





PROCESS / HVAC BURNERSDirect or Indirect Fired Air Heating Gas Burners

Type FD/FDM

GAS: 30,000 – 5,000,000 BTU

Welded Steel Construction for durability and reliable service **Fixed Air Damper** simplifies operating system adjustment (E (U) (U)

The Power Flame® Type FD/FDM Burners are designed to fire process heating appliances or air handling systems that require direct or indirect heating of the air stream. The direct fired, fixed air Model FD is capable of firing either in lin or at 90° to the process air flow with turndowns of 40:1 or greater. The indirect fired, modulating air Model FDM is capable of maintaining on-rationcontrol over a 20:1 turndown.

Its reliable direct spark ignition, high combustion efficiencies and low maintenance make this burner suitable for a wide range of process and air heating applications. Prepiped and prewired gas trains are available as part of an integrated combustion package that can be configured to meet local/national codes or customer specific requirements.

CALL US: VISIT: EMAIL:

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Power Flame® AN ASTECIMUSTRIES COMPANY

STANDARD AND OPTIONAL EQUIPMENT

X-Standard O-Optional N/A-Not Applicable	FD	FDM
3450 RPM Fan Motor	Х	Х
Connections for Combustion Air Switch	Χ	Х
Fixed Combustion Air Damper	Χ	N/A
Modulating Combustion Air Damper	0	Х
Flame Rod	Χ	Х
UV Scanner	0	0
Ignition Electrode	Χ	Χ
Modulating Butterfly Gas Valve	Χ	X
Ignition Transformer	0	Χ
Modulating Motor	0	X
Combustion Flow Air Switch	0	Χ
Combustion Control System	0	X
Prepiped and Prewired Gas Trains	0	0
Alternate Mode of Operation (On-Off, Low-High-Off, Low-High-Low)	0	0
Custom Control Panels	0	0
Wall Penetration Protection Sleeve (For High Velocity Air Streams)	0	0

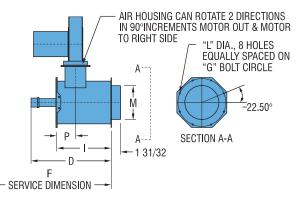
Note: FD Models are ETL Approved and FDM Models are UL Approved



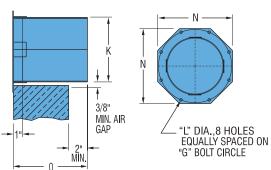
Model FDM-modulating pie shaped dampers allow close control of air/fuel ratios over a **20:1** turndown for special gas fired air handling applications.

MODEL FD

GAS INLET CAN ROTATE ANY DIRECTION IN 90° INCREMENTS



OPTIONAL WALL PROTECTION SLEEVE



DIMENSIONS (Inches) Standard Models.

RATINGS & SPECIFICATIONS

Burner Model	Α	В	С	D	E	F	G	Н	ı	J	K	L	M	N	0	Р	Blower Motor H.P. (3450 RPM)	Capacity (I Natural Max ¹ FD M	Gas	Gas Pressure Required ²
FD/FDM75	141/32	91/16	5 ¹⁵ / ₁₆	127/8	15 ²³ / ₃₂	25	87/8	20 % ₃₂	8	4%	67/ ₈	7/16	5 ²⁹ / ₃₂	91/16	77/8	31/4	1/4	750,000 30,	000 37,500	2.8" W.C.
FD/FDM150	16 %	11	67/8	151/4	17 ²⁵ / ₃₂	32 1/ ₄	10 %	231/32	91/2	51/2	87 ₁₆	7/16	71/2	11	9 27/32	41/4	1/3	1,500,000 50,	000 75,000	2.1" W.C.
FD/FDM225	17 %,	13¾ ₈	91/8	171/4	201/16	36 ¹⁵ / ₁₆	13	26 ³ / ₄	12 ½ ₁₆	611/16	10 %	7/16	97/16	13¾	11 ¹³ / ₁₆	4	1 ₂	2,250,000 75,	000 112,500	2.0" W.C.
FD/FDM300	18³/ ₄	151/2	11 ¾ ₁₆	187/ ₁₆	22 ³ / ₁₆	40 %	15	2915/16	1315/16	7¾	12 ¾	1/2	11	151/2	13 ¹¹ / ₁₆	7¾	3/ ₄	3,000,000 90,	000 150,000	2.4"W.C.
FD/FDM350	183/4	151/2	11 ¾ ₁₆	187/16	22 ³ / ₁₆	40 ⁵ / ₈	15	29 ¹⁵ / ₁₆	1315/16	73/4	12³/ ₈	1/2	11	151/2	13 ¹¹ / ₁₆	73/4	11/2	3,500,000 105,	000 175,000	3.7" W.C.
FD/FDM500	N/A	2025/22	12³/。	21 ²³ / ₂₂	28	411/2	191/2	391/16	15 ²¹ / ₂₂	1111/4	N/A	N/A	5/	12 ¹ / ₁₆	N/A	5³/22	3	5,000,000		6.8" W.C.

NOTES: 1. PFI certified capacities listed are based on balanced (-0" W.C.) draft conditions.

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^{2.} Pressure required at the gas inlet to the firing head to obtain maximum rate.