

POWER FLAME FEATURES

Models available with Power Flame certified capacities from 7,350 MBH to 25,200 MBH based on 2.0" W.C. positive combustion chamber pressure. Each model available to fire against combustion chamber pressures up to 4.0" W.C. at reduced capacities. U.L. Listed-MP1836.

Capable of firing all types of gas, as well as all grades of commercial fuel oil (No.2 through No.6) various liquid or gaseous fuels of similar characteristics.

Standard control components mounted and wired within burner housing to comprise unique Scroll Mounted Control Panel.

An exclusive firing head produces maximum controlled efficiency in combustion chambers operating at either negative draft or positive furnace conditions.

Integral combustion air fan design provides quiet, highly efficient straight line metered air flow.

Standard configuration includes burner and integrally mounted control panel with compressor and pump set, as well as U.L. listed gas train components.

A constant displacement fuel metering system capable of supplying metered fuel flow regardless of changes in liquid viscosity is available. Standardized design provides competitively priced multiple application capability in such varied installations as steam and hot water generators, waste heat boilers, fume incinerators and grain dryers.

A fuel metering system capable of providing straight line metered fuel flow utilizing the Varicam® adjustable cam operated metering system is standard.

A total energy system which can be packaged and shipped as a single integrally fire-tested unit complete with all components mounted, wired, and piped on a common base.



Flame Retention Firing Head (Top) Scroll Mounted Panel (Bottom)

STANDARD AND OPTIONAL EQUIPMENT

X-Standard O-Optional Consult factory for full line of accessories	C3	C5	D7.5	E10	E15	
3450 RPM Motor & Blower	Χ	Х	Х	Χ	X	
Flame Safeguard System with Prepurge & Post Purge & Lead Sulphide Scanner	Χ	X	X	X	X	
Ultra Violet Scanner	0	0	0	0	0	
Gas Elec. Pilot Assembly with Ignition Transformer, Solenoid Valve & Pilot Cock	X	X	X	X	X	
Full Modulation with Proven Low Fire Start, Manual-Auto Switch & Manual Fuel Rate Potentiometer	X	Х	Х	X	Х	
Scroll Mounted Control Panel with 4 Signal Lights, Engraved Nameplate, Control Transformer, Fuse, 0-0 Switch, Manual Fuel Selector Switch	X	x	x	X	х	
Combustion Air Switch	Χ	X	X	X	X	
Motorized Main Gas Valve (With Proof of Closure System) & Auxiliary Safety Valve	Х	X	X	X	X	
High & Low Gas Pressure Switches	Х	X	Х	Χ	X	
N/O Vent Valve (3/4" Min.)	0	0	X	X	X	
Pilot & Main Gas Pressure Regulator	Χ	X	X	X	X	
Main Gas Cock & Leakage Test Cocks	Χ	X	X	X	X	

Characterized Fuel Metering System

Dual Oil Valves, Diffuser & Nozzle Assembly Normally Open Bypass Valve & Purge Valve - No.5 & No.6 Oil

Simplex Oil Strainer Fuel Oil Pump Set & Low Oil Pressure Switch

Back Pressure Regulating Valve Final Oil Preheater With High & Low Temperature Interlock - No.4, No.5, & No. 6 Oil Compressor Set

Customized Control Systems & Accessories, Factory Mutual, IRI & Other Accessories Enforced Low Fire Shut Down - No.4, No.5, & No.6 Oil

Enforced Low Fire Shut Down - Gas, No.2 Oil

RATINGS & SPECIFICATIONS

Certified Ca MBH Natural Gas	pacity † 1.25' GPH No.2 Oil	' W.C. Positive GPH No.6 Oil	Pressure Nominal Boiler HP	Model ††	Blower Motor** (HP)	Gas Train Size	Gas Press. Req'd. at inlet to manual shut-off***	Shipping Weight	
7350	52	48	175	HPGAO_‡C3_*	3.0	3.0"	15.0 W.C.	2050	
9500	68	62	226	HPGAO_C5_	5.0	3.0"	22.0 W.C.	2200	
14700	105	96	350	HPGAO_D7.5_	7.5	3.0"	1.25 lbs.	2400	
19000	136	124	452	HPGAO_E10_	10.0	3.0"	2.5 lbs.	2500	
25200	180	165	600	HPGAO_E15_	15.0	3.0"	5.0 lbs.	2500	

- † At 0.5" W.C. furnace pressure, ratings may be increased, as a minimum + 10%. Consult factory for details. Burner ratings are based on an elevation
- of 2000' ASL, De-rate 4% for each additional 1000' elevation. †† Equivalent models to fire gas only or oil only.

Specify grade of fuel oil.
 Specify L //---

X

X

Χ

Χ

X

Χ

X

X

0

X

0

X

X

Χ

X

X

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X

X

0

X

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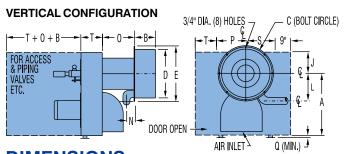
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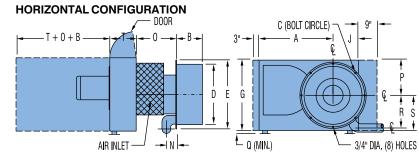
X 0

- Specify H (horizontal) or V (vertical) configuration.
- Consult engineering data sheet for compressor, oil pump,
- and preheater specifications.

 *** Based on 1.25" W.C. positive furnace pressure.

MODEL HPGAO





DIMENSIONS (Inches) Standard Models.

Burner Model	A	В	C	*D	E	G	J	L	N	0	Р	Q	R	S	T	
C3,C5	34	8	22 ¹ / ₂	191/2	24	31	11	13¹/ ₄	43/4	15	15 ¹ / ₂	11/2	8	15 ¹ / ₂	12 ¹ / ₄	
D7.5	34	12	26 ¹ / ₂	24	28	31	11	14 ³ / ₄	43/4	15	15 ¹ / ₂	11/2	91/2	15 ¹ / ₂	12 ¹ / ₄	
E10,E15	36	12	301/2	28	32	34	12	16	43/4	18 ³ / ₄	17	11/2	10 ³ / ₄	17	12 ¹ / ₄	

Add 0.5" to D dimension for size of opening in boiler front plate.

Dimensions given are for Scroll Mounted Controls. Gas inlets are standard to left side of burners as shown. All dimensions approximate for guidance only.





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