBT	3 1/4"	.75 X 60° W	185	1.00	.5	3
S1-34 BL-5	F5	SBT	3 1/4"	1.00 X 60° W	160	1.25	2.5	3.3
S1-42 BL-6	F5	SBT	3 1/4"	1.20 X 60° W	160	1.55	3.5	5.5
S1-50 BL-7	F10	SBT	3 1/4"	1.50 X 60° W	170	1.95	1	4.1
S2-58	F10	SBT	2 1/2"	1.65 X 60° B	175	2.18	2.5	4
S2-69	F10	SBT	2 1/2"	1.75 X 60° B	165	2.24	3.5	4.9
S2-80	F10	SBT	2 1/2"	2.25 X 60° B	150	3.75	4.5	5.7
S3-100	F15	SBT	2 1/2"	2.50 X 60° B	150	3.06	1	3.4
S3-116	F15	SBT	2 1/2"	3.00 X 60° B	150	3.67	1.5	3.6
S3-132	F15	SBT	2 1/2"	3.50 X 60° B	150	4.28	2	4.2
S3-148	F15	SBT	2 1/2"	3.50 X 60° B	175	4.63	3	4.9
S3-180	F20	SBT	2 1/2"	4.00 X 60° B	175	5.29	3	3.2-5.5
S3-180	F20	SBT	2 1/2"	4.50 X 60° B	170	5.86	4	3.4-6

QHT INC.

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
B10-3	F3	SBT	3"	.50 X 80° W	180	0.67	0	3.2
B10-4	F3	SBT	3"	.65 X 80° W	175	0.85	1	4.7
B10-5	F5	SBT	3"	.85 X 60° W	150	1.00	1	3.4
B10-6	F5	SBT	3"	1.00 X 60° W	175	1.32	3	5
B10-7	F5	SBT	3"	1.25 X 80° W	155	1.50	4	8
B10-8	F10	SBT	3"	1.50 X 60° W	160	1.80	1	3.4
B10-9	F10	SBT	3"	1.65 X 60° W	160	2.10	1.5	4.2
B10-3	BF3	SBT	3 1/2"	.50 X 80° W	180	0.67	0	3.2
B10-4	BF3	SBT	3 1/2"	.65 X 80° W	175	0.85	1	4.7
B10-5	BF5	SBT	3"	.85 X 60° W	150	1.00	1	3.4
B10-6	BF5	SBT	3"	1.00 X 60° W	175	1.32	3	5



QHT INC.

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
SG-2	F3	LBT	3 1/2"	.55 X 70° W	145	0.65	0	2.5
SG-3	F5	LBT	5"	.85 X 60° B	145	1.00	0	2.4
SG-4	F5	LBT	5"	1.00 X 80° B	145	1.20	3	3
SG-5	F5	LBT	5"	1.25 X 60° B	145	1.50	4	3.75
SG-6	F10	LBT	4 1/4"	1.65 X 60° B	145	1.90	1	4
SG-7	F10	LBT	4 1/4"	1.75 X 45° B	145	2.10	3	3.75
SG-2-DVS	BF3	LBT	3 1/2"	.55 X 70° B	145	0.65	0	4.5
SG-3-DVS	BF5	LBT	5"	.85 X 60° B	145	1.00	0	4
SG-4-DVS	BF5	LBT	5"	1.10 X 80° B	145	1.30	2	5.6
SG-5-DVS	BF5	LBT	5"	1.35 X 80° B	145	1.60	4	7

SLANT FIN LTD.

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
EC-13DV	BF3	LBT	7"	.55 X 80° A	133	0.65	0	4.5
EC-14DV	BF3	LBT	7"	.70 X 80° B	130	0.80	3	5.5
EC-15DV	BF5	SBT	4-1/4"	.75 X 60° A	178	1.00	1	4.4
EC-16DV	BF5	SBT	4-1/4"	.85 X 60° W	182	1.15	2	4.2
EC-13	F3	SBT	5"	.55 X 80° A	140	0.65	1	3.75
		SBT	5"	.55 X 80° A	162	0.70	1	4.1
EC-14	F5	SBT	5"	.65 X 60° B	150	0.80	0	2.3
		SBT	5"	.75 X 60° B	145	0.90	1	2.5
EC-15	F5	SBT	5"	.85 X 60° W	138	1.00	1	2.6
		SBT	5"	.85 X 60° W	168	1.10	1	3
EC-16	F5	SBT	5"	.85 X 60° B	185	1.15	2	2.8
		SBT	5"	1.00 X 60° B	155	1.25	2	3.2
LD-20	F3	SBT	1 3/4"	.65 X 80° W	135	0.75	0	2.9
LD-20BK	F3	SBT	1 3/4"	.80 X 80° B	140	0.95	3	5
LD-30H	F5	SBT	1 3/4"	.85 X 80° B	140	1.00	0	2.3

OEM SPECIFICATIONS GUIDE

SLANT FIN LTD.

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
LD-30	F5	SBT	1 3/4"	.90 X 80° B	150	1.10	0	2.6
LD-30	F5	SBT	1 3/4"	1.10 X 80° B	130	1.25	0	3.25
LD-40H	F10	SBT	1 3/4"	1.25 X 60° B	145	1.50	0	2.5
LD-40	F10	SBT	1 3/4"	1.35 X 60° B	140	0.59	1	2.7
LD-40	F10	SBT	1 3/4"	1.50 X 80° W	145	1.80	1.5	2.8
LD-20	BF3	SBT	1 3/4"	.65 X 80° B	135	0.75	2	5
LD-20BK	BF5	SBT	1 3/4"	.65 X 80° B	140	0.76	0	4
LD-30H	BF5	SBT	1 3/4"	.85 X 80° B	140	1.00	2	4
LD-30	BF5	SBT	1 3/4"	.90 X 80° B	150	1.10	2	4
LD-30	BF5	SBT	1 3/4"	1.10 X 80° B	130	1.25	3	4.5
LD-40H	BF5	SBT	1 3/4"	1.25 X 80° B	145	1.50	4	6
LD-40	BF5	SBT	1 3/4"	1.35 X 80° B	140	1.59	4	7.5
LD-50H	F10	SBT	1 3/4"	1.65 X 60° B	130	1.88	1.5	2.8
LD-50	F10	SBT	1 3/4"	1.75 X 60° B	145	2.10	1.5	4.2
LD-50	F10	SBT	1 3/4"	2.0 X 60° B	140	2.35	3	4
LD-60	F10	SBT	3 3/4"	2.50 X 60° B	130	2.85	4	6
LD-70	F15	LBT	8 1/2"	2.50 X 45° B	155	3.10	2	2.5
LD-70	F15	LBT	8 1/2"	2.75 X 45° B	150	3.35	3	2.6
MM-85	F3	SBT	2 1/4"	.60 X 60° W	180	0.80	1.5	4
MM-100	F3	SBT	2 1/4"	.75 X 60° W	175	0.99	2.5	7
MM-120	F5	SBT	2 1/4"	1.00 X 60° W	160	1.25	1.5	3.8
MM-150	F5	SBT	2 1/4"	1.20 X 60° W	160	1.50	3	5
MM-200	F10	SBT	2 1/4"	1.65 X 60° W	160	2.00	3	3.5
MM-250	F10	SBT	2 1/4"	2.00 X 60° W	160	2.50	3.5	6.8
MM-275	F10	SBT	2 1/4"	2.25 X 60° W	150	2.75	4	6.6



SLANT FIN LTD.

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
MM-300	F10	SBT	2 1/4"	2.50 X 60° W	150	3.05	4.5	6.7
MX-100	F5	SBT	2 1/4"	.75 X 60°/80° W	185	1.00	2.5	7
MX-120	F5	SBT	2 1/4"	1.00 X 60°/80° W	145	1.20	1.5	3.6
MX-150	F5	SBT	2 1/4"	1.20 X 60°/80° W	140	1.40	2.5	5
MX-200	F10	SBT	2 1/4"	1.65 X 60°/80° W	145	1.98	3.5	3.8
MX-250	F10	SBT	2 1/4"	2.00 X 60°/80° W	145	2.40	4.5	6.5
XL-20	F3	VSBT	2 5/16"	.60 X 80° B	140	0.70	0	3
XL-30 (A)	F5	VSBT	2 5/16"	.85 X 80° B	165	1.00	1	3
XL-30 (B)	F5	VSBT	2 5/16"	1.00 X 80° B	165	1.28	1	3.5
XL-40 (A)	F5	VSBT	2 5/16"	1.20 X 80° B	145	1.44	3	3.8
XL-40 (B)	F5	VSBT	2 5/16"	1.35 X 80° B	150	1.65	4	5
XL-20	BF3	SBT	1 3/4"	.55 X 90° W	140	0.65	0	4.7
XL-30H	BF3	SBT	1 3/4"	.70 X 90° W	150	0.85	3	4.8
XL-30	BF5	SBT	1 3/4"	.85 X 80° W	140	1.00	1	3.9
XL-30	BF5	SBT	1 3/4"	1.00 X 80° W	130	1.15	2	4.8
XL-40H	BF5	SBT	1 3/4"	1.00 X 60° W	160	1.25	3	4.8
XL-40	BF5	SBT	1 3/4"	1.10 X 45° W	150	1.35	4	4.7

TELEDYNE LAARS

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
.75	F3	SBT	N/A	.65 X 60° B	145	0.78	1	3
.75 D-MAX	BF5	SBT	N/A	.65 X 60° B	145	0.78	1	3.5
1.00	F5	SBT	N/A	.85 X 60° B	145	1.02	2	3.2
1.00 D-MAX	BF5	SBT	N/A	.85 X 60° B	145	1.02	1.5	4
1.20	F5	SBT	N/A	1.00 X 60° B	145	1.20	3	3.6
1.20 D-MAX	BF5	SBT	N/A	1.00 X 60° B	145	1.20	2	4.5
1.40 MAX	F10	SBT	N/A	1.25 X 60° B	145	1.50	1.5	2.6
1.65 MAX	F10	SBT	N/A	1.35 X 60° B	145	1.60	2	3.2

THERMA-FLOW (EVEROT)

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
E 30C	F3	SBT	6 1/8"	.60 X 80° W	150	0.75	0	2.6
E 50C	F3	SBT	6 1/8"	.75 X 80° A	160	0.95	1.5	2
E 30GL	F3	SBT	6 1/8"	.60 X 80° W	150	0.75	0	2.6
E 50GL	F3	SBT	6 1/8"	.75 X 80° A	160	0.95	1.5	2
E 70GL	F3	SBT	6 1/8"	.85 X 70° B	150	1.00	2	2.8
S 30GL	F3	SBT	6 1/8"	.60 X 80° B	160	0.75	1	2.5
S 50GL	F3	SBT	6 1/8"	.75 X 80° B	160	0.95	1.5	3.5

THERMO DYNAMICS / COLUMBIA

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
HT-90	F5	SBT	3 1/2"	.75 X 60° B	150	0.90	1.5	2
HT-100	F5	SBT	3 1/2"	.85 X 60° B	150	1.00	2	2.5
HT-110	F5	SBT	3 1/2"	.90 X 60° B	150	1.10	2.5	2.75
HT-125	F5	SBT	3 1/2"	1.00 X 60° B	150	1.22	2.5	3
HT-135	F5	SBT	3 1/2"	1.10 X 60° B	150	1.35	3.5	3.5
HT-150	F5	SBT	3 1/2"	1.25 X 60° B	150	1.50	4	4.5
HT-90	BF5	SBT	3 1/2"	.75 X 60° B	150	0.90	1.5	3.5
HT-100	BF5	SBT	3 1/2"	.85 X 60° B	150	1.00	2	4
HT-110	BF5	SBT	3 1/2"	.90 X 60° B	150	1.10	2.5	4.5
LM-75	BF5	SBT	3 1/2"	.65 X 60° W	150	0.79	.5	2.5
LM-100	BF5	SBT	3 1/2"	.75 X 60° W	150	0.90	2.5	3
LM-110	BF5	SBT	3 1/2"	.85 X 60° W	150	1.10	2.5	4.5
LM-125	F5	SBT	3 1/2"	1.00 X 60° A	150	1.22	1.5	3.8
LM-135	F5	SBT	3 1/2"	1.10 X 60° A	150	1.35	3.5	3.5
LM-150	F5	SBT	3 1/2"	1.25 X 60° A	150	1.50	4	4.3
S-85	F5	SBT	2"	.75 X 60° A	150	0.90	2.5	2.9
S-100	F5	SBT	2"	.85 X 60° A	150	1.00	2	4



THERMO DYNAMICS / COLUMBIA

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
S-110	F5	SBT	2"	.90 X 60° A	150	1.10	2.5	4
S-125	F5	SBT	2"	1.00 X 60° A	150	1.22	2.5	4.5
S-135	F5	SBT	2"	1.10 X 60° A	150	1.35	3.5	4.5
S-150	F5	SBT	2"	1.25 X 60° A	150	1.50	4	5.5
CWL-85	BF5	SBT	3 1/2"	.65 X 60° W	150	0.79	1.5	3
CWL-100	BF5	SBT	3 1/2"	.75 X 60° W	150	0.91	1.5	3.5
CWL-110	BF5	SBT	3 1/2"	.85 X 60° W	150	1.04	1.5	4
VTF-510	F5	SBT	3 1/2"	.85 X 60° B	150	1.00	2	4
VTF-560	F5	SBT	3 1/2"	.90 X 60° B	150	1.10	2.5	4
VTF-640	F5	SBT	3 1/2"	1.00 X 60° B	150	1.22	2.5	4.5
VTF-720	F5	SBT	3 1/2"	1.10 X 60° B	150	1.35	3.5	4.5
VTF-801	F5	SBT	3 1/2"	1.25 X 60° B	150	1.50	4	5.5
WB-90	F5	N/A	N/A	.75 X 60° B	150	0.91	N/A	N/A
WB-100	F5	N/A	N/A	.85 X 60° B	150	1.04	N/A	N/A
WB-110	F5	N/A	N/A	.90 X 60° B	150	1.10	N/A	N/A
WB-125	F5	N/A	N/A	1.00 X 60° B	150	1.22	N/A	N/A
WB-135	F5	N/A	N/A	1.10 X 60° B	150	1.34	N/A	N/A
WB-150	F5	N/A	N/A	1.25 X 60° B	150	1.53	N/A	N/A

THERMO PRIDE

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
OH3	F3	LBT	6"	.50 X 60° A	170	0.65	1.5	3.4
OC5/OL5/OH5/OT5	F3	LBT	6"	.60 X 60° A	145	0.72	1.5	3.4
OL11/OH11/OT11	F5	LBT	6"	.75 X 60° A	145	0.90	1.5	2.2
OL16/OH16/OT16	F5	LBT	6"	.90 X 60° A	145	1.08	1.5	2.6
OL20	F5	LBT	6"	1.10 X 60° A	150	1.34	2.5	2.9

TRANE / AMERICAN STANDARD

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
PFWF071A93ABA	F3	SBT	2.0"	.40 X 80° B	170	0.50	0	1.5
PFWF099A94ABAA	F3	SBT	2.0"	.55 X 80° B	160	0.69	1	2.5
PFWF132A95ABAA	F5	SBT	2.0"	.80 X 60° W	140	0.94	0	2.5
PFWF164A96ABAA	F5	SBT	2.0"	1.00 X 60° W	135	1.17	2	3
PFWF201A97ABAA	F5	SBT	2.0"	1.20 X 60° B	145	1.44	4	3.5
PFWF242A98ABAA	F10	SBT	2.0"	1.35 X 30° B	165	1.73	2	3.4
PFWF286A99ABAA	F10	SBT	2.0"	1.65 X 60° B	155	2.05	4	3.4
PFWF071A93ABA	F3	SBT	2.0"	.40 X 80° B	170	0.50	0	1.5
PFWF132A95ABAA	BF5	SBT	2.0"	.80 X 60° W	140	0.94	0	4
PFWF164A96ABAA	BF5	SBT	2.0"	1.00 X 60° W	135	1.17	2	5
PFWF201A97ABAA	BF5	SBT	2.0"	1.20 X 60° B	145	1.44	4	6.1

TRIANCO

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
TLM 90	F3	SBT	N/A	.60 X 60° B	140	0.70	1.5	3.4
TLM 100	F3	SBT	N/A	.75 X 60° B	140	0.88	3	4.3
TLM 115	F3	SBT	N/A	.85 X 60° B	140	1.00	3	4.6
TLM 125	F3	SBT	N/A	.90 X 60° B	140	1.10	2	2.6

TRIANGLE TUBE

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
F25	F3	SBT	2 1/2"	.60 X 70° A	185	0.81	0	3.8
F30	F5	SBT	2 1/2"	.75 X 80° W	150	0.91	.5	3
F35	F5	SBT	2 1/2"	.85 X 80° W	150	1.00	1	3.25
F40	F5	SBT	2 1/2"	1.00 X 60° W	135	1.17	2	3.3
F45	F5	SBT	2 1/2"	1.20 X 60° W	140	1.41	3	4.2
F25	BF3	SBT	2"	.60 X 70° A	180	0.80	1	6
F30	BF5	SBT	2 1/2"	.75 X 80° A	150	0.91	1	5
F35	BF5	SBT	2 1/2"	.85 X 80° A	150	1.00	2	7



TRIANGLE TUBE

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
HM-40	F5	SBT	2 1/2"	1.00X 60° W	135	1.17	4.2	3.3
HM-45	F5	SBT	2 1/2"	1.20 X 60° W	140	1.41	3	4.2
HM-80	F10	SBT	3 3/4"	1.25 X 60° W	155	1.55	3	4.2
HM-90	F10	SBT	3 3/4"	1.75 X 60° W	150	2.15	2.5	5
HM-100	F10	SBT	3 3/4"	2.0 X 70° W	165	2.56	5	6.5

TRIO BOILERS

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
P3	F5	SBT	N/A	.50 X 60° A	200	0.71	0.5	2.5
P3D	BF5	SBT	N/A	50 x 60° A	200	0.71	0.5	3.25
P4	F5	SBT	N/A	.65 X 60° A	200	0.92	0.5	3.25
P4D	BF5	SBT	N/A	.65 X 60° A	200	0.92	1.0	4.75
P5	F5	SBT	N/A	.85 X 60° A	200	1.20	4.0	3.00
P5D	BF5	SBT	N/A	.85 X 60° A	200	1.20	4.0	4.75
P6	F5	SBT	N/A	1.00 X 60° A	200	1.41	4.0	5.75
P7	F10	SBT	N/A	1.35 X 60° W	150	1.91	2.0	2.8

UTICA

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
BC3D OBC3	F5	SBT	4 3/4"	.65 X 60° W	150	0.79	0	1.6
BC3 OBC3	F5	SBT	4 3/4"	.85 X 60° W	150	1.00	1	2.6
BC4D OBC4D	F5	SBT	4 3/4"	.85 X 60° W	150	1.00	2	2
BC4 OBC4	F5	SBT	4 3/4"	1.10 X 60° W	150	1.34	3.5	3
O C SFH 365	F3	SBT	2 1/4"	.65 X 80° W	150	0.79	0	4
O C SFH 3100	F5	SBT	2 1/4"	.85 X 80° W	150	1.00	1	3.6
O C SFH 3125	F5	SBT	2 1/4"	1.10 X 60° W	150	1.34	3	4
O C SFH 4100	F5	SBT	2 1/4"	.85 X 80° W	150	1.00	1	3.6
O C SFH 4125	F5	SBT	2 1/4"	1.10 X 60° W	150	1.34	3	4
O C SFH 4150	F5	SBT	2 1/4"	1.25 X 60° W	150	1.53	4	6
O C SFH 5125	F5	SBT	2 1/4"	1.10 X 60° W	150	1.34	3	4
SFH 3125	F5	SBT	2 1/4"	1.10 X 60° W	150	1.34	3	4

UTICA

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
O C SFH 5175	F10	SBT	2 1/4"	1.50 X 80° B	150	1.83	0	3.6
O C SFH 5200	F10	SBT	2 1/4"	1.75 X 80° B	150	2.15	0	5
O C SW3	BF3	SBT	2 1/4"	.60 X 80° W	150	0.73	2	4
O C SW4	BF5	SBT	2 1/4"	.85 X 80° W	150	1.00	3	4.25
O C SW5	BF5	SBT	2 1/4"	1.10 X 60° W	150	1.34	4	5.55
SFH 365	F3	SBT	2 1/4"	.65 X 80° W	150	0.79	0	4
SFH 3100	F5	SBT	2 1/4"	.85 X 80° W	150	1.00	1	3.6
SFH 4100	F5	SBT	2 1/4"	.85 X 80° W	150	1.00	1	3.6
SFH 4125	F5	SBT	2 1/4"	1.10 X 60° W	150	1.34	3	4
SFH 4150	F5	SBT	2 1/4"	1.25 X 60° W	150	1.53	4	6
SFH 5125	F5	SBT	2 1/4"	1.10 X 60° W	150	1.34	3	4
SFH 5175	F10	SBT	2 1/4"	1.50 X 80° B	150	1.83	0	3.6
SFH 5200	F10	SBT	2 1/4"	1.75 X 80° B	150	2.15	0	5
SW 3	BF3	SBT	2 1/4"	.60 X 80° W	150	0.73	2	4
SW 4	BF5	SBT	2 1/4"	.85 X 80° W	150	1.00	3	4.25
SW 5	BF5	SBT	2 1/4"	1.10 X 60° B	150	1.34	4	5.5

VAILLANT

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
F70 / 75-40	F3	SBT	3 1/2"	.60 X 60° A	140	0.70	0	3
F70 / 75-45	F3	SBT	3 1/2"	.75 X 80° A	140	0.88	0	5
F70 / 75-50	F5	SBT	3 1/2"	.75 X 60° A	175	0.99	1	2.6
F70 / 75-55	F5	SBT	3 1/2"	1.00 X 60° A	155	1.25	1	3.1
F70 / 75-60	F10	SBT	3 1/2"	1.35 X 60° B	150	1.65	0	2.5
F70 / 75-70	F10	SBT	3 1/2"	1.50 X 60° B	145	1.80	0	3
F70 / 75-80	F10	SBT	3 1/2"	1.75 X 60° B	140	2.05	0	3.2



VAILLANT

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
F100-HE-30	F3	SBT	3 1/2"	.60 X 60° A	140	0.70	0	2.4
F100-HE-35	F3	SBT	3 1/2"	.65 X 60° A	160	0.82	0	3.7
F100-HE-40	F5	SBT	3 1/2"	.75 X 60° A	140	0.88	.5	2.4
F100-HE-45	F5	SBT	3 1/2"	1.00 X 60° A	155	1.25	1.5	4.5
F100-HE-50	F5	SBT	3 1/2"	1.20 X 60° A	140	1.40	1.5	5.4
F100-HE-55	F10	SBT	3 1/2"	1.50 X 60° B	150	1.83	1	3.5
F100-HE-60	F10	SBT	3 1/2"	1.60 X 60° B	145	1.92	1.9	5

VEGA / NECA

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
* M 3	F3	SBT	4"	.40 X 60° A	165	0.50	0	2
* M 4	F3	SBT	4"	.50 X 60° W	200	0.70	0	3
* M 5	F3	SBT	4"	.75 X 60° W	145	0.90	3	5
* M 6	F5	SBT	4"	1.00 X 60° W	140	1.18	3	3.6
* M 7	F5	SBT	4"	1.10 X 60° W	170	1.43	3	6
MA 6	F5	SBT	2 1/4"	1.25 X 60° W	145	1.50	4	5.3
MA 6	F10	SBT	2 1/4"	1.25 X 60° W	175	1.65	0	3.2
MA 7	F10	SBT	2 1/4"	1.50 X 60° B	175	1.98	1.5	4.1
MA 8	F10	SBT	2 1/4"	1.75 X 60° B	165	2.25	2.5	5
MA 9	F10	SBT	2 1/4"	2.00 X 60° B	165	2.55	4	5.8

* Mounting flange extension collar of 2 1/2" is required.

VISSMANN

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
BEA 18	F3	SBT	5 3/4"	.50 X 60° W	165	0.61	0	2.8
BEA 22	F3	SBT	5 3/4"	.65 X 60° W	165	0.83	2	2.8
BEA 29	F5	SBT	5 3/4"	.85 X 60° W	145	1.02	3	3
BEA 35	F5	SBT	5 3/4"	1.00 X 60° W	180	1.34	3	3.1
BEA 46	F5	SBT	5 3/4"	1.25 X 60° W	175	1.65	4	4
BEA 58	F10	SBT	5 3/4"	1.65 X 60° W	180	2.21	3	3.8

VISSMANN

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
VB2-18	F3	LBT	9 3/4"	.50 X 60° SS	150	0.60	2	2.8
VBC-22	F3	LBT	9 3/4"	.60 X 60° A	170	0.78	3	3.8
VB2-33	F5	LBT	9 3/4"	.85 X 60° AH	145	1.02	3	3
VB2-40	F5	LBT	5 3/4"	1.00 X 60° W	170	1.30	4	3.8
VB2-50	F10	LBT	5 3/4"	1.25 X 60° B	165	1.60	1	3
VB2-63	F10	LBT	5 3/4"	1.65 X 45° B	175	2.18	4	4
VR1-22	F3	7" BT	4 5/8"	.50 X 60° SS	175	0.65	0	3.1
VR1-22	BF3	SBT	4 1/4"	.50 X 60° SS	169	0.65	0	3.7
VR1-27	F3	7" BT	4 5/8"	.60 X 60° W	175	0.79	2	3.4
VR1-27	BF3	SBT	4 1/4"	.60 X 60° W	156	0.75	1	5
VR1-33	F5	7" BT	4 1/4"	.75 X 60° W	175	1.00	.8	2.9
VR1-33	BF5	SBT	4 1/4"	.85 X 60° W	140	1.00	1	4
VR1-40	F5	7" BT	4 1/4"	1.00 X 60° W	175	1.32	1	3.5
VR1-50	F5	7" BT	4 1/4"	1.10 X 60° A	175	1.45	3	3.6
VR1-63	F10	7" BT	4 3/4"	1.35 X 60° SS	175	1.78	2	2.8

WEIL MCLAIN

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
G0-2	F5	SBT	3"	.60 X 60° B	135	0.70	0	2.1
G0-3	F5	SBT	3"	.75 X 60° B	160	0.95	.5	3.1
G0-4	F5	SBT	3"	1.00 X 60° B	155	1.24	3	4.5
G0-5	F5	SBT	3"	1.45 X 60° B	140	1.71	4	7.5
G0-6	F10	SBT	3"	1.50 X 60° B	135	1.75	2	2.7
G0-7	F10	SBT	3"	1.65 X 60° B	145	1.98	2	3.6
G0-8	F10	SBT	3"	2.00 X 60° B	130	2.28	3	4
G0-9	F10	SBT	3"	2.25 X 60° B	130	2.55	5	3.7
* U0-3	F5	SBT	4 1/4"	.65 X 70° B	150	0.80	0	1.7
U0-3	BF5	SBT	4 1/4"	.65 X 70° B	150	0.80	0	3.2
*U0-3	F5	SBT	4 1/4"	Del .85 X 60° AR	145	1.00	1	2.4
U0-3	BF5	SBT	4 1/4"	.85 X 60° B	145	1.00	1	4.1



WEIL MCLAIN

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
* U0-4	F5	SBT	4 1/4"	1.00 X 70° B	145	1.20	3	2.5
U0-4	BF5	SBT	4 1/4"	1.00 X 70° B	145	1.20	3	4.4
* U0-5	F5	SBT	4 1/4"	1.10 X 70° B	160	1.40	4	2.7
U0-5	BF5	SBT	4 1/4"	1.10 X 70° B	160	1.40	4	4.9
WG0-2	F5	SBT	3"	.60 X 60° B	135	0.70	0	2.1
WG0-3	F5	SBT	3"	.75 X 60° B	160	0.95	.5	3.1
WG0-4	F5	SBT	3"	1.00 X 60° B	155	1.24	3	4.5
WG0-5	F5	SBT	3"	1.45 X 60° B	140	1.71	4	7.5
WG0-6	F10	SBT	3"	1.50 X 60° B	135	1.75	2	2.7
WG0-7	F10	SBT	3"	1.65 X 60° B	145	1.98	2	3.6
WG0-8	F10	SBT	3"	2.00 X 60° B	130	2.28	3	4
WG0-9	F10	SBT	3"	2.25 X 60° B	130	2.55	5	3.7
268	F5	SBT	3"	.60 X 60° B	125	0.67	0	1.8
368	F5	SBT	3"	.75 X 60° B	155	0.93	0	2.9
468	F5	SBT	3"	1.00 X 60° B	165	1.28	2.5	3.9
568	F5	SBT	3"	1.20 X 60° B	166	1.54	4	3.8
668	F10	SBT	3"	1.50 X 60° B	145	1.80	1.5	3.4
758	F10	SBT	3"	1.75 X 60° B	145	2.10	3	3.5
868	F10	SBT	3"	1.75 X 60° B	175	2.31	3.5	4.1
968	F10	SBT	3"	2.00 X 60° B	180	2.68	4	6
* For replacement only use OEM burners.								

WILLIAMSON-THERMOFLO

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
CLB 105 DD CHB 105 DD	F3	SBT	5 1/2"	.55 X 60° B	155	0.68	1	1.75
	F3	SBT	5 1/2"	.60 X 60° B	155	0.75	2	2.75
	F3	SBT	5 1/2"	.75 X 60° B	155	0.93	2	3.75
CHB 140 DD/CLB 140 FDD CLB 140 RDD	F5	LBT	8"	.85 X 60° B	140	1.00	1	2.5
	F5	LBT	8"	1.10 X 60° B	130	1.25	2	3.5

WILLIAMSON-THERMOFLO

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
OSB-3	F5	SBT	3 5/8"	.85 X 80° B	185	1.15	0	3.4
OSB-4	F5	SBT	3 5/8"	1.00 X 80° B	150	1.22	1	3.7
OSB-4	F5	SBT	3 5/8"	1.10 X 80° B	150	1.34	2	5
OSB-5	F5	SBT	3 5/8"	1.20 X 80° B	150	1.46	4	4.3
OSB-5	F10	SBT	3 5/8"	1.25 X 60° B	170	1.62	1	3.8
OSB-5	F10	SBT	3 5/8"	1.35 X 60° B	185	1.83	1	5
OSB-6	F10	SBT	3 5/8"	1.50 X 60° B	155	1.86	3	3.4
OSB-6	F10	SBT	3 5/8"	1.65 X 45° B	170	2.15	3	4.5
OWB-3	F5	SBT	3 5/8"	.65 X 80° B	180	0.87	0	2.4
OWB-3	F5	SBT	3 5/8"	.85 X 80° B	185	1.15	0	3.4
OWB-4	F5	SBT	3 5/8"	1.00 X 80° B	150	1.22	1	3.7
OWB-4	F5	SBT	3 5/8"	1.10 X 80° B	150	1.34	2	5
OWB-5	F5	SBT	3 5/8"	1.20 X 80° B	150	1.46	4	4.3
OWB-5	F10	SBT	3 5/8"	1.25 X 60° B	170	1.62	1	3.8
OWB-5	F10	SBT	3 5/8"	1.35 X 60° B	185	1.83	1	5
OWB-6	F10	SBT	3 5/8"	1.50 X 60° B	155	1.86	3	3.4
OWB-6	F10	SBT	3 5/8"	1.65 X 45° B	170	2.15	3	4.5
RB-TMP-210	F3	SBT	5 1/2"	.60 X 60° A	155	0.75	0	4
PLB-PMP-210	F5	VSBT	3 9/16"	1.00 X 70° W	145	1.20	2.5	2
RB-PLB-350	F10	SBT	3 9/16"	2.25 X 60° B	145	2.70	4	3.6

WR BENJAMIN

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
CC500R	F5	SBT	4 1/8"	.75 X 80° B	145	0.90	1.5	3.5
CC500R	F5	SBT	4 1/8"	.85 X 80° B	145	1.02	3.25	3.75
FS 140R	F5	SBT	4"	.75 X 80° W	145	0.90	1.5	3.5
FS 140R	F5	SBT	4"	.85 X 80° W	145	1.02	3.3	3.8
OB-85 BF3	BF3	SBT	3 1/8"	.65 X 80° W	130	0.75	1.5	5.5
OB-100 BFF3	BF3	SBT	3 1/8"	.75 X 80° W	140	0.88	3	5.8



WR BENJAMIN

Appliance Model	Burner Model	Air Tube	Insertion Length	Nozzle	Pump PSI	In-put GPH	Head Setting	Air Setting
OB-120 BFF5	BF5	SBT	3 1/8"	.85 X 60° W	145	1.00	2	4.5
OB-150 BF5	BF5	SBT	3 1/8"	1.10 X 60° W	135	1.25	3	6
OB-R105	F3	SBT	3 1/2"	.75 X 60° A	130	0.85	.5	7.8
OB-R120	F5	SBT	3 1/8"	.85 X 60° W	140	1.00	1	3.2
OB-R150	F5	SBT	3 1/8"	1.00 X 60° W	155	1.25	2	5.6
OB-R180	F5	SBT	3 1/8"	1.25 X 60° W	145	1.50	3	8
OB-R215	F10	SBT	3 1/2"	1.50 X 80° W	165	1.92	2	3.2
OB-R250	F10	SBT	3 1/2"	1.75 X 45° B	165	2.24	3	4
OB-R275	F10	SBT	3 1/2"	2.00 X 30° W	140	2.36	4	4.5
OB-R300	F10	SBT	3 1/2"	2.25 X 45° B	145	2.70	5	5.5
OR102	F5	SBT	4"	.75 X 80° AR	130	0.85	1.5	3.5
OR102	F5	SBT	4"	.85 X 80° AR	140	1.00	3.3	3.8

TECHNICAL DATA

MECTRON AND F40 SERIES TROUBLE SHOOTING GUIDE

THERMOSTAT CLOSED (CALLING FOR HEAT) AND OPERATING LIMITS CLOSED

RESET CONTROL BOX (PRESS RED BUTTON)

BURNER STARTS

BURNER REMAINS IN PRE-PURGE

- 00 First **CHECK** IF CAD CELL MAY BE SENSING LIGHT DURING PRE-PURGE BY REMOVING CAD CELL AND CHECKING RESISTANCE VALUE – LESS THAN 40,000 OHMS WITH LIGHT OR MORE THAN 150,000 OHMS WITHOUT LIGHT (ALTERNATIVE IS TO REMOVE CAD CELL AND RESET BURNER – IF BURNER LOCKS OUT, CAD CELL SHOULD BE REPLACED)
 - 00 THEN **CHECK** VISUALLY TO ENSURE GOOD CONTACT BETWEEN CONTROL BOX AND SUB-BASE
 - 00 THEN **CHECK** SUB-BASE FOR MIS-WIRED TERMINALS
 - 00 THEN **CHECK** FOR "OPEN" CIRCUIT BETWEEN TERMINALS 2 & 8 – IF "OPEN" CIRCUIT FOUND THE COIL SHOULD BE REPLACED
 - 00 THEN **CHECK** TO ENSURE VOLTAGE BETWEEN TERMINALS 3 & 7 WITHIN RANGE OF 39VAC – 51VAC
- IF THE CONDITION PERSISTS, THE CONTROL BOX IS LIKELY FAULTY AND SHOULD BE REPLACED

BURNER CONTINUES TO CYCLE THROUGH PRE-PURGE AND IGNITION WITH IMMEDIATE FLAME DROPOUT

- 00 First **CHECK** BURNER SETTINGS FOR COMPLIANCE WITH SPECIFICATIONS
 - 00 THEN **CHECK** COIL FOR MISSING METAL YOKE/BRACKET
 - 00 THEN **CHECK** CAD CELL BY REMOVING CAD CELL AND CHECKING RESISTANCE VALUE – LESS THAN 40,000 OHMS WITH LIGHT OR MORE THAN 150,000 OHMS WITHOUT LIGHT (ALTERNATIVE IS TO REMOVE CAD CELL AND RESET BURNER – IF BURNER LOCKS OUT THE CAD CELL SHOULD BE REPLACED)
 - 00 THEN **CHECK** SUB-BASE FOR MIS-WIRED TERMINALS
 - 00 THEN **CHECK** TO ENSURE RESISTANCE OF COIL ON TERMINALS 1 & 2 WITHIN RANGE OF 1215 OHMS – 1485 OHMS
 - 00 THEN **CHECK** PUMP VALVE STEM CONDITION BY REMOVING VALVE STEM AND ENSURING PISTON/PLUNGER OPERATES FREELY – IF NOT OPERATING PROPERLY THE VALVE STEM SHOULD BE REPLACED
- IF THE CONDITION PERSISTS, THE CONTROL BOX IS LIKELY FAULTY AND SHOULD BE REPLACED

BURNER LOCKS OUT AFTER TRIAL FOR IGNITION

- 00 First **CHECK** OIL SUPPLY – FOR POSSIBLE EMPTY TANK, CLOSED VALVE, DIRTY FILTER, DAMAGED SUPPLY LINES, ETC.
- 00 THEN **CHECK** COIL FOR MISSING METAL YOKE/BRACKET
- 00 THEN **CHECK** IF CAD CELL FAILS TO SENSE FLAME DURING IGNITION BY REMOVING CAD CELL AND CHECKING RESISTANCE VALUE – LESS THAN 40,000 OHMS WITH LIGHT OR MORE THAN 150,000 OHMS WITHOUT LIGHT (ALTERNATIVE IS TO REMOVE CAD CELL AND RESET BURNER – IF BURNER LOCKS OUT, CAD CELL SHOULD BE REPLACED)
- 00 THEN **CHECK** TO ENSURE PUMP VACUUM IS WITHIN RANGE OF 0 – 11" Hg
- 00 THEN **CHECK** TO ENSURE OIL PRESSURE IS WITHIN APPROPRIATE RANGES OF 20 – 80 PSI IN PRE-PURGE MODE AND 120 – 200 PSI IN FIRING MODE
- 00 THEN **CHECK** CONNECTION, SETTINGS AND CONDITION OF IGNITION ELECTRODES – CLEAN OR REPLACE IF NECESSARY
- 00 THEN **CHECK** BREECH OR OVERFIRE DRAFT – REDUCE EXCESSIVE DRAFT CONDITIONS
- 00 THEN **CHECK** NOZZLE AND PUMP STRAINER AND REPLACE IF NECESSARY
- 00 THEN **CHECK** PUMP VALVE STEM CONDITION BY REMOVING VALVE STEM AND ENSURING PISTON/PLUNGER OPERATES FREELY – REPLACE IF NOT OPERATING FREELY
- 00 THEN **CHECK** TO ENSURE RESISTANCE OF COIL ON TERMINALS 2 & 8 IS WITHIN RANGE OF 1.3 OHM ± 10%
- 00 THEN **CHECK** TO ENSURE PUMP DRIVE KEY IS IN PLACE AND IN GOOD CONDITION

IF THE CONDITION PERSISTS, THE CONTROL BOX IS LIKELY FAULTY AND SHOULD BE REPLACED

BURNER DOES NOT START

- 00 **CHECK** POWER SUPPLY AT SUB-BASE (BETWEEN L & N) TO ENSURE VOLTAGE WITHIN RANGE OF 102VAC – 132VAC

NO VOLTAGE

- 00 First **CHECK** SYSTEM FUSE AND ENSURE SERVICE SWITCH IS ON
- 00 THEN **CHECK** TO ENSURE ALL CONTROL LIMITS ARE CLOSED
- 00 THEN **CHECK** THERMOSTAT OR 24V RELAY FOR 0VAC

VOLTAGE WITHIN RANGE

- 00 First **TURN OFF** POWER SUPPLY
- 00 THEN **PLACE** A JUMPER BETWEEN SUB-BASE TERMINALS 5 & 6
- 00 THEN **TURN ON** POWER SUPPLY

MOTOR RUNS

- 00 First **CHECK** TO ENSURE VOLTAGE BETWEEN TERMINALS 3 & 7 WITHIN RANGE OF 39VAC – 51VAC
 - 00 THEN **CHECK** VISUALLY TO ENSURE GOOD CONTACT BETWEEN CONTROL BOX AND SUB-BASE
- IF THE CONDITION PERSISTS, THE CONTROL BOX IS LIKELY FAULTY AND SHOULD BE REPLACED

MOTOR DOES NOT RUN

- 00 First **CHECK** ELECTRICAL CONNECTIONS
 - 00 THEN **CHECK** FOR AND REPLACE SEIZED PUMP/MOTOR
 - 00 THEN **CHECK** FOR DEFECTIVE (PSC) MOTOR CAPACITOR – IF MOTOR HUMS THE CAPACITOR SHOULD BE REPLACED
 - 00 THEN **WAIT** UNTIL MOTOR COOLS AND **RESET** CONTROL BOX
- IF THE CONDITION PERSISTS, THE MOTOR LIKELY SHUT DOWN ON A THERMAL OVERLOAD AND SHOULD BE REPLACED

FOR **TECHNICAL**
SUPPORT CALL
1-8004-RIELLO
(1-800474-3556)



TECHNICAL DATA

NOZZLE CAPACITIES Operating Pressure: Pounds per square inch

GPH @ 100 psi	125	140	150	175	200	250	275	300
.40	.45	.47	.49	.53	.56	.63	.66	.69
.50	.56	.59	.61	.66	.71	.79	.83	.87
.60	.67	.71	.74	.79	.85	.95	1.00	1.04
.65	.73	.77	.80	.86	.92	1.03	1.08	1.13
.75	.84	.89	.92	.96	1.06	1.19	1.24	1.30
.85	.95	1.01	1.04	1.13	1.20	1.34	1.41	1.47
.90	1.01	1.07	1.10	1.19	1.27	1.42	1.49	1.56
1.00	1.12	1.18	1.23	1.32	1.41	1.58	1.66	1.73
1.10	1.23	1.30	1.35	1.46	1.56	1.75	1.82	1.91
1.20	1.34	1.42	1.47	1.59	1.70	1.90	1.99	2.08
1.25	1.39	1.48	1.53	1.65	1.77	1.98	2.07	2.17
1.35	1.51	1.60	1.65	1.79	1.91	2.14	2.24	2.34
1.50	1.68	1.77	1.84	1.98	2.12	2.37	2.49	2.60
1.65	1.84	1.95	2.02	2.18	2.33	2.61	2.73	2.86
1.75	1.96	2.07	2.14	2.32	2.48	2.77	2.90	3.03
2.00	2.24	2.37	2.45	2.65	2.83	3.16	3.32	3.46
2.25	2.52	2.66	2.76	2.98	3.18	3.56	3.73	3.90
2.50	2.80	2.96	3.06	3.31	3.54	3.95	4.15	4.33
2.75	3.07	3.25	3.37	3.64	3.90	4.35	4.56	4.76
3.00	3.35	3.55	3.67	3.97	4.24	4.74	4.97	5.20
3.25	3.63	3.85	3.98	4.30	4.60	5.14	5.39	5.63
3.50	3.91	4.14	4.29	4.63	4.95	5.53	5.80	6.06
3.75	4.19	4.44	4.59	4.96	5.30	5.93	6.22	6.50
4.00	4.47	4.73	4.90	5.29	5.66	6.32	6.63	6.93
4.50	5.04	5.32	5.51	5.95	6.36	7.11	7.46	7.79
5.00	5.59	5.92	6.12	6.61	7.07	7.91	8.29	8.66
5.50	6.15	6.51	6.74	7.27	7.78	8.70	9.12	9.53
6.00	6.71	7.10	7.35	7.94	8.49	9.49	9.95	10.39
6.50	7.26	7.69	7.96	8.60	9.19	10.28	10.78	11.26
7.00	7.82	8.28	8.57	9.25	9.90	11.07	11.61	12.12
7.50	8.38	8.87	9.19	9.91	10.61	11.86	12.44	12.99
8.00	8.94	9.47	9.80	10.58	11.31	12.65	13.27	13.86
8.50	9.50	10.06	10.41	11.27	12.02	13.44	14.10	14.72
9.00	10.06	10.65	11.02	11.91	12.73	14.23	14.93	15.59
9.50	10.60	11.24	11.64	12.60	13.44	15.02	15.75	16.45
10.00	11.18	11.83	12.25	13.23	14.14	15.81	16.58	17.32

NOZZLE MANUFACTURERS AND SPRAY PATTERNS

DANFOSS	DELAVAN	HAGO	MONARCH	STEINEN
AS – SOLID	A – HOLLOW	ES – SOLID	R – SOLID	S – SOLID
AH – HOLLOW	B – SOLID	P – SOLID	NS – HOLLOW	SS – SEMI-SOLID
AB – SEMI-SOLID	W – ALL PURPOSE	SS – SEMI-SOLID	AR – SPEC.SOLID	H – HOLLOW
	SS – SEMISOLID	H – HOLLOW	PL – HOLLOW	
			PLP – SEMI-SOLID	

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