

## TYPE X4

**GAS :**  
40,000–725,000 BTU/HR

**Power Flame's Extreme  
Small Gas Burner**  
400,000-725,000 BTU/HR.

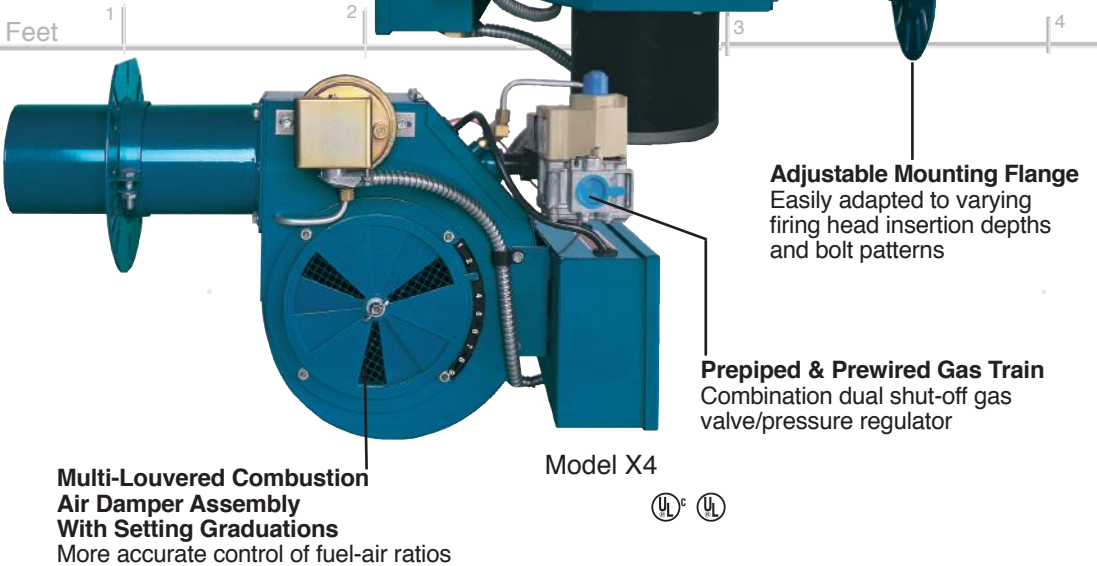
The X4 family of small gas burners has the capability of firing against a positive back pressure of over 1.5 inches W.C. As a result, X4 burners are adaptable to a very broad range of heating and process applications. The burners provide a new level of performance, more efficient and robust than any other 4" diameter burners in the marketplace. The unique gas manifold/diffuser firing head allows fuel and air to mix rapidly and thoroughly, creating a stable, compact flame.

The gas pilot assembly design ensures reliable ignition of the main flame. Thoroughly tested and UL/CUL listed, the X4 family of burners meets the most demanding application requirements. These burners can be supplied with 6", 9" or 12" blast tubes, direct spark ignition, ON-OFF or MODULATING operating modes and optional CSD-1 compliance.



**Totally Enclosed Control Panel**  
Protection with easy access to X4 operating components

**4" Circular Furnace Opening**  
No special cutting of combustion chamber front plate



**Adjustable Mounting Flange**  
Easily adapted to varying firing head insertion depths and bolt patterns

**Prepiped & Prewired Gas Train**  
Combination dual shut-off gas valve/pressure regulator

**Multi-Louvered Combustion Air Damper Assembly With Setting Graduations**  
More accurate control of fuel-air ratios

Model X4



U.S. Patent Number 6,508,645

**CALL US:** 620-421-0480  
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**POWER FLAME INCORPORATED**  
2001 S. 21<sup>ST</sup> ST. PARSONS, KS 67357  
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**Model X4M HTD**  
high turndown burner  
is capable of a 10:1  
turndown.

## STANDARD EQUIPMENT

- 3450 RPM motor, squirrel cage blower, adjustable damper and control panel
- 24 Volt control transformer
- Combination dual shut-off gas valve/pressure regulator (14 in. W.C. inlet max.)
- 24 Volt flame safeguard with flame rod, intermittent pilot and prepurge
- Air safety switch

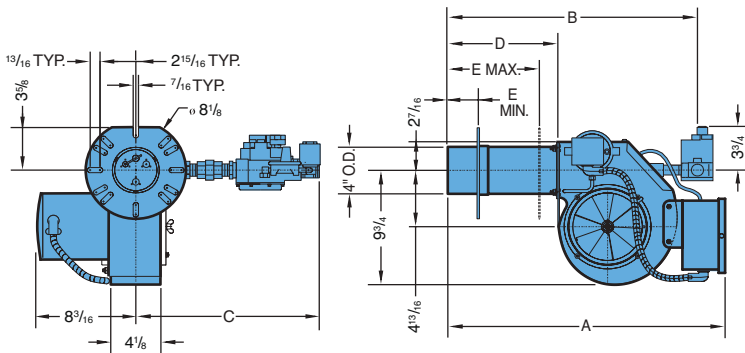
## ADDED FEATURES

X-Standard O-Optional

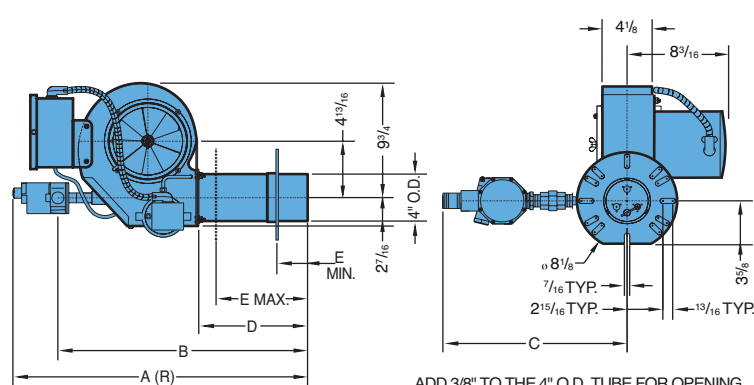
- Flame safeguard with flame rod and intermittent pilot
- CSD-1 compliance with 120 volt control
- On-Off mode of operation
- Modulating mode of operation
- 10:1 turndown
- 120 Volt/Single phase electrical supply
- Prepiped and prewired gas train
- Complete set of orifices for natural or LP gas

- Conforms to UL 795.
- X4-400 is ANSI Listed.

	X4-400	X4-700	X4M-400	X4M-700	X4M400 HTD	X4M-700 HTD
Flame safeguard with flame rod and intermittent pilot	X	X	X	X	X	X
CSD-1 compliance with 120 volt control	N/A	O	N/A	O	N/A	O
On-Off mode of operation	X	X	N/A	N/A	N/A	N/A
Modulating mode of operation	N/A	N/A	X	X	X	X
10:1 turndown	N/A	N/A	N/A	N/A	X	X
120 Volt/Single phase electrical supply	X	X	X	X	X	X
Prepiped and prewired gas train	X	X	X	X	X	X
Complete set of orifices for natural or LP gas	X	X	X	X	X	X



ADD 3/8" TO THE 4" O.D. TUBE FOR OPENING  
IN HEAT EXCHANGER FRONT PLATE



ADD 3/8" TO THE 4" O.D. TUBE FOR OPENING  
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## DIMENSIONS (Inches)

Burner Model	A	A(R)	B	C	Blast Tube Length	E	
						D	E Max.
X4-400-9	23	24 3/8	20 1/4	11 7/8	9 1/8	1	7 1/2
X4-700-9	23	24 3/8	20 1/4	15 1/4	9 1/8	1	7 1/2
X4M-400-9, X4M-400-9HTD	23	24 3/8	20 1/4	9 3/4	9 1/8	1	7 1/2
X4M-700-9, X4M-700-9HTD	23	24 3/8	20 1/4	9 3/4	9 1/8	1	7 1/2

## RATINGS & SPECIFICATIONS

Burner Model	Capacities in MBH <sup>1</sup> (Natural Gas or L.P.) Inlet Gas Pressures <sup>2</sup> MAX.				Blower Motor H.P. (3450 RPM)	Gas Train Size (In.)
	4" W.C.	5" W.C.	5.5" W.C.	6" W.C.		
X4-400-9	360	400	N/A	N/A	1/4	3/4
X4-700-9	560	645	725	N/A	1/4	1
X4M-400-9, X4M-400-9HTD	360	400	N/A	N/A	1/4	3/4
X4M-700-9, X4M-700-9HTD	560	645	690	725	1/4	1

NOTES: 1. PF certified maximum capacities listed are based on +0.1" W.C. combustion chamber pressure.  
2. At inlet to combination gas valve to obtain PF certified maximum rating with standard U.L. gas train.

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