Power Flame Incorporated® AND AND THE STREET COMPANY





Power Flame's **Versatile High Performance**

gas, oil or combination gas/oil Gas and Oil Burner burner presents optimum stateof-the-art design for maximum combustion efficiency and operating dependability. These Adjustable Premix Firing Head packaged combustion systems Produces optimum fuel-air will fire natural gas, light oil, and mixture within the premix other gaseous fuels. The burner combustion zone features a 10 to 1 turndown when firing natural gas.

> The flame retention firing head incorporates the nozzle mix multiport combustor and unique air sandwich design to produce full range stable performance in both

The Power Flame Type C

positive or negative combustion chamber environments. Operating system adjustments have been minimized to provide trouble free start up and operating performance.

The Model CG produces efficient combustion without the aid of refractory or other costly flame support devices adding flexibility for a wide range of optional features. All Power FLame packaged combustion systems are factory fire tested to ensure cost effective installation and start

Total Access Panel

Swing out, easily removable top and front panels give total access to all internal panel-mounted components

Alpha System™ LED indicators, switches and operator annunciator





Linkageless System for precise air/fuel ratio control (optional)

> CALL US: VISIT:

620-421-0480 WWW.POWERFLAME.COM CSD@POWERFLAME.COM

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Power Flame AN ASTECIMULATIES COMPANY

STANDARD EQUIPMENT

- Alpha System[™] LED indicators (power, demand, main fuel, FSG alarm, customer selectable) & control switch
- Pressure regulators, pilot and main gas cocks
- Oil valve, nozzle assembly, manual fuel selector switch
- Air safety switch & leakage test cock
- Gas electric pilot and gas ignition transformer

ADDED FEATURES

X-Standard O-Optional NA-Not Available

Flame Safeguard with UV and prepurge with interrupted pilot
On-Off diaphragm gas valve with fixed air control manual adjustment
Low-Hi-Off motorized gas valve with automatic air control
Low-Hi-Low motorized gas valve with automatic air control

Modulation with automatic air control

Integral 2 stage fuel unit (C1, C2 single stage)

Remote mounted 2 stage fuel unit (single stage for C6-C8)

Dual gas®and dual oil safety valves

High and Low gas pressure switches

Direct spark ignition (oil)

Low fire oil start with automatic air control

Man/Auto switch - manual potentiometer - modulation only

(A) Postpurge standard on C2-GO-20B and all C3 to C8 models

Conforms to UL 296 and UL 795

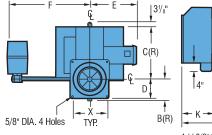
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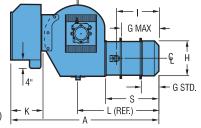
The optional Director SCS provides PLC control for optimum boiler/burner performance

C1-G0-10 C1-G0-12 C2-G0-15	C2-GO-20A	C2-GO-20B	C3-G0-20 C3-G0-25 C3-G0-25B	C4-G0-25	C4-G0-30 C5-G0-30(B) C6-G0-30	C7-G0-30 C8-G0-30							
X	Χ	AX	AX	AX	AX	Ax							
X	NA	NA	NA	NA	NA	NA							
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⁽B) 5,000 MBH and below may be replaced by one (1) proof of closure valve; above 5,000 MBH one (1) of the safety valves will include proof of closure feature.

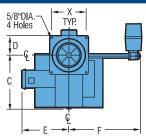
MODEL CR (For low centerline applications)

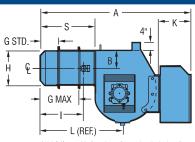




Add 3/8" to "H" for size of opening in boiler front plate

MODEL C





RATINGS & SPECIFICATIONS

CAPACITY¹

Add 3/8" to "H" for size of opening in boiler front plate

DIMENSIONS (Inches) Standard Models.

*This dimension may be increased. Consult factory. **This dimension depicts space required to accommodate a standard gas train.

	** This dimension denicts engage required to accommodate a standard description														OAI AOITT			Diower	otu.	Pressure	นสร			
	** This dimension depicts space required to accommodate a standard gas train.														#2 Oil	Natural	Nominal	Motor H.P.	Gas	Pump	Pressure			
Burner										G	G							GPH	Gas/MBH	Boiler H.P.	(3450	Train	Suction	Required
Model		Α	В	B(R)	C	C(R)	D	E	F**	Std.	*Max.	Н	- 1	K	L	S	Х	Max.	Max.	Max.	RPM)	(ln.)		(In. W.C.) ²
C1-G0-10	3	4 ¹ / ₈	3 ¹³ / ₁₆		14 ¹ / ₂	14 ¹ / ₂	4 ⁵ / ₈	12 ¹ / ₄	20	31/4	43/4	71/4	73/8	10 ¹ / ₄	17 ¹ / ₈	12 ⁵ / ₈	71/4	7.0	980	23.5	1/3	1	#19	5.6
C1-G0-12	3	4 ¹ / ₈	3 ¹³ / ₁₆	5 ⁹ / ₁₆	14 ¹ / ₂	14 ¹ / ₂	4 ⁵ / ₈	12 ¹ / ₄	20	31/4	4 ³ / ₄	7 ¹ / ₄	73/8	10 ¹ / ₄	17 ¹ / ₈	12 ⁵ / ₈	7 ¹ / ₄	9.7	1,360	32.3	1/2	1 ¹ / ₄	#19	5.3
C2-G0-15	3	19 1/8	41/2	6 ¹ / ₈	147/8	14	5 ¹ / ₄	14	20	4	63/4	83/4	81/2	10 ¹ / ₄	18 ⁷ / ₈	13 ³ / ₈	8 ¹ / ₂	15.7	2,200	52.3	3/4	1 ¹ / ₂	#70	5.2
C2-G0-20	A 3	19 1/8	$4^{1}/_{2}$	6 ¹ / ₈	14 ⁷ / ₈	14	5 ¹ / ₄	14	20	4	63/4	83/4	81/2	10 ¹ / ₄	18 ⁷ / ₈	133/8	81/2	17.5	2,500	60.0	1	2	70	4.8
C2-G0-20	B 3	19 1/8	$4^{1}/_{2}$	6 ¹ / ₈	14 ⁷ / ₈	14	5 ¹ / ₄	14	20	4	63/4	83/4	81/2	101/4	18 ⁷ / ₈	133/8	81/2	22.0	3,080	73.5	11/2	2	70	4.8
C3-G0-20		44	5 ¹ / ₄	7	16 ⁵ / ₈	15 ¹ / ₄	6	16	22 ³ / ₈	41/2	8	10 ¹ / ₈	11 ¹ / ₂	10 ¹ / ₄	22	15 ¹ / ₂	10	30.0	4,200	100.0	2	2	105	7.6
C3-G0-25	i ,	44	5 ¹ / ₄	7	16 ⁵ / ₈	15 ¹ / ₄	6	16	22 ³ / ₈	$4^{1}/_{2}$	8	$10^{1}/_{8}$	111/2	101/4	22	15 ¹ / ₂	10	33.7	4,718	112.0	2	$2^{1}/_{2}$	105	7.0
C3-G0-25	В	44	5 ¹ / ₄	7	16 ⁵ / ₈	15 ¹ / ₄	6	16	22 ³ / ₈	41/2	8	$10^{1}/_{8}$	11 ¹ / ₂	10 ¹ / ₄	22	15 ¹ / ₂	10	37.5	5,250	125.0	3	2 ¹ / ₂	135	7.2
C4-G0-25	i	50	61/4	7 ⁵ / ₁₆	18 ⁷ / ₈	17 ¹¹ / ₁₆	7	18 ¹ / ₂	28	6	9	12 ¹ / ₈	14 ¹ / ₄	10 ¹ / ₄	26 ⁵ / ₈	19 ¹ / ₈	12	45.0	6,300	150.0	5	2 ¹ / ₂	135	8.0
C4-G0-30		50	61/4	7 ⁵ / ₁₆	18 ⁷ / ₈	17 ¹¹ / ₁₆	7	18 ¹ / ₂	28	6	9	12 ¹ / ₈	14 ¹ / ₄	10 ¹ / ₄	26 ⁵ / ₈	19 ¹ / ₈	12	56.0	7,840	190.0	5	3	† 135	12.1
C5-G0-30	(B)	50	61/4	7 ⁵ / ₁₆	18 ⁷ / ₈	17 ¹¹ / ₁₆	7	18 ¹ / ₂	26 ¹ / ₂	6	9	12 ¹ / ₈	14 ¹ / ₄	10 ¹ / ₄	26 ⁵ / ₈	19 ¹ / ₈	12	75.0	10,500	250.0	71/2	3	† 250	19.9, 17.8
C6-G0-30	4	1 9 ⁷ / ₈	61/4	7 ⁵ / ₁₆	18 ⁷ / ₈	17 ¹¹ / ₁₆	$7^{3}/_{4}$	19 ⁷ / ₈	26 ¹ / ₂	5	11 ³ / ₄	135/8	14 ¹ / ₈	10 ¹ / ₄	26 ¹ / ₂	19	13 ¹ / ₂	101.5	14,215	340.0	10	3	† 250	26.5
C7-G0-30	51	1 ¹¹ / ₁₆	8 ¹ / ₈	10 ¹ / ₈	24 ⁵ / ₁₆	22 ³ / ₈	83/4	18	21 ¹³ / ₁₆	$4^{7}/_{8}$	11 ¹ / ₄	155/8	13 ⁷ / ₈	91/8	26 ¹ / ₂	19	13 ¹ / ₂	121.4	17,000	404.0	15	3	235	40.0
C7-G0-30	B 51	1 ¹¹ / ₁₆	8 ¹ / ₈	10 ¹ / ₈	24 ⁵ / ₁₆	22 ³ / ₈	83/4	18	21 ¹³ / ₁₆	4 ⁷ / ₈	11 ¹ / ₄	155/8	13 ⁷ / ₈	91/8	26 ¹ / ₂	19	13 ¹ / ₂	126.4	17,700	421.0	20	3	235	45.0
C8-G0-30	50	6 ⁹ / ₁₆	8 ¹ / ₈	10 ¹ / ₈	27 ¹ / ₈	27 ⁵ / ₈	83/4	20	24 ³ / ₈	31/4	9 ⁵ / ₈	15 ⁵ / ₈	12 ¹ / ₄	91/8	247/8	17 ⁵ / ₁₆	13 ¹ / ₂	136.4	19,100	454.0	15	3	235	50.0

- NOTES: 1. Capacities listed are based on 0.20" W.C. positive pressure, except for C5-GO-30B, which is rated for 250 BHP at +1.2" W.C. Refer to capacity curves for derates based upon combustion chamber pressure.
 - 2. At inlet to main manual shutoff cock to obtain P/F certified ratings with standard U.L. gas train. Optional gas trains and combustion heads available for lower pressures. † Remote Pump Set with 200 (208) or 230/460/3/60 motor, 3450 RPM 3/4 HP C4; 1750 RPM 1 HP C5, C6; 1750 RPM 1-1/2 HP C7, C8.
 - † For On-Off and modulating firing modes only. Refer to C Manual for capacities on other modes.

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