

Commercial Gas and Oil Burner Selection Guide

CONTENTS:

CG10 Conversion Burner
Commercial Gas Burner Selection Guide
Commercial Gas Burner Chassis Specifications
MASS Code Chassis & Gas Trains
Commercial Gas Burner Options
Commercial Oil Burner Selection Guide
Commercial Oil Burner Adders
Commercial Flanges & Pedestal Kits
Commercial Panel Packages - Oil & Gas Burners
Cross Reference Sheet Commercial Oil & Gas Burners
Replacement Parts
CG10 Gas Burner Assembly
CG15, CG25, CG50 Gas Burner Assembly
CF375, CF500, CF800 Oil Burner Assembly
CF1000 thru CF3500 Oil Burner Assembly
Reference Material
Limited Warranty Information

BECKETT COMMERCIAL PRODUCTS

MAIL: P.O. Box 1289 Elyria, OH 44036

SHIP: 38251 Center Ridge Rd. North Ridgeville,
OH 44039

PHONE: (800) 645-2876

FAX: (888) 327-4811

beckettcorp.com

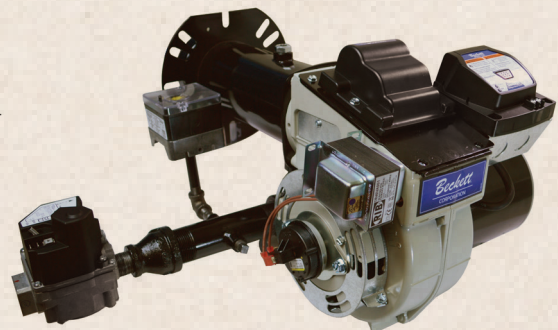
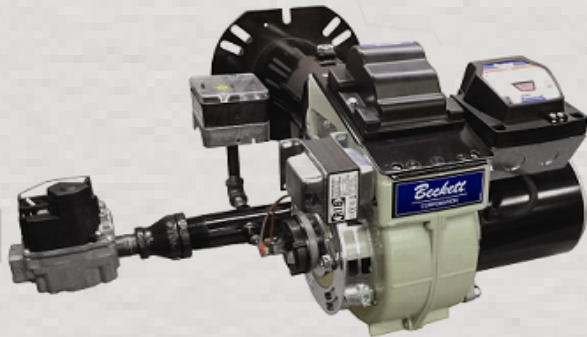


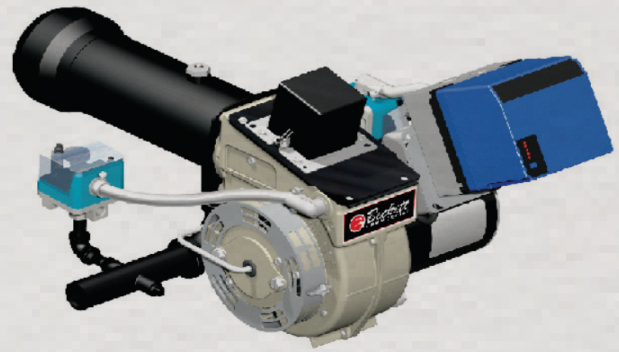
Table of Contents

Description	Page
Commercial Gas Burners	
CG10 & CG10-24 Gas Chassis	3
Commercial Gas Burner - Chassis	4
Commercial Gas Burner - Welded Insertions & Universal Tubes/ Adjustable Flanges	5-21
Options	
Options, Kits and Panels packages	22
Panel Spec Sheet	23-24
Full Modulation Spec Sheet	25
Propane Conversion Kit	26-27
Specs sheets	
Commercial Gas Burners	28-37
Commercial Oil Burners	
Commercial Oil Burner - Chassis	38
Commercial Oil Burner - Welded Insertions	39-45
Flanges & Pedestal Kits	46
Specs sheets	
Commercial Oil Burners	46-61
Exploded Parts Drawings	
Commercial Gas Burner - CG10-24, CG10 and CG15, CG25, CG50 Burners	62-70
Commercial Oil Burner - CF375, CF500, CF800 Burners	71
Commercial Oil Burner - CF1400, CF2300, CF2500, CF3500 Burners	72-75

CG10 & CG10-24 Gas Burner - Chassis



CG10-24



CG10

CG10-24 Chassis with Beckett 7590C Control and Flame Rod

Part #	Burner Model	Rate Control	Control	Operating Range	24V Gas Train Size
CG10024	CG10	On / Off	7590C	300-399MBH	3/4" on/off
CG10025	CG10	On / Off	7590C	300-600MBH	1" UL on/off
CG10026	CG10	On / Off w/LFS	7590C	300-600 MBH	1" UL 2 STG
CG10027	CG10B	On / Off w/LFS	7590C	600-1000 MBH	1" UL 2 STG
CG10028	CG10A	On / Off w/LFS	7590C	963-1000 MBH	1" UL 2 STG

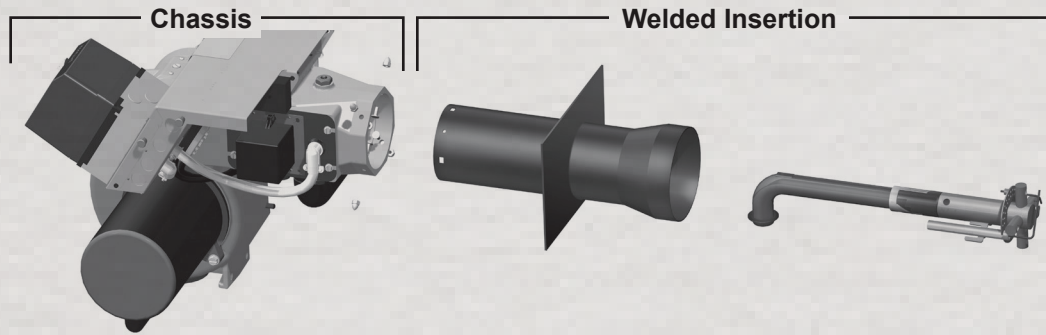
CG10 Chassis with Honeywell RM7897A UV

Part #	Burner Model	Rate Control	Control	120V Gas Train Size
CG10015	CG10	On / Off w/LFS	RM7897A	1" UL 2 STG
CG100143	CG10A	On / Off w/LFS	RM7897A	1-1/4" UL 2 STG
CG10018	CG10A	On / Off w/LFS	RM7897A	1" UL 2 STG
CG10022	CG10B	On / Off w/LFS	RM7897A	1" UL 2 STG

When Quoting a Conversion Burner:

- Do not quote for appliance that is older than 15 years
- Please quote double action draft regulator, thermal safety switch & chamber kit
- Please advise contractor that heat exchanger must be cleaned
- Verify inlet gas pressure Min 4" W.C. Max 14" W.C. (may need to add regulator)

Commercial Gas Burner - Chassis



Ordering Note: Complete gas burners are ordered by Chassis Part Number + Welded Insertion Part Number.

Commercial Gas Burner Chassis Specifications

Part #	Burner Model	Rate Control	Control	Gas Train Size
CG150210	CG15	Low/High/Low	RM7897C	1" UL 2 STG
CG150229	CG15	Low/High/Low	RM7897C	1-1/4" UL 2 STG
CG150230	CG15	Low/High/Low	RM7897C	1-1/4" UL 5PSI 2 STG
CG150242	CG15	Low/High/Low	RM7897C	1-1/4" UL 2 STG
CG150245	CG15	Low/High/Low	RM7897C	1-1/2" UL 2 STG
CG250216	CG25	Low/High/Low	RM7897C	1-1/2" UL 2 STG
CG250232	CG25	Low/High/Low	RM7897C	2" UL 2 STG
CG250256	CG25	Low/High/Low	RM7897C	1-1/2" UL 2 STG
CG500266	CG50 480V 3PH	Low/High/Low	RM7897C	2-1/2" UL 2 STG
CG500238	CG50 208-230V 3PH	Low/High/Low	RM7987C	2" UL 2 STG
CG500239	CG50 208V 1Ph	Low/High/Low	RM7897C	2" UL 2 STG
CG500248	CG50 208V 1Ph	Low/High/Low	RM7897C	2" UL 5 PSI Gas Train
CG500265	CG50 208V 1Ph	Low/High/Low	RM7897C	2-1/2" UL 2 STG
CG500281	CG50	Low/High/Low	RM7897C	1-1/2" UL 2 STG

** Indicates Gas Train will NOT meet MASS CODE

When Quoting a Commercial Gas Burner:

- Verify inlet gas pressure Min 6" W.C. Max 14" W.C.
- If inlet gas pressure exceeds 14" W.C, high pressure gas train must be quoted

Commercial Gas Burner OEM Specs

Aldrich. WHG Series Standard Gas Pressure Specs

Boiler Model	Part Number	Firing Rate (Max. MBH)	Burner Model	Head	*Manifold Pressure	*Minimum Gas Supply	Pipe Size	Welded Insertion
WHG-38	CG10026	405	CG10-24	10.1	2.50	3.90	1"	CALL RWB
WHG-47	CG10026	495	CG10-24	10.2	2.50	4.00	1"	CALL RWB
WHG-56	CG10027	585	CG10-24	10.3	2.10	4.27	1"	CALL RWB
WHG-64	CG10027	675	CG10-24	10.4	2.75	4.60	1"	CALL RWB
WHG-77	CG10027	810	CG10-24	10.5	3.70	5.50	1"	CALL RWB
WHG-95	CG10027	990	CG10-24	10.6	3.60	5.69	1"	CALL RWB
WHG-110	CG150229	1,170	CG15	15.2S	4.00	5.47	1-1/4"	CALL RWB
WHG-129	CG150229	1,350	CG15	15.3S	3.80	5.80	1-1/4"	CALL RWB
WHG-150	CG250216	1,750	CG25	25.2S	3.90	6.53	1-1/2"	CALL RWB

Armstrong LG-14 Standard Gas Pressure Specs

Boiler Model	Part Number	Firing Rate (Max. MBH)	Burner Model	Head	*Manifold Pressure	*Minimum Gas Supply	Pipe Size	Welded Insertion
280	CG10026	437	CG10-24	10.1	1.90	3.75	1"	51989180
350	CG10026	551	CG10-24	10.1	2.90	4.33	1"	51989180
420	CG10027	678	CG10-24	10.3	1.30	3.97	1"	51989181
500	CG10027	800	CG10-24	10.3	1.80	4.00	1"	51989181

*Pressure=Inches w.c.
Maximum pressure 14" w.c.

Commercial Gas Burner OEM Specs

Buderus . G315, G515, G615 and SB Series Standard Gas Pressure Specs

Boiler Model	Part Number	Firing Rate (Max. MBH)	Burner Model	Head	*Manifold Pressure	*Minimum Gas Supply	Pipe Size	Welded Insertion
G315-5	CG10026	437	CG10-24	10.2	1.80	3.17	1"	51989075
G315-6	CG10026	551	CG10-24	10.3	2.10	4.27	1"	51989076
G315-7	CG10027	678	CG10-24	10.4	3.60	5.91	1"	51989077
G315-8	CG10027	800	CG10-24	10.5	3.80	5.70	1"	51989078
G315-9	CG10027	906	CG10-24	10.6	3.90	5.80	1"	51989079
G515-7	CG150242	1,005	CG15	15.2S	4.10	5.55	1-1/4"	51989124
G515-8	CG150242	1,199	CG15	15.4S	2.90	4.78	1-1/4"	51989125
G515-9	CG250216	1,450	CG25	25.1S	3.90	5.28	1-1/2"	51989126
G515-10	CG250216	1,641	CG25	25.2S	4.00	5.57	1-1/2"	51989104
G515-11	CG250216	1,900	CG25	25.3S	4.20	6.01	1-1/2"	51989105
G515-12	CG500239	2,208	CG50	50.1S	4.00	5.35	2"	51989106
G615-9	CG500239	2,331	CG50	50.1S	3.45	4.96	2"	51989107
G615-10	CG500239	2,670	CG50	50.2S	3.65	5.40	2"	51989108
G615-11	CG500239	3,031	CG50	50.3S	4.27	6.53	2"	51989109
G615-12	CG500239	3,392	CG50	50.4S	4.60	6.98	2"	51989110
G615-12	CG500265	3,392	CG50	50.4S	4.60	5.95	2-1/2"	51989110
G615-13	CG500265	3,753	CG50	50.4S	4.15	6.34	2-1/2"	51989110
G615-14	CG500265	4,134	CG50	50.5S	4.60	7.27	2-1/2"	51989111
SB-145	CG10026	497	CG10-24	10.3S	1.80	3.56	1"	51989112
SB-185	CG10027	644	CG10-24	10.4S	1.70	3.08	1"	51989113
SB-240	CG10027	835	CG10-24	10.5S	2.00	3.62	1"	51989114
SB-240	CG150210	835	CG15	15.1S	3.90	5.52	1"	51989115
SB-310	CG10027	1,080	CG10-24	10.6S	2.40	4.67	1"	51989116
SB-310	CG150210	1,080	CG15	15.3S	3.40	5.67	1-1/4"	51989117
SB-400	CG250216	1,393	CG25	25.1S	4.10	5.38	1-1/2"	51989118
SB-510	CG250216	1,776	CG25	25.3S	4.10	5.93	1-1/2"	51989119
SB-640	CG500239	2,214	CG50	50.1S	4.10	5.46	2"	51989120
SB-790	CG500239	2,802	CG50	50.3S	3.90	5.82	2"	51989121
SB-970	CG500265	3,378	CG50	50.4S	4.30	6.08	2-1/2"	51989122
SB-1200	CG500265	4,162	CG50	50.5S	5.00	7.67	2-1/2"	51989123

*Pressure=Inches w.c.
Maximum pressure 14" w.c.

Commercial Gas Burner OEM Specs

Burnham . V9A, V11, MPC Series Standard Gas Pressure Specs

Boiler Model	Part Number	Firing Rate (Max. MBH)	Burner Model	Head	*Manifold Pressure	*Minimum Gas Supply	Pipe Size	Welded Insertion
V903A	CG10026	442	CG10-24	10.1	2.50	3.90	1"	51989001
V904A	CG10027	618	CG10-24	10.4S	2.60	4.44	1"	51989002
V905A	CG100143	811	CG10A	10.5S	3.70	4.94	1-1/4"	51989003
V906A	CG100143	1,010	CG10A	10.6S	4.00	5.99	1-1/4"	51989004
V907A	CG150242	1,192	CG15	15.3S	3.10	4.96	1-1/4"	51989005
V908A	CG150242	1,381	CG15	15.4S	3.30	5.59	1-1/4"	51989006
V909A	CG250216	1,674	CG25	25.2S	3.40	5.03	1-1/2"	51989007
V910A	CG250216	1,905	CG25	25.3S	3.44	5.26	1-1/2"	51989008
V911A	CG250216	2,108	CG25	25.4S	3.00	5.33	1-1/2"	51989009
V912A	CG500281	2,360	CG50	50.2S	2.10	4.49	1-1/2"	51989010
V1104	CG10027	845	CG10-24	10.6S	3.30	5.66	1"	51989011
V1105	CG100143	1,078	CG10A	10.6S	4.75	6.40	1-1/4"	51989011
V1106	CG150242	1,343	CG15	15.4S	3.55	5.72	1-1/4"	51989012
V1107	CG250216	1,588	CG25	25.2S	3.10	4.57	1-1/2"	51989013
V1108	CG250216	1,876	CG25	25.3S	3.36	5.41	1-1/2"	51989014
V1109	CG250216	2,136	CG25	25.4S	3.32	5.36	1-1/2"	51989015
V1110	CG250216	2,396	CG25	25.5S	2.94	5.51	1-1/2"	51989016
V1111	CG500239	2,710	CG50	50.2S	2.95	4.76	2"	51989017
V1112	CG500239	2,915	CG50	50.3S	2.50	4.58	2"	51989018
V1113	CG500239	3,103	CG50	50.3S	3.40	5.77	2"	51989018
V1114	CG500239	3,392	CG50	50.4S	2.97	5.80	2"	51989019
V1115	CG500239	3,392	CG50	50.4S	2.95	6.28	2"	51989019
V1115	CG500265	3,392	CG50	50.4S	2.95	5.06	2-1/2"	51989019
V1116	CG500239	3,897	CG50	50.5S	3.00	6.73	2"	51989019
V1116	CG500265	3,897	CG50	50.5S	3.00	5.37	2-1/2"	51989019
V1117	CG500265	4,186	CG50	50.5S	3.44	6.17	2-1/2"	51989020
V1118	CG500265	4,474	CG50	50.5S	3.85	6.97	2-1/2"	51989020
V1119	CG500265	4,713	CG50	50.5S	4.15	7.42	2-1/2"	51989020
MPC-4	CG10026	551	CG10-24	10.3	1.80	3.51	1"	51989081
MPC-5	CG10027	773	CG10-24	10.5S	3.20	5.32	1"	51989082
MPC-6	CG150242	995	CG15	15.2S	3.15	4.86	1-1/4"	51989083
MPC-7	CG150242	1,216	CG15	15.3S	3.50	5.86	1-1/4"	51989084
MPC-8	CG250216	1,438	CG25	25.1S	3.60	5.47	1-1/2"	51989085
MPC-9	CG250216	1,660	CG25	25.2S	3.57	5.23	1-1/2"	51989086
MPC-10	CG250216	1,881	CG25	25.3S	3.40	5.17	1-1/2"	51989087
MPC-11	CG250216	2,103	CG25	25.4S	3.60	5.81	1-1/2"	51989088
MPC-12	CG250216	2,325	CG25	25.4S	4.00	6.41	1-1/2"	51989088
MPC-13	CG500239	2,547	CG50	50.2S	3.60	5.08	2"	51989089
MPC-14	CG500239	2,769	CG50	50.3S	3.40	5.12	2"	51989080
MPC-15	CG500239	2,991	CG50	50.3S	4.00	6.00	2"	51989080
MPC-16	CG500265	3,213	CG50	50.3S	4.30	6.61	2-1/2"	51989080
MPC-17	CG500265	3,435	CG50	50.4S	4.00	6.68	2-1/2"	51989090
MPC-18	CG500265	3,657	CG50	50.4S	4.90	6.81	2-1/2"	51989090

Commercial Gas Burner OEM Specs

Burnham . V9A, V11, MPC Series Low Gas Pressure Specs

Boiler Model	Part Number	Firing Rate (Max. MBH)	Burner Model	Head	*Manifold Pressure	*Minimum Gas Supply	Pipe Size	Welded Insertion
0.0417 in	CG10026	442	CG10-24	10.1	2.50	3.90	1"	51989001
V904A	CG100143	618	CG10A	10.4S	2.60	3.89	1-1/4"	51989002
V905A	CG100143	811	CG10A	10.6S	2.10	3.23	1-1/4"	51989004
V906A	CG150242	1,010	CG15	15.3S	2.10	4.09	1-1/4"	51989005
V907A	CG150242	1,192	CG15	15.4S	2.25	4.11	1-1/4"	51989006
V908A	CG250216	1,381	CG25	25.2S	2.10	3.58	1-1/2"	51989007
V909A	CG250216	1,674	CG25	25.3S	2.30	3.73	1-1/2"	51989008
V910A	CG250216	1,905	CG25	25.4S	2.25	4.07	1-1/2"	51989009
V911A	CG250245	2,108	CG25	25.4S	3.00	4.23	2"	51989009
V912A	CG500239	2,360	CG50	50.2S	2.10	3.58	2"	51989010
V1104	CG150242	845	CG15	15.2S	2.50	4.16	1-1/4"	51989094
V1105	CG150242	1,078	CG15	15.4S	2.55	4.20	1-1/4"	51989012
V1106	CG250216	1,343	CG25	25.2S	2.60	4.00	1-1/2"	51989013
V1107	CG250216	1,588	CG25	25.3S	2.40	3.87	1-1/2"	51989014
V1108	CG250216	1,876	CG25	25.4S	2.25	4.30	1-1/2"	51989015
V1109	CG250216	2,136	CG25	25.5S	2.00	4.00	1-1/2"	51989016
V1110	CG500239	2,396	CG50	50.2S	2.50	4.10	2"	51989017
V1111	CG500239	2,710	CG50	50.3S	2.25	4.06	2"	51989018
V1112	CG500265	2,915	CG50	50.3S	2.50	3.82	2-1/2"	51989018
V1113	CG500265	3,103	CG50	50.4S	2.30	3.80	2-1/2"	51989019
V1114	CG500265	3,392	CG50	50.5S	1.90	3.70	2-1/2"	51989020
V1115	CG500265	3,392	CG50	50.5S	2.25	4.36	2-1/2"	51989020
MPC-4	CG10026	551	CG10-24	10.3	1.80	3.51	1"	51989081
MPC-5	CG100143	773	CG10A	10.6S	2.20	3.85	1-1/4"	51989127
MPC-6	CG150245	995	CG15	15.3S	2.40	3.35	1-1/2"	51989083
MPC-7	CG150245	1,216	CG15	15.4S	2.60	3.54	1-1/2"	51989128
MPC-8	CG250245	1,438	CG25	25.2S	2.90	4.10	2"	51989086
MPC-9	CG250245	1,660	CG25	25.3S	2.75	4.08	2"	51989087
MPC-10	CG250245	1,881	CG25	25.5S	2.60	3.75	2"	51989088
MPC-11	CG250245	2,103	CG25	25.5S	2.50	3.58	2"	51989129
MPC-12	CG250245	2,325	CG25	25.5S	2.90	4.22	2"	51989129
MPC-13	CG500265	2,547	CG50	50.3S	2.90	4.00	2-1/2"	51989080
MPC-14	CG500265	2,769	CG50	50.3S	3.40	4.56	2-1/2"	51989080
MPC-15	CG500265	2,991	CG50	50.4S	3.30	4.65	2-1/2"	51989090
MPC-16	CG500265	3,213	CG50	50.4S	3.65	5.19	2-1/2"	51989090
MPC-17	CG500265	3,435	CG50	50.5S	3.20	5.02	2-1/2"	51989020

*Pressure=Inches w.c.
Maximum pressure 14" w.c.

Commercial Gas Burner OEM Specs

Burnham . C Series Steel Boiler Standard Gas Pressure Specs

Boiler Model	Part Number	Firing Rate (Max. MBH)	Burner Model	Head	*Manifold Pressure	*Minimum Gas Supply	Pipe Size	Welded Insertion
20	CG150242	840	CG15	15.1S	3.20	4.34	1-1/4"	51989094
30	CG150242	1260	CG15	15.3S	3.50	5.59	1-1/4"	51989083
40	CG250216	1680	CG25	25.2S	3.40	5.03	1-1/2"	51989087
50	CG250216	2,100	CG25	25.5S	2.50	4.70	1-1/2"	51989129
60	CG500239	2,520	CG50	50.2S	3.50	4.76	2"	51989089
70	CG500239	2,940	CG50	50.3S	3.40	5.77	2"	51989080
80	CG500239	3,360	CG50	50.4S	2.95	6.28	2"	51989090
80	CG500265	3,360	CG50	50.4S	2.95	5.06	2-1/2"	51989090
90	CG500265	3,780	CG50	50.4S	4.50	6.60	2-1/2"	51989090
100	CG500265	4,200	CG50	50.5S	5.50	8.00	2-1/2"	51989020

Columbia . MPH Series Steel Boiler Standard Gas Pressure Specs

Boiler Model	Part Number	Firing Rate (Max. MBH)	Burner Model	Head	*Manifold Pressure	*Minimum Gas Supply	Pipe Size	Welded Insertion
20	CG10027	840	CG10-24	10.5	4.10	5.98	1"	51989150
20	CG150242	840	CG15	15.1S	3.70	5.64	1 1/4"	51989151
30	CG150242	1,260	CG15	15.3S	3.80	5.76	1 1/4"	51989152
40	CG250216	1,680	CG25	25.2S	4.00	5.55	1 1/2"	51989153
50	CG250216	1,913	CG25	25.4S	3.60	5.69	1 1/2"	51989154
60	CG500239	2,311	CG50	50.2S	4.00	5.47	2"	51989155
70	CG500239	2,940	CG50	50.3S	3.80	5.80	2"	51989156
80	CG500239	3,360	CG50	50.4S	3.90	6.53	2"	51989157
90	CG500265	3,609	CG50	50.4S	4.30	6.40	2 1/2"	51989157

Maximum pressure 14" w.c.
*Pressure=Inches w.c.

Commercial Gas Burner OEM Specs

Crown . 24, FW Series Standard Gas Pressure Specs

Boiler Model	Part Number	Firing Rate (Max. MBH)	Burner Model	Head	*Manifold Pressure	*Minimum Gas Supply	Pipe Size	Welded Insertion
24-3	CG10026	442	CG10-24	10.1	2.50	3.90	1"	51989001
24-4	CG10027	618	CG10-24	10.4S	2.60	4.44	1"	51989002
24-5	CG100143	811	CG10A	10.5S	3.70	4.94	1-1/4"	51989003
24-6	CG100143	1,010	CG10A	10.6S	4.00	5.99	1-1/4"	51989004
24-7	CG150242	1,192	CG15	15.3S	3.10	4.96	1-1/4"	51989005
24-8	CG150242	1,381	CG15	15.4S	3.30	5.59	1-1/4"	51989006
24-9	CG250216	1,674	CG25	25.2S	3.40	5.03	1-1/2"	51989007
24-10	CG250216	1,905	CG25	25.3S	3.44	5.26	1-1/2"	51989008
24-11	CG250216	2,108	CG25	25.4S	3.00	5.33	1-1/2"	51989009
24-12	CG500281	2,360	CG50	50.2S	2.10	4.49	1-1/2"	51989010
FW-4	CG10026	433	CG10-24	10.3	2.00	3.08	1"	51989138
FW-5	CG10027	577	CG10-24	10.4	1.80	3.53	1"	51989139
FW-6	CG10027	723	CG10-24	10.5	1.90	3.69	1"	51989140
FW-7	CG150229	866	CG15	15.1S	3.10	5.20	1 1/4"	51989179

Crown . 24, FW Series Low Gas Pressure Specs

Boiler Model	Part Number	Firing Rate (Max. MBH)	Burner Model	Head	*Manifold Pressure	*Minimum Gas Supply	Pipe Size	Welded Insertion
24-3	CG10026	442	CG10-24	10.1	2.50	3.90	1"	51989001
24-4	CG100143	618	CG10A	10.4S	2.60	3.89	1-1/4"	51989002
24-5	CG100143	811	CG10A	10.6S	2.10	3.23	1-1/4"	51989004
24-6	CG150242	1,010	CG15	15.3S	2.10	4.09	1-1/4"	51989005
24-7	CG150242	1,192	CG15	15.4S	2.25	4.11	1-1/4"	51989006
24-8	CG250216	1,381	CG25	25.2S	2.10	3.58	1-1/2"	51989007
24-9	CG250216	1,674	CG25	25.3S	2.30	3.73	1-1/2"	51989008
24-10	CG250216	1,905	CG25	25.4S	2.25	4.07	1-1/2"	51989009
24-11	CG250245	2,108	CG25	25.4S	3.00	4.23	2"	51989009
24-12	CG500239	2,360	CG50	50.2S	2.10	3.58	2"	51989010
FW-4	CG10026	433	CG10-24	10.3	2.00	3.08	1"	51989138
FW-5	CG10027	577	CG10-24	10.4	1.80	3.53	1"	51989139
FW-6	CG10027	723	CG10-24	10.5	1.90	3.69	1"	51989140

*Pressure=Inches w.c.
Maximum pressure 14" w.c.

Commercial Gas Burner OEM Specs

DeDietrich . GT330A, GT430 Series Standard Gas Pressure Specs

Boiler Model	Part Number	Firing Rate (Max. MBH)	Burner Model	Head	*Manifold Pressure	*Minimum Gas Supply	Pipe Size	Welded Insertion
GT335A	CG10026	574	CG10-24	10.3	2.54	4.33	1"	51989178
GT336A	CG10027	784	CG10-24	10.6S	2.67	4.19	1"	51989145
GT337A	CG150229	994	CG15	15.3S	3.05	4.53	1-1/4"	51989146
GT338A	CG150229	1,190	CG15	15.4S	3.54	5.77	1-1/4"	51989147
GT 339A	CG250216	1,400	CG25	25.2S	3.65	5.02	1-1/2"	51989148
GT430-8A	CG250216	1,680	CG25	25.3S	2.84	4.58	1-1/2"	51989158
GT430-9A	CG250216	1,890	CG25	25.4S	3.10	5.00	1-1/2"	51989159
GT430-10A	CG250216	2,212	CG25	25.5S	2.90	5.22	1-1/2"	51989160
GT430-11A	CG500239	2,492	CG50	50.3S	3.00	4.43	2"	51989161
GT430-12A	CG500239	2,744	CG50	50.3S	3.40	5.77	2"	51989161
GT430-13A	CG500239	3,010	CG50	50.4S	3.35	5.02	2"	51989162
GT430-14A	CG500239	3,290	CG50	50.5S	3.00	5.83	2"	51989163

*Pressure=Inches w.c.
Maximum pressure 14" w.c.

Commercial Gas Burner OEM Specs

H.B Smith . 19A/HE, 28, 28HE Series Standard Gas Pressure Specs

Boiler Model	Part Number	Firing Rate (Max. MBH)	Burner Model	Head	*Manifold Pressure	*Minimum Gas Supply	Pipe Size	Welded Insertion
19A/HE-3	CG10026	369	CG10-24	10.1	2.20	3.66	1"	51989037
19A/HE-4	CG10026	523	CG10-24	10.3	2.30	3.61	1"	51989038
19A/HE-5	CG10027	728	CG10-24	10.4	2.10	3.75	1"	51989073
19A/HE-6	CG10027	942	CG10-24	10.6	2.25	5.22	1"	51989074
19A/HE-7	CG150229	1,160	CG15	15.2S	4.10	6.03	1-1/4"	51989039
19A/HE-8	CG150229	1,328	CG15	15.3S	4.00	6.12	1-1/4"	51989040
19A/HE-9	CG250216	1,558	CG25	25.1S	4.20	5.80	1-1/2"	51989041
19A/HE-10	CG250216	1,762	CG25	25.2S	3.80	5.60	1-1/2"	51989042
19A/HE-11	CG250216	2,006	CG25	25.3S	3.90	5.92	1-1/2"	51989043
19A/HE-12	CG250216	2,157	CG25	25.4S	3.50	5.84	1-1/2"	51989044
28-4	CG150242	1,156	CG15	15.2S	4.40	6.32	1-1/4"	51989045
28-5	CG250216	1,506	CG25	25.2S	2.95	4.44	1-1/2"	51989046
28-6	CG250216	1,833	CG25	25.3S	3.15	5.10	1-1/2"	51989047
28-7	CG250216	2,182	CG25	25.4S	3.45	5.84	1-1/2"	51989048
28-8	CG250216	2,527	CG25	25.5S	3.30	6.16	1-1/2"	51989049
28-9	CG500239	2,862	CG50	50.3S	2.55	4.56	2"	51989050
28-10	CG500239	3,222	CG50	50.3S	3.30	5.85	2"	51989050
28-11	CG500239	3,521	CG50	50.4S	3.00	6.05	2"	51989051
28-12	CG500239	3,918	CG50	50.5S	3.00	6.58	2"	51989052
28-13	CG500265	4,199	CG50	50.5S	3.20	5.95	2-1/2"	51989052
28-14	CG500265	4,538	CG50	50.5S	4.00	7.01	2-1/2"	51989052
28HE-4	CG150242	1,146	CG15	15.2S	4.55	6.47	1-1/4"	51989045
28HE-5	CG250216	1,467	CG25	25.2S	2.90	4.39	1-1/2"	51989046
28HE-6	CG250216	1,794	CG25	25.3S	3.15	5.10	1-1/2"	51989047
2HE8-7	CG250216	2,097	CG25	25.4S	3.35	5.74	1-1/2"	51989048
28HE-8	CG250216	2,411	CG25	25.5S	3.25	6.11	1-1/2"	51989049
28HE-9	CG500239	2,724	CG50	50.3S	3.80	4.26	2"	51989050
28HE-10	CG500239	3,081	CG50	50.3S	3.50	5.55	2"	51989050
28HE-11	CG500239	3,396	CG50	50.4S	3.20	5.85	2"	51989051
28HE-12	CG500239	3,679	CG50	50.5S	3.70	6.58	2"	51989052
28HE-13	CG500265	3,982	CG50	50.5S	3.20	5.80	2-1/2"	51989052
28HE-14	CG500265	4,299	CG50	50.5S	3.70	6.66	2-1/2"	51989052

Maximum inlet pressure 14" w.c.
*Pressure=Inches w.c.

Commercial Gas Burner OEM Specs

H.B. Smith . 19A, 28, 28HE Series Low Gas Pressure Specs

Boiler Model	Part Number	Firing Rate (Max. MBH)	Burner Model	Head	*Manifold Pressure	*Minimum Gas Supply	Pipe Size	Welded Insertion
19A/HE-3	CG10026	369	CG10-24	10.1	2.20	3.66	1"	51989037
19A/HE-4	CG10026	523	CG10-24	10.3	2.30	3.61	1"	51989038
19A/HE-5	CG10027	728	CG10-24	10.4	2.10	3.75	1"	51989073
19A/HE-6	CG10027	942	CG10-24	10.6	2.25	5.22	1"	51989074
19A/HE-7	CG150242	1,160	CG15	15.3S	2.50	4.43	1-1/4"	51989040
19A/HE-7	CG150229	1,160	CG15	15.3S	2.50	3.37	1-1/2"	51989040
19A/HE-8	CG150242	1,328	CG15	15.4S	2.80	4.92	1-1/4"	51989095
19A/HE-8	CG150245	1,328	CG15	15.4S	2.80	3.94	1-1/2"	51989095
19A/HE-9	CG250216	1,558	CG25	25.2S	2.60	4.16	1-1/2"	51989042
19A/HE-10	CG250216	1,762	CG25	25.3S	2.40	4.20	1-1/2"	51989043
19A/HE-11	CG250216	2,006	CG25	25.4S	2.50	4.52	1-1/2"	51989044
19A/HE-11	CG250245	2,006	CG25	25.4S	2.50	3.49	2"	51989044
19A/HE-12	CG250216	2,157	CG25	25.5S	2.00	4.09	1-1/2"	51989096
19A/HE-12	CG250245	2,157	CG25	25.5S	2.00	3.14	2"	51989096
28-4	CG150242	1,156	CG15	15.4S	2.10	4.02	1-1/4"	51989097
28-5	CG250216	1,506	CG25	25.3S	2.50	3.96	1-1/2"	51989047
28-6	CG250216	1,833	CG25	25.4S	2.10	3.79	1-1/2"	51989048
28-7	CG500239	2,182	CG50	50.1S	2.80	4.12	2"	51989098
28-8	CG500239	2,527	CG50	50.2S	2.70	4.19	2"	51989099
28-9	CG500239	2,862	CG50	50.4S	2.00	4.01	2"	51989051
28-10	CG500265	3,222	CG50	50.4S	2.25	3.87	2-1/2"	51989051
28-11	CG500265	3,521	CG50	50.5S	2.10	4.03	2-1/2"	51989052
28HE-4	CG150242	1,146	CG15	15.4S	2.10	6.47	1-1/4"	51989097
28HE-5	CG250216	1,467	CG25	25.3S	2.50	4.39	1-1/2"	51989047
28HE-6	CG250216	1,794	CG25	25.4S	2.10	5.10	1-1/2"	51989048
2HE8-7	CG500239	2,097	CG50	50.1S	2.80	5.74	2"	51989098
28HE-8	CG500239	2,411	CG50	50.2S	2.70	6.11	2"	51989099
28HE-9	CG500239	2,724	CG50	50.4S	2.00	4.26	2"	51989051
28HE-10	CG500265	3,081	CG50	50.4S	2.25	5.55	2-1/2"	51989051
28HE-11	CG500265	3,396	CG50	50.5S	2.10	5.85	2-1/2"	51989052

Maximum inlet pressure 14" w.c.
*Pressure=Inches w.c.

Commercial Gas Burner OEM Specs

Hurst . 200, 300, 400, 250, LPW, LPE Series
Standard Gas Pressure Specs

Boiler Model	Part Number	Firing Rate (Max. MBH)	Burner Model	Head	*Manifold Pressure	*Minimum Gas Supply	Pipe Size	Welded Insertion
200 and 300 Series								
20 HP	CG150242	840	CG15	15.2S	3.60	4.80	1-1/4"	51989165
30 HP	CG150242	1260	CG15	15.3S	3.75	5.84	1-1/4"	51989166
40 HP	CG250216	1680	CG25	25.3S	3.80	5.43	1-1/2"	51989170
50 HP	CG250216	2,100	CG25	25.5S	3.50	5.04	1-1/2"	51989172
55 HP	CG250216	2,310	CG25	25.5S	3.80	6.19	1-1/2"	51989172
60 HP	CG500239	2,520	CG50	50.2S	3.85	5.81	2"	51989173
70 HP	CG500239	2,940	CG50	50.3S	3.80	6.07	2"	51989174
80 HP	CG500265	3,360	CG50	50.4S	3.90	6.06	2-1/2"	51989175
90 HP	CG500265	3,780	CG50	50.5S	3.75	6.01	2-1/2"	51989176
100 HP	CG500265	4,200	CG50	50.5S	4.50	7.25	2-1/2"	51989176
400 Series with a Derate								
30 HP	CG150242	1,100	CG15	15.2S	3.50	5.59	1-1/4"	51989165
40 HP	CG250216	1,440	CG25	25.2S	3.40	5.03	1-1/2"	51989169
50 HP	CG250216	1,960	CG25	25.4S	3.00	4.99	1-1/2"	51989171
60 HP	CG500239	2,550	CG50	50.2S	3.50	4.76	2"	51989173
70 HP	CG500239	2,550	CG50	50.2S	3.50	4.76	2"	51989173
80 HP	CG500239	2,905	CG50	50.3S	2.95	6.28	2"	51989174
100 HP	CG500265	4,018	CG50	50.4S	3.60	6.36	2-1/2"	51989175
250 Series								
20 HP	CG150242	840	CG15	15.3S	3.50	4.73	1-1/4"	51989166
30 HP	CG150242	1,260	CG15	15.3S	4.30	6.21	1-1/4"	51989166
40 HP	CG250216	1,680	CG25	25.3S	4.20	5.84	1-1/2"	51989170
50 HP	CG250216	2,100	CG25	25.5S	4.00	6.01	1-1/2"	51989172
55 HP	CG250216	2,310	CG25	25.5S	4.30	6.31	1-1/2"	51989172
60 HP	CG500239	2,520	CG50	50.2S	4.00	5.57	2"	51989173
70 HP	CG500239	2,940	CG50	50.4S	3.99	6.12	2"	51989175
80 HP	CG500265	3,360	CG50	50.5S	4.00	5.76	2-1/2"	51989176
90 HP	CG500265	3,780	CG50	50.5S	4.30	6.53	2-1/2"	51989176
100 HP	CG500265	4,200	CG50	50.5S	5.00	7.75	2-1/2"	51989176
LPW and LPE								
20	CG150242	840	CG15	15.1S	3.20	4.34	1-1/4"	51989164
30	CG150242	1,260	CG15	15.3S	3.50	5.59	1-1/4"	51989166
40	CG250216	1,680	CG25	25.2S	3.40	5.03	1-1/2"	51989169
50	CG250216	2,100	CG25	25.5S	2.50	4.70	1-1/2"	51989172
60	CG500239	2,520	CG50	50.2S	3.50	4.76	2"	51989173
70	CG500239	2,940	CG50	50.3S	3.40	5.77	2"	51989174
80	CG500239	3,360	CG50	50.4S	2.95	6.28	2"	51989175
90	CG500265	3,780	CG50	50.4S	3.50	5.73	2-1/2"	51989175
100	CG500265	4,200	CG50	50.5S	3.60	6.36	2-1/2"	51989176

Maximum pressure 14" w.c.
*Pressure=Inches w.c.

Commercial Gas Burner OEM Specs

PB Heat . SC, LC, TC, CC Series
Standard Gas Pressure Specs

Boiler Model	Part Number	Firing Rate (Max. MBH)	Burner Model	Head	*Manifold Pressure	*Minimum Gas Supply	Pipe Size	Welded Insertion
SC05	CG10026	444	CG10-24	10.1	3.00	4.40	1"	51989053
SC06	CG10026	491	CG10-24	10.3	2.00	3.72	1"	51989054
SC07	CG10026	569	CG10-24	10.3	2.70	4.26	1"	51989054
SC08	CG10027	656	CG10-24	10.4	3.40	5.47	1"	51989056
SC09	CG10027	741	CG10-24	10.4	4.20	6.03	1"	51989056
SC10	CG10027	802	CG10-24	10.5	3.90	6.04	1"	51989058
LC04	CG10027	691	CG10-24	10.5S	3.20	5.49	1"	51989059
LCO5	CG150242	881	CG15	15.2S	2.90	4.25	1-1/4"	51989060
LCO6	CG150242	1,086	CG15	15.2S	3.90	5.60	1-1/4"	51989060
LCO7	CG150242	1,280	CG15	15.3S	3.65	5.59	1-1/4"	51989061
LCO8	CG250216	1,469	CG25	25.1S	3.40	4.79	1-1/2"	51989062
LCO9	CG250216	1,664	CG25	25.2S	3.40	5.01	1-1/2"	51989063
LC10	CG250216	1,860	CG25	25.3S	3.10	5.11	1-1/2"	51989064
LC11	CG250245	2,059	CG25	25.4S	3.10	5.23	1-1/2"	51989065
LC12	CG250245	2,278	CG25	25.5S	2.90	5.22	1-1/2"	51989066
LC13	CG500239	2,460	CG50	50.2S	2.70	4.19	2"	51989067
LC14	CG500239	2,657	CG50	50.2S	3.50	5.24	2"	51989067
LC15	CG500239	2,850	CG50	50.3S	2.90	4.89	2"	51989068
LC16	CG500239	3,043	CG50	50.3S	3.20	5.47	2"	51989068
LC17	CG500239	3,236	CG50	50.3S	3.50	6.08	2"	51989068
LC18	CG500239	3,451	CG50	50.4S	3.05	5.98	2"	51989069
LC19	CG500239	3,622	CG50	50.4S	3.20	6.43	2"	51989069
LC19	CG500265	3,622	CG50	50.4S	3.20	5.43	2-1/2"	51989069
LC20	CG500265	3,815	CG50	50.4S	3.70	5.97	2-1/2"	51989069
LC21	CG500265	4,027	CG50	50.5S	3.10	5.63	2-1/2"	51989070
LC22	CG500265	4,239	CG50	50.5S	3.30	6.10	2-1/2"	51989070
LC23	CG500265	4,450	CG50	50.5S	3.80	6.89	2-1/2"	51989070
TC-04	CG150242	1,156	CG15	15.2S	4.40	6.32	1-1/4"	51989045
TC-05	CG250216	1,506	CG25	25.2S	2.95	4.44	1-1/2"	51989046
TC-06	CG250216	1,833	CG25	25.3S	3.15	5.10	1-1/2"	51989047
TC-07	CG250216	2,182	CG25	25.4S	3.45	5.84	1-1/2"	51989048
TC-08	CG250216	2,527	CG25	25.5S	3.30	6.16	1-1/2"	51989049
TC-09	CG500239	2,862	CG50	50.3S	2.55	4.56	2"	51989050
TC-10	CG500239	3,222	CG50	50.3S	3.30	5.85	2"	51989050
TC-11	CG500239	3,521	CG50	50.4S	3.00	6.05	2"	51989051
TC-12	CG500239	3,918	CG50	50.5S	3.00	6.58	2"	51989052
TC-13	CG500265	4,199	CG50	50.5S	3.20	5.95	2-1/2"	51989052
TC-14	CG500265	4,538	CG50	50.5S	3.80	7.01	2-1/2"	51989052

*Pressure=Inches w.c.
Maximum inlet pressure 14" w.c.

Commercial Gas Burner OEM Specs

PB Heat . SC, LC, TC Series Low Gas Pressure Specs

Boiler Model	Part Number	Firing Rate (Max. MBH)	Burner Model	Head	*Manifold Pressure	*Minimum Gas Supply	Pipe Size	Welded Insertion
SC05	CG10026	444	CG10-24	10.1	3.00	4.40	1"	51989053
SC06	CG10026	491	CG10-24	10.3	2.00	3.72	1"	51989054
SC07	CG10026	569	CG10-24	10.3	2.70	4.26	1"	51989054
SC08	CG10027	656	CG10-24	10.5	2.20	3.63	1"	51989058
SC08	CG100143	656	CG10A	10.5	2.20	2.95	1-1/4"	51989058
SC09	CG10027	741	CG10-24	10.5	2.60	4.43	1"	51989058
SC09	CG100143	802	CG10A	10.5	2.60	3.56	1-1/4"	51989058
LC04	CG10027	691	CG10-24	10.5S	2.00	3.59	1"	51989059
LCO5	CG150242	881	CG15	15.2S	2.90	4.25	1-1/4"	51989060
LCO6	CG150242	1,086	CG15	15.3S	1.90	3.96	1-1/4"	51989061
LCO7	CG250216	1,280	CG25	25.1S	3.00	4.06	1-1/2"	51989062
LCO8	CG250216	1,469	CG25	25.2S	2.25	3.64	1-1/2"	51989063
LCO9	CG250216	1,664	CG25	25.3S	2.20	3.81	1-1/2"	51989064
LC10	CG250216	1,860	CG25	25.4S	2.30	4.04	1-1/2"	51989065
LC11	CG250245	2,059	CG25	25.4S	3.10	4.14	2"	51989065
LC12	CG250245	2,278	CG25	25.5S	2.90	4.18	2"	51989066
LC13	CG500239	2,460	CG50	50.2S	2.70	4.18	2"	51989067
LC14	CG500239	2,657	CG50	50.3S	2.10	3.84	2"	51989068
LC15	CG500239	2,850	CG50	50.3S	2.90	4.89	2"	51989068
LC15	CG500240	2,850	CG50	50.3S	2.90	4.16	2-1/2"	51989068
LC16	CG500239	3,043	CG50	50.4S	2.00	4.27	2"	51989069
LC17	CG500265	3,236	CG50	50.4S	2.30	3.93	2-1/2"	51989069
LC18	CG500265	3,451	CG50	50.5S	2.20	4.06	2-1/2"	51989070
LC19	CG500265	3,622	CG50	50.5S	2.25	4.29	2-1/2"	51989070
TC-04	CG150242	1,156	CG15	15.4S	2.10	4.02	1-1/4"	51989097
TC-05	CG250216	1,506	CG25	25.3S	2.50	3.96	1-1/2"	51989047
TC-06	CG250216	1,833	CG25	25.4S	2.10	3.79	1-1/2"	51989048
TC-07	CG500239	2,182	CG50	50.1S	2.80	4.12	2"	51989098
TC-08	CG500239	2,527	CG50	50.2S	2.70	4.19	2"	51989099
TC-09	CG500239	2,862	CG50	50.4S	2.00	4.01	2"	51989051
TC-10	CG500265	3,222	CG50	50.4S	2.25	3.87	2-1/2"	51989051
TC-11	CG500265	3,521	CG50	50.5S	2.10	4.03	2-1/2"	51989052

Maximum inlet pressure 14" w.c.
*Pressure=Inches w.c.

Commercial Gas Burner OEM Specs

PB Heat . TCII Series Standard Gas Pressure Specs

Boiler Model	Part Number	Firing Rate (Max. MBH)	Burner Model	Head	*Manifold Pressure	*Minimum Gas Supply	Pipe Size	Welded Insertion
TCII-04	CG150242	1146	CG15	15.2S	4.55	6.47	1-1/4"	51989045
TCII-05	CG250216	1467	CG25	25.2S	2.90	4.39	1-1/2"	51989046
TCII-06	CG250216	1794	CG25	25.3S	3.15	5.10	1-1/2"	51989047
TCII-07	CG250216	2,097	CG25	25.4S	3.35	5.74	1-1/2"	51989048
TCII-08	CG250216	2,411	CG25	25.5S	3.25	6.11	1-1/2"	51989049
TCII-09	CG500239	2,724	CG50	50.3S	3.80	4.26	2"	51989050
TCII-10	CG500239	3,081	CG50	50.3S	3.50	5.55	2"	51989050
TCII-11	CG500239	3,396	CG50	50.4S	3.20	5.85	2"	51989051
TCII-12	CG500239	3,679	CG50	50.5S	3.70	6.58	2"	51989052
TCII-13	CG500265	3,982	CG50	50.5S	3.20	5.80	2-1/2"	51989052
TCII-14	CG500265	4,299	CG50	50.5S	3.70	6.66	2-1/2"	51989052

PB Heat . TCII Series Low Gas Pressure Specs

Boiler Model	Part Number	Firing Rate (Max. MBH)	Burner Model	Head	*Manifold Pressure	*Minimum Gas Supply	Pipe Size	Welded Insertion
TCII-04	CG150242	1,156	CG15	15.4S	2.10	6.47	1-1/4"	51989097
TCII-05	CG250216	1,506	CG25	25.3S	2.50	4.39	1-1/2"	51989047
TCII-06	CG250216	1,833	CG25	25.4S	2.10	5.10	1-1/2"	51989048
TCII-07	CG500239	2,182	CG50	50.1S	2.80	5.74	2"	51989098
TCII-08	CG500239	2,527	CG50	50.2S	2.70	6.11	2"	51989099
TCII-09	CG500239	2,862	CG50	50.4S	2.00	4.26	2"	51989051
TCII-10	CG500265	3,222	CG50	50.4S	2.25	5.55	2-1/2"	51989051
TCII-11	CG500265	3,521	CG50	50.5S	2.10	5.85	2-1/2"	51989052

*Pressure=Inches w.c.
Maximum inlet pressure 14" w.c.

Commercial Gas Burner OEM Specs

PB Heat . CC Series Standard Gas Pressure Specs

Boiler Model	Part Number	Firing Rate (Max. MBH)	Burner Model	Head	*Manifold Pressure	*Minimum Gas Supply	Pipe Size	Welded Insertion
CC-3	CG10026	369	CG10-24	10.1	2.20	3.66	1"	51989037
CC-4	CG10026	523	CG10-24	10.3	2.30	3.61	1"	51989038
CC-5	CG10027	728	CG10-24	10.4	2.10	3.75	1"	51989073
CC-6	CG10027	942	CG10-24	10.6	2.25	5.22	1"	51989074
CC-7	CG150229	1,160	CG15	15.2S	4.10	6.03	1-1/4"	51989039
CC-8	CG150229	1,328	CG15	15.3S	4.00	6.12	1-1/4"	51989040
CC-9	CG250216	1,558	CG25	25.1S	4.20	5.80	1-1/2"	51989041
CC-10	CG250216	1,762	CG25	25.2S	3.80	5.60	1-1/2"	51989042
CC-11	CG250216	2,006	CG25	25.3S	3.90	5.92	1-1/2"	51989043
CC-12	CG250216	2,157	CG25	25.4S	3.50	5.84	1-1/2"	51989044

PB Heat . CC Series Low Gas Pressure Specs

Boiler Model	Part Number	Firing Rate (Max. MBH)	Burner Model	Head	*Manifold Pressure	*Minimum Gas Supply	Pipe Size	Welded Insertion
CC-3	CG10026	369	CG10-24	10.1	2.20	3.66	1"	51989037
CC-4	CG10026	523	CG10-24	10.3	2.30	3.61	1"	51989038
CC-5	CG10027	728	CG10-24	10.4	2.10	3.75	1"	51989073
CC-6	CG10027	942	CG10-24	10.6	2.25	5.22	1"	51989074
CC-7	CG150229	1,160	CG15	15.3S	2.50	4.43	1-1/4"	51989040
CC-7	CG150245	1,160	CG15	15.3S	2.50	3.37	1-1/2"	51989040
CC-8	CG150229	1,328	CG15	15.4S	2.80	4.92	1-1/4"	51989095
CC-8	CG150245	1,328	CG15	15.4S	2.80	3.94	1-1/2"	51989095
CC-9	CG250216	1,558	CG25	25.2S	2.60	4.16	1-1/2"	51989042
CC-10	CG250216	1,762	CG25	25.3S	2.40	4.20	1-1/2"	51989043
CC-11	CG250216	2,006	CG25	25.4S	2.50	4.52	1-1/2"	51989044
CC-11	CG250245	2,006	CG25	25.4S	2.50	3.49	2"	51989044
CC-12	CG250216	2,157	CG25	25.5S	2.00	4.09	1-1/2"	51989096
CC-12	CG250245	2,157	CG25	25.5S	2.00	3.14	2"	51989096

*Pressure=Inches w.c.
Maximum inlet pressure 14" w.c.

Commercial Gas Burner OEM Specs

Weil-McLain . 80, 88, Series 1 & Series 2 Standard Gas Pressure Specs

Boiler Model	Part Number	Firing Rate (Max. MBH)	Burner Model	Head	*Manifold Pressure	*Minimum Gas Supply	Pipe Size	Welded Insertion
380	CG10026	336	CG10-24	10.1	1.80	3.01	1"	51989021
480	CG10026	491	CG10-24	10.3	1.45	3.17	1"	51989022
580	CG10027	639	CG10-24	10.4	3.11	5.07	1"	51989023
680	CG10027	787	CG10-24	10.5	3.30	5.36	1"	51989024
780	CG10027	943	CG10-24	10.6	3.20	5.27	1"	51989025
880	CG10027	1,067	CG10-24	10.6	4.10	6.32	1"	51989025
980	CG150242	1,230	CG15	15.3S	3.49	5.31	1-1/4"	51989026
1080	CG150242	1,392	CG15	15.4S	3.00	5.33	1-1/4"	51989027
1180	CG250216	1,526	CG25	25.2S	2.83	4.33	1-1/2"	51989028
1280	CG250216	1,670	CG25	25.2S	3.10	4.72	1-1/2"	51989028
Series 1								
488	CG10027	995	CG10-24	10.6S	3.38	6.10	1"	51989029
588	CG250216	1,382	CG25	25.1S	3.20	4.33	1-1/2"	51989030
688	CG250216	1,703	CG25	25.2S	3.62	5.31	1-1/2"	51989031
788	CG500281	2,053	CG50	50.1S	2.50	4.62	1-1/2"	51989032
888	CG500281	2,350	CG50	50.2S	2.20	4.98	1-1/2"	51989033
988	CG500239	2,713	CG50	50.2S	3.77	5.57	2"	51989033
1088	CG500239	3,103	CG50	50.3S	3.52	5.89	2"	51989034
1188	CG500239	3,392	CG50	50.4S	3.14	5.97	2"	51989035
1288	CG500239	3,753	CG50	50.4S	3.73	7.19	2"	51989035
1288	CG500265	3,753	CG50	50.4S	3.73	5.92	2-1/2"	51989035
1388	CG500239	4,113	CG50	50.5S	3.20	7.62	2"	51989036
1388	CG500265	4,113	CG50	50.5S	3.20	6.09	2-1/2"	51989036
1488	CG500265	4,488	CG50	50.5S	3.45	6.34	2-1/2"	51989036
Series 2								
488	CG10027	995	CG10-24	10.6S	4.45	6.71	1"	51989029
588	CG250216	1,382	CG25	25.1S	3.55	5.00	1-1/2"	51989030
688	CG250216	1,703	CG25	25.2S	3.70	6.07	1-1/2"	51989031
788	CG500281	2,053	CG50	50.1S	3.10	5.11	1-1/2"	51989032
888	CG500281	2,350	CG50	50.2S	3.05	5.62	1-1/2"	51989033
988	CG500239	2,713	CG50	50.2S	3.75	5.50	2"	51989033
1088	CG500239	3,103	CG50	50.3S	3.65	6.00	2"	51989034
1188	CG500239	3,392	CG50	50.4S	3.60	6.45	2"	51989035
1288	CG500265	3,753	CG50	50.4S	4.15	6.36	2-1/2"	51989035
1388	CG500265	4,113	CG50	50.5S	4.00	6.68	2-1/2"	51989036

*Pressure=Inches w.c.
Maximum inlet pressure 14" w.c.

Commercial Gas Burner OEM Specs

Weil-McLain . 80, 88 Series 1 Low Gas Pressure Specs

Boiler Model	Part Number	Firing Rate (Max. MBH)	Burner Model	Head	*Manifold Pressure	*Minimum Gas Supply	Pipe Size	Welded Insertion
380	CG10026	336	CG10-24	10.1	1.80	3.01	1"	51989021
480	CG10026	491	CG10-24	10.3	1.45	3.17	1"	51989022
580	CG10027	639	CG10-24	10.5S	2.00	3.96	1"	51989024
580	CG100143	639	CG10A	10.5S	2.00	2.17	1-1/4"	51989024
680	CG10027	787	CG10-24	10.6S	1.90	3.96	1"	51989025
680	CG100143	787	CG10A	10.6S	1.90	3.01	1-1/4"	51989025
780	CG150242	943	CG15	15.2S	2.50	4.05	1-1/4"	51989100
880	CG150242	1,067	CG15	15.3S	2.30	3.95	1-1/4"	51989026
980	CG150242	1,230	CG15	15.4S	2.25	4.07	1-1/4"	51989027
1080	CG250216	1,392	CG25	25.2S	2.25	3.47	1-1/2"	51989028
1180	CG250216	1,526	CG25	25.2S	2.83	4.33	1-1/2"	51989028
1280	CG250216	1,670	CG25	25.3S	2.30	3.92	1-1/2"	51989101
Series 1								
488	CG100143	995	CG10A	10.6S	3.38	5.80	1-1/4"	51989029
588	CG250216	1,382	CG25	25.2S	2.20	3.43	1-1/2"	51989031
688	CG250216	1,703	CG25	25.3S	2.40	4.09	1-1/2"	51989103
788	CG500239	2,053	CG50	50.1S	2.50	3.67	2"	51989032
888	CG500239	2,350	CG50	50.2S	2.20	3.73	2"	51989033
988	CG500239	2,713	CG50	50.3S	2.50	4.30	2"	51989034
1088	CG500239	3,103	CG50	50.4S	2.30	4.67	2"	51989035
1088	CG500265	3,392	CG50	50.4S	2.30	3.80	2-1/2"	51989035
1188	CG500265	3,753	CG50	50.5S	2.00	3.80	2-1/2"	51989036
1288	CG500265	3,753	CG50	50.5S	2.40	4.59	2-1/2"	51989036

*Pressure=Inches w.c.
Maximum inlet pressure 14" w.c.

Commercial Gas Burner OEM Specs

Scotch Marine . 3 - Pass Steel Boilers Standard Gas Pressure Specs

Boiler Model	Part Number	Firing Rate (Max. MBH)	Burner Model	Head	*Manifold Pressure	*Minimum Gas Supply	Pipe Size	Welded Insertion
20 HP	CG150242	840	CG15	15.1S	3.20	4.34	1-1/4"	51989130
30 HP	CG150242	1,260	CG15	15.3S	3.50	5.59	1-1/4"	51989131
40 HP	CG250216	1,680	CG25	25.2S	3.40	5.03	1-1/2"	51989132
50 HP	CG250216	2,100	CG25	25.4S	2.50	4.70	1-1/2"	51989133
55 HP	CG250216	2,310	CG25	25.4S	3.00	5.01	1-1/2"	51989133
60 HP	CG500239	2,520	CG50	50.2S	3.50	4.76	2"	51989134
70 HP	CG500239	2,940	CG50	50.3S	3.40	5.77	2"	51989135
80 HP	CG500239	3,360	CG50	50.4S	2.95	6.28	2"	51989136
80 HP	CG500265	3,360	CG50	50.4S	2.95	5.06	2-1/2"	51989136
90 HP	CG500265	3,780	CG50	50.5S	3.50	5.73	2-1/2"	51989137
100 HP	CG500265	4,299	CG50	50.5S	3.60	6.36	2-1/2"	51989137
110 HP	CG500265	4,620	CG50	50.5S	3.75	7.08	2-1/2"	51989137

Scotch Marine . 3 - Pass Steel Boilers Low Gas Pressure Specs

Boiler Model	Part Number	Firing Rate (Max. MBH)	Burner Model	Head	*Manifold Pressure	*Minimum Gas Supply	Pipe Size	Welded Insertion
20 HP	CG150242	840	CG15	15.4S	3.20	4.34	1-1/4"	51989131
30 HP	CG250216	1,260	CG25	25.2S	3.00	4.25	1-1/2"	51989132
40 HP	CG250216	1,680	CG25	25.3S	2.30	3.73	1-1/2"	51989141
50 HP	CG250245	2,100	CG25	25.4S	2.50	3.99	2"	51989133
55 HP	CG250245	2,310	CG25	25.4S	3.00	5.10	2"	51989133
60 HP	CG500239	2,520	CG50	50.3S	2.25	4.06	2"	51989135
70 HP	CG500265	2,940	CG50	50.4S	2.30	3.80	2-1/2"	51989136
80 HP	CG500265	3,360	CG50	50.5S	2.25	4.36	2-1/2"	51989137

*Pressure=Inches w.c.
Maximum inlet pressure 14" w.c.

Commercial Gas Burner Adders

Burner Model	CG10.1-3	CG10.4-6	CG15.1-4	CG25.1-2	CG25.3-5	CG50.1	CG50.3-4	CG50.5
Gas Train Size	1"	1"	1-1/4"	1-1/2"	1-1/2"	1-1/2"	2"	2-1/2"
ON-OFF with L/F/S RM7897A	STD	STD	n/a	n/a	n/a	n/a	n/a	n/a
Lo/Hi/Lo RM7897C	n/a	n/a	STD	STD	STD	STD	STD	STD
Full Modulation Accepts 135 Ohm Inputs (Operation controller supplied by others)	n/a	n/a	Available	Available	Available	Available	Available	Available
RM7840L	n/a	n/a	Available	Available	Available	Available	Available	Available
UV Sensor Adder	STD	STD	STD	STD	STD	STD	STD	STD
220 Volts 1 PH	Available	Available	Available	Available	Available	STD	STD	STD
208/230 Volts 3 PH	n/a	n/a	Available	Available	Available	Available	Available	Available
480 Volts 3 PH	n/a	n/a	Available	Available	Available	n/a	n/a	n/a
575 Volts 3 PH	n/a	n/a	Available	Available	Available	Available	Available	Available

Panel Components

Component		
12 X 12 Cabinet		Available
12 X 16 Cabinet		Available
Light		Available
Relay		Available
120 Volt Buzzer		Available
24 Volt Buzzer		Available
120 Volt Alarm Bell		Available
24 Volt 4" Alarm Bell		Available
Slencer Button/relay		Available
Low Pressure Oil Switch		Available
Honeywell R7800A Mod Bus		Available
Control Transformers		
ST1	240V/408V	Available
ST5	208V	Available
ST7	208V/220V/380V/440V	Available

Code Adders

Burner Model	Gas Train Size	UL, CSD1, and GE GAP (IRI)
CG10.1	1"	STD
CG15.1	1"	STD
CG25.5	1-1/2"	STD
CG50.1	1-1/2"	STD
CG50.3	2"	STD
CG50.5	2-1/2"	STD

Gas Train Components

Component		
Wiring Harness 52171U		Available

PANEL Assembly



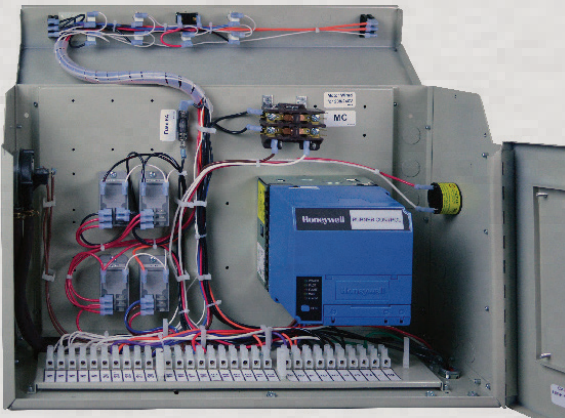
The burner control panel is available on all Beckett Commercial Oil and Gas burners and can be built to your specifications and functions. It is burner mounted on the CF1000, CF1400, CF2300, CF2500 and CF3500 oil burners, and is available as a remote mounted panel for the CF500 and CF800 oil burners. The control panel is burner mounted on the CG15, CG25 and CG50 gas burners, and is available as a remote mounted panel for the CG10 gas burner.



Features & Benefits:

- Available On All Oil and Gas Burners
- Front and Top Doors for Easy Access
- Designed for Easy Wiring and Installation
- Burner Mount or Remote Mount
- Viewable Flame Safeguard
- Power On Light / Switch
- PCL07 (Shown) Includes:

- Fuel On Light
- 120V Alarm Buzzer
- Alarm Silencer
- Flame Fail Light
- Low Water Light
- High Limit Light
- Call for Heat Light
- Ignition Light



Wiring diagram included.

PANEL Assembly

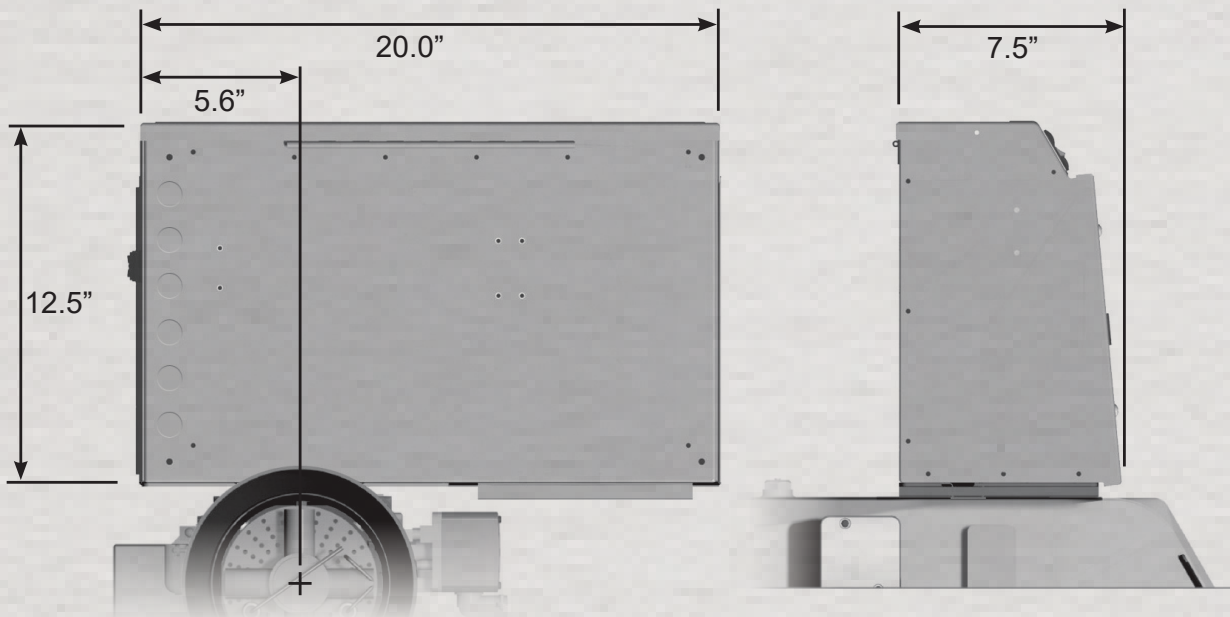


Commercial Oil & Gas Burner - Panel Packages

CG10, CF500, CF800 Remote Panel Standard
 CG15 thru CG50 and CF1400 thru CF3500 Burner Mount Standard
 12.5" x 20.0" Electrical Cabinet

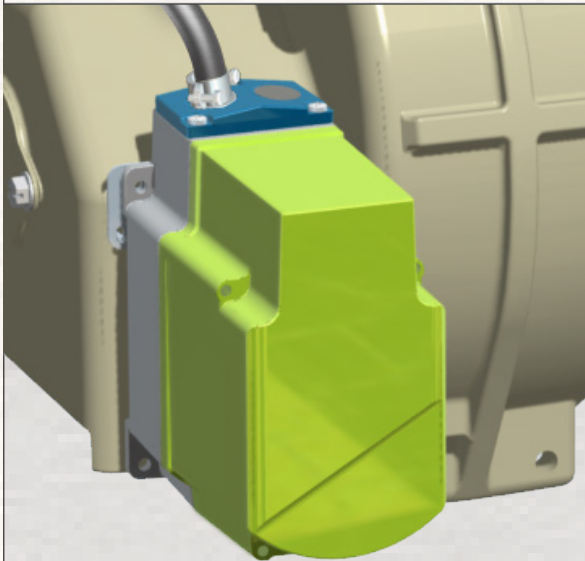
Part #	Description	Power On Light / Switch	Fuel On Light	24V Alarm	120V Alarm	Flame Fail Light	Low Water Cutoff Light	High Limit Light	Ignition Light	Call For Heat Light
PCL01	Control Panel for Commercial Oil or Gas Burner	•	•							
PCL02	Control Panel for Commercial Oil Less than 20GPH	•	•	•		•				
PCL03	Control Panel for Commercial Oil or Gas Burner	•	•		•	•				
PCL04	Control Panel for Commercial Oil Less than 20GPH	•	•	•		•	•	•		
PCL05	Control Panel for Commercial Oil or Gas Burner	•	•		•	•	•	•		
PCL06	Control Panel for Commercial Oil Less than 20GPH	•	•	•		•	•	•	•	•
PCL07	Control Panel for Commercial Oil or Gas Burner	•	•		•	•	•	•	•	•

Dimensions



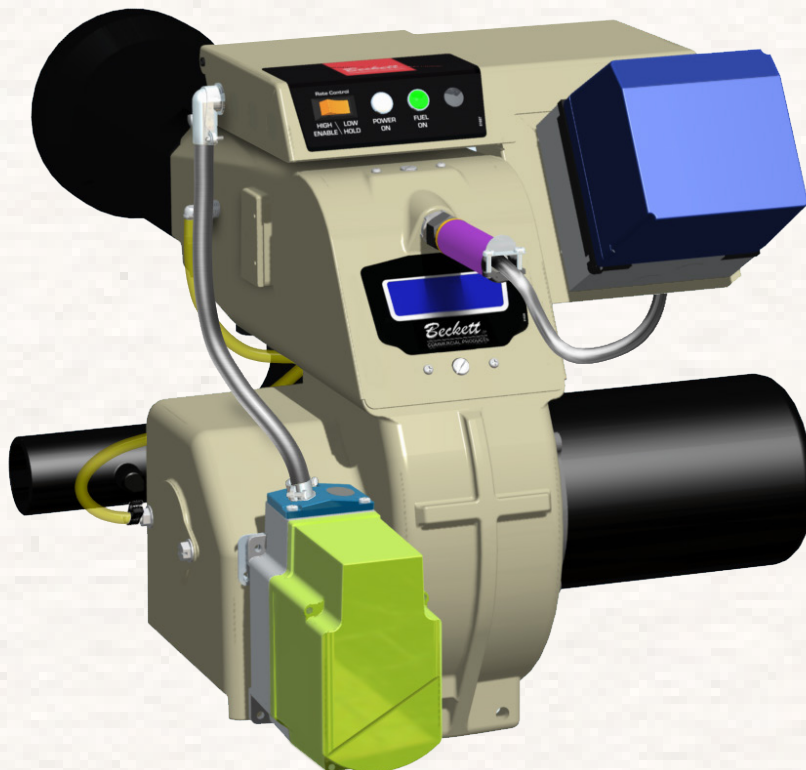
Full Modulation

Operation with 130ohm, 4-20vdc or 0-10 inputs



Features:

- Available on CG15, CG25 & CG50 Burners
- Gas Train can be installed to left or right of burner
- Low Fire Hold
- Single modulation linkage assembly
- Initial adjustments made at the factory



Propane Conversion Kit

WARNING

This conversion kit shall be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction. (In Canada, in accordance with the requirements of the CAN/CGA-B149 Installation Code.) If the information in these instructions is not followed exactly, a fire, explosion, or production of carbon monoxide may result causing property damage, personal injury or loss of life. The qualified service agency is responsible for the proper installation of this kit. The installation is not proper and complete until the operation of the converted appliance is checked, as specified in the manufacturer's instructions supplied with the kit.



Please carefully read and comply with the instruction manual supplied with the specific burner being converted.

Please carefully read and comply with the instruction manual supplied with the specific burner being converted.

Product Description

The Beckett Propane Restrictor Conversion Kit allows for the conversion of CG10, CG15, CG25, and CG50 burners for use with propane gas. With the proper installation of the restrictor and attached O-ring, adjustments and settings for propane use will be the same as the adjustments and settings for natural gas use as detailed in the burner manual.

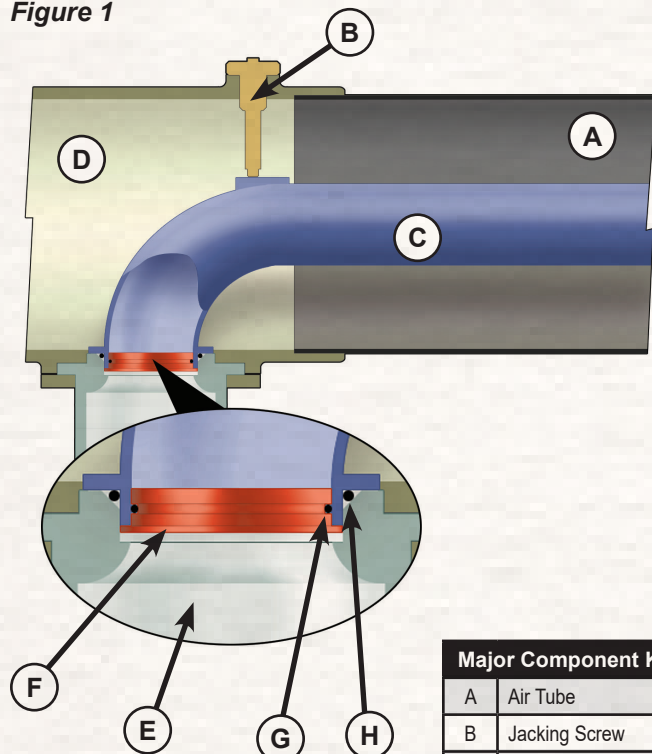
Installation

Note that Steps 1 and 2 on the following page refer to fully assembled burners. Skip to Step 3 when converting a burner without the air tube assembly installed. Refer to the below figures when performing the following steps.

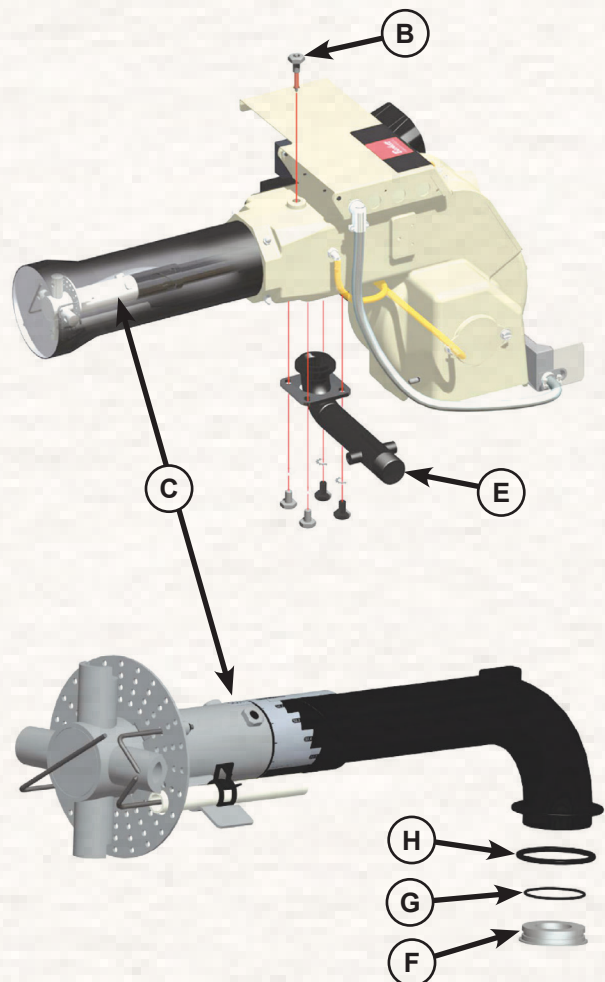
NOTICE

CG15 is shown in the illustrations. CG25 and CG50 are similar. CG10 is similar with the exception of having the gas gun assembly mounted into the air tube instead of the housing.

Figure 1



Major Component Key	
A	Air Tube
B	Jacking Screw
C	Internal Gas Tube
D	Burner Housing
E	External Gas Manifold
F	Propane Restrictor
G	Restrictor O-ring
H	Gas Tube O-ring



Propane Conversion Kit

NOTICE

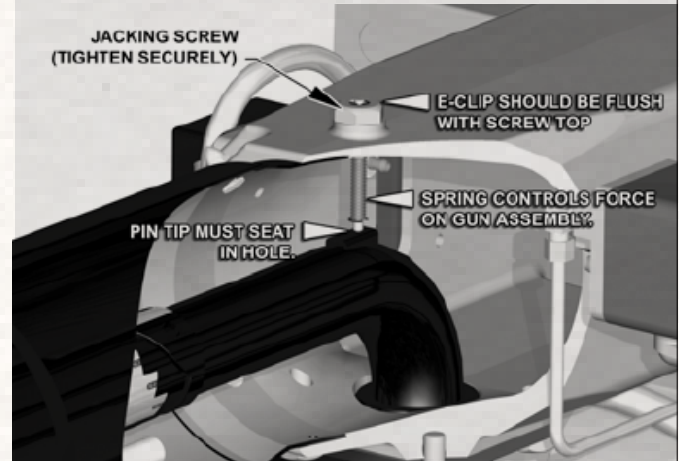
The gun assembly is secured inside the air tube by a spring-loaded jacking screw. It is spring loaded in order to control the force it can impose on the gun assembly. When installing the jacking screw look inside the air tube to verify that the pointed tip of the jacking screw pin is seated into the small slot on the locating pad on top of the gun. There is also an external verification of correct assembly: when the screw is fully tightened, the e-clip on the top of the center pin should come flush with the top of the screw (Reference figure to the right). Follow the steps below referencing the figures to the left.

1. Remove the jacking screw (B) from the housing to free the internal gas tube (C).
2. Gently rock the internal gas tube (C) to loosen the tube from the burner housing (D).
3. Inspect the O-rings and insure that they are properly lubricated. (A silicon O-ring lubricant is recommended, but automotive chassis or bearing grease is an acceptable substitute.)
4. Referring to **Figure 2**, place the restrictor (F) with pre-attached, pre-lubricated O-ring (G) into the internal gas tube (C). Use your hand to press the restrictor into the tube. The O-ring will hold the restrictor in place.
5. Insure that the O-ring (H), attached to the outside diameter of internal gas tube, is properly lubricated and seated against the flange on the internal gas tube.
6. Install the internal gas tube (C) back into the housing, refer to **Figure 1**. Fit the end of the tube into the external gas manifold (E).
7. Re-install the jacking screw (B). (Refer to the above notice for installation details.)
8. Fill out and place the supplied Conversion Data Plate adjacent to the rating plate.
9. Complete and attach the supplied Adjustment Data Tag to the burner.

NOTICE

With the gas restrictor installed, as shown in **Figures 1 & 2**, all burner air adjustments and gas manifold pressure adjustments for propane will be approximately the same as the natural gas adjustments shown in the burner manual, or printed on the "Mfr's Settings" label on the burner housing. For a copy of the current burner manual go to <http://www.beckettcorp.com/protect/tech.asp>. If further technical assistance is required, call 800-645-2876, Monday thru Friday, 8AM to 5PM EST.

Figure 2



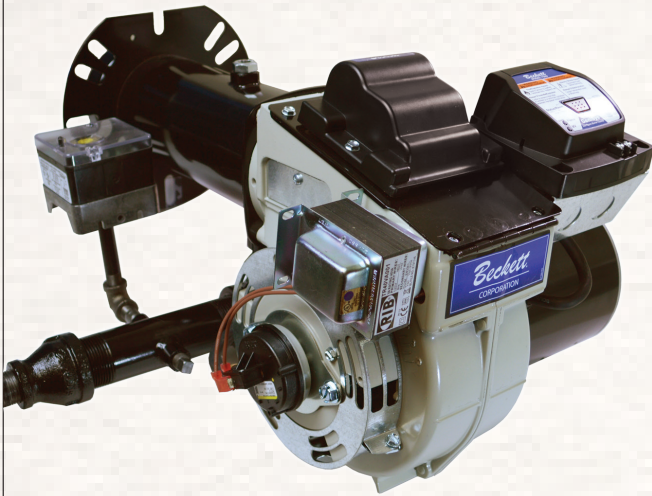
NOTICE

Use authorized replacement parts only. Restrictors are precision-machined parts and O-rings are rated for fuel contact. Do not attempt to replicate or modify any parts. Refer to below table.

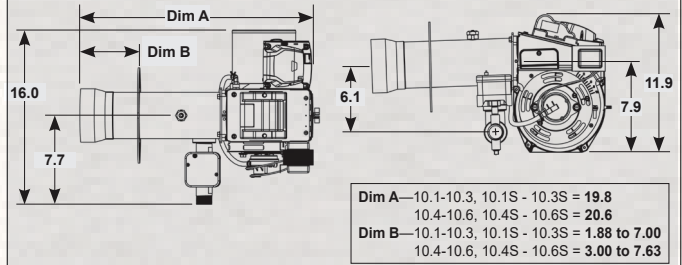
Replacement Part Numbers

Burner Model	Restrictor Part Number	Restrictor Inside Diameter
CG10.1	3246700U	0.401
CG10.2	3246701U	0.432
CG10.3, CG10.2S	3246702U	0.470
CG10.1S	3246703U	0.418
CG10.3S, CG10.6S	3246705U	0.510
CG10.4	3246723U	0.547
CG10.4S	3246706U	0.459
CG10.5	3246724U	0.578
CG10.5S	3246707U	0.482
CG10.6	3246725U	0.594
CG15.1S	3246709U	0.532
CG15.2S	3246710U	0.576
CG15.3S	3246711U	0.623
CG15.4S	3246712U	0.677
CG25.1S	3246713U	0.712
CG25.2S	3246714U	0.742
CG25.3S	3246715U	0.796
CG25.4S	3246716U	0.833
CG25.5S	3246717U	0.889
CG50.1S	3246718U	0.925
CG50.2S	3246719U	0.980
CG50.3S	3246720U	1.031
CG50.4S	3246721U	1.103
CG50.5S	3246722U	1.150

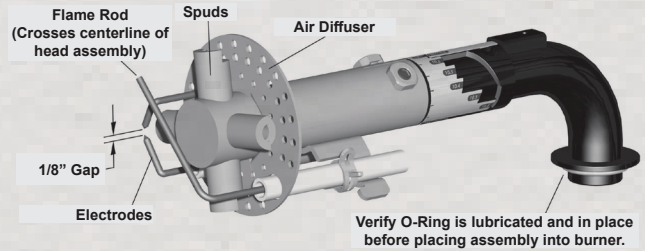
Spec Sheet CG10-24



Overall Dimensions



Gas Gun Assembly



Burner Specifications

Input Firing Rate *	300 - 1200 MBH
Firing Mode	On-Off or On/Off with Low Fire Start
Fuel	Natural gas - 0.64 specific gravity LP gas - 1.53 specific gravity
Required Input Gas Supply Pressure	3.5"WC minimum 14"WC maximum
Input Voltage **	120 Vac + 10% / -15%; 60 Hz
Input Current	4.8 Amp
Gas Train	UL Standard 24V
Burner Control	Beckett 7590C Direct Ignition
Flame Detection	Flame Rectification
Igniter	Beckett 7474002 Gas Igniter
Motor	1/3 HP, 3450 RPM 120 volt/ 60 hz, single phase
Combustion Air Proving	Differential Pressure Switch
Weight	40 lbs.
Mounting Orientation	Up to 90° from upright with motor shaft horizontal
Dimensions	11.8 x 13.5" x 20.6"
Acceptable Ambient Temperature Range	-4°F to +104°F
Acceptable Ambient Humidity	5% - 95% RH non-condensing

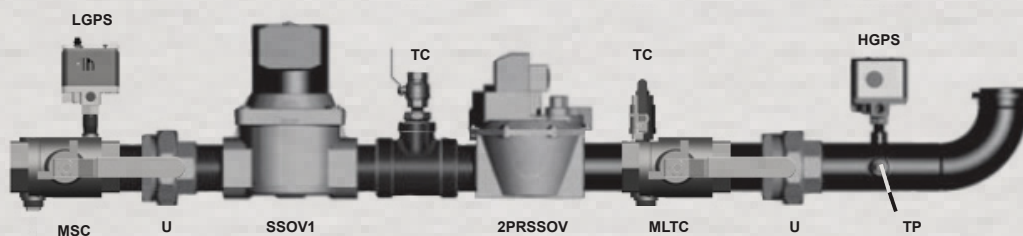
Features

S - Standard O - Optional N/A - Not Available	
On/Off with Low Fire Start	S
Propane Restrictor	O
Linkageless Low/High/Low or Low/High/Off	N/A
Modulation with Pressure/Temperature Modulating Controller	N/A
Right or Left Side Gas Train Connection	S
Air Pressure Switch	S
Low Gas Pressure Switch	S
High Gas Pressure Switch	S
Main Shutoff Cock, Leak Test Cock, Test Connections, and Test Cocks	S
Direct Spark Ignition of Main Flame	S
Beckett 7590C GeniSys with Flame Rod	S
Flame Safeguard with UV Sensor (see CG10 Literature)	N/A
Customized Electrical Cabinet	O
UL/CUL - CSD1 - Swiss Re	S
FM	O
IRI (old standard)	N/A
Power On - Fuel On, Indicator Light	O

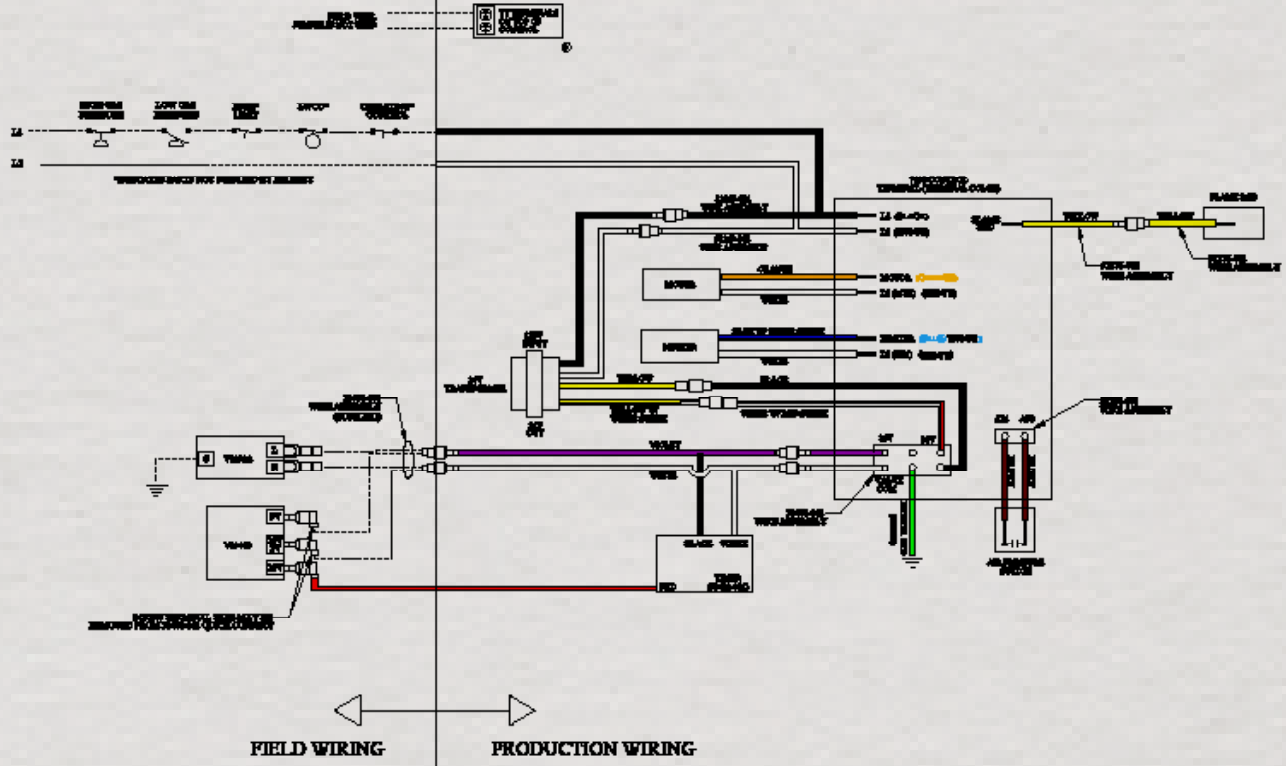
* For altitudes higher than 2,000 feet, derate the burner capacity 4% for each 1,000 feet above sea level.

** This burner is not approved for use in 50 Hz applications.

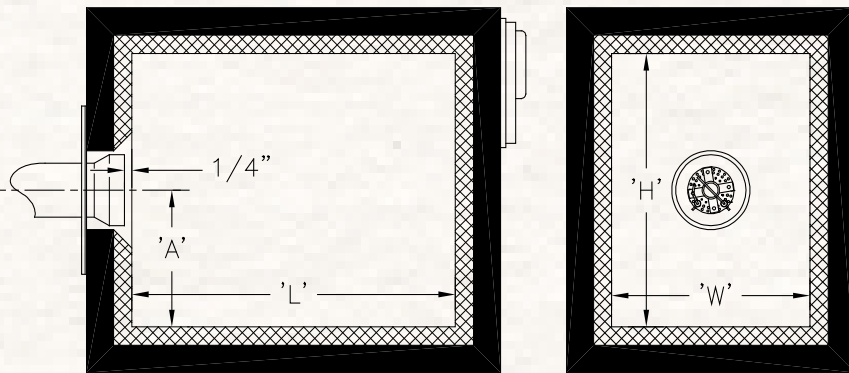
Gas Train Assembly (Typical Gas Train, other configurations are available)



Typical Wiring (Beckett 7590C GeniSys - for reference only)

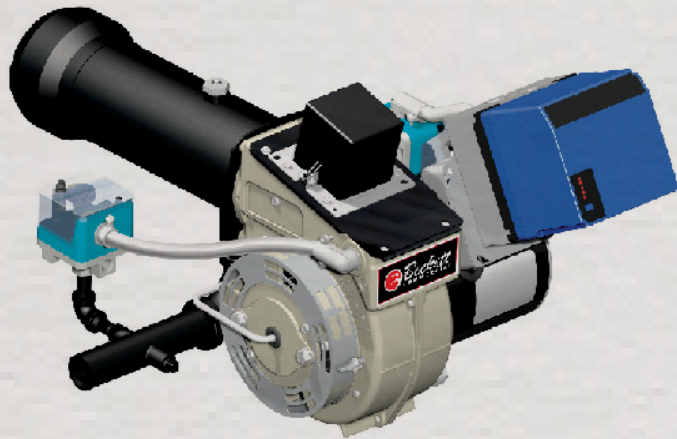


Combustion Chamber Dimensions

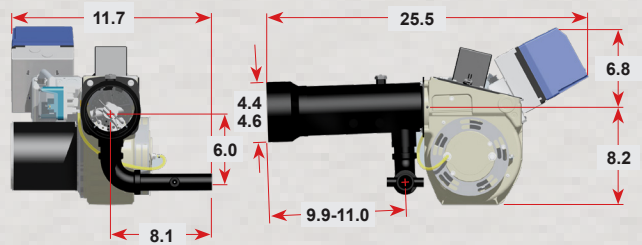


Minimum Combustion Chamber Dimensions (inches)

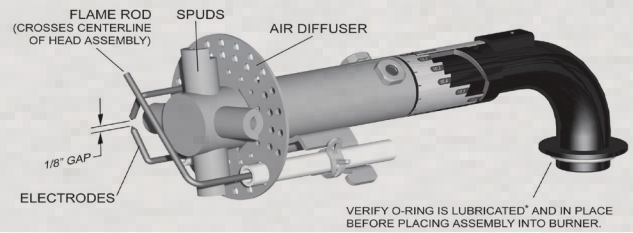
Input Firing Rate in MBH	'L' (Length)	'W' (Width)	'H' (Height)	Burner Head Centerline to floor 'A'
300-400	18	12	12	6
400-600	22	14	14	7
600-900	26	16	16	8
900-1200	30	18	18	9



Overall Dimensions



Gas Gun Assembly



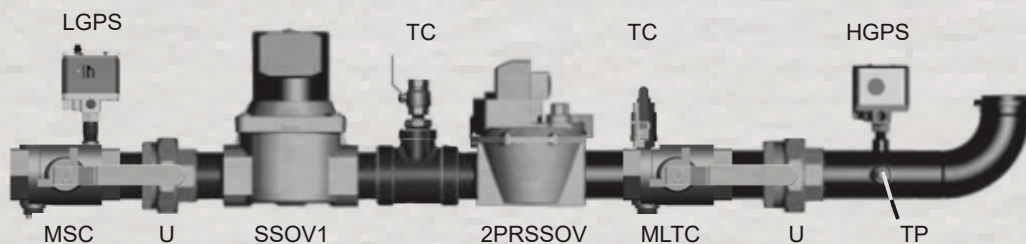
Specifications

Input firing range	300 to 1200 MBh
Fuel	Natural gas - 0.6 specific gravity typical
Gas train	Standard: UL listed/CSD-1 Configuration Options: IRI and FM
Manifold pressure	1.0 to 4.6 inches W.C. typical
Firing mode	On/Off or On/Off with Low Fire Start
Flame safeguard	RM7895A Standard (Options available)
Flame detection	Standard: Flame rod rectification Optional: Ultraviolet scanner
Air proving switch	Standard
Gas pressure switches	Standard high and low
Ignition	Direct spark main flame
Motor	Standard: 1/3 HP; 3450 RPM; 120 volt/60 hz, single phase Optional motor: 50 or 60 hz (see notice for 50 hz), 240 volt single phase
Weight	55 lbs.

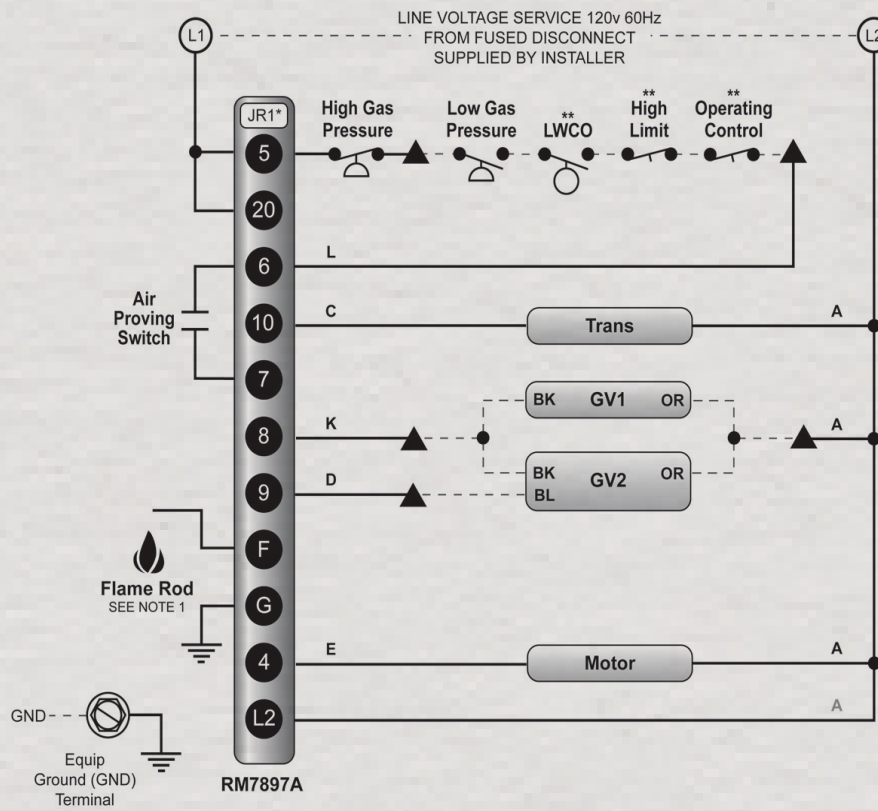
Features

S - Standard O - Optional N/A - Not Available	
On/Off with Low Fire Start	S
Propane Restrictor	O
Linkageless Low/High/Low or Low/High/Off	N/A
Modulation with Pressure/Temperature Modulating Controller	N/A
Right or Left Side Gas Train Connection	S
Air Pressure Switch	S
Low Gas Pressure Switch	S
High Gas Pressure Switch	S
Main Shutoff Cock, Leak Test Cock, Test Connections, and Test Cocks	S
Direct Spark Ignition of Main Flame	S
Flame Safeguard with Flame Rod	O
Flame Safeguard with UV Sensor	S
Customized Electrical Cabinet	O
UL/CUL - CSD1 - Swiss Re	S
FM	O
IRI (old standard)	O
Power On - Fuel On, Indicator Light	O

Gas Train Assembly (Typical Gas Train, other configurations are available)



Typical Wiring (Honeywell RM7897A - for reference only)



Legend:

- = Wired by Installer
- ** = Provided by Installer
- ▲ = Field Wiring Tie-in

Key:

- Trans - Ignition Transformer
- GV1 - On/Off Gas Valve
- GV2 - High/Low Valve
- LWCO - Low Water Cut-Off

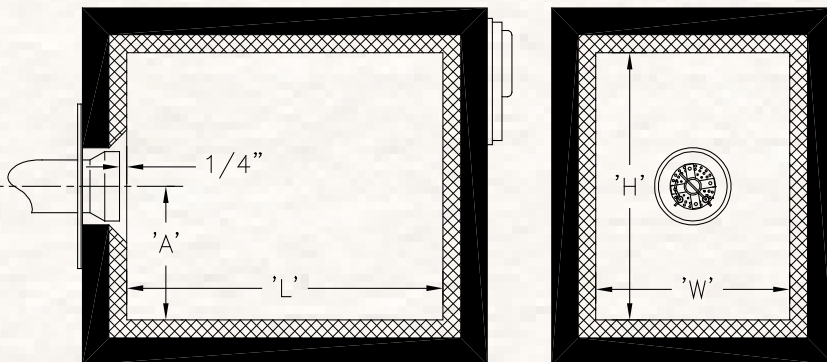
Wire Color:

- A - White
- B - Black
- C - Blue
- D - Orange
- E - Brown/Red
- G - Brown
- H - Red/White
- L - Black/Red

Notes:

1. For UV run white wire to G terminal and blue wire to F terminal. For flame rod run wire to F. G is a chassis ground.
2. * - clip & remove jumper JR1.
3. Where a boiler management system cannot supply motor power requirements an isolation relay should be used.

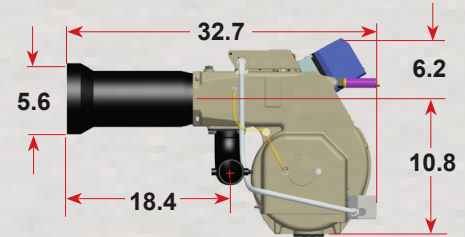
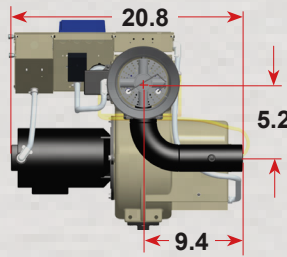
Combustion Chamber Dimensions



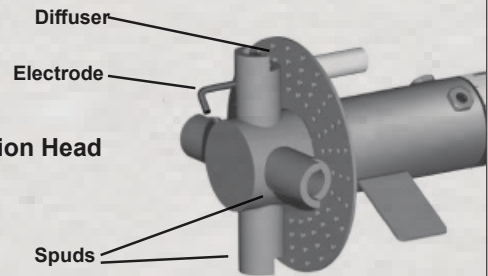
Minimum Combustion Chamber Dimensions (inches)

Input Firing Rate in MBH	'L' (Length)	'W' (Width)	'H' (Height)	Burner Head Centerline to floor 'A'
300-400	18	12	12	6
400-600	22	14	14	7
600-900	26	16	16	8
900-1200	30	18	18	9

Overall Dimensions



Combustion Head



Specifications

	USA	Canada
Input Firing Range†:		
High Fire (Max.)	1,500 MBH	1,370 MBH
High Fire (Min.)	800 MBH	800 MBH
Low Fire (Max.)	560 MBH	560 MBH
Low Fire (Min.)	350 MBH	350 MBH
Fuel:	Natural Gas: 0.6 Specific Gravity Typical Propane (LP): 1.53 Specific Gravity Typical	
Gas Train:	Standard: UL Listed / CSD-1 configuration Optional: IRI, FM	
Gas Train Inlet Pressure:	Minimum: 3.7" WC* Maximum: 10 PSI	
Manifold to Furnace Pressure Drop:	Highest High Fire: 3.7" WC Lowest High Fire: 2.7" WC	
Firing Modes Available:	Low Fire Start, High/Low, Modulation	
Standard Flame Safeguard:	Low Fire Start: RM7897A High / Low: RM7897C Modulation: RM7897C	
Flame Detector:	Standard: Flame Rod Optional: UV	
Airflow Proving Switch:	Standard	
Gas Pressure Switches:	Standard High and Low	
Ignition:	Direct Ignition of Main Flame	
Motor:	1/2HP; 3450 RPM; 120 volt, 1 ph, 60 Hz, 6.4 Amps @120 volt AC Optional Voltages: 208/230v, 1 ph, 60 Hz 208/230v, 3 ph, 60 Hz 460v, 3 ph, 60 Hz 575v, 3 ph, 60 Hz	
Weight:	125 lbs.	

Features

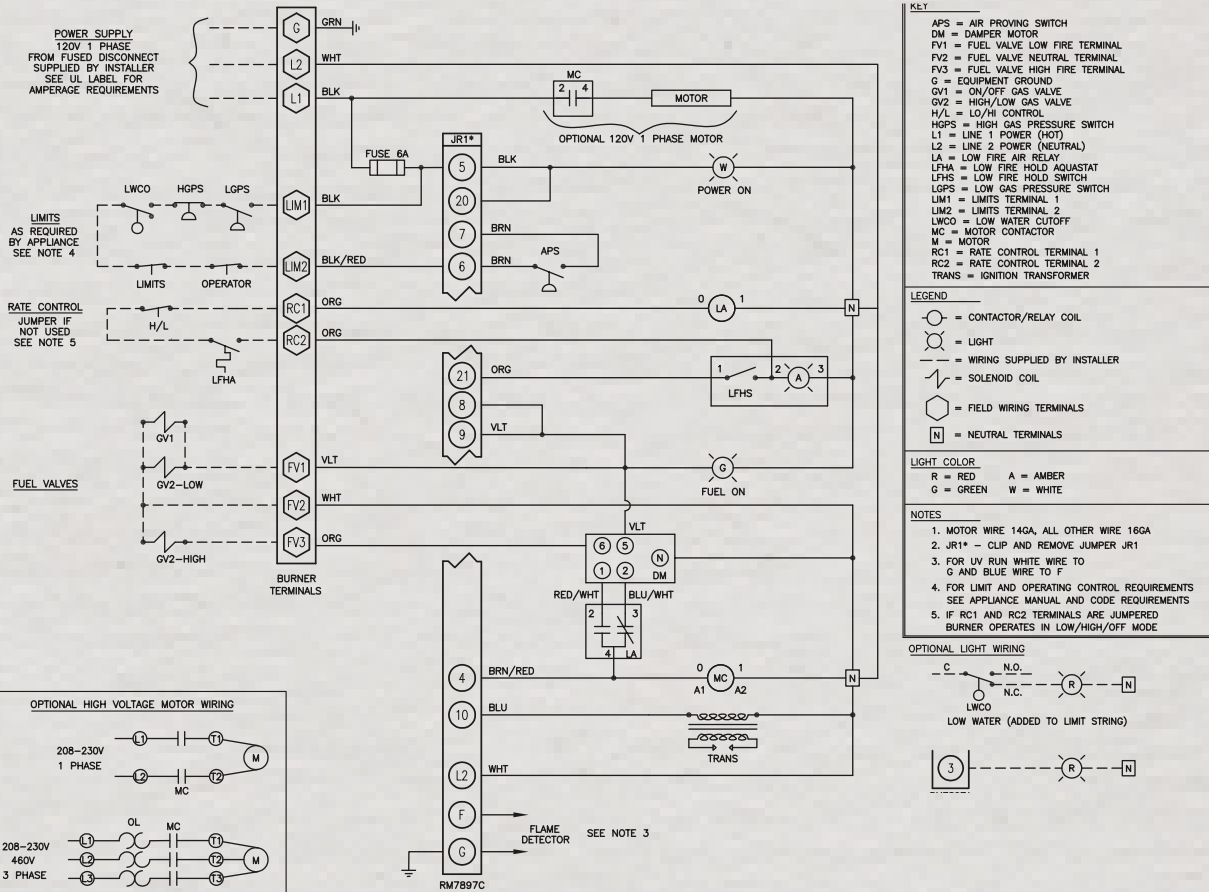
S - Standard O - Optional N/A - Not Available	
On/Off with Low Fire Start	N/A
Propane Restrictor	O
Linkageless Low/High/Low or Low/High/Off	S
Modulation with Pressure/ Temperature Modulating Controller	O
Right or Left Side Gas Train Connection	S
Air Pressure Switch	S
Low Gas Pressure Switch	S
High Gas Pressure Switch	S
Main Shutoff Cock, Leak Test Cock, Test Connections, and Test Cocks	S
Direct Spark Ignition of Main Flame	S
Flame Safeguard with Flame Rod	O
Flame Safeguard with UV Sensor	S
Customized Electrical Cabinet	O
UL/CUL - CSD1 - Swiss Re	S
FM	O
IRI (old standard)	O
Power On - Fuel On, Indicator Light	S

*See manufacturer's nameplate settings for specific minimum gas pressure requirements.

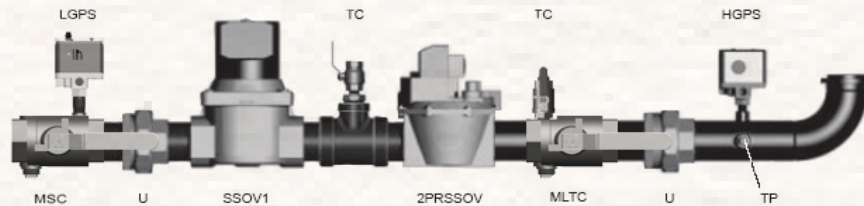
† Canada High Fire rate is reduced to accommodate 25% reserve air.

Spec Sheet CG15

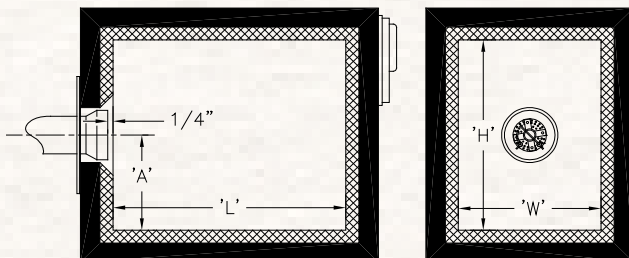
Typical Wiring Using Model RM7897C for High/Low Control (For Reference Only)



Gas Train Assembly (Typical Gas Train, other configurations are available)



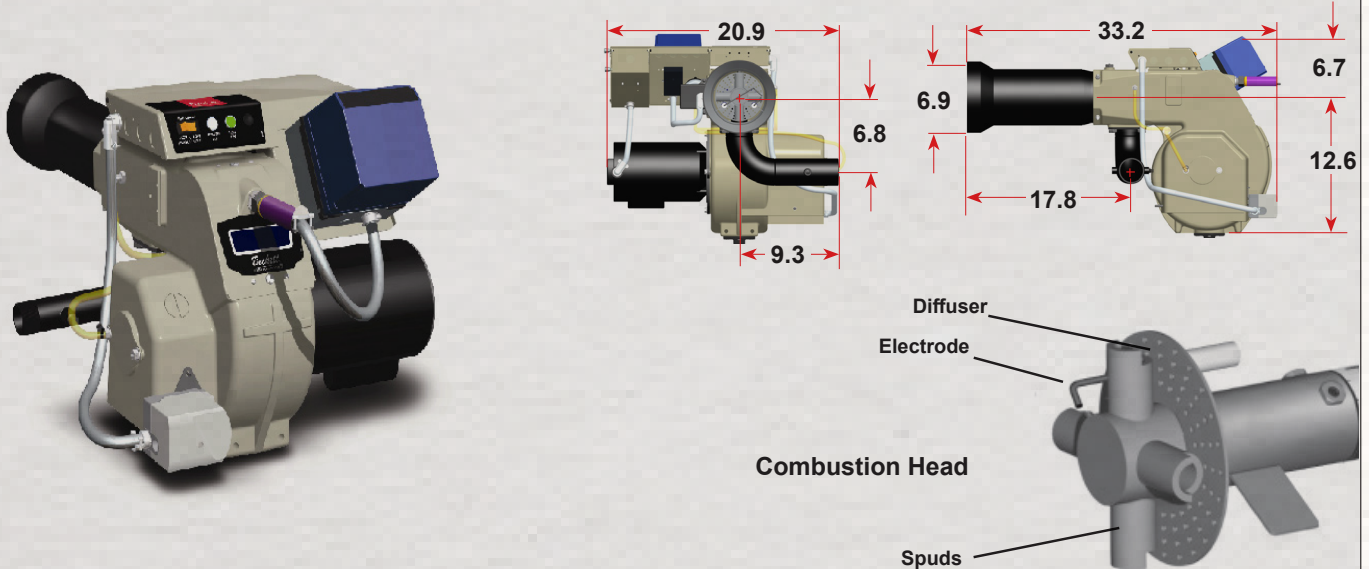
Combustion Chamber Dimensions



Minimum Inside Dimensions (inches)

Burner Model	Width 'W'	Height 'H'	Length 'L' at Min H & W*	Burner Head Centerline to floor 'A'
CG15.1S	15	16	42	7
CG15.2S	16	17	45	8
CG15.3S	17	18	47	8
CG15.4S	18	19	50	9

Overall Dimensions



Specifications

	USA	Canada
Input Firing Range[†]:		
High Fire (Max.)	2,700 MBH	2,300 MBH
High Fire (Min.)	1,300 MBH	1,300 MBH
Low Fire (Max.)	990 MBH	990 MBH
Low Fire (Min.)	550 MBH	550 MBH
Fuel:	Natural Gas: 0.6 Specific Gravity Typ. Propane (LP): 1.53 Specific Gravity Typ.	
Gas Train:	Standard: UL Listed / CSD-1 configuration Options: IRI, FM	
Gas Train Inlet Pressure:	Minimum: 3.5" WC* Maximum: 10 PSI	
Manifold to Furnace Pressure Drop:	Highest High Fire: 3.5" WC Lowest High Fire: 2.5" WC	
Firing Modes Available:	High/Low, Modulation	
Standard Flame Safeguard:	High / Low: RM7897C Modulation: RM7840L	
Flame Detector:	Standard: UV	
Airflow Proving Switch:	Standard	
Gas Pressure Switches:	Standard High and Low	
Ignition:	Direct Ignition of Main Flame	
Motor:	3/4 HP, 3450 RPM, 120 volt, 1 ph, 60 Hz 10.4 Amps @120 volt AC Optional Voltages: 208/230v, 1 ph, 60 Hz 208/230v, 3 ph, 60 Hz 460v, 3 ph, 60 Hz 575v, 3 ph, 60 Hz	
Weight:	145 lbs.	

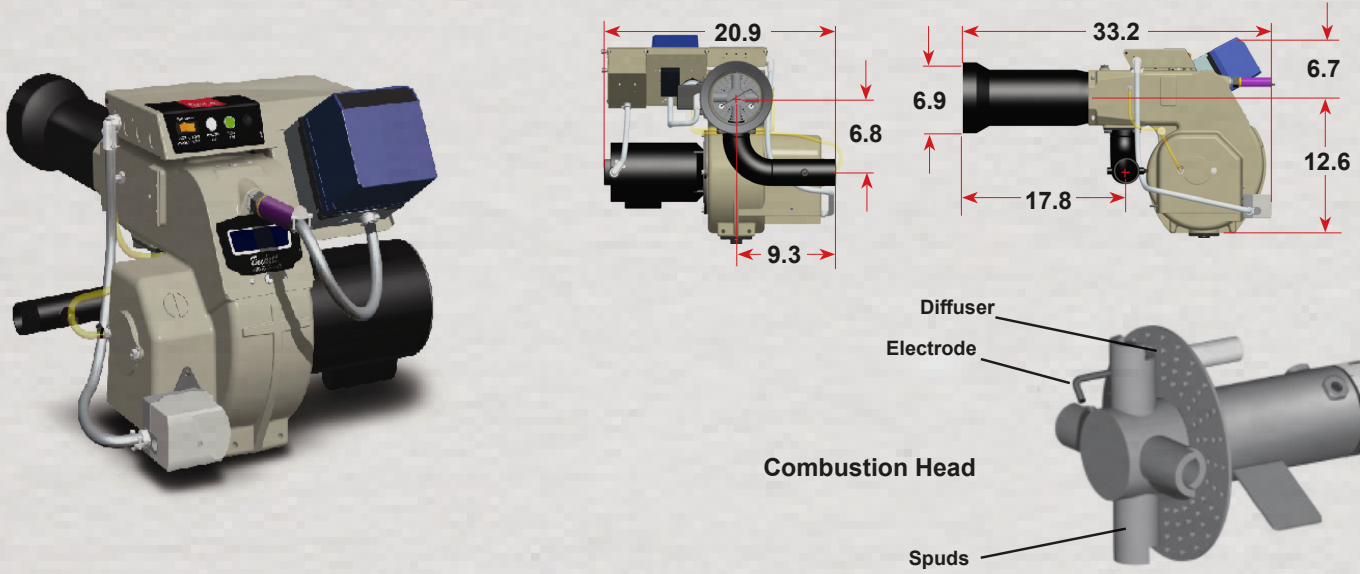
Features

S - Standard O - Optional N/A - Not Available	
On/Off with Low Fire Start	N/A
Propane Restrictor ¹	O
Linkageless Low/High/Low or Low/High/Off	S
Modulation with Pressure/ Temperature Modulating Controller	O
Right or Left Side Gas Train Connection	S
Air Pressure Switch	S
Low Gas Pressure Switch	S
High Gas Pressure Switch	S
Main Shutoff Cock, Leak Test Cock, Test Connections, and Test Cocks	S
Direct Spark Ignition of Main Flame	S
Flame Safeguard with Flame Rod	O
Flame Safeguard with UV Sensor	S
Customized Electrical Cabinet ²	O
UL/CUL - CSD1 - Swiss Re ³	S
FM	O
IRI (old standard)	O
Power On - Fuel On, Indicator Light	S

*See manufacturer's nameplate settings for specific minimum gas pressure requirements.

† Canada High Fire rate is reduced to accommodate 25% reserve air.

Overall Dimensions



Specifications

	USA	Canada
Input Firing Range†:		
High Fire (Max.)	5,000 MBH	4,000 MBH
High Fire (Min.)	2,000 MBH	2,000 MBH
Low Fire (Max.)	1,400 MBH	1,400 MBH
Low Fire (Min.)	730 MBH	730 MBH
Fuel:	Natural Gas: 0.6 Specific Gravity Typ. Propane (LP): 1.53 Specific Gravity Typ.	
Gas Train:	Standard: UL Listed / CSD-1 configuration Options: IRI, FM	
Gas Train Inlet Pressure:	Minimum: 3.5" WC* Maximum: 10 PSI	
Manifold to Furnace Pressure Drop:	Highest High Fire: 3.5" WC Lowest High Fire: 2.5" WC	
Firing Modes Available:	High/Low, Modulation	
Standard Flame Safeguard:	High / Low: RM7897C Modulation: RM7840L	
Flame Detector:	Standard: UV	
Airflow Proving Switch:	Standard	
Gas Pressure Switches:	Standard High and Low	
Ignition:	Direct Ignition of Main Flame	
Motor:	2 HP, 3450 RPM, 208/230 volt, 1 ph, 60 Hz 13.4 Amps @230 volt AC Optional Voltages: 208/230v, 3 ph, 60 Hz 460v, 3 ph, 60 Hz 575v, 3 ph, 60 Hz	
Weight:	165 lbs.	

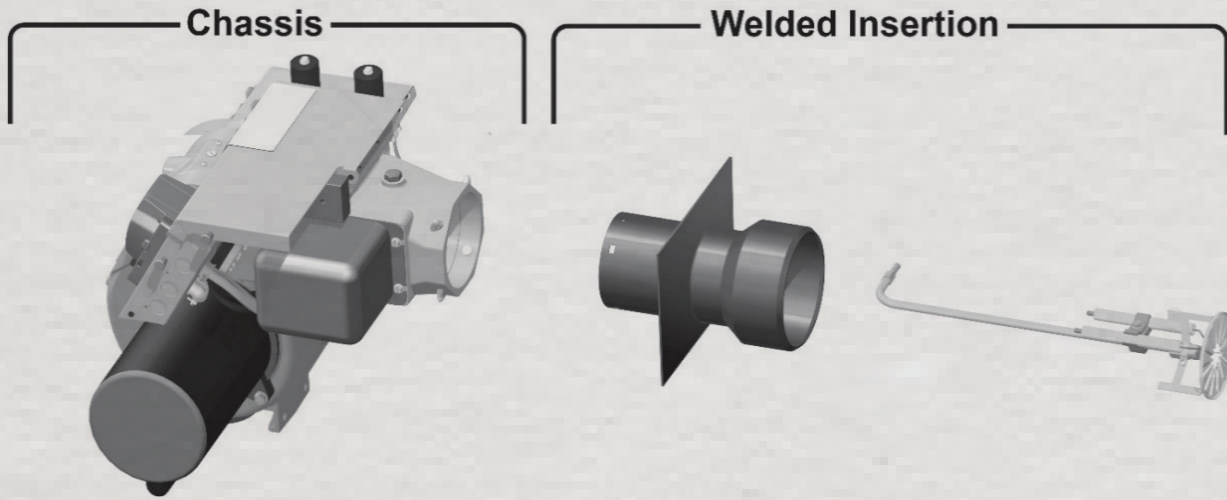
Features

S - Standard O - Optional N/A - Not Available	
On/Off with Low Fire Start	N/A
Propane Restrictor ¹	O
Linkageless Low/High/Low or Low/High/Off	S
Modulation with Pressure/ Temperature Modulating Controller	O
Right or Left Side Gas Train Connection	S
Air Pressure Switch	S
Low Gas Pressure Switch	S
High Gas Pressure Switch	S
Main Shutoff Cock, Leak Test Cock, Test Connections, and Test Cocks	S
Direct Spark Ignition of Main Flame	S
Flame Safeguard with Flame Rod	O
Flame Safeguard with UV Sensor	S
Customized Electrical Cabinet ²	O
UL/CUL - CSD1 - Swiss Re ³	S
FM	O
IRI (old standard)	O

*See manufacturer's nameplate settings for specific minimum gas pressure requirements.

† Canada High Fire rate is reduced to accommodate 25% reserve air.

Commercial Oil Burner - Chassis



Ordering Note: Complete oil burners are ordered by Chassis Part Number + Welded Insertion Part Number.

Commercial Oil Burner Chassis Specifications

Part Number	Burner Model	Rate Control	Control
BCF3907	CF375	On/Off	GeniSys 7505P1515
BCF809	CF500	On/Off	GeniSys 7505P1515
BCF806	CF500	On/Off	GeniSys 7505P1515
BCF403	CF800	On/Off	GeniSys 7505P1515
BCF408	CF800	On/Off	GeniSys 7505P1515
BCF101	CF1000	On/Off	GeniSys 7505P1515
BCF205	CF1400	Low/Hi/Low	GeniSys 7505P1515
BCF206	CF1400	Low/Hi/Low	GeniSys 7505P1515
BCF304	CF2300A	Low/Hi/Low	GeniSys 7505P1515
BCF305	CF2300A	Low/Hi/Low	GeniSys 7505P1515
BCF3001	CF2500A	Low/Hi/Low	GeniSys 7505P1515
BCF3002	CF2500A	Low/Hi/Low	GeniSys 7505P1515
BCF1801	CF2500	Low/Hi/Low	Honeywell RM7897A-1002 Requires UV sighting tube to be installed.
BCF1802	CF2500	Low/Hi/Low	
BCF1301	CF3500	Low/Hi/Low	
BCF1302	CF3500	Low/Hi/Low	

Commercial Oil Burner OEM Specs

Buderus . G215, G315, G515, G615 Series

Boiler Model	Part Number	Firing Rate (Max. GPH)	Burner Model	Welded Insertion	Nozzle
G215-5	BCF3907	1.75	CF375	51514084	.90 x 45ES
G215-6	BCF3907	2.10	CF375	51514083	1.10 x 45ES
G215-7	BCF3907	2.50	CF375	51514083	1.35 x 45ES
G315-5	BCF809	3.00	CF500	51514111	2.50 x 45P
G315-6	BCF403	3.85	CF800	51514059	3.25 x 45P
G315-7	BCF403	4.70	CF800	51514059	4.00 x 45P
G315-8	BCF205	5.50	CF1400	51514101	3.25 x 45P
G315-9	BCF205	6.40	CF1400	51514101	3.75 x 45P
G515-7	BCF205	6.90	CF1400	51514069	4.00 x 60P
G515-8	BCF205	8.14	CF1400	51514069	5.00 x 60P
G515-9	BCF304	10.00	CF2300	51514112	5.50 x 60P
G515-10	BCF304	11.60	CF2300	51514112	6.50 x 45P
G515-11	BCF304	13.00	CF2300	51514112	7.50 x 45P
G515-12	BCF304	14.60	CF2300	51514112	8.50 x 45P
G615-9	BCF304	16.00	CF2300	51514080	9.00 x 45P
G615-10	BCF3001	18.50	CF2500A	Call Factory	5.00 x 45P (2)
G615-11	BCF1801	21.00	CF2500	Call Factory	6.00 x 45P (2)
G615-12	BCF1301	23.50	CF3500	Call Factory	6.50 x 45P (2)
G615-13	BCF1301	26.00	CF3500	Call Factory	7.50 x 45P (2)
G615-14	BCF1301	28.50	CF3500	Call Factory	8.50 x 45P (2)

Burnham . V9A

Boiler Model	Part Number	Firing Rate (Max. GPH)	Burner Model	Welded Insertion	Nozzle
V903A	BCF809	2.75	CF500	51514091	2.25 x 60P
V904A	BCF403	3.50	CF800	51514092	3.00 x 45P
V906A	BCF403	4.60	CF800	51514092	4.00 x 60P
V906A	BCF205	5.80	CF1400	51514093	5.00 x 60P
V907A	BCF205	6.90	CF1400	51514093	4.00 x 45P
V908A	BCF205	8.00	CF1400	51514094	4.50 x 45P
V909A	BCF304	9.10	CF2300	51514095	5.00 x 45P
V910A	BCF304	10.20	CF2300	51514095	5.50 X 45P
V911A	BCF3001	11.40	CF2500A	51514096	6.50 X 45P (2)
V912A	BCF3001	12.60	CF2500A	51514096	7.00 X 45P (2)

Commercial Oil Burner OEM Specs

Burnham V11 Series

Boiler Model	Part Number	Firing Rate (Max. GPH)	Burner Model	Welded Insertion	Nozzle
V1104	BCF205	5.80	CF1400	51514113	3.50 x 45P
V1105	BCF205	7.40	CF1400	51514047	4.50 x 45P
V1106	BCF205	9.20	CF1400	51514047	5.50 x 45P
V1107	BCF304	11.00	CF2300	51514114	6.50 x 45P
V1108	BCF304	13.00	CF2300	51514114	7.50 x 45P
V1109	BCF304	14.80	CF2300	51514114	8.50 x 45P
V1110	BCF304	16.60	CF2300	51514114	9.50 x 45P
V1111	BCF304	18.40	CF2300	51514114	10.50 x 45P
V1112	BCF1801	20.00	CF2500	51514074	5.50 x 45P (2)
V1113	BCF1801	21.50	CF2500	51514074	6.00 x 45P (2)
V1114	BCF1301	23.50	CF3500	Call Factory	6.50 x 45P (2)
V1115	BCF1301	25.50	CF3500	Call Factory	7.00 x 45P (2)
V1116	BCF1301	27.00	CF3500	Call Factory	7.50 x 45P (2)

Burnham . MPC Series

Boiler Model	Part Number	Firing Rate (Max. GPH)	Burner Model	Welded Insertion	Nozzle
MPC-4	BCF809	3.55	CF500	51514131	2.75 x 70P
MPC-5	BCF403	5.50	CF800	51514132	4.50 x 70P
MPC-6	BCF205	7.10	CF1400	51514047	4.25 x 60P
MPC-7	BCF205	7.80	CF1400	51514047	5.00 x 45P
MPC-8	BCF304	10.20	CF2300	51514114	6.00 x 45P
MPC-9	BCF304	11.20	CF2300	51514114	7.00 x 45P
MPC-10	BCF304	13.40	CF2300	51514114	8.00 x 45P
MPC-11	BCF3001	15.00	CF2500A	51514074	4.50 x 45P (2)
MPC-12	BCF3001	16.60	CF2500A	51514074	5.00 x 45P (2)
MPC-13	BCF3001	18.20	CF2500A	51514074	5.50 x 45P (2)
MPC-14	BCF3001	19.20	CF2500A	51514074	6.00 x 45P (2)
MPC-15	BCF1801	21.50	CF3500	51514074	6.50 x 45P (2)
MPC-16	BCF1301	23.00	CF3500	Call Factory	7.00 x 45P (2)
MPC-17	BCF1301	24.50	CF3500	Call Factory	7.50 x 45P (2)
MPC-18	BCF1301	26.00	CF3500	Call Factory	8.00 x 45P (2)

Crown . 24 Series

Boiler Model	Part Number	Firing Rate (Max. GPH)	Burner Model	Welded Insertion	Nozzle
24-3	BCF809	2.75	CF500	51514091	2.25 x 60P
24-4	BCF403	3.50	CF800	51514092	3.00 x 45P
24-5	BCF403	4.60	CF800	51514092	4.00 x 60P
24-6	BCF205	5.80	CF1400	51514093	5.00 x 60P
24-7	BCF205	6.90	CF1400	51514093	4.00 x 45P
24-8	BCF205	8.00	CF1400	51514094	4.50 x 45P
24-9	BCF304	9.10	CF2300	51514095	5.00 x 45P
24-10	BCF304	10.20	CF2300	51514095	5.50 x 45P
24-11	BCF3001	11.40	CF2500A	51514096	6.50 x 45P
24-12	BCF3001	12.60	CF2500A	51514096	7.00 x 45P

Commercial Oil Burner OEM Specs

PB Heat . SC, LC, TC, TCII, Series

Boiler Model	Part Number	Firing Rate (Max. GPH)	Burner Model	Welded Insertion	Nozzle
SC05	BCF809	3.00	CF500	51514064	2.50 x 60B
SC06	BCF809	3.50	CF500	51514064	3.00 x 60B
SC07	BCF403	4.00	CF800	51514012	3.25 x 45P
SC08	BCF403	4.50	CF800	51514012	3.75 x 45P
SC09	BCF403	5.00	CF800	51514012	4.00 x 45P
SC10	BCF403	5.50	CF800	51514012	4.50 x 45P
LC-04	BCF403	4.75	CF800	51514012	4.00 x 45P
LC-05	BCF205	6.10	CF1400	51514051	4.50 x 45P
LC-06	BCF205	7.50	CF1400	51514051	3.50 x 45P
LC-07	BCF205	8.80	CF1400	51514051	4.50 x 45P
LC-08	BCF304	10.20	CF2300	51514051	5.00 x 45P
LC-09	BCF304	11.60	CF2300	51514052	6.00 x 45P
LC-10	BCF304	12.80	CF2300	51514052	6.50 x 45P
LC-11	BCF304	14.20	CF2300	51514052	7.00 x 45P
LC-12	BCF304	15.60	CF2300	51514052	8.50 x 45P
LCE-13	BCF304	17.00	CF2300	51514052	9.00 x 45P
LCE-14	BCF304	18.40	CF2300	51514016	11.00 x 45P
LCE-15	BCF304	19.80	CF2300	51514016	12.00 x 45P
LCE-16	BCF1801	21.00	CF2500	Call Factory	6.00 x 45P (2)
LCE-17	BCF1801	22.50	CF2500	Call Factory	6.50 x 45P (2)
LCE-18	BCF1301	24.00	CF3500	Call Factory	7.00 x 45P (2)
LCE-19	BCF1301	25.00	CF3500	Call Factory	7.50 x 45P (2)
LCE-20	BCF1301	26.50	CF3500	Call Factory	8.00 x 45P (2)
TC-04	BCF205	8.00	CF1400	51514010	5.00 x 45P
TC-05	BCF205	10.40	CF1400	51514010	6.00 x 45P
TC-06	BCF304	12.60	CF1400	51514015	7.50 x 45P
TC-07	BCF304	15.00	CF2300	51514015	9.00 x 45P
TC-08	BCF304	17.40	CF2300	51514015	10.00 x 45P
TC-09	BCF304	19.60	CF2300	51514016	11.00 x 45P
TC-10	BCF1801	22.00	CF2500	51514106	6.50 x 45P (2)
TC-11	BCF1801	24.25	CF2500	51514106	7.00 x 45P (2)
TC-12	BCF1301	26.50	CF3500	51514105	8.00 x 45P (2)
TC-13	BCF1301	29.90	CF3500	Call Factory	9.00 x 45P (2)
TCII-04	BCF205	7.80	CF1400	51514010	4.50 x 45P
TCII-05	BCF205	9.50	CF1400	51514010	5.50 x 45P
TCII-06	BCF304	11.20	CF1400	51514015	6.50 x 45P
TCII-07	BCF304	13.90	CF2300	51514015	8.00 x 45P
TCII-08	BCF3001	16.40	CF2500A	51514106	5.00 x 45P (2)
TCII-09	BCF3001	18.20	CF2500A	51514106	5.50 x 45P (2)
TCII-10	BCF1801	20.80	CF2500	51514106	6.00 x 45P (2)
TCII-11	BCF1801	22.50	CF2500	51514106	6.50 x 45P (2)
TCII-12	BCF1301	25.10	CF3500	51514105	7.50 x 45P (2)
TCII-13	BCF1301	27.50	CF3500	Call Factory	8.00 x 45P (2)

Commercial Oil Burner OEM Specs

PB Heat . CC Series

Boiler Model	Part Number	Firing Rate (Max. GPH)	Burner Model	Welded Insertion	Nozzle
CC-3	BCF809	2.60	CF500	51514040	1.75 x 60ES
CC-4	BCF809	3.60	CF500	51514040	3.00 x 45B
CC-5	BCF403	5.00	CF800	51514065	4.00 x 45B
CC-6	BCF205	6.40	CF1400	51514061	4.00 x 45P
CC-7	BCF205	7.80	CF1400	51514061	4.50 x 45P
CC-8	BCF205	9.30	CF1400	51514061	5.50 x 45P
CC-9	BCF304	10.70	CF2300	51514066	6.50 x 45P
CC-10	BCF304	12.10	CF2300	51514066	7.00 x 45P
CC-11	BCF3001	13.50	CF2500A	51514070	5.00 x 45P (2)
CC-12	BCF3001	15.00	CF2500A	51514070	5.50 x 45P (2)

H.B Smith 19A/HE, 28A & 28HE

Boiler Model	Part Number	Firing Rate (Max. GPH)	Burner Model	Welded Insertion	Nozzle
19A/HE-3	BCF809	2.60	CF500	51514040	1.75 x 60ES
19A/HE-4	BCF809	3.60	CF500	51514040	3.00 x 45B
19A/HE-5	BCF403	5.00	CF800	51514065	4.00 x 45B
19A/HE-6	BCF205	6.40	CF1400	51514061	4.00 x 45P
19A/HE-7	BCF205	7.80	CF1400	51514061	4.50 x 45P
19A/HE-8	BCF205	9.30	CF1400	51514061	5.50 x 45P
19A/HE-9	BCF304	10.70	CF2300	51514066	6.50 x 45P
19A/HE-10	BCF304	12.10	CF2300	51514066	7.00 x 45P
19A/HE-11	BCF3001	13.50	CF2500A	51514070	5.00 x 45P (2)
19A/HE-12	BCF3001	15.00	CF2500A	51514070	5.50 x 45P (2)

28A-04	BCF205	8.00	CF1400	51514010	5.00 x 45P
28A-05	BCF205	10.40	CF1400	51514010	6.00 x 45P
28A-06	BCF304	12.60	CF1400	51514015	7.50 x 45P
28A-07	BCF304	15.00	CF2300	51514015	9.00 x 45P
28A-08	BCF304	17.40	CF2300	51514015	10.00 x 45P
28A-09	BCF304	19.60	CF2300	51514016	11.00 x 45P
28A-10	BCF1801	22.00	CF2500	51514106	6.50 x 45P (2)
28A-11	BCF1801	24.25	CF2500	51514106	7.00 x 45P (2)
28A-12	BCF1301	26.50	CF3500	51514105	8.00 x 45P (2)
28A-13	BCF1301	29.90	CF3500	Call Factory	9.00 x 45P (2)

28HE-04	BCF205	7.80	CF1400	51514010	4.50 x 45P
28HE-05	BCF205	9.50	CF1400	51514010	5.50 x 45P
28HE-06	BCF304	11.20	CF1400	51514015	6.50 x 45P
28HE-07	BCF304	13.90	CF2300	51514015	8.00 x 45P
28HE-08	BCF3001	16.40	CF2500A	51514106	5.00 x 45P (2)
28HE-09	BCF3001	18.20	CF2500A	51514106	5.50 x 45P (2)
28HE-10	BCF1801	20.80	CF2500	51514106	6.00 x 45P (2)
28HE-11	BCF1801	22.50	CF2500	51514106	6.50 x 45P (2)
28HE-12	BCF1301	25.10	CF3500	51514105	7.50 x 45P (2)
28HE-13	BCF1301	27.50	CF3500	Call Factory	8.00 x 45P (2)

Commercial Oil Burner OEM Specs

Weil-McLain 80, 88 Series 1 & Series 2

Boiler Model	Part Number	Firing Rate (Max. GPH)	Burner Model	Welded Insertion	Nozzle
380	BCF809	2.40	CF500	51514097	2.00 x 60P
480	BCF809	3.40	CF500	51514097	2.75 x 45P
580	BCF403	4.45	CF800	51514087	3.75 x 60P
680	BCF403	5.50	CF800	51514087	4.50 x 60P
780	BCF205	6.50	CF1400	51514088	3.75 x 45P
880	BCF205	7.50	CF1400	51514088	4.50 x 45P
980	BCF205	8.50	CF1400	51514088	5.00 x 45P
1080	BCF205	9.60	CF1400	51514089	5.50 x 45P
1180	BCF304	10.60	CF2300	51514090	6.50 x 45P
1280	BCF304	11.60	CF2300	51514090	7.00 x 45P
Series 1					
488	BCF205	6.90	CF1400	51514044	4.00 x 70B
588	BCF205	9.40	CF1400	51514044	5.50 x 70B
688	BCF205	11.80	CF2300	51514046	6.50 x 60B
788	BCF304	14.20	CF2300	51514046	8.00 x 60B
888	BCF304	16.60	CF2300	51514046	9.50 x 60B
988	BCF304	17.20	CF2500	51514046	11.00 x 45P
1088	BCF304	21.50	CF2500	51514026	6.00 x 60B (2)
1188	BCF304	23.50	CF3500	51514026	6.50 x 60B (2)
1288	BCF1801	26.00	CF3500	51514043	7.50 x 60B (2)
1388	BCF1801	28.50	CF3500	51514043	8.50 x 60B (2)
1488	BCF1301	29.50	CF3500	51514043	9.50 x 60B (2)
Series 2					
488	BCF205	7.00	CF1400	51514044	4.00 x 70B
588	BCF304	9.40	CF2300	51514046	5.50 x 70B
688	BCF304	11.80	CF2300	51514046	6.50 x 60B
788	BCF304	14.20	CF2300	51514046	8.00 x 60B
888	BCF3001	16.60	CF2500A	51514026	9.50 x 60B
988	BCF3001	17.20	CF2500A	51514026	11.00 x 45P
1088	BCF1801	21.50	CF2500	51514026	6.00 x 60B (2)
1188	BCF1801	23.50	CF2500	51514026	6.50 x 60B (2)
1288	BCF1301	26.00	CF3500	51514043	7.50 x 60B (2)
1388	BCF1301	28.50	CF3500	51514043	8.50 x 60B (2)

Scotch Marine . 3-Pass Steel Boilers

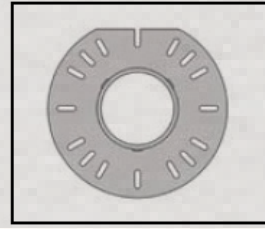
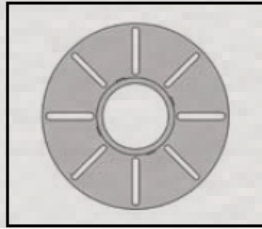
Boiler Model	Part Number	Firing Rate (Max. GPH)	Burner Model	Welded Insertion	Nozzle
20 HP	BCF205	6.00	CF1400	51514093	3.50 x 45P
30 HP	BCF205	9.50	CF1400	51514093	5.50 x 45P
40 HP	BCF304	12.00	CF2300	51514095	6.50 x 45P
50 HP	BCF304	15.60	CF2300	51514095	8.50 x 45P
60 HP	BCF304	18.00	CF2300	51514095	10.00 x 45P
70 HP	BCF1801	21.00	CF2500	51514074	6.00 x 45P (2)
80 HP	BCF1301	24.00	CF3500	51514129	6.50 x 45P (2)
90 HP	BCF1301	27.00	CF3500	Call Factory	7.50 x 45P (2)
100 HP	BCF1301	30.00	CF3500	Call Factory	8.50 x 45P (2)

Commercial Oil Burner - Retrofits

Flanges		CF375	CF500	CF800	CF1000 CF1400	CF2300	CF2500 CF3500 CF3500
Part No.	Description						
Adjustable Flange and Gasket Kits							
5432	Includes: 3800BK (8.25" O.D) Flange and 31653 Gasket	•					
5979	Includes: 31388 (9.94" O.D) Flange and 31411 Gasket				•		
51230	Includes: 31389 (12.44" O.D) Flange and 31436 Gasket					•	
Split Flange with Gastet							
5850	Includes: 585301BK & 585302BK (8.44" O.D.) and 31653 Gasket	•	•	•			
Standard Diameter Pressure Firing Flange Kit							
51311	Includes: 31562 (8.50" O.D.) Flange, 31563BK Pressure Plate, 31637 Gasket	•	•	•			
51312	Includes: 31388 (9.94" O.D.) Flange, 31551BK Pressure Plate, 31411 Gasket				•		
51313	Includes: 31389 (12.44" O.D.) Flange, 315505BK Pressure Plate, 31436 Gasket					•	
51498	Includes: 31699 (14.05" O.D.) Flange, 31703BK Pressure Plate, 31699 Gasket						•
Large Diameter Pressure Firing Flange Kit							
51628	Includes: 31849 (12.25" O.D.) Flange, 31854BK Pressure Plate, 31859 Gasket	•	•	•			
51629	Includes: 31850 (12.25" O.D.) Flange, 31855BK Pressure Plate, 31859 Gasket				•		
51630	Includes: 31851 (16" O.D.) Flange, 31856BK Pressure Plate, 31860 Gasket					•	
51631	Includes: 31852 (16" O.D.) Flange, 31857BK Pressure Plate, 31860 Gasket						•
Gasket							
31637	8.44" O.D.	•	•	•			
31411	10" O.D.				•		
31436	12.44" O.D					•	
31699	14" O.D						•

Commercial Oil Burner - Retrofits

Pedestal Kits		CF375	CF500	CF800	CF1000 CF1400	CF2300	CF2500 CF3500 CF3500
Part No.	Description						
5685	standard length	•	•	•			
5606	extended length	•	•	•			

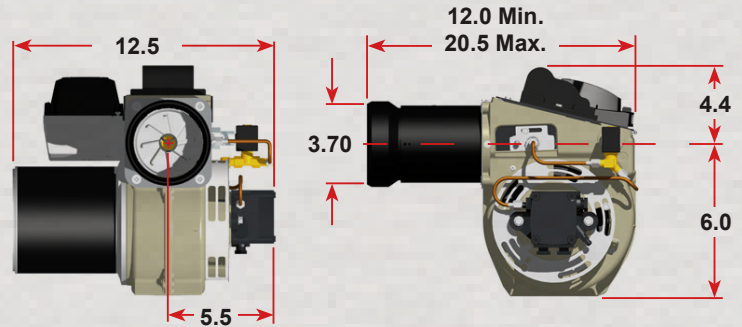


Voltage Options

Model #	Burner Firing Rate	220V - 1ph	220V-3ph	480V - 3 Phase	CSD-1
CF375	1.65 - 3.75	N/A	N/A	N/A	STD
CF500	2.25 - 5.50	N/A	N/A	N/A	STD
CF800	3.00 - 8.00	N/A	N/A	N/A	STD
CF1000	4.00 - 10.00	Adavailable	Adavailable	Adavailable	STD
CF1400	4.00 - 13.60	Adavailable	Adavailable	Adavailable	STD
CF2300A	7.00 - 19.90	Adavailable	Adavailable	Adavailable	STD
CF2500A	17.00 - 19.90	Adavailable	Adavailable	Adavailable	STD
CF2500	17.00 - 25.00	Adavailable	Adavailable	Adavailable	STD
CF3500	17.00 - 35.00	Adavailable	Adavailable	Adavailable	STD



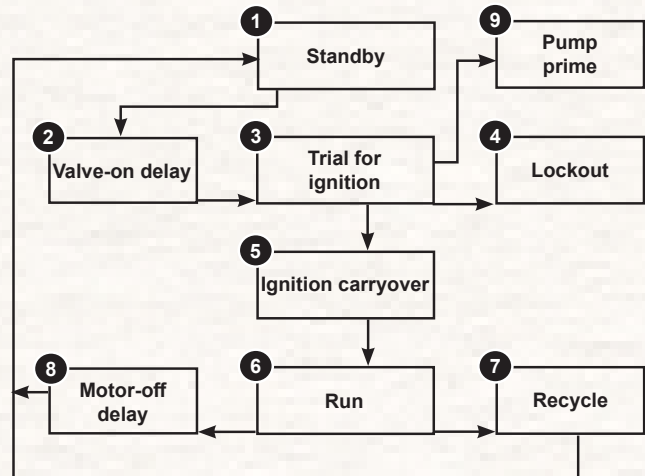
Overall Dimensions



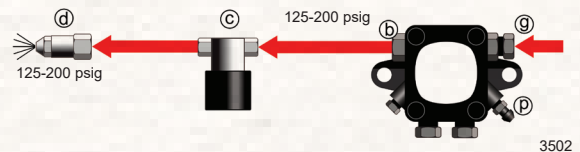
Specifications

Fuels:	U.S. #1 or #2 Fuel Oil only (ASTM D396) Canada #1 Stove Oil or #2 Furnace Oil only
Firing range:	CF375: 1.65 to 3.75 GPH
Motor:	1/7 HP 3450 RPM PSC 120/60 hz standard 1.7 amps @ 120 VAC
Igniter:	120V/12,000V
Housing:	Cast aluminum
Fuel unit:	100 - 200 PSIG
Oil nozzle:	45° - 70° solid
Shipping weight:	25 lbs.

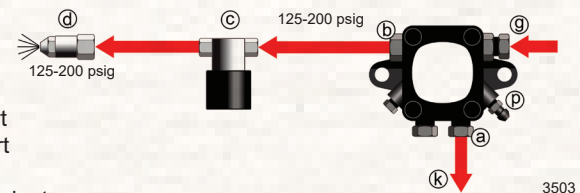
Sequence of Operation



One-pipe oil flow with "B" pump



Two-pipe oil flow with "B" pump



Legend

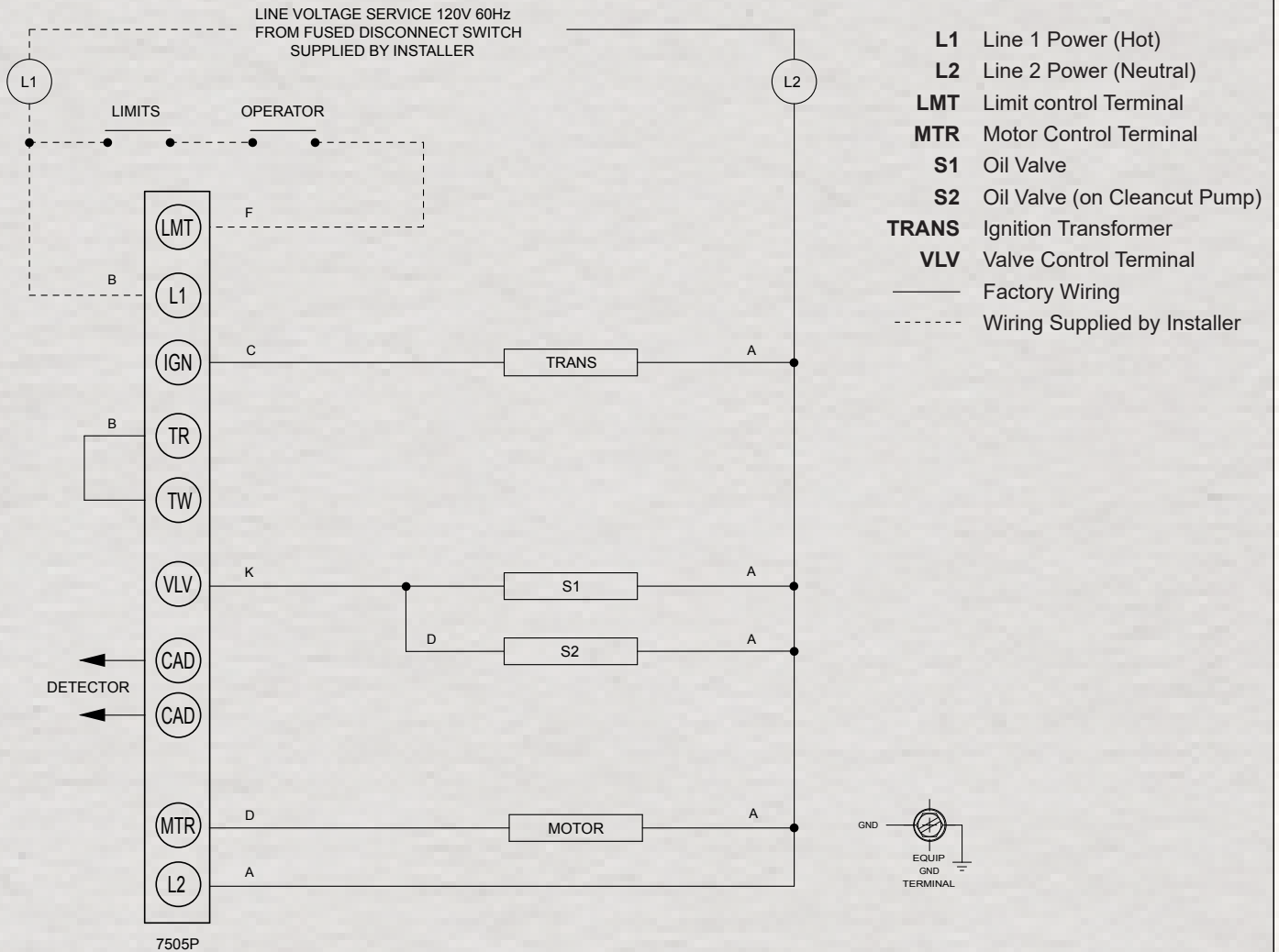
- a Return port
- b Nozzle port
- c Oil valve
- d Nozzle & adapter
- g Inlet port
- k Return line to oil tank
- p Air bleed valve

Features

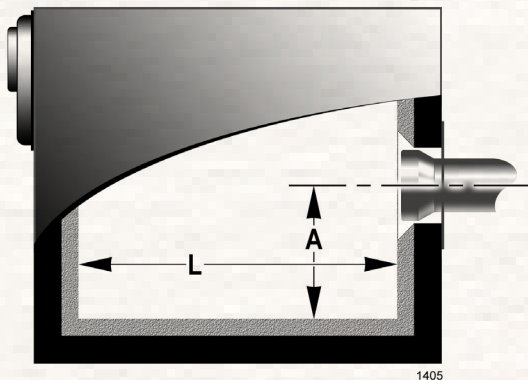
	S - Standard	O - Optional
On/Off	S	
Air Proving Switch	N/A	
Direct Spark Ignition of Main Flame	S	
Flame Safeguard with UV Sensor or Light Sensor	O	
Customized Electrical Cabinet	O	
UL/CUL - CSD1 - XL GAPS ¹	S	
FM	O	
IRI (old standard)	O	

Some regional codes are standard; some require additional options.

Typical Wiring



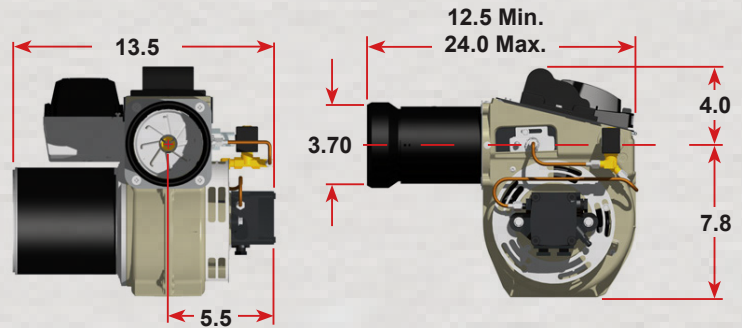
Combustion Chamber Dimensions



Firing Rate	Minimum Dimensions			
	(refractory-lined)		(wet-base boilers)	
	A	L	A	L
1.65 to 2.00 gph	5.5"	12.0"	5.5"	12.0"
2.00 to 3.75 gph	6.0"	15.0"	6.0"	20.0"



Overall Dimensions



Specifications

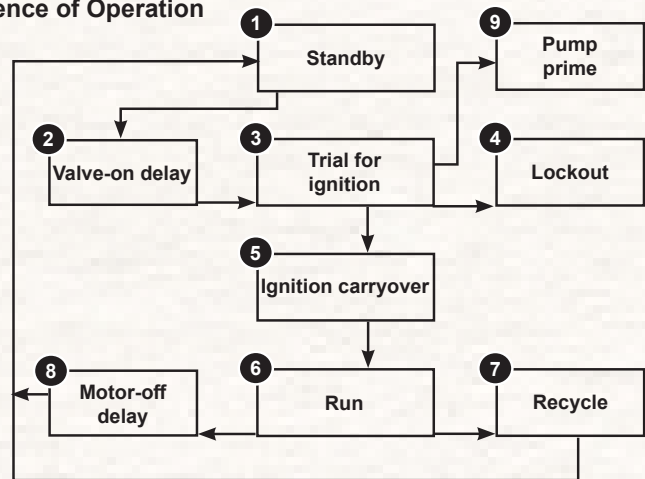
Fuels:	U.S. #1 or #2 Fuel Oil only (ASTM D396) Canada #1 Stove Oil or #2 Furnace Oil only
Firing range:	CF500: 1.75 to 5.50 GPH
Motor:	1/3 HP 3450 RPM 120/60 hz standard 4.8 amps @ 120 VAC
Igniter:	120V/14,000V
Housing:	Cast aluminum
Fuel unit:	100 - 200 PSIG
Oil nozzle:	45° - 70° solid
Shipping weight:	55 lbs.

Features

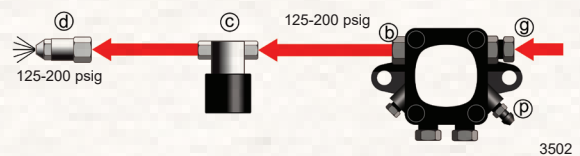
	S - Standard	O - Optional
On/Off	S	
Air Proving Switch		O
Direct Spark Ignition of Main Flame	S	
Flame Safeguard with UV Sensor or Light Sensor		O
Customizevd Electrical Cabinet		O
UL/CUL - CSD1 - XL GAPS ¹	S	
FM		O
IRI (old standard)		O

¹ Some regional codes are standard; some require additional options.

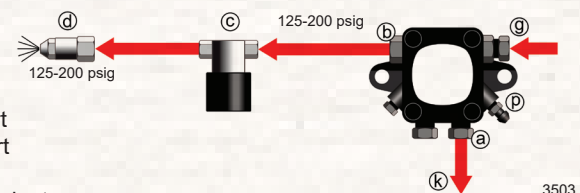
Sequence of Operation



One-pipe oil flow with "B" pump



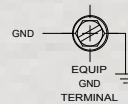
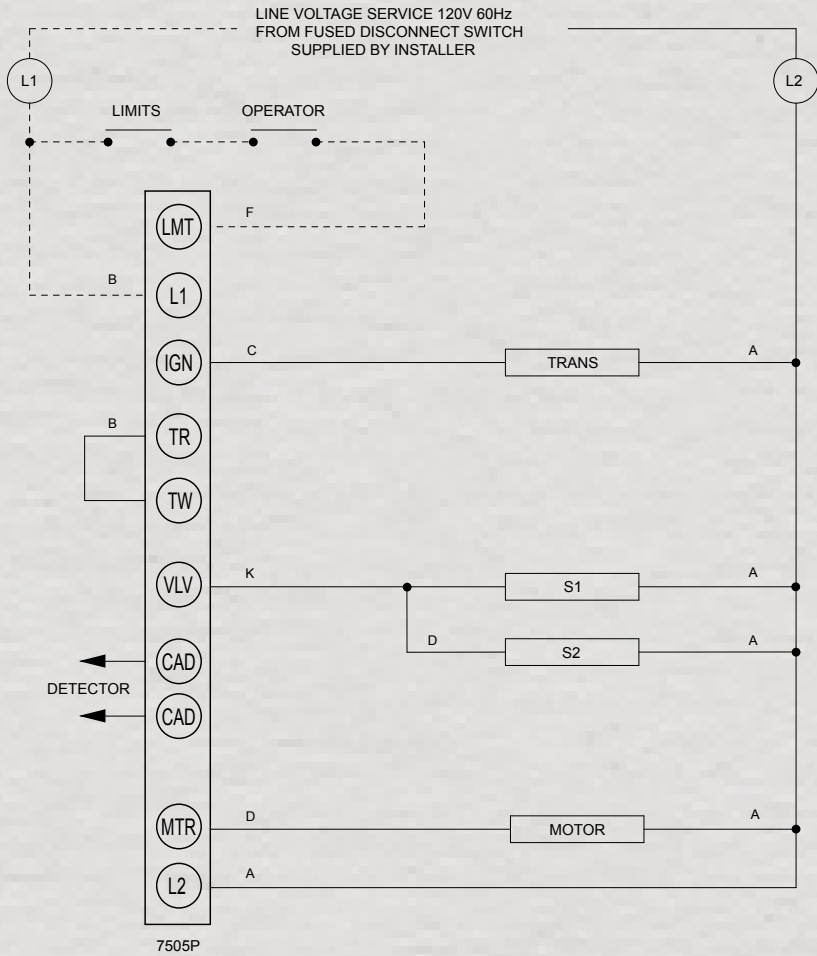
Two-pipe oil flow with "B" pump



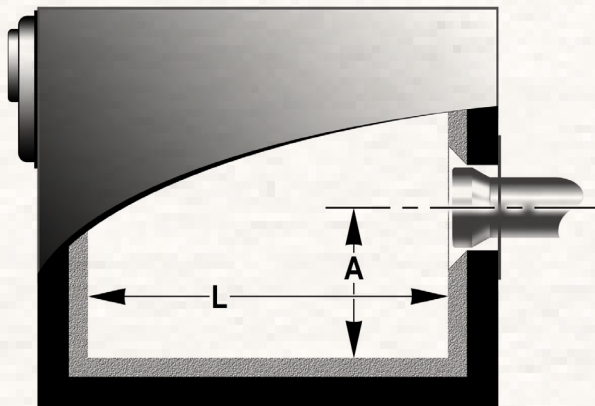
Legend

- a Return port
- b Nozzle port
- c Oil valve
- d Nozzle & adapter
- g Inlet port
- k Return line to oil tank
- p Air bleed valve

Typical Wiring



Combustion Chamber Dimensions

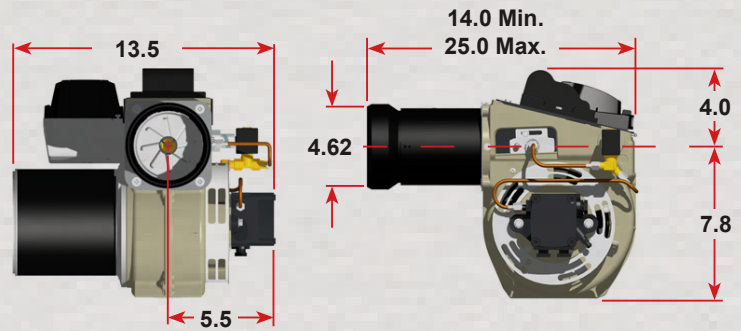


1405

Firing Rate	Minimum Dimensions			
	(with damper)		(without damper)	
	A	L	A	L
1.75 to 3.00 gph	7.5"	18.0"	8.0"	19.0"
4.00 gph	8.0"	21.0"	9.5"	23.0"
5.00 gph	9.0"	23.0"	10.5"	30.0"
6.00 gph	10.0"	28.0"	11.5"	40.0"
7.00 gph	11.0"	34.0"	12.0"	46.0"
8.00 gph	14.0"	38.0"	14.0"	51.0"



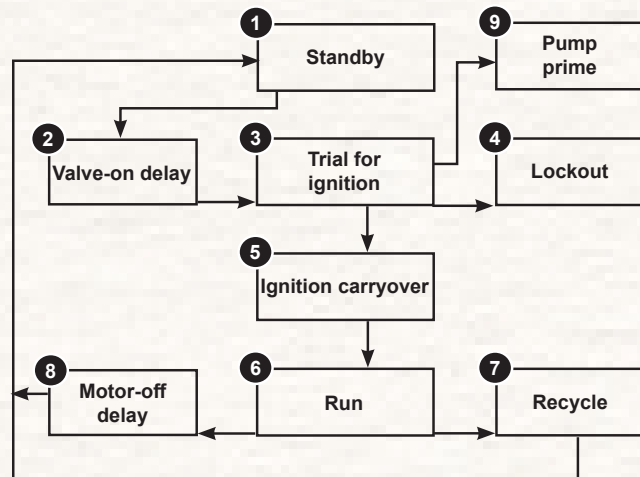
Overall Dimensions



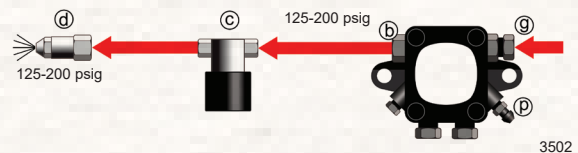
Specifications

Fuels:	U.S. #1 or #2 Fuel Oil only (ASTM D396) Canada #1 Stove Oil or #2 Furnace Oil only
Firing range:	CF800: 3.00 to 8.00 GPH
Motor:	1/3 HP 3450 RPM 120/60 hz standard 4.8 amps @ 120 VAC
Igniter:	120V/14,000V
Housing:	Cast aluminum
Fuel unit:	100 - 200 PSIG
Oil nozzle:	45° - 70° solid
Shipping weight:	55 lbs.

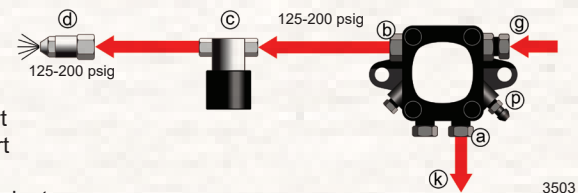
Sequence of Operation



One-pipe oil flow with "B" pump



Two-pipe oil flow with "B" pump



Legend

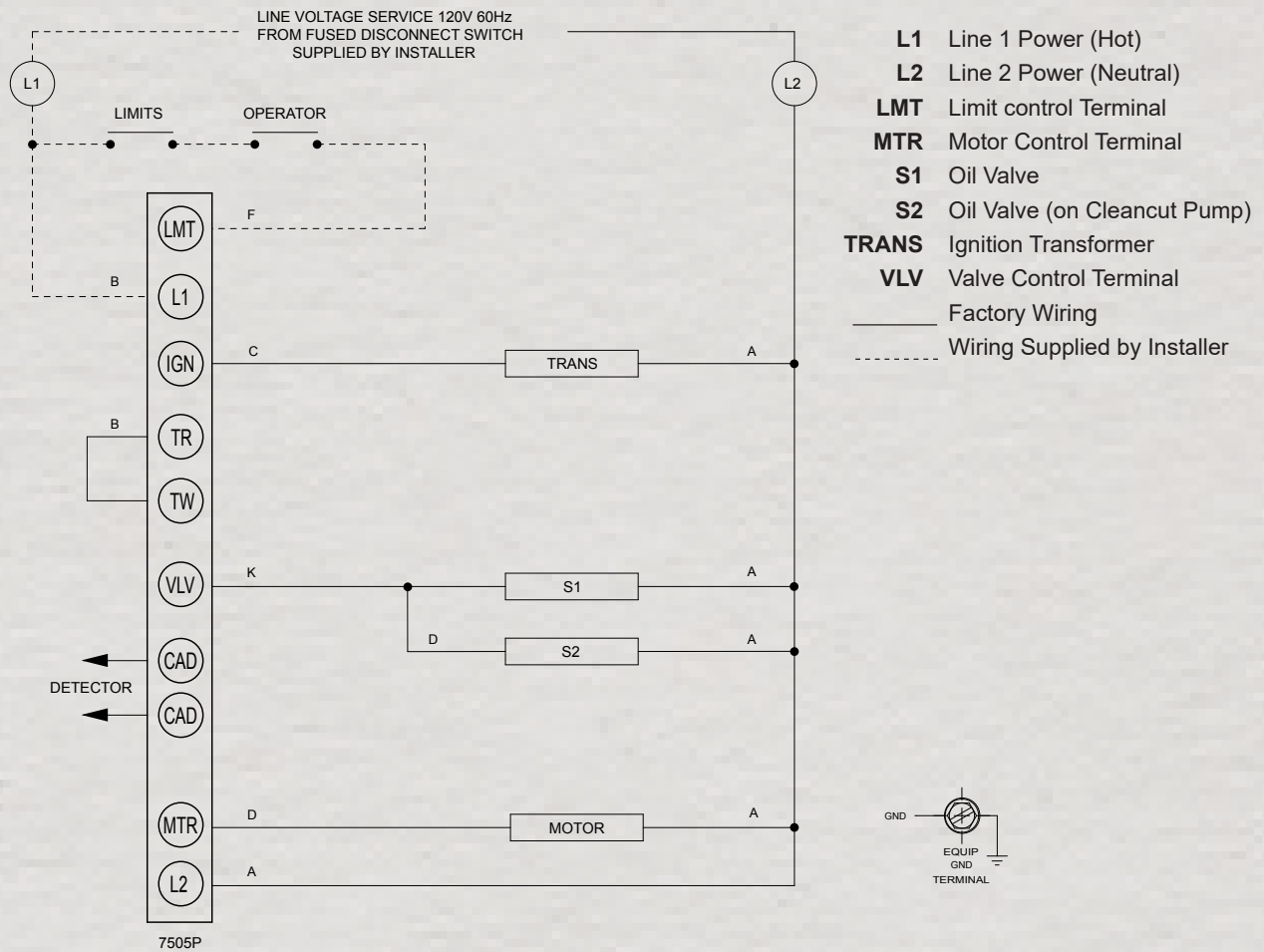
- a Return port
- b Nozzle port
- c Oil valve
- d Nozzle & adapter
- g Inlet port
- k Return line to oil tank
- p Air bleed valve

Features

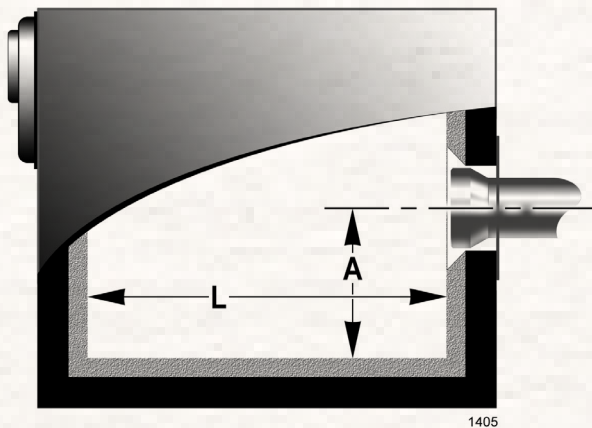
	S - Standard	O - Optional
On/Off	S	
Air Proving Switch		O
Direct Spark Ignition of Main Flame	S	
Flame Safeguard with UV Sensor or Light Sensor		O
Customized Electrical Cabinet		O
UL/CUL - CSD1 - XL GAPS ¹	S	
FM		O
IRI (old standard)		O

¹ Some regional codes are standard; some require additional options.

Typical Wiring



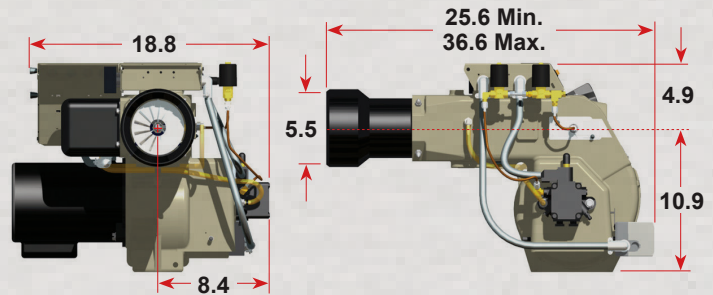
Combustion Chamber Dimensions



Firing Rate	Minimum Dimensions			
	(with damper)		(without damper)	
	A	L	A	L
1.75 to 3.00 gph	7.5"	18.0"	8.0"	19.0"
4.00 gph	8.0"	21.0"	9.5"	23.0"
5.00 gph	9.0"	23.0"	10.5"	30.0"
6.00 gph	10.0"	28.0"	11.5"	40.0"
7.00 gph	11.0"	34.0"	12.0"	46.0"
8.00 gph	14.0"	38.0"	14.0"	51.0"




Overall Dimensions



*Illustration shown above is a CF1400. The CF1000 has identical dimensions.

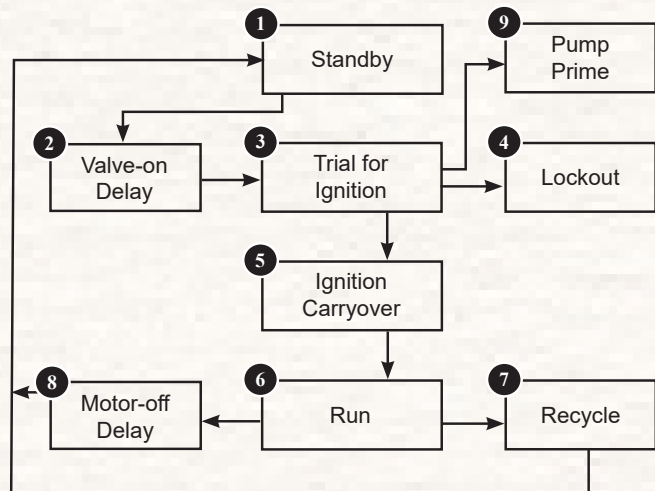
Specifications

Fuels	U.S. #1 or #2 heating oil only (ASTM D396) Canada #1 stove oil or #2 furnace oil only
	 DO NOT USE GASOLINE, CRANKCASE OIL, OR ANY OIL CONTAINING GASOLINE.
Firing Range	4.0 to 10.0 GPH
Motor	½ HP 3450 RPM 120/60 Hz standard 6.5 amps @ 120 VAC Optional voltages: (60 Hz or 50 Hz) • 240 VAC/1-PH • 208/240/480 VAC/3-PH
Ignition Trans.	Continuous Duty, 120V/12,000V
Housing	Cast aluminum
Fuel Unit	100 - 300 PSIG
Oil Nozzle	45° - 70° solid
Shipping Weight	75 lbs.
Dimensions	See Figure 8 .

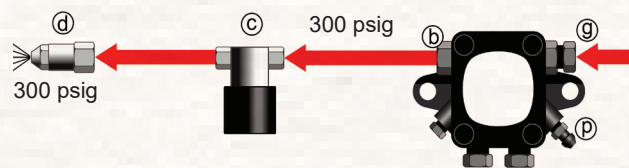
Features

S - Standard	O - Optional	N/A - Not Available
On/Off		S
Linkageless Low/High/Low or Low/High/Off		N/A
Air Proving Switch		S
Direct Spark Ignition of Main Flame		S
Flame Safeguard with UV Sensor or Light Sensor		O
Customized Electrical Cabinet		O
UL/CUL - CSD1 - XL GAPS ¹		S
FM		O
IRI (old standard)		O

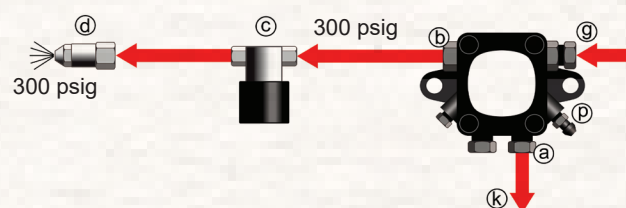
Typical Burner Sequence of Operation - 7505



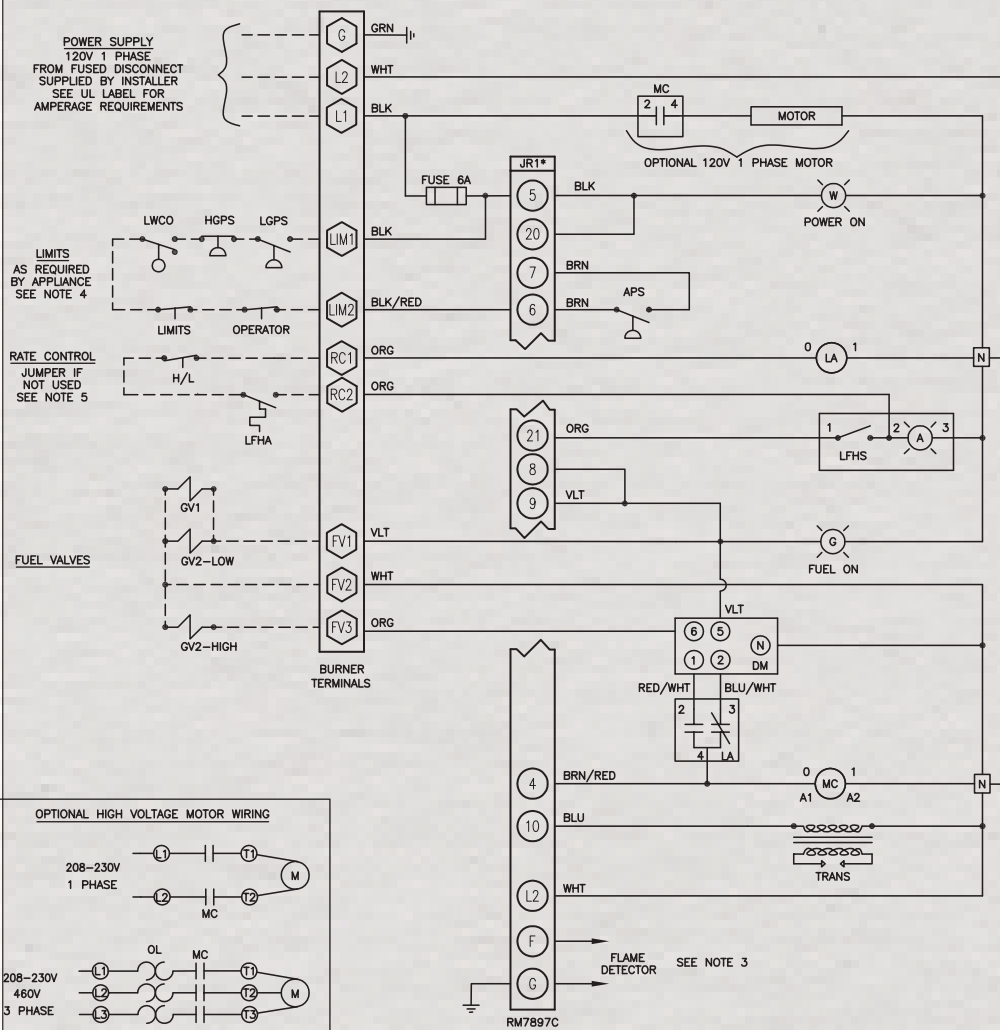
One-pipe Oil Flow with "B" Pump



Two-pipe Oil Flow with "B" Pump



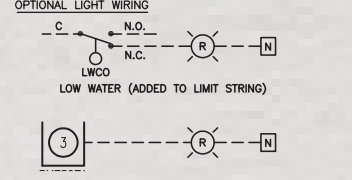
Typical Wiring



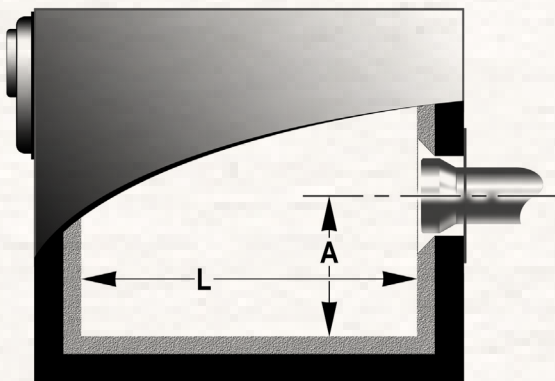
- KEY**
- APS = AIR PROVING SWITCH
 - DM = DAMPER MOTOR
 - FV1 = FUEL VALVE LOW FIRE TERMINAL
 - FV2 = FUEL VALVE NEUTRAL TERMINAL
 - FV3 = FUEL VALVE HIGH FIRE TERMINAL
 - G = EQUIPMENT GROUND
 - GV1 = ON/OFF GAS VALVE
 - GV2 = HIGH/LOW GAS VALVE
 - H/L = LO/HI CONTROL
 - HGPS = HIGH GAS PRESSURE SWITCH
 - L1 = LINE 1 POWER (HOT)
 - L2 = LINE 2 POWER (NEUTRAL)
 - LA = LOW FIRE AIR RELAY
 - LFHA = LOW FIRE HOLD AQUASTAT
 - LFHS = LOW FIRE HOLD SWITCH
 - LGPS = LOW GAS PRESSURE SWITCH
 - LIM1 = LIMITS TERMINAL 1
 - LIM2 = LIMITS TERMINAL 2
 - LWCO = LOW WATER CUTOFF
 - MC = MOTOR CONTACTOR
 - M = MOTOR
 - RC1 = RATE CONTROL TERMINAL 1
 - RC2 = RATE CONTROL TERMINAL 2
 - TRANS = IGNITION TRANSFORMER

- LEGEND**
- = CONTACTOR/RELAY COIL
 - = LIGHT
 - = WIRING SUPPLIED BY INSTALLER
 - = SOLENOID COIL
 - = FIELD WIRING TERMINALS
 - = NEUTRAL TERMINALS
- LIGHT COLOR**
- R = RED
 - A = AMBER
 - G = GREEN
 - W = WHITE

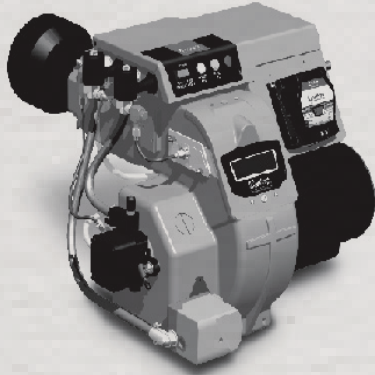
- NOTES**
1. MOTOR WIRE 14GA, ALL OTHER WIRE 16GA
 2. JR1* - CLIP AND REMOVE JUMPER JR1
 3. FOR UV RUN WHITE WIRE TO G AND BLUE WIRE TO F
 4. FOR LIMIT AND OPERATING CONTROL REQUIREMENTS SEE APPLIANCE MANUAL AND CODE REQUIREMENTS
 5. IF RC1 AND RC2 TERMINALS ARE JUMPERED BURNER OPERATES IN LOW/HIGH/OFF MODE



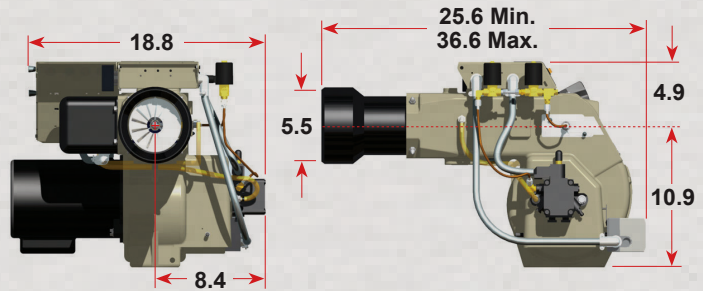
Combustion Chamber Dimensions



Firing Rate (gph)	Minimum Dimensions			
	Refractory Lined		Wet-based Boilers	
	A	L	A	L
0 to 5	7.0"	25.0"	7.0"	25.0"
5 to 10	8.0"	35.0"	8.0"	40.0"



Overall Dimensions



Specifications

Fuels U.S. #1 or #2 heating oil only (ASTM D396)
Canada #1 stove oil or #2 furnace oil only



DO NOT USE GASOLINE, CRANKCASE OIL, OR ANY OIL CONTAINING GASOLINE.

Firing Range CF1400 - 4.0 to 13.6 gph
CF2300 - 7.0 to 19.9 gph

Motor
CF1400:
1/2 HP 3450 rpm
120/60 Hz Standard
6.5 amps @ 120 VAC
CF2300:
3/4 HP 3450 rpm
120/60 Hz Standard
12.5 amps @ 120 VAC
Optional Voltages (CF1400 & CF2300):
240 VAC/1-PH,
208, 240, 480 VAC/3-PH,
50 or 60Hz

Ignition Trans. Continuous Duty, 120V/12,000V

Housing Cast aluminum

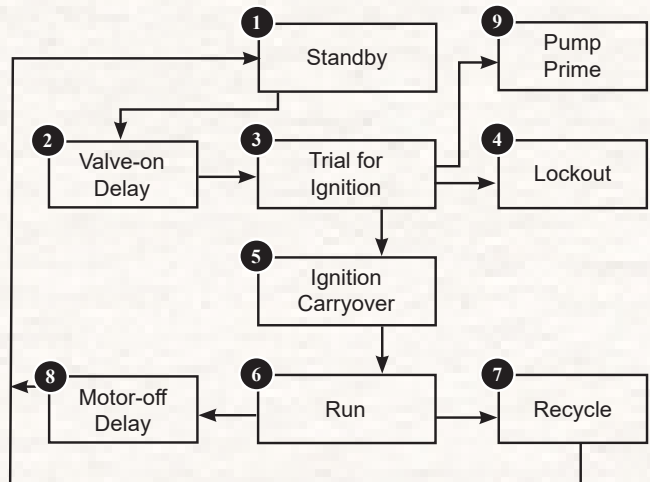
Fuel Unit 100 to 300 psig

Oil Nozzle 45° to 70° Solid

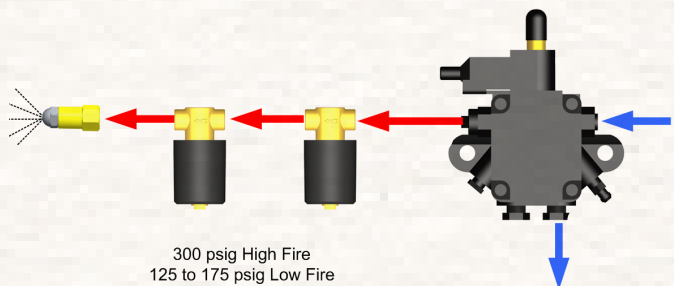
Features

S - Standard	O - Optional	N/A - Not Available
On/Off		N/A
Linkageless Low/High/Low or Low/High/Off		S
Air Proving Switch		S
Direct Spark Ignition of Main Flame		S
Flame Safeguard with UV Sensor or Light Sensor		O
Customized Electrical Cabinet		O
UL/CUL - CSD1 - XL GAPS ¹		S
FM		O
IRI (old standard)		O

Typical Burner Sequence of Operation - 7505

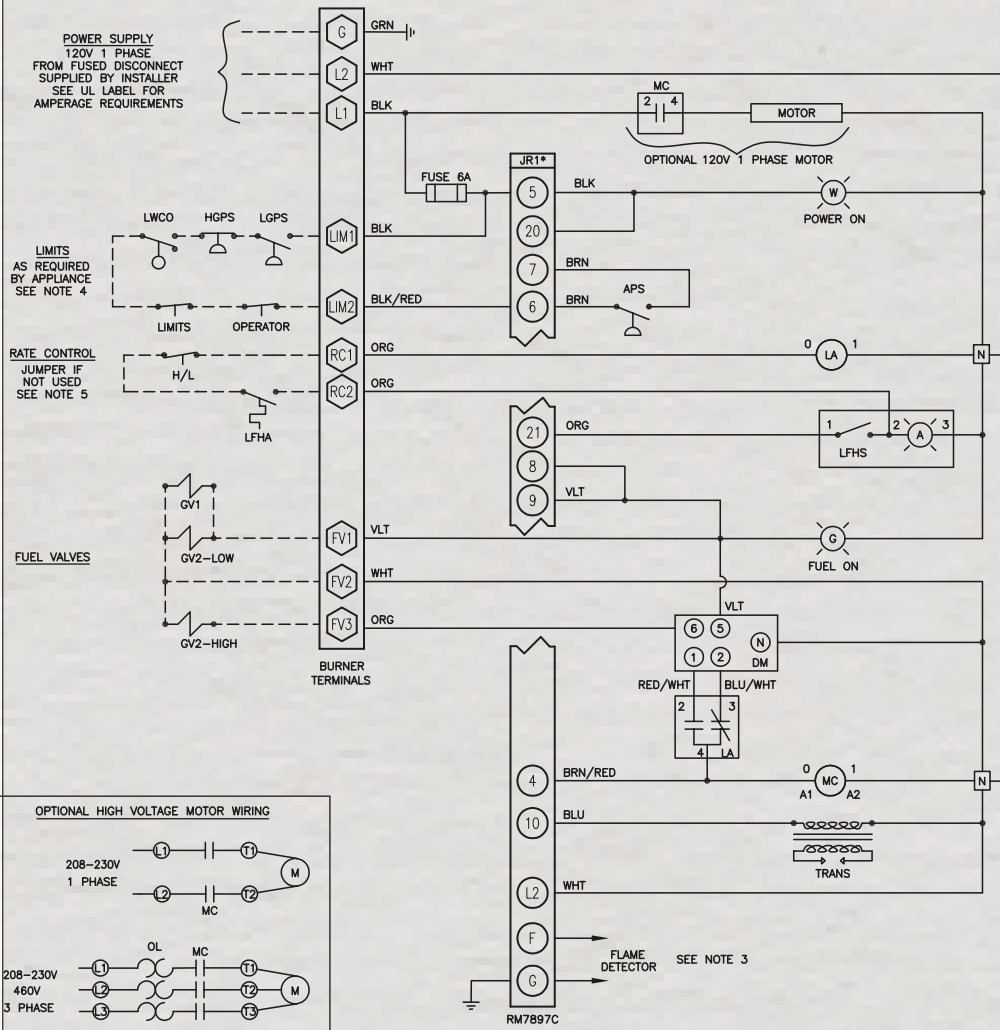


Two-pipe Oil Flow System



9939

Typical Wiring (GeniSys 7505P control)



KEY

APS = AIR PROVING SWITCH
DM = DAMPER MOTOR
FV1 = FUEL VALVE LOW FIRE TERMINAL
FV2 = FUEL VALVE NEUTRAL TERMINAL
FV3 = FUEL VALVE HIGH FIRE TERMINAL
G = EQUIPMENT GROUND
GV1 = ON/OFF GAS VALVE
GV2 = HIGH/LOW GAS VALVE
H/L = LO/HI CONTROL
HGPS = HIGH GAS PRESSURE SWITCH
L1 = LINE 1 POWER (HOT)
L2 = LINE 2 POWER (NEUTRAL)
LA = LOW FIRE AIR RELAY
LFHA = LOW FIRE HOLD AQUASTAT
LFHS = LOW FIRE HOLD SWITCH
LGPS = LOW GAS PRESSURE SWITCH
LIM1 = LIMITS TERMINAL 1
LIM2 = LIMITS TERMINAL 2
LWCO = LOW WATER CUTOFF
MC = MOTOR CONTACTOR
M = MOTOR
RC1 = RATE CONTROL TERMINAL 1
RC2 = RATE CONTROL TERMINAL 2
TRANS = IGNITION TRANSFORMER

LEGEND

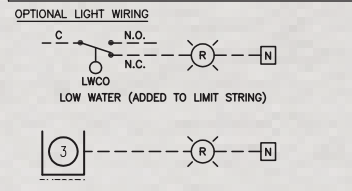
○ = CONTACTOR/RELAY COIL
⊙ = LIGHT
— = WIRING SUPPLIED BY INSTALLER
⚡ = SOLENOID COIL
⬡ = FIELD WIRING TERMINALS
N = NEUTRAL TERMINALS

LIGHT COLOR

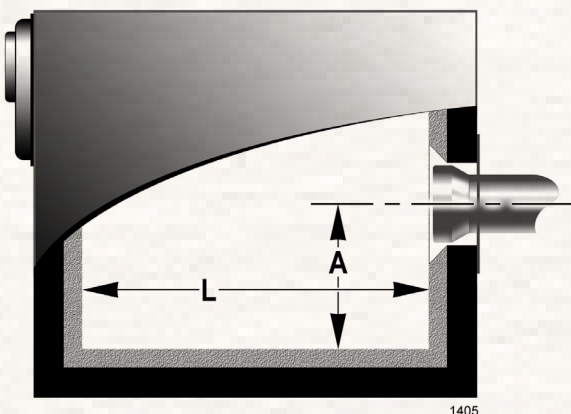
R = RED A = AMBER
G = GREEN W = WHITE

NOTES

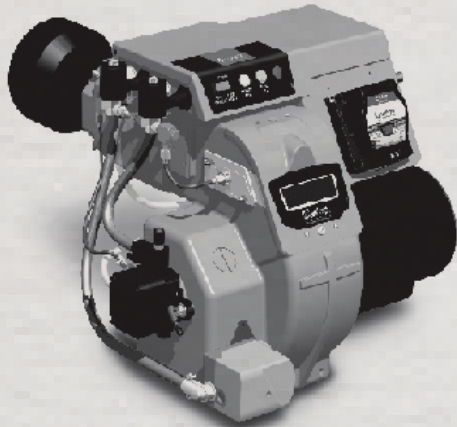
1. MOTOR WIRE 14GA, ALL OTHER WIRE 16GA
2. JR1* - CLIP AND REMOVE JUMPER JR1
3. FOR UV RUN WHITE WIRE TO G AND BLUE WIRE TO F
4. FOR LIMIT AND OPERATING CONTROL REQUIREMENTS SEE APPLIANCE MANUAL AND CODE REQUIREMENTS
5. IF RC1 AND RC2 TERMINALS ARE JUMPED BURNER OPERATES IN LOW/HIGH/OFF MODE



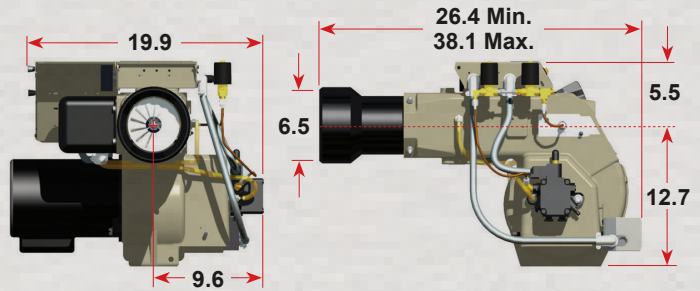
Combustion Chamber Dimensions



Firing Rate (gph)	Minimum Dimensions			
	Refractory Lined		Wet-based Boilers	
	A	L	A	L
0 to 5	7.0"	25.0"	7.0"	25.0"
5 to 10	8.0"	35.0"	8.0"	40.0"



Overall Dimensions



Specifications

Fuels U.S. #1 or #2 heating oil only (ASTM D396)
Canada #1 stove oil or #2 furnace oil only



DO NOT USE GASOLINE, CRANKCASE OIL, OR ANY OIL CONTAINING GASOLINE.

Firing Range CF1400 - 4.0 to 13.6 gph
CF2300 - 7.0 to 19.9 gph

Motor 3/4 HP 3450 rpm
120/60 Hz Standard
12.5 amps @ 120 VAC

Optional Voltages:
240 VAC/1-PH,
208, 240, 480 VAC/3-PH,
50 or 60Hz

Ignition Trans. Continuous Duty, 120V/12,000V

Housing Cast aluminum

Fuel Unit 100 to 300 psig

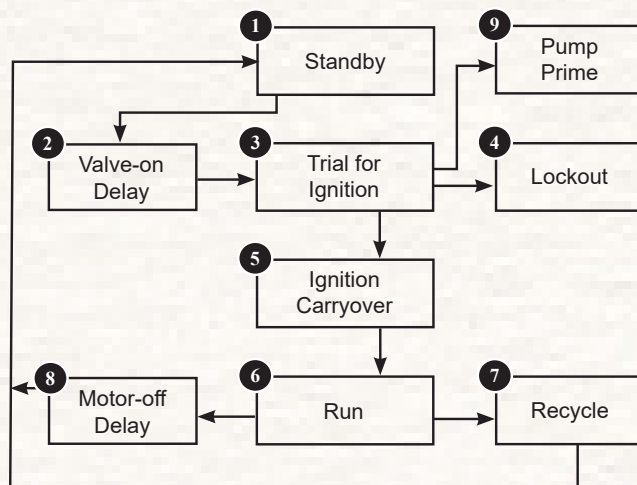
Oil Nozzle 45° to 70° Solid

Features

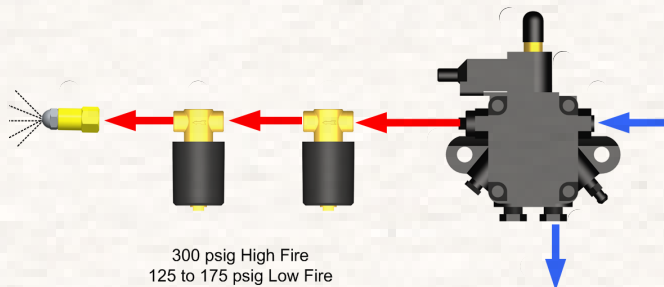
S - Standard O - Optional N/A - Not Available

On/Off	N/A
Linkageless Low/High/Low or Low/High/Off	S
Air Proving Switch	S
Direct Spark Ignition of Main Flame	S
Flame Safeguard with UV Sensor or Light Sensor	O
Customized Electrical Cabinet	O
UL/CUL - CSD1 - XL GAPS ¹	S
FM	O
IRI (old standard)	O

Typical Burner Sequence of Operation - 7505

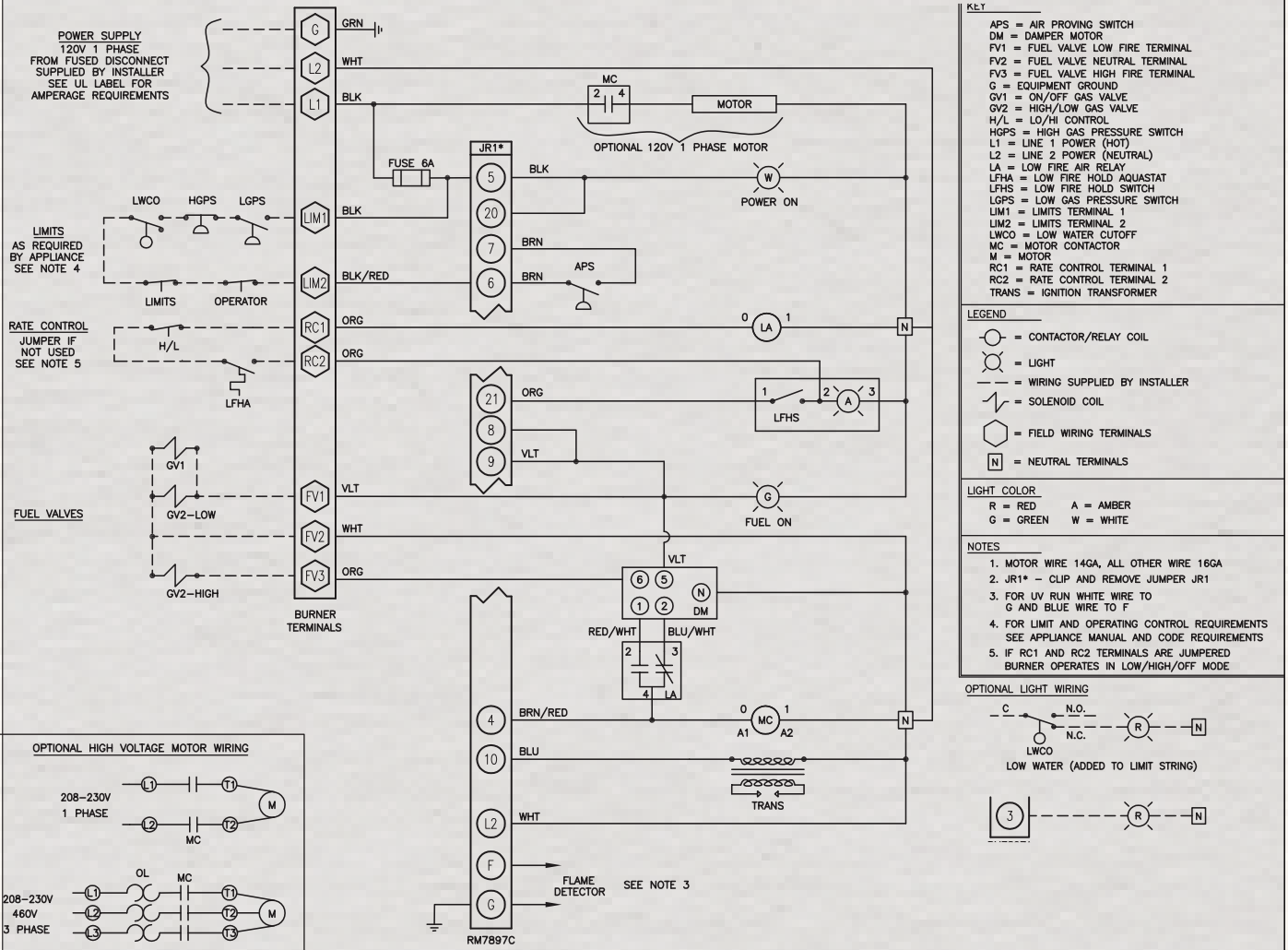


Two-pipe Oil Flow

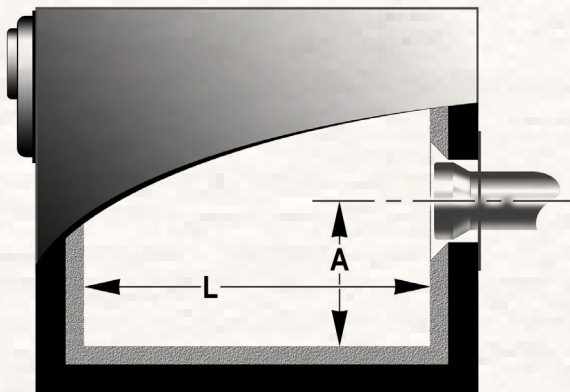


9939

Typical Wiring (GeniSys 7505P control)

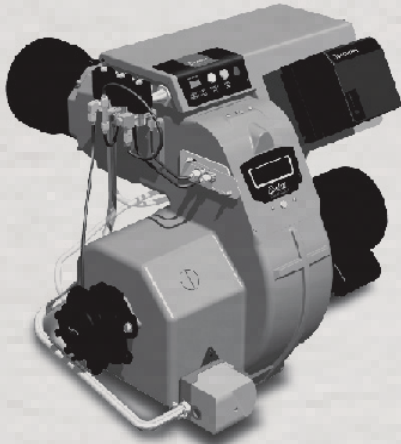


Combustion Chamber Dimensions

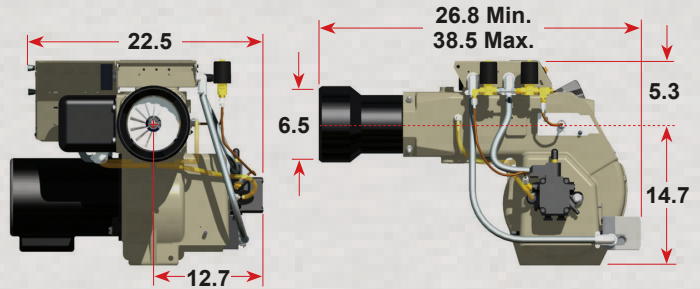


1405

Firing Rate (gph)	Minimum Dimensions			
	Refractory Lined		Wet-based Boilers	
	A	L	A	L
5 to 10	8.0"	35.0"	8.0"	40.0"
10 to 15	9.0"	40.0"	9.0"	50.0"
15 to 20	11.0"	55.0"	11.0"	60.0"



Overall Dimensions



Specifications

Fuels U.S. #1 or #2 heating oil only (ASTM D396)
Canada #1 stove oil or #2 furnace oil only



DO NOT USE GASOLINE, CRANKCASE OIL, OR ANY OIL CONTAINING GASOLINE.

Firing Range CF2500A - 17.0 to 19.9 gph
CF2500 - 17.0 to 25.0 gph

Motor 2 HP 3450 rpm
208/230/60 Hz Standard
13.4 amps @ 230 VAC

Optional Voltages:
208, 230, 480, 575 VAC/3-PH,
50 or 60 Hz

Ignition Trans. Continuous Duty, 120V/12,000V

Housing Cast aluminum

Fuel Unit 100 to 300 psig

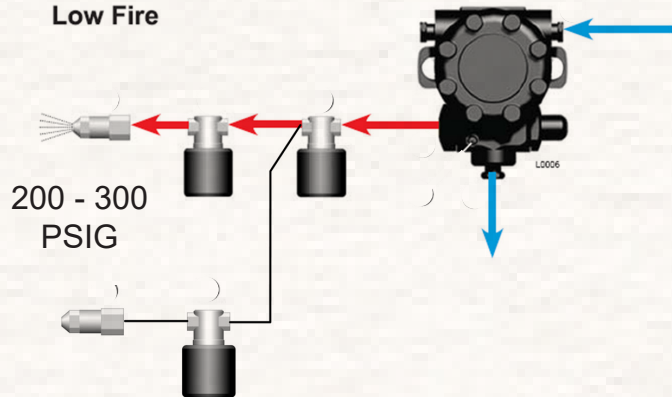
Oil Nozzle 45° to 70° Solid

Features

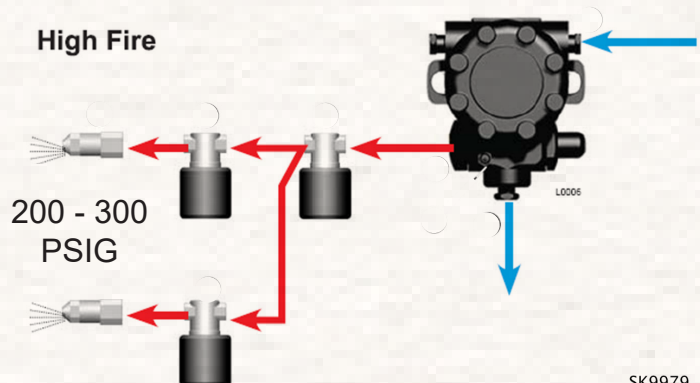
S - Standard	O - Optional	N/A - Not Available
On/Off		N/A
Linkageless Low/High/Low or Low/High/Off		S
Air Proving Switch		S
Direct Spark Ignition of Main Flame		S
Flame Safeguard with UV Sensor or Light Sensor		O
Customized Electrical Cabinet		O
UL/CUL - CSD1 - XL GAPS ¹		S
FM		O
IRI (old standard)		O

Two-pipe Oil Flow

Low Fire

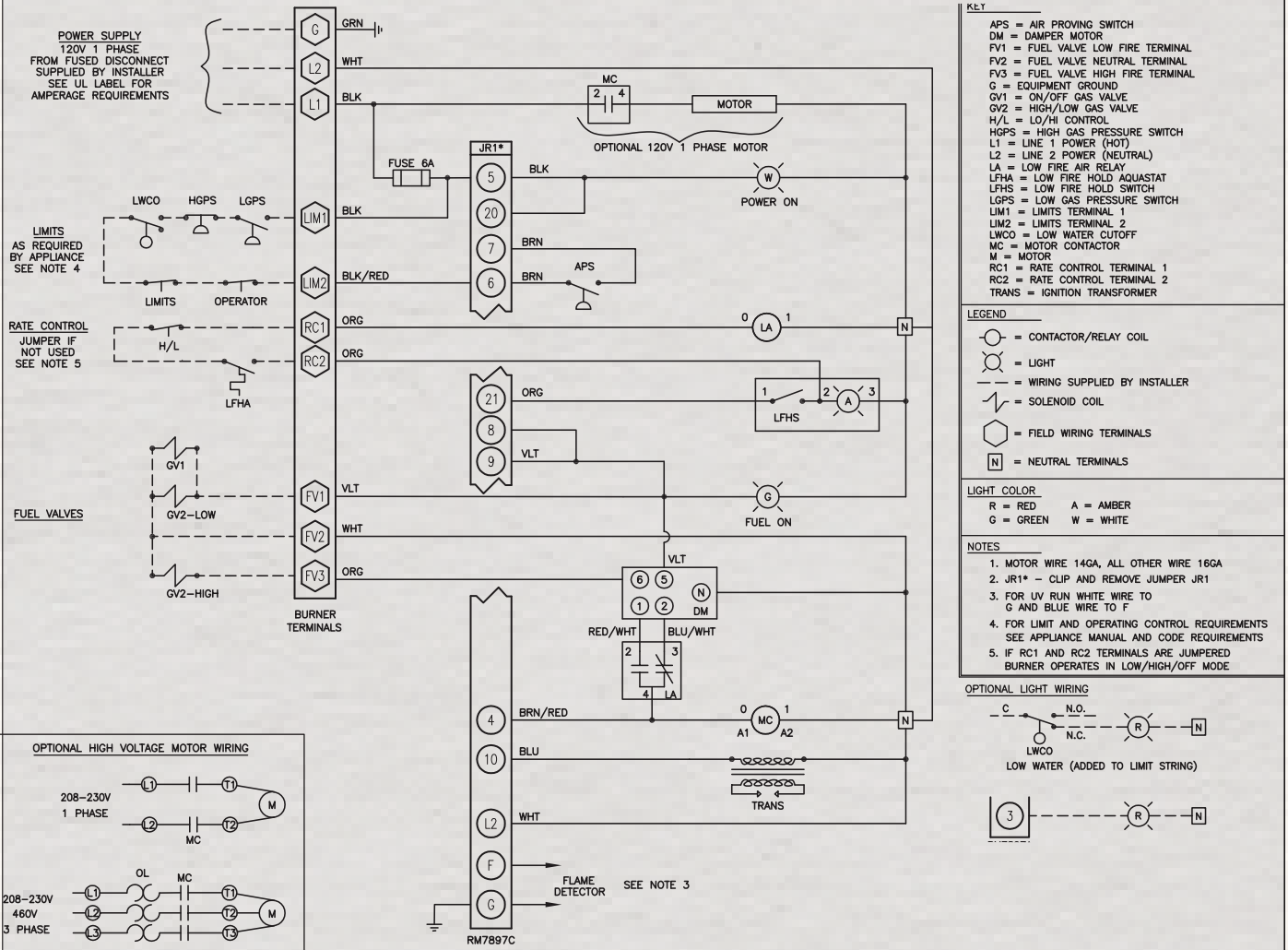


High Fire



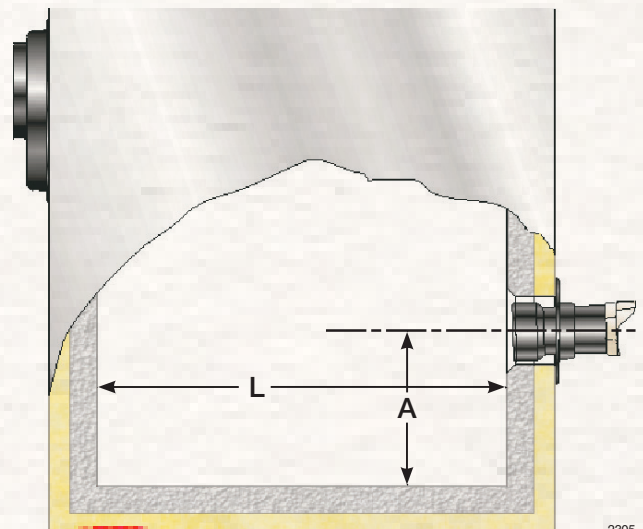
SK9979

Typical Wiring (Honeywell RM7897A control)

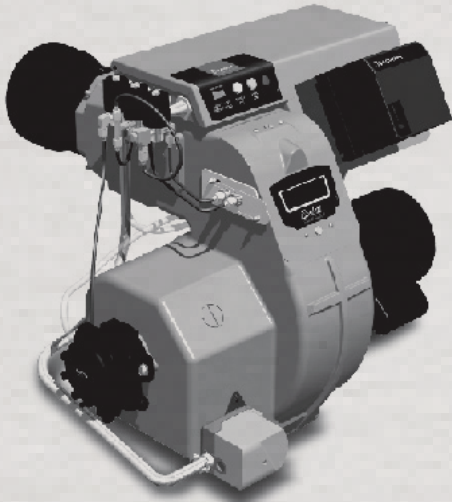


Combustion Chamber Dimensions

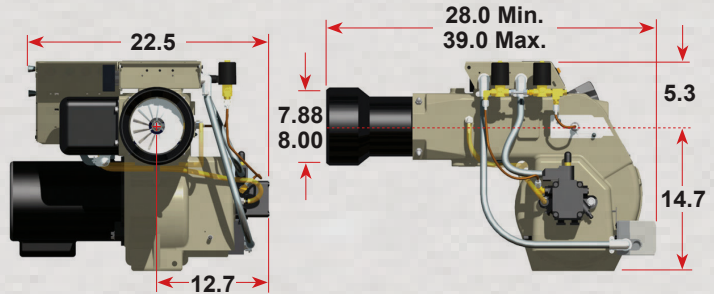
Firing Rate (gph)	Minimum Dimensions	
	A	L
17	10.5"	48.0"
22	11.5"	58.0"
27	12.5"	66.0"
32	12.5"	73.0"
35	13.0"	77.0"



2305



Overall Dimensions



Specifications

Fuels U.S. #1 or #2 heating oil only (ASTM D396)
Canada #1 stove oil or #2 furnace oil only



DO NOT USE GASOLINE, CRANKCASE OIL, OR ANY OIL CONTAINING GASOLINE.

Firing Range 17.0 to 35.0 gph

Motor 2 HP 3450 rpm
208/230/60 Hz Standard
13.4 amps @ 230 VAC

Optional Voltages:
208, 230, 480, 575 VAC/3-PH,
50 or 60 Hz

Ignition Trans. Continuous Duty, 120V/12,000V

Housing Cast aluminum

Fuel Unit 100 to 300 psig

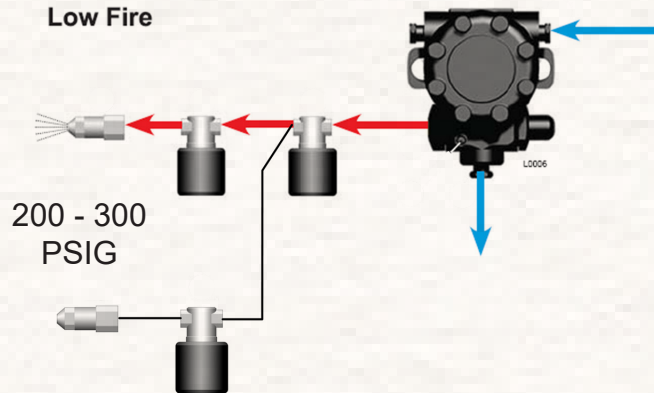
Oil Nozzle 45° to 70° Solid

Features

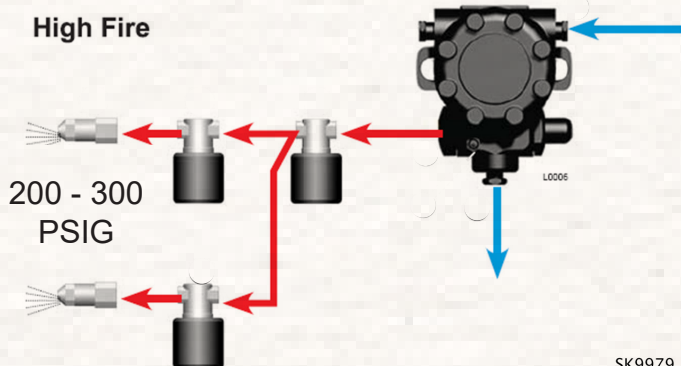
S - Standard	O - Optional	N/A - Not Available
On/Off		N/A
Linkageless Low/High/Low or Low/High/Off		S
Air Proving Switch		S
Direct Spark Ignition of Main Flame		S
Flame Safeguard with UV Sensor or Light Sensor	O	
Customized Electrical Cabinet	O	
UL/CUL - CSD1 - XL GAPS ¹		S
FM		O
IRI (old standard)		O

Two-pipe Oil Flow

Low Fire

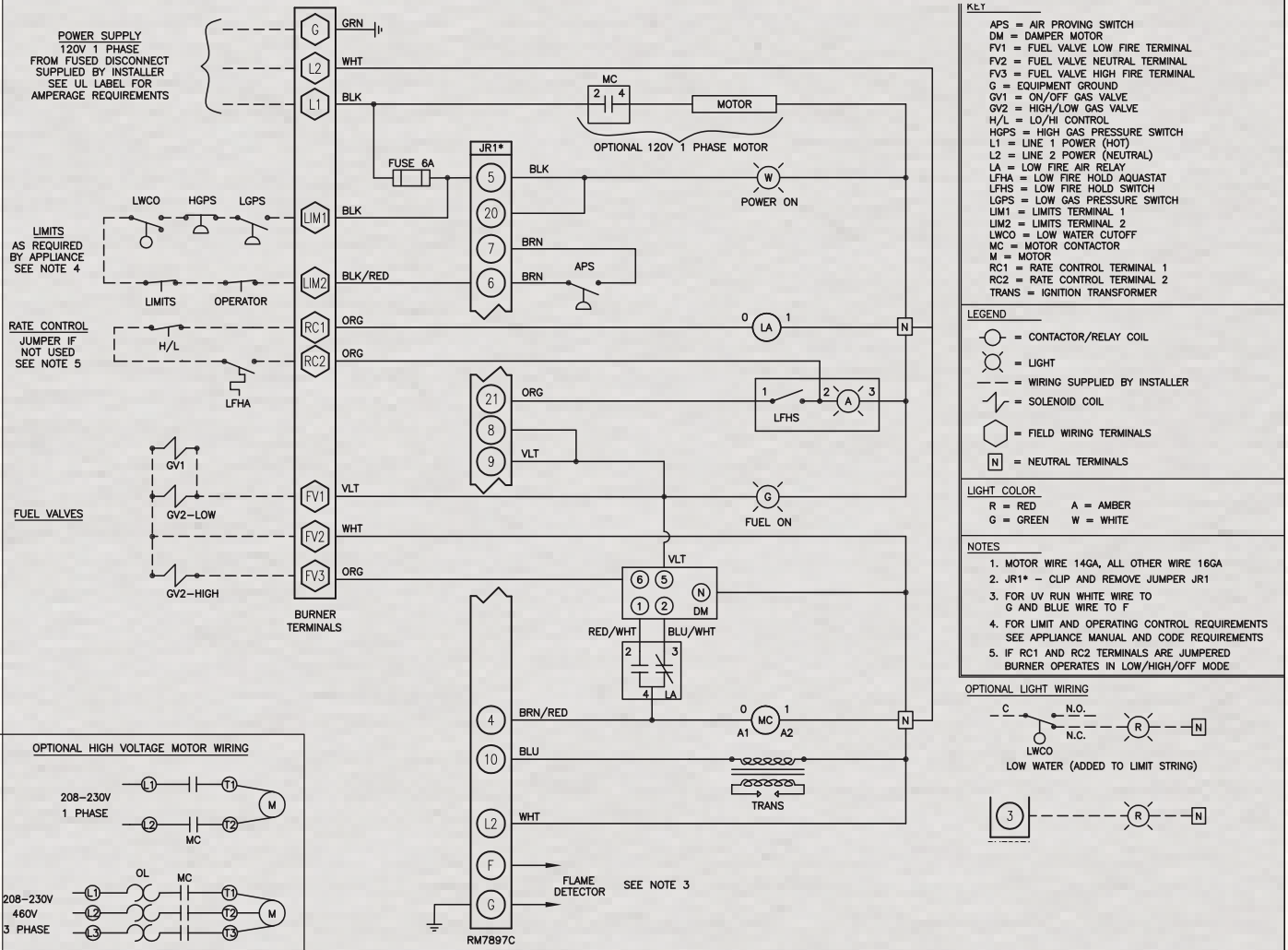


High Fire



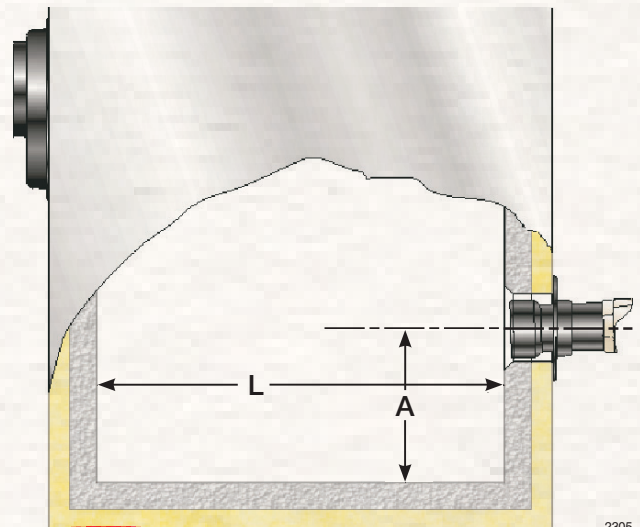
SK9979

Typical Wiring (Honeywell RM7897A control)



Combustion Chamber Dimensions

Firing Rate (gph)	Minimum Dimensions	
	A	L
17	10.5"	48.0"
22	11.5"	58.0"
27	12.5"	66.0"
32	12.5"	73.0"
35	13.0"	77.0"



2305

Replacement Parts CG10-24

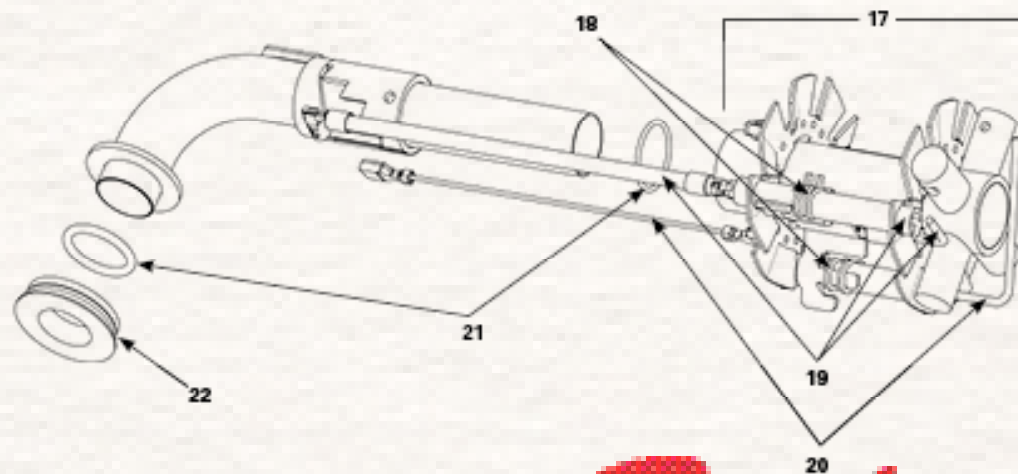
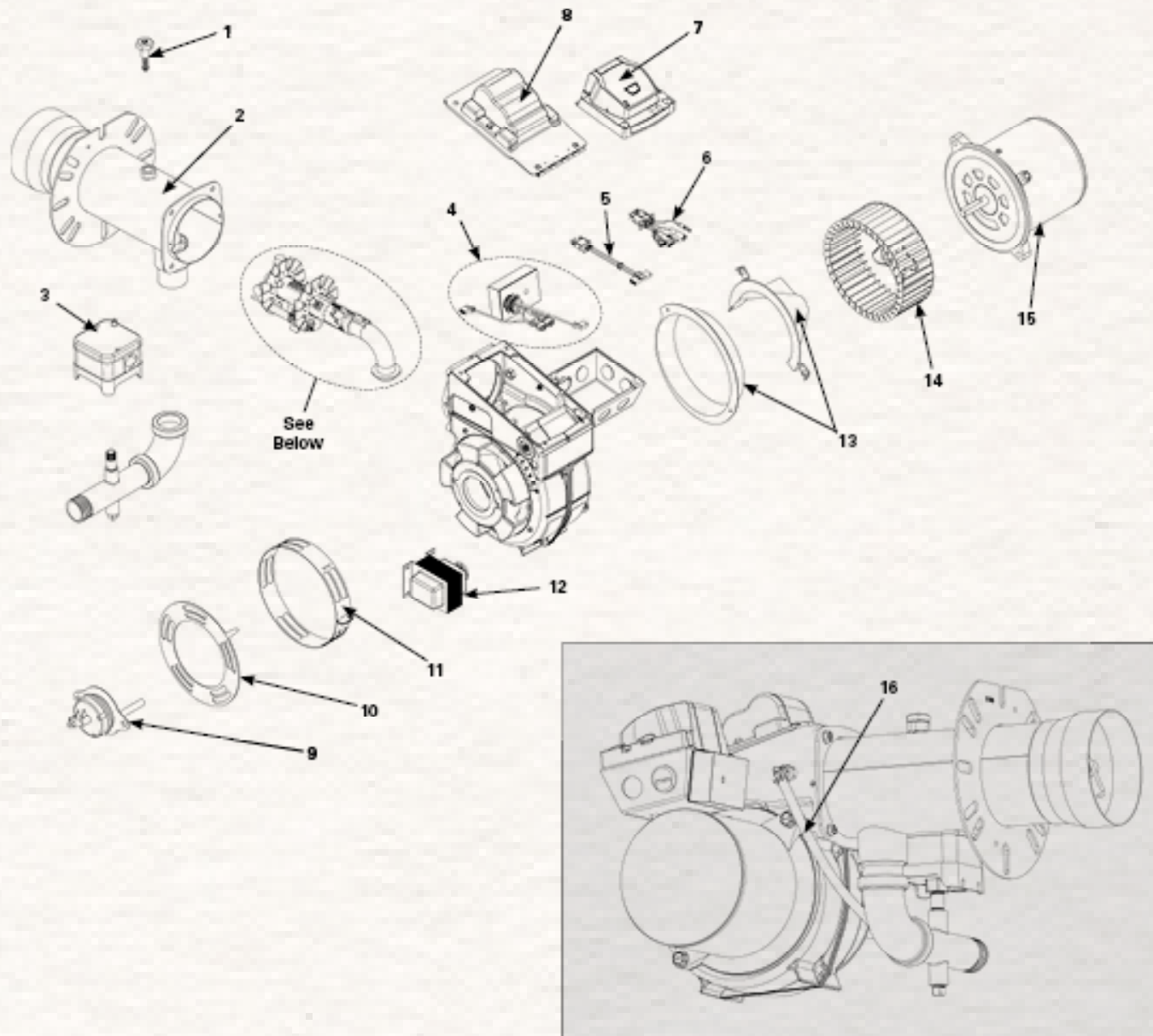
No.	Part Name/ Description	Part No.	
1	Jacking Screw	5193401U	
2	Air Tube	See Note 1	
3	Low Gas Pressure Switch (not shown)	52259-001U	
	High Gas Pressure Switch	52259-002U	
4	Valve Timer (low fire start)	52402001U	
5	Wire Assembly - Air Proving Switch	52268001U	
6	Wire Assembly - 6 pin	52401001U	
7	Primary Control	7590C0001U	
8	Ignition Transformer	5260402U	
9	Air Proving Switch Assy (includes tubing)	52264002U	
10	Shutter	3215U	
11	Air Band	5151503	
12	24V Transformer	52310002U	
13	Air Inlet	Air Guide (300-600 MBH)	189U
		Air Guide (600-1,000 MBH)	178U
		Inlet Sleeve	32336U
14	Blower Wheel	CG10 (300-600 MBH)	21448U
		CG10A or B (600-1,200 MBH)	21339U
15	Motor 120v	21341U	
16	Tubing, 1/4" I.D., (includes spring clamps)	32404U	
17	Head with Electrode	10.1	101U
		10.1S	101SU
		10.2	102U
		10.2S	102SU
		10.3	103U
		10.3S	103SU
		10.4	104U
		10.4S	104SU
		10.5	105U
		10.5S	105SU
18	Spring Clamps (4-pack)	10.6	106U
		10.6S	106SU
19	Electrode Set with Cable	10.4 - 10.6	22225U
		10.1 - 10.3	2191201U
		10.1S - 10.6S	2191205U
20	Flame Rod with Cable	2191305U	
21	O-ring Set (2-piece)	3226401U	
22	Propane Restrictor (LP Only)	See Table, Upper Right	

Propane Restrictors Replacement Part Nos.		
Burner Model	Restrictor Kit	Restrictor Diameter
CG10.1	3246700U	0.401
CG10.2	3246701U	0.432
CG10.3, CG10.2S	3246702U	0.470
CG10.1S	3246703U	0.418
CG10.3S, CG10.6S	3246705U	0.510
CG10.4S	3246706U	0.459
CG10.5S	3246707U	0.482
CG10.4	3246723U	0.547
CG10.5	3246724U	0.578
CG10.6	3246725U	0.594

Gas Valve Replacement Parts (not shown)	
Description	Part No.
Honeywell V8295A, 24 V, 1 " NPT	2193410U
Honeywell V8295A, 24 V, 3/4 " NPT	2193411U
Honeywell V8944B, 2 stage, 24V, 1 " NPT	32990001U
Maxitrol RV53 Regulator, 3-6" WC, 3/4" NPT	2192901CU
Maxitrol RV61 Regulator, 2-5" WC, 1" NPT	2192901CU

Note 1: Appliance must be specified to order an airtube with welded mounting flange.

Replacement Parts CG10-24



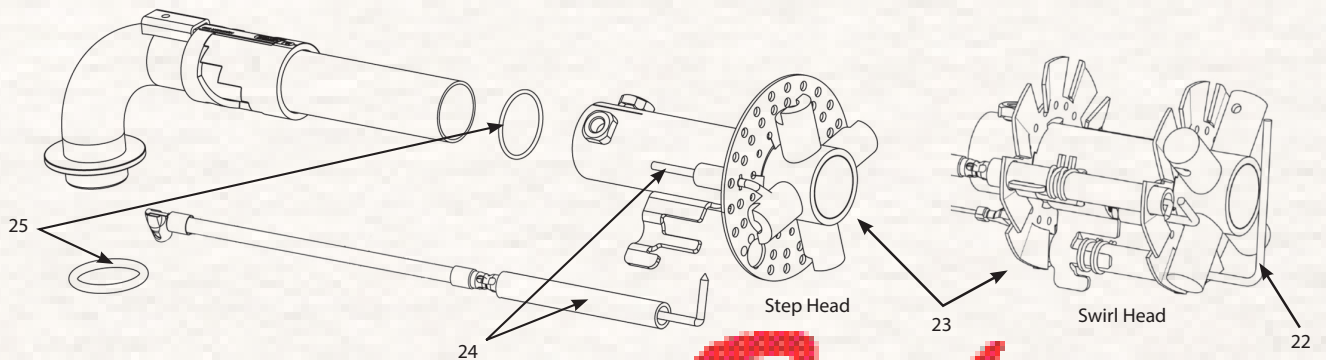
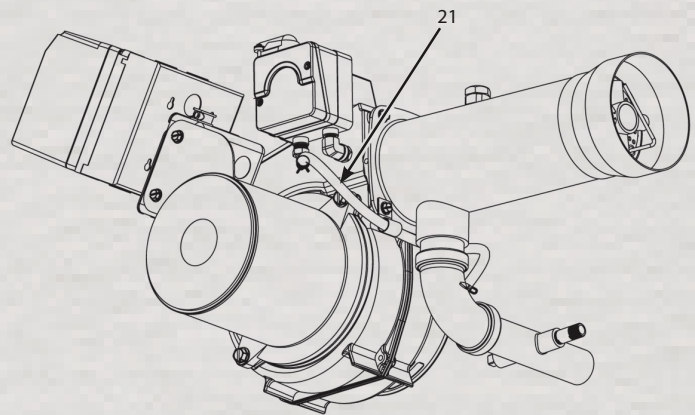
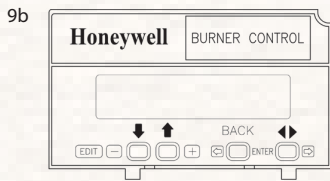
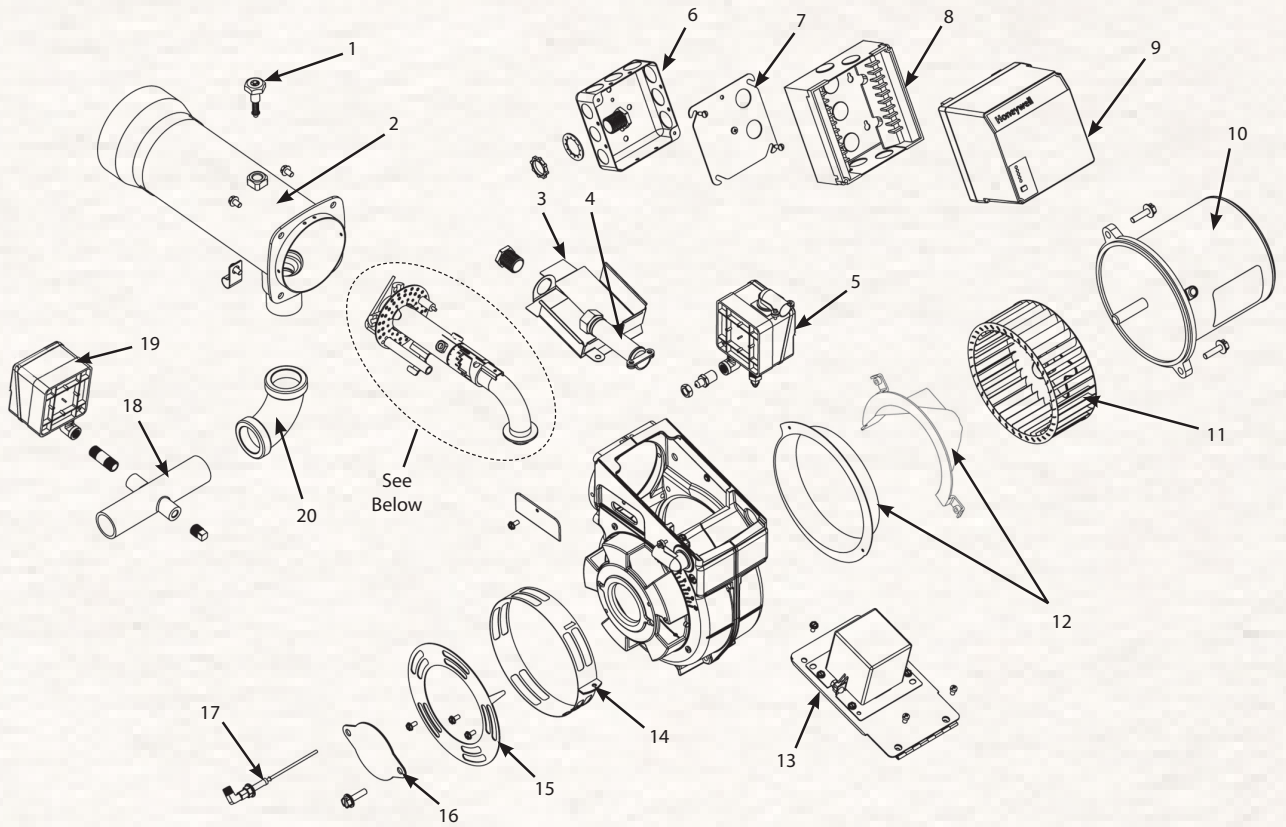
Replacement Parts CG10

No.	Part Name/ Description		Part No.
1	Jacking Screw		5193401U
2	Air Tube		See Note 1
3	Scroll Extension		32335
4	UV Scanner - Honeywell C7027A1023		7247
5	Air Proving Switch		52258-001U
6	Electrical Box		2362
7	Control Mounting Plate		32378
8	Control Subbase - Honeywell Q7800B		7386
9	Primary Control - Honeywell RM7897A		7553U
9b	Display for Mod Bus (Optional) - Honeywell S7800A		7542U
9c	Timer Purger Card (30sec) - Honeywell STV7800A1039		7387
10	Motor	120V	21341U
		220V	21654U
11	Blower Wheel	CG10	21448U
		CG10A or CG10B	21339U
12	Air Inlet	Air Guide (300-600 MBH)	189U
		Air Guide 9600-1,000MBH)	178U
		Inlet Sleeve	32336U
13	Ignition Transformer		52014U
14	Air Band		5151503
15	Air Shutter		3215U
16	Cover Plate		32247
17	Screw / Suction Line Assy		5216401U
18	Gas Manifold 1-1/4" Pipe Thread		51930BK
19	Low Gas Pressure Switch		52259-001U
—	High Gas Pressure Switch		52259-002U
20	Pipe Elbow 1-1/4" Pipe Thread		32287BK
21	Tubing, 1/4" I.D., (includes spring clamps)		32404U
22	Flame Rod with cable (UV Scanner not req'd)		2191305U
23	Head with Electrode	10.1	101U
		10.1S	101SU
		10.2	102U
		10.2S	102SU
		10.3	103U
		10.3S	103SU
		10.4	104U
		10.4S	104SU
		10.5	105U
		10.5S	105SU
		10.6	106U
		10.6S	106SU
24	Electrode Set with cable	10.4 - 10.6	22225U
		10.1 - 10.3	2191201U
		10.1S-10.6S	2191205U
25	O-ring Set (2-piece)		3226401U

Gas Valve Replacement Parts (not shown)	
Description	Part No.
Honeywell V4295A, 1 " NPT	2193401U
Honeywell V4295A, 1-1/4 " NPT	2193402U
Honeywell V4944B 1" NPT	21977U
Honeywell V4944B 1-1/4" NPT	21979U

Note 1: Appliance must be specified to order an airtube with welded mounting flange.

Replacement Parts CG10



Replacement Parts CG15, CG25, CG50

No.	Part Name / Description	Beckett Part No.		
		CG15	CG25	CG50
1	Air Tube	See Note 1		
2	Kit: 1/4-20 x 1/2 Bolt, 1/4-20 Acron Nut (4x)	52531001U	52531001U	52531001U
3	Jacking Screw	5193402U	5193403U	5193403U
4	Ignition Transformer	51976U	51976U	51976U
5	Air Guide	176	174	191U
6	Blower Wheel	21268U	21267U	21525U
7	Mounting Flange (for motor)	See Note 2	31347U	31449U
8	Motor 115-208-230V 1 Phase	21401U	21402U	21527U
8	Motor 208-230/380-460V 3 Phase	21638U	21499U	21547U
9	Rear Cover Door Assy - Sheetmetal	5201303U	5201304U	5201305U
10	Adjusting Plate Assembly	7247U	7247U	7247U
11	Sight Glass Kit (Includes Gasket and label)	51345	51345	51345
12	Door Latch, Dzus Fastener	32444U	32444U	32444U
13	Damper Motor - Siemens SQM40.215R11 Full Modulation	3258401U	3258401U	3258401U
13	Damper Motor - Siemens SQN70.203R10BK Issued with RWF40 Controller	750603U	750603U	750603U
14	Flange for 3/4" Pipe	21258BK	21258BK	21258BK
15	Coupling, Damper Shaft Lo-Hi-Lo, RWF-40 Modulation	32280	32280	32280
15	Coupling, Damper Shaft Modulation 135 Ohm, 4-20mA	32858	32858	32858
16	Damper Plate Kit (Includes Brushing, Shaft, Damper Plate, and Coupling and hardware)	32432U	32433U	32434U
17	Damper Shaft	23207P	23208P	23209P
18	Hole Plug	32439U	32439U	32439U
19	Barb Fittings	4508	4508	4508
20	Cover Plate	32247	32247	32247
21	Gas Manifold	5193101BK	5193102BK	5193103BK
22	Gas Tube Assembly	5193202BK	5193203BK	5193204BK
23	Electrode Kit (Includes Cable)	2191206U	2191207U	2191208U
24	Spring Clamp	4474U	4474U	4474U
25	Ceramic	3231	3231	3231
26	Ground Electrode	2191106	2191107	2191108
27	Combustion Head	Specify Model		
28	Tubing, 1/4" I.D. (Includes Spring Clamps & Barb Fittings)	32404U	32404U	32404U
29	Steel Flexible 3/8" Conduit	■	■	■

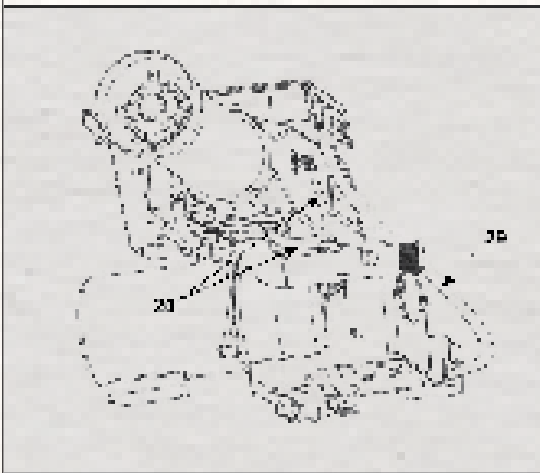
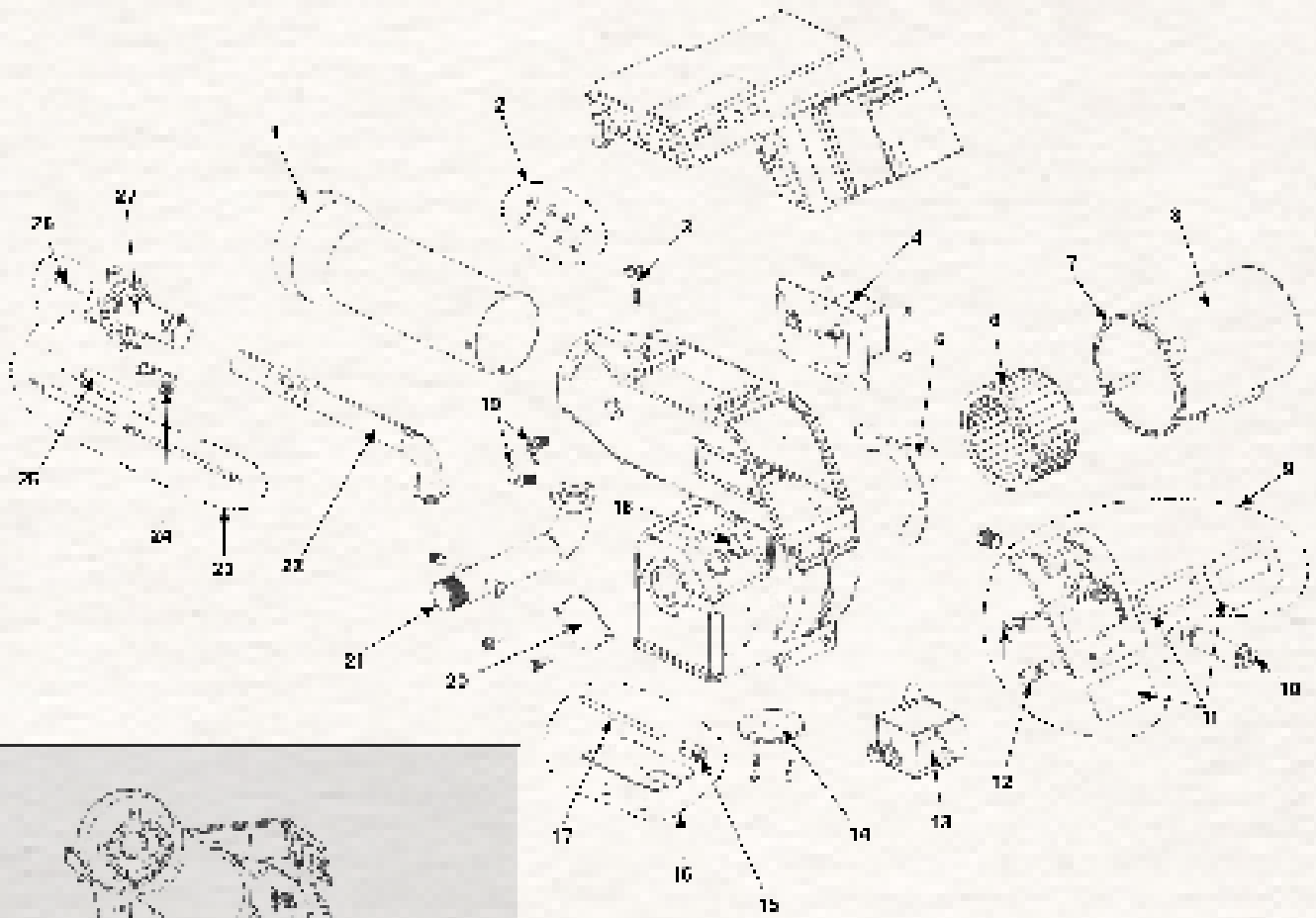
■ Not a replacement item through Beckett. An adequate replacement may be found at your local parts store.

Note 1: Appliance must be specified to order an airtube with welded mounting flange.

Note 2: Motor for CG15 has a built in mounting flange. For the CG25 and CG50, the mounting flange is separate.

Note 3: For modulation linkages refer to UL Label for serial number. Call Customer Service for parts.

Replacement Parts CG15, CG25, CG50



Replacement Parts CG15, CG25, CG50

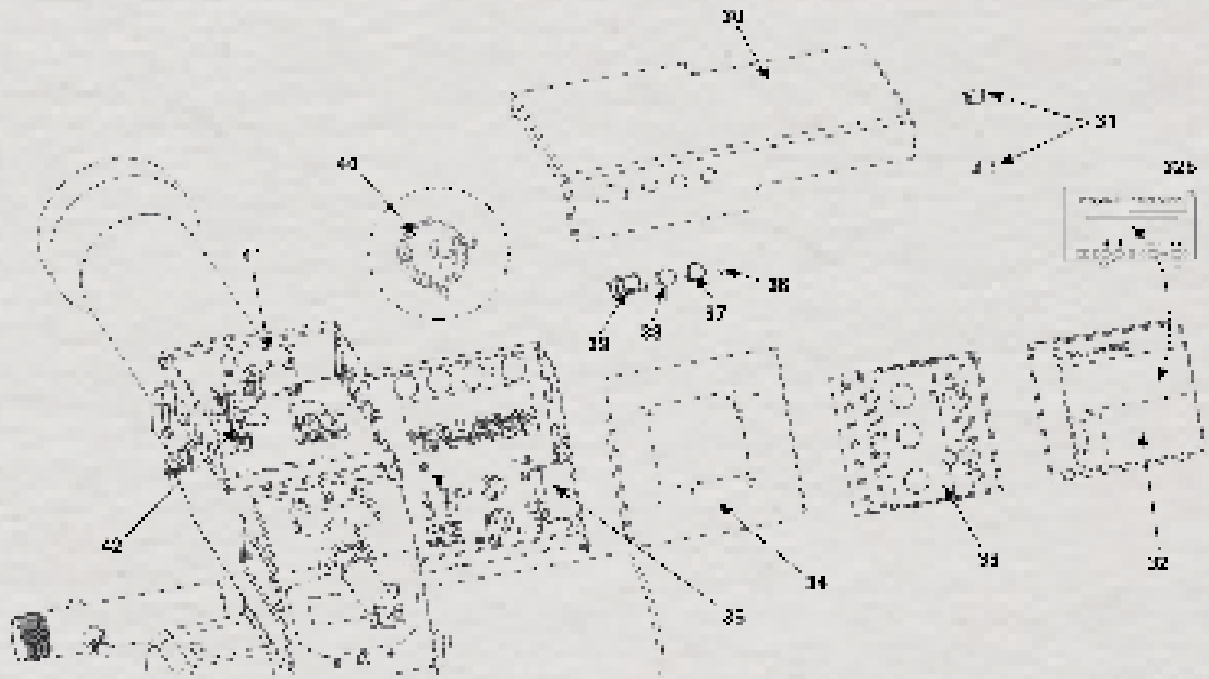
No.	Part Name / Description	Beckett Part No.		
		CG15	CG25	CG50
30	Lid, Junction Box (120V Burner)	32522GY	32522GY	32522GY
31	Plunger for Lid & Primery Control Base	32523	32523	32523
32	Control - Honeywell RM7897C	Contact Beckett for Part Number		
32	Control - Honeywell RM7840L	Contact Beckett for Part Number		
32b	Display for Mod Bus (optional) Honeywell S7800A	7542U	7542U	7542U
32c	Amplifier UV - Honeywell R7849A1015	750402	750402	750402
32d	Timer Purge Card 60 Sec. - Honeywell ST7800A1054	7399	7399	7399
33	Control Subbase - Honeywell Q7800B	7386	7386	7386
34	Control Mounting Plate	32521GY	32521GY	32521GY
35	120V Oil DPDT Relay (Motor 120V)	752801U	752801U	752801U
36	Hole Plug, 1/2"	21034	21034	21034
37	120v 1/2wat Green Light (Fuel On)	21730U	21730U	21730U
38	120v 1/2wat White light (Power on)	21729U	21729U	21729U
39	120V 16amp Roder switch Amber light (Hi/Low)	21904	21904	21904
40	Endura ES2145-0438 Air Proving Switch	22181U	22181U	22181U
41	120v coil DPDT Relay (Damper)	752804	752804	752804
42	Fuse, 6A, Little Fuse 312006HXP	32553U	32553U	32553U
42	Fuse Holder	22155	22155	22155
43	QM5C514 4sec Timer	52259-001U	52259-001U	52259-001U
	High Gas Pressure Switch - Antunes	52259-002U	52259-002U	52259-002U
	Gas Train Wining Harness	52171U	52171U	52171U
	Lo Gas Pressure Switch - Antunes	52259-001U	52259-001U	52259-001U

Note 1: Appliance must be specified to order an airtube with welded mounting flange.

Note 2: Motor for CG15 has a built in mounting flange. For the CG25 and CG50, the mounting flange is separate.

Note 3: For modulation linkages refer to UL Label for serial number. Call Customer Service for parts.

Replacement Parts CG15, CG25, CG50

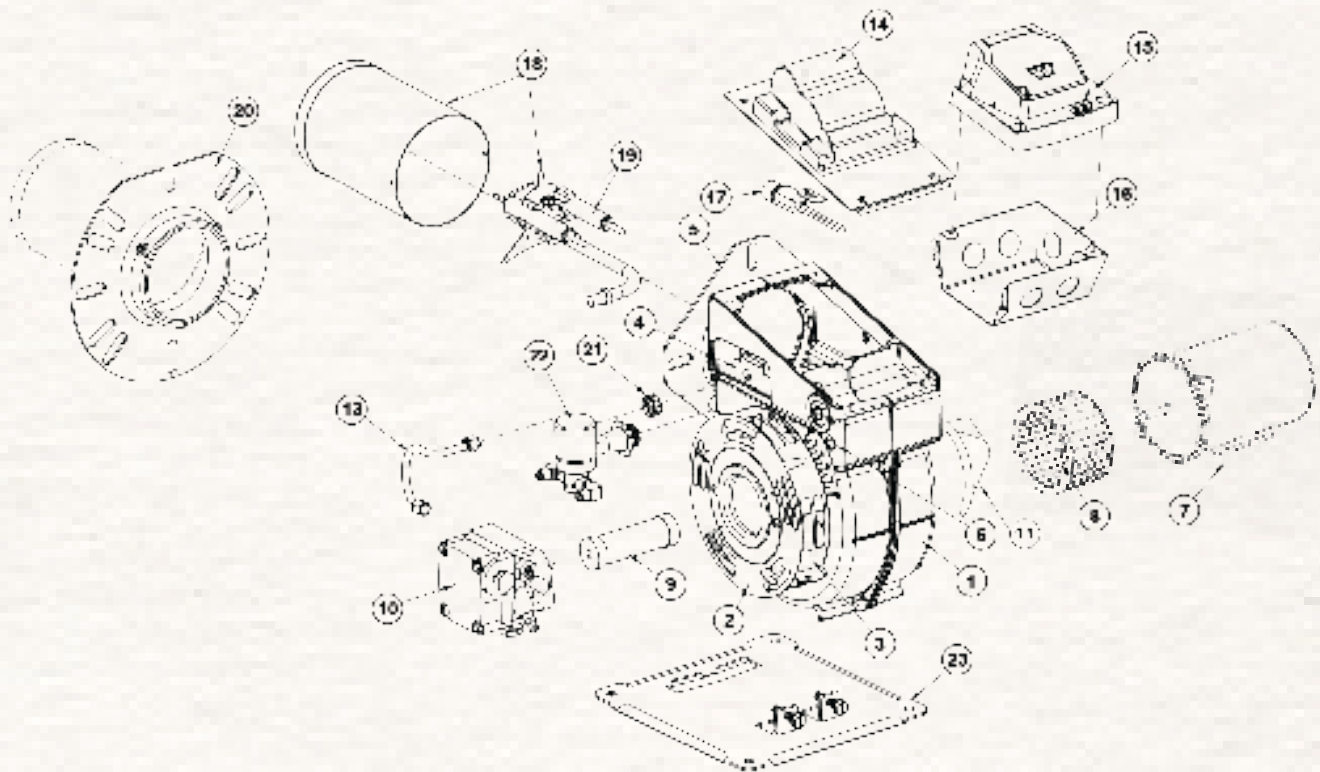


Replacement Parts CG15, CG25, CG50

Gas Valve Replacement Parts (not shown)

Part Name	Description	Part No.
V4944B1109	1"	21977U
V4944B1125	1-1/4"	21979U
V4944B1141	1-1/2"	21981U
Normally Closed Safety Valve 120V	1"	2193401U
	1-1/4"	2193402U
	1-1/2"	2193403U
	2"	2193404U
	2-1/2"	2193405U
V4062A1131 Fluid Actuating Moter		2193503U
V5055B Valve Body	1-1/4"	2193601U
V5055B Valve Body	1-1/2"	2193602U
V5055B Valve Body	2"	2193603U
V5055B Valve Body	2-1/2"	2193604U
RV61-B8-D049	1"	2192902AU
RV61-1010-1018	1-1/4"	2192902BU
RV61-1212-0019	1-1/2"	2192903CU
RV61-1616-0019	2"	2192904DU
RV91	2-1/2"	2192904EU
A800-88-0019	1"	2193101AU
210D-88-1019	1"	2193102AU
210D-1010-0106	1-1/4"	2193102BU
210D-1212-1004	1-1/2"	2193102CU
210D-1212-1002	1-1/2"	2193103CU
210D-1616-1003	2"	2193103DU
210D-2020-0013	2-1/2"	2193104EU

Replacement Parts CF500, CF800



No.	Part Name/ Description	CF500 Part No.	CF800 Part No.
1	Burner Housing	51373-14	51373
2	Air Shutter 10 Slot	3215	3215
3	Air Band	3819	3819
4	Nozzle Line Escutcheon Plate	51286U	51286U
5	OEM Flange	NA	NA
6	Hole Plug - Wiring Box	2139	2139
7	120V 1/3 HP 3450RPM Split Phas Motor	21341U	21341U
8	Blower Wheel	21448U	21449U
9	Burner Coupling	2433	2433
10	Oil Pump	Suntec B2YA-8916B	PF207N2U
		Suntec B2YA-8248B	PF224N2U
11	Air Guide	189U	178U
13	Connector Tube Assembly	5394	5394
14	Igniter and Base Plate	51824U	51824U
15	Beckett GeniSys Control	7505C1515U	
16	Electrical Box	5770	5770
17	Cad Cell Eye	7006U	7006U
18	Air Tube	Specify	
19	Electrode Kit	51345	51345
20	Unverisal Pressure Flange Kit	51311	51311
21	Splined Nut	3666	3666
22	120V Combu Oil Valve Kit	21789U	21789U
23	Pedestal Kit	5685	5685
24	Retention Head	51401U	512524 (KH) 513024 (KJ)

Replacement Parts CF1000/CF1400, CF2300, and CF2500/CF3500

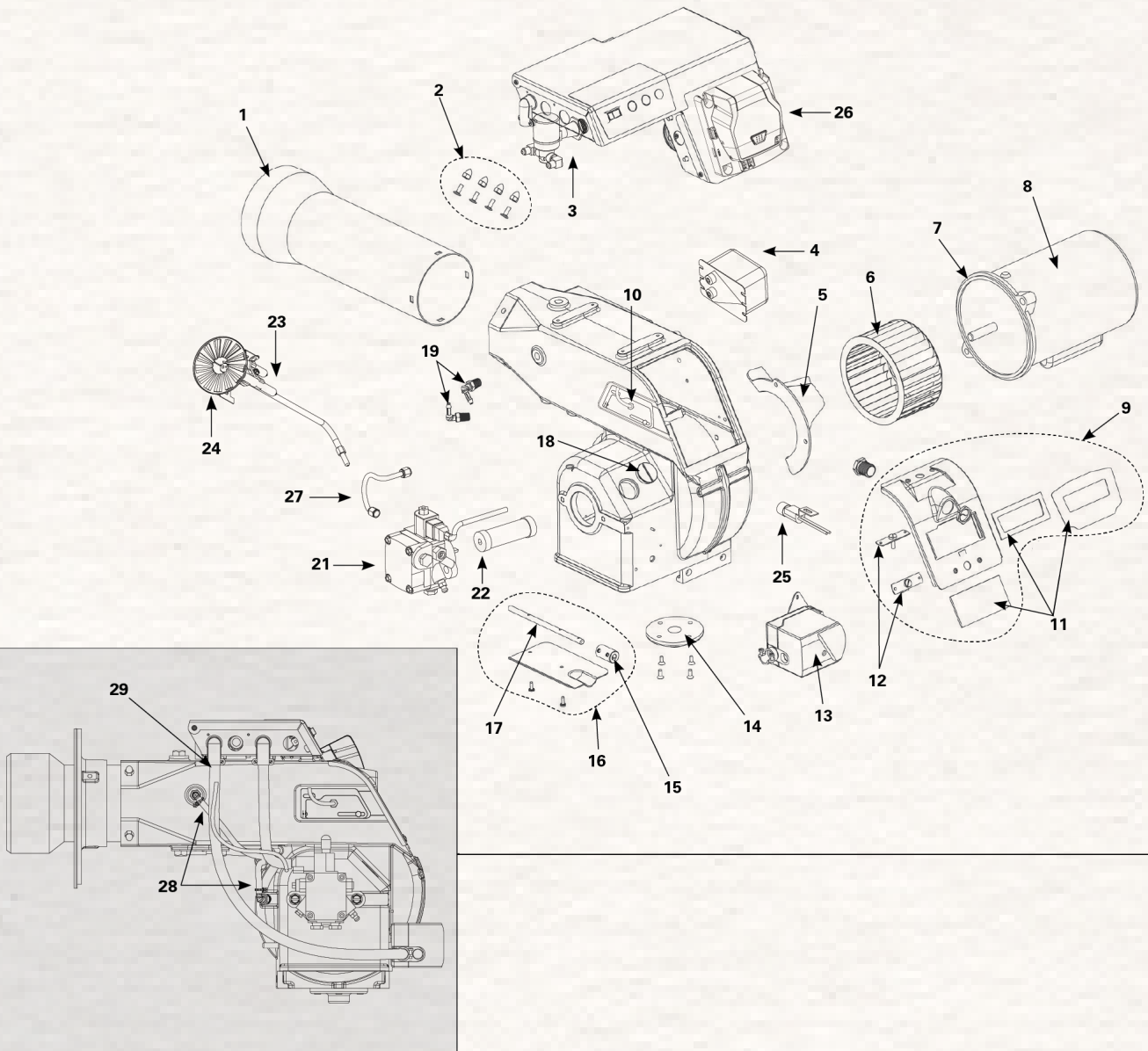
No.	Part Name / Description	Beckett Part No.		
		CF1400	CF2300	CF2500/ CF3500
1	Air Tube	See Note 1		
2	Kit: 1/4-20 x 1/2 Bolt, 1/4-20 Acron Nut (4x)	52531001	52531001	52531001
3	120V 300PSI Combo Oil Valves	21789U (2)	21789U (2)	21789U (3)
4	Transformer	51214	51214	51214
5	Air Guide	176	174	191U
6	Blower Wheel	21268U	21267U	21528U
7	Mounting Flange (for motor)	See Note 2	31347U	31349U
8	Motor 115-208-230V 1 Phase	21401U	21402U	21527U
8	Motor 208-230/380-460V 3 Phase	21638U	21499U	21547U
9	Rear Cover Door Assy - Sheetmetal	5201301U	5201302U	5201302U
10	Adjusting Plate Assembly	7247U	7247U	7247U
11	Sight Glass Kit (Includes Gasket and label)	51345	51345	51345
12	Door Latch, Dzus Fastener	32444U	32444U	32444U
13	Damper Motor - Siemens SQN70.203R20BK	750601U	750601U	750601U
14	Flange for 3/4" Pipe	21256BK	21256BK	21256BK
15	Coupling, Damper Shaft Lo-Hi-Lo,	32280	32280	32280
16	Damper Plate Kit (Includes Brushing, Shaft, Damper Plate, and Coupling and hardware)	32432U	32433U	32434U
17	Damper Shaft	32307P	32308P	32309P
18	Hole Plug	32439U	32439U	32439U
19	Barb Fittings	4508	4508	4508
21	Oil Pump Suntec B2TA-8245	PF22122U		
	Oil Pump Suntec B2TA-8851		PF22322U	
	Oil Pump Suntec J4PA-C1050G			PF245N2U
22	Burner Coupling	21290	21549	21514
23	Electrode Kit (Includes Cable)	51212	51212	51212
24	Retention Head	5978P	51203P	51475P(KM)
25	Cad Cell Eye	7006U	7006U	7006U
26	GeniSys 7505C1515 Control	7505C1515U	7505C1515U	NA
27	Oil Lines	5394	5394	5394
28	Tubing, 1/4" I.D. (Includes Spring Clamps & Barb Fittings)	32404U	32404U	32404U
29	Steel Flexible 3/8" Conduit	■	■	■

■ Not a replacement item through Beckett. An adequate replacement may be found at your local parts store.

Note 1: Appliance must be specified to order an airtube with welded mounting flange.

Note 2: Motor for CG1400 has a built in mounting flange. For the CG2300 and CG3500, the mounting flange is separate.

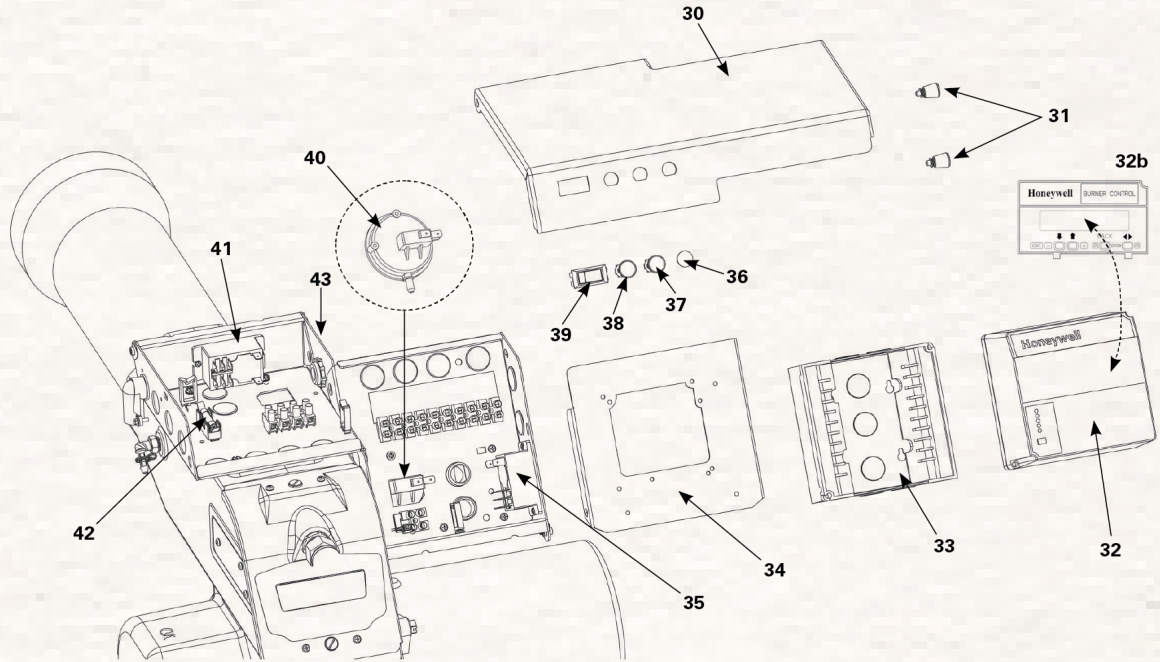
Replacement Parts CF1000/CF1400, CF2300, and CF2500/CF3500



Replacement Parts CF1000/CF1400, CF2300, and CF2500/CF3500

No.	Part Name / Description	Beckett Part No.		
		CF1400	CF2300	CF3500
30	Lid, Junction Box (120V Burner)	32522GY	32522GY	32522GY
31	Plunger for Lid & Primary Control Base	32523	32523	32523
32	Control - Honeywell RM7897A	Contact Beckett for Part Number		
32b	Display for Mod Bus (optional) Honeywell S7800A	7542U	7542U	7542U
32c	Amplifier UV - Honeywell R7849A1015	7391	7391	7391
32d	Timer Purge Card 60 Sec. - Honeywell ST7800A1054	7399	7399	7399
33	Control Subbase - Honeywell Q7800B	7386	7386	7386
34	Control Mounting Plate	32521GY	32521GY	32521GY
35	120V Oil DPDT Relay (Motor 120V)	752801U	752801U	752801U
36	Hole Plug, 1/2"	21034	21034	21034
37	120v 1/2wat Green Light (Fuel On)	21730U	21730U	21730U
38	120v 1/2wat White light (Power on)	21729U	21729U	21729U
39	120V 16amp Roder switch Amber light (Hi/Low)	21924	21924	21924
40	Endura ES2145-0438 Air Proving Switch	22181U	22181U	22182U
41	120v coil DPDT Relay (Damper)	752804	752804	752804
42	Fuse, 6A, Little Fuse 312006HXP	32553U	32553U	32553U
42	Fuse Holder	22155	22155	22155
43	QMSC514 4sec Timer	21295U	21295U	NA

Replacement Parts CF1000/CF1400, CF2300, and CF2500/CF3500



Limited Warranty Information

The R. W. BECKETT CORPORATION ("Beckett") warrants to persons who purchase its "Products" from Beckett for resale, or for incorporation into a product for resale ("Customers"), that its equipment is free from defects in material and workmanship. To qualify for warranty benefits, products must be installed by a qualified service agency in full compliance with all codes and authorities having jurisdiction, and used within the tolerances of Beckett's defined product specifications.

To review the complete warranty policy and duration of coverage for a specific product, or obtain a written copy of warranty form 61545, please choose one of the following options:

1. Visit our website at: www.beckettcorp.com/warranty
2. Email your request to: rwb-customer-service@beckettcorp.com
3. Write to: R. W. Beckett Corporation, P. O. Box 1289, Elyria, OH 44036

NOTE: Beckett is not responsible for any labor cost for removal and replacement of equipment.

THIS WARRANTY IS LIMITED TO THE PRECISE TERMS SET FORTH ABOVE, AND PROVIDES EXCLUSIVE REMEDIES EXPRESSLY IN LIEU OF ALL OTHER REMEDIES, AND IN PARTICULAR THERE SHALL BE EXCLUDED THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL BECKETT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGE OF ANY NATURE. Beckett neither assumes, nor authorizes any person to assume for Beckett, any other liability or obligation in connection with the sale of this equipment. Beckett's liability and Customer's exclusive remedy is limited to the cost of the product.

