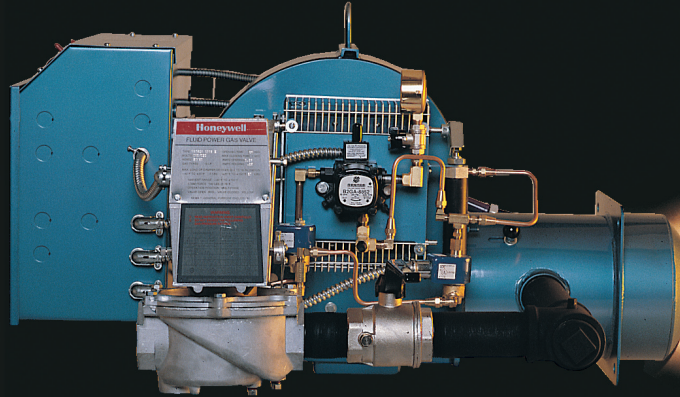


MODEL ACO/ACGO
AIR OR STEAM
ATOMIZING FORCED
DRAFT BURNERS

GAS
LIGHT OIL

420-19,100 MBH
3-136 GPH

Power Flame® Type AC



Power Flame's Versatile High Performance Air or Steam Atomizing Light Oil Burner

The Power Flame Model AC dual fuel burner presents optimum state-of-the-art design for maximum combustion efficiency and operating dependability. These packaged combustion systems will fire all types of gaseous fuels as well as #2 or similar distillate liquid fuels. The Model AC Air Atomizing Burner fires #2 oil at turndowns up to 8:1, up to 10:1 on natural gas. Its flame retention firing head incorporates a single air atomizing nozzle assembly for liquid fuels and a nozzle mix multipoint combustor for gaseous fuels. Our unique *air sandwich* firing

head design produces full range stable performance in both positive or negative combustion chambers. Operating system adjustments have been minimized to provide trouble-free start up and operation.

The Model AC provides efficient combustion without the aid of refractory or other costly flame support devices. Options include the premix and low gas pressure firing heads for limited size combustion chamber configurations or low gas pressure conditions. Modular design provides added 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 up.

Alpha System™
LED indicators, switches and operator annunciator. (Optional additional 6-light board shown on right.)

Adjustable Premix Firing Head
Produces optimum fuel/air mixture within the premix combustion zone*

Circular Furnace Opening
No special cutting of combustion chamber front plate

Low Gas Pressure Firing Head
Added flexibility of application for low gas pressure conditions*

Characterized Fuel Metering
Varicam® provides adjustable and accurately repeatable fuel/air ratios throughout the firing range*

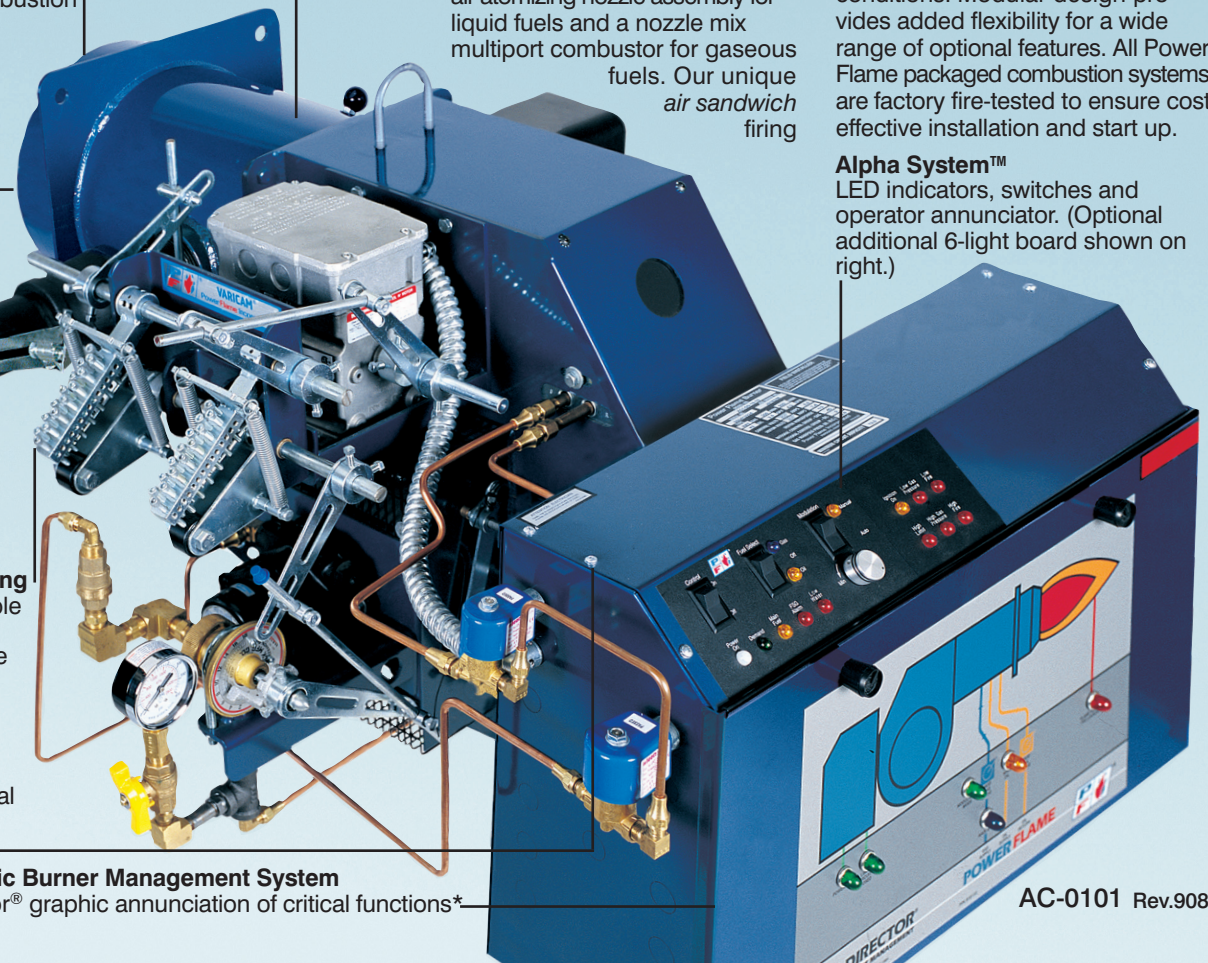
Total Access Panel
Swing out, easily removable top and front panels give total access to all internal panel-mounted components

Graphic Burner Management System
Director® graphic annunciation of critical functions*



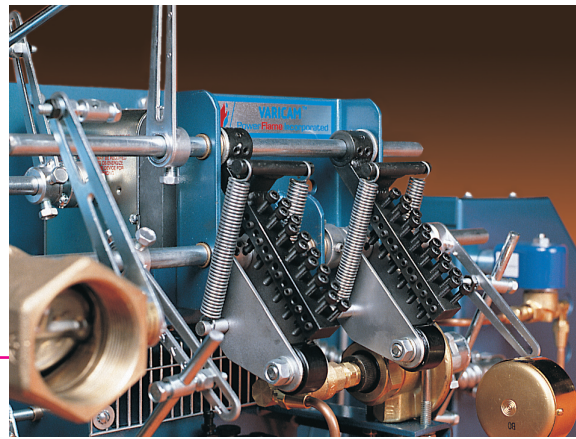
*Optional

AC-0101 Rev.908



Power Flame

The Power to Manage Energy



The optional Varicam® has 14 adjustable set-points to maintain optimum fuel/air ratios from low to high fire settings.

STANDARD EQUIPMENT

- 3450 RPM blower, panel with 2 lights & 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 ignition transformer

ADDED FEATURES

X-Standard O-Optional NA-Not Available

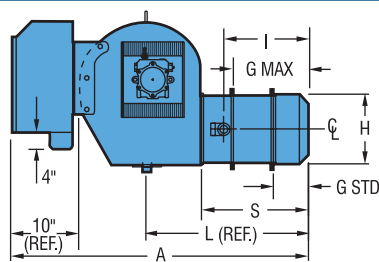
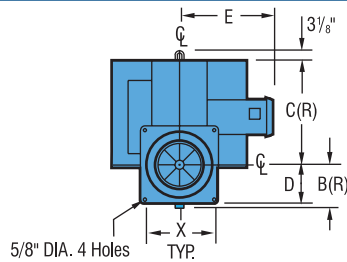
UVFlame Safeguard with prepurge & postpurge with interrupted pilot	X	X	X	X
Modulation with automatic air control	X	X	X	X
Integral 2 stage fuel unit	X	X	NA	NA
Remote mounted 2 stage fuel unit (single stage for AC6-AC8)	O	O	X	X
Dual gas ^(A) and dual oil safety valves	X	X	X	X
High and Low gas pressure switches	X	X	X	X
Air atomizing compressor set	X	X	X	X
Man/Auto switch - manual potentiometer	X	X	X	X

- Conforms to UL 296 and UL 795

AC3-GO-20 AC3-GO-25 AC3-GO-25B	AC4-GO-25 AC4-GO-30	AC5-GO-30(B) AC6-GO-30	AC7-GO-30 AC8-GO-30
X	X	X	X
X	X	X	X
X	X	NA	NA
O	O	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X

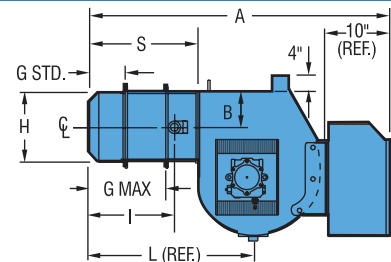
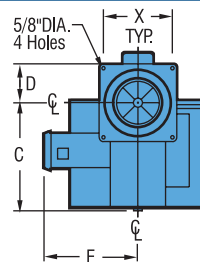
^(A) 5,000 MBH and below may be replaced by one (1) proof of closure valve; above 5,000 MBH one (1) of the safety valves will include proof of closure feature.

MODEL ACR (For low centerline applications)



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

MODEL AC



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

DIMENSIONS (Inches) Standard Models.

* This dimension may be increased. Consult factory.

Burner Model	A	B	B(R)	C	C(R)	D	E	G		H	I	L	S	X	CAPACITY ¹			Blower Motor H.P. (3450 RPM)	Std. Gas Train (In.)	Pump Suction Capacity	Remote Pump HP (†)	Compressor HP	Gas Pressure Required (In.W.C.) ²
								Std.	*Max						#2 Oil GPH Max.	Natural Gas/MBH Max.	Nominal Boiler H.P. Max.						
AC3-GO-20	44	5 ¹ / ₄	7	16 ⁵ / ₈	15 ¹ / ₄	6	16	4 ¹ / ₂	8	10 ¹ / ₈	11 ¹ / ₂	22	15 ¹ / ₂	10	23.5	3,285	80.0	2	2	69	1/3	3/4	5.3
AC3-GO-25	44	5 ¹ / ₄	7	16 ⁵ / ₈	15 ¹ / ₄	6	16	4 ¹ / ₂	8	10 ¹ / ₈	11 ¹ / ₂	22	15 ¹ / ₂	10	30.3	4,240	100.0	2	2 ¹ / ₂	79	1/3	3/4	7.5
AC3-GO-25B	44	5 ¹ / ₄	7	16 ⁵ / ₈	15 ¹ / ₄	6	16	4 ¹ / ₂	8	10 ¹ / ₈	11 ¹ / ₂	22	15 ¹ / ₂	10	33.8	4,725	110.0	3	2 ¹ / ₂	79	1/3	3/4	6.0
AC4-GO-25	50	6 ¹ / ₄	7 ⁵ / ₁₆	18 ⁷ / ₈	17 ¹¹ / ₁₆	7	18 ¹ / ₂	6	9	12 ¹ / ₈	14 ¹ / ₄	26 ⁵ / ₈	19 ¹ / ₈	12	40.5	5,670	135.0	3	2 ¹ / ₂	93	1/3	1 ¹ / ₂	9.5
AC4-GO-30	50	6 ¹ / ₄	7 ⁵ / ₁₆	18 ⁷ / ₈	17 ¹¹ / ₁₆	7	18 ¹ / ₂	6	9	12 ¹ / ₈	14 ¹ / ₄	26 ⁵ / ₈	19 ¹ / ₈	12	50.4	7,055	170.0	5	3	93	1/3	1 ¹ / ₂	11.7
AC5-GO-30	50	6 ¹ / ₄	7 ⁵ / ₁₆	18 ⁷ / ₈	17 ¹¹ / ₁₆	7	18 ¹ / ₂	6	9	12 ¹ / ₈	14 ¹ / ₄	26 ⁵ / ₈	19 ¹ / ₈	12	67.5	9,450	225.0	7 ¹ / ₂	3	190	1/2	2	16.3
AC5-GO-30B	50	6 ¹ / ₄	7 ⁵ / ₁₆	18 ⁷ / ₈	17 ¹¹ / ₁₆	7	18 ¹ / ₂	6	9	12 ¹ / ₈	14 ¹ / ₄	26 ⁵ / ₈	19 ¹ / ₈	12	72.1	10,100	240.0	7 ¹ / ₂	3	190	1/2	2	16.3
AC6-GO-30	49 ⁷ / ₈	6 ¹ / ₄	7 ⁵ / ₁₆	18 ⁷ / ₈	17 ¹¹ / ₁₆	7 ³ / ₄	19 ⁷ / ₈	5	11 ³ / ₄	13 ⁵ / ₈	14 ¹ / ₈	26 ¹ / ₂	19	13 ¹ / ₂	90.0	12,600	300.0	10	3	190	1/2	2	20.9
AC7-GO-30	51 ¹¹ / ₁₆	8 ¹ / ₈	10 ¹ / ₈	24 ⁵ / ₁₆	22 ³ / ₈	8 ³ / ₄	18	4 ⁷ / ₈	11 ¹ / ₄	15 ⁵ / ₈	13 ⁷ / ₈	26 ¹ / ₂	19	13 ¹ / ₂	121.4	17,000	404.0	15	3	220	1/2	3	40.0
AC7-GO-30B	51 ¹¹ / ₁₆	8 ¹ / ₈	10 ¹ / ₈	24 ⁵ / ₁₆	22 ³ / ₈	8 ³ / ₄	21	4 ⁷ / ₈	11 ¹ / ₄	15 ⁵ / ₈	13 ⁷ / ₈	26 ¹ / ₂	19	13 ¹ / ₂	127.8	17,900	425.0	20	3	220	1/2	3	46.3
AC8-GO-30	56 ⁹ / ₁₆	8 ¹ / ₈	10 ¹ / ₈	27 ¹ / ₈	27 ⁵ / ₈	8 ³ / ₄	20	3 ¹ / ₄	9 ⁵ / ₈	15 ⁵ / ₈	12 ¹ / ₄	24 ⁷ / ₈	17 ⁵ / ₁₆	13 ¹ / ₂	136.4	19,100	454.0	15	3	220	1/2	3	50.0

1. Capacities listed are based on 0.20" W.C. positive pressure. For derates, see capacity curves.
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.

† Integral Pump standard on AC3 and AC4. Remote Pump optional with 1/8 HP motor at 3450 RPM. AC5 through AC8 Remote Pump standard with 1/2 HP motor at 1750 RPM.

Represented By:



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