Data 111-4
6/15/2017

Eclipse Winnox Burners

Model WX0600

Version 3

Parameter		Specifications	
Blower Type			
Maximum Input, Btu/h (kW)[1] *For chamber pressures outside the given range or for varying chamber pressure conditions, contact Eclipse, Inc.*	Chamber Pressure "w.c. (mbar)	**Packaged Blower** Nominal (50Hz and 60Hz)	**Remote Blower** Pressure at Air Inlet 1 psig (70 mbar)
	-5.0 (-12.5)	6,690,000 (1960)	8,280,000 (2420)
	-3.0 (-7.5)	6,430,000 (1880)	7,920,000 (2320)
	0.0	6,000,000 (1760)	7,340,000 (2150)
	1.0 (2.5)	5,870,000 (1720)	7,140,000 (2090)
	2.0 (5.0)	5,720,000 (1680)	6,930,000 (2030)
Minimum Input, Btu/h (kW) *For lower inputs, contact Eclipse, Inc.*		550,000 (160)	550,000 (160)
Main Gas Inlet Pressure, "w.c. (mbar)[2] *Fuel pressure at ratio regulator inlet*	Maximum	61 (152)	75 (186)
	Minimum	38 (95)	47 (117)
Maximum Chamber Temperature, °F (°C) *Maximum tube temperatures should be reduced 150°F (66°C) when using propane or butane.*		Standard combustion tube: 1300 (704) High temperature combustion tube: 1550 (843) Refractory plug: 1800 (982)[3]	
High Fire Visible Flame Length, inches (mm) *Measured from the outlet end of the combustor*	Alloy Tube	Flame is inside tube at all times.	
% Excess Air at High Fire		40% - 70%	
Piping		NPT or BSP connections available	
Flame Detection		Flame rod or UV scanner	
Fuels[4] *For any other mixed gas, contact Eclipse, Inc.*		Natural gas, Propane, Butane	
Blower Motor Power, Hp		7.5	-
Weight, lbs (kg)[5]	Alloy Tube	505 (228)	335 (152)
	Refractory Plug	456 (207)	289 (131)
Approvals			

[1] Maximum inputs for packaged blower versions are given for the standard combustion air blower without an inlet air filter.

[2] For proper performance, this pressure must be kept constant across the burner operating range.

[3] See page 3 of this datasheet and Installation Guide 111 for “Refractory Plug Only” installation.

[4] See Design Guide 111 for more information about typical fuel composition and properties.

[5] All weights are approximate.

- All inputs are based on gross calorific values and standard conditions: one atmosphere, 70°F (21°C).
- All information is based on laboratory testing. Different chamber conditions will affect the data.
- Eclipse reserves the right to change the construction and/or configurations of our products at any time without being obliged to adjust earlier supplies accordingly.

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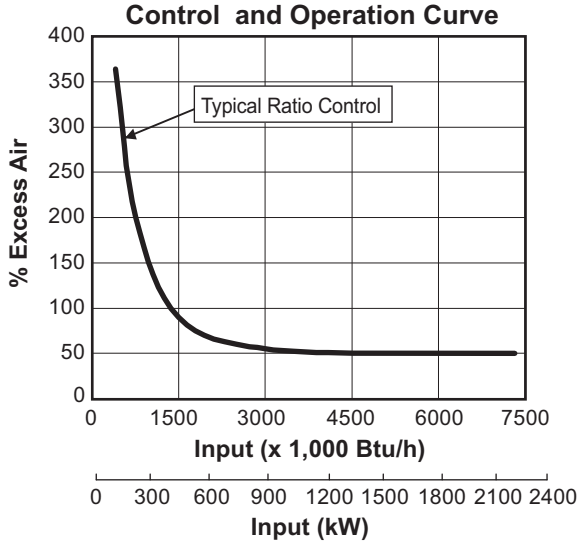
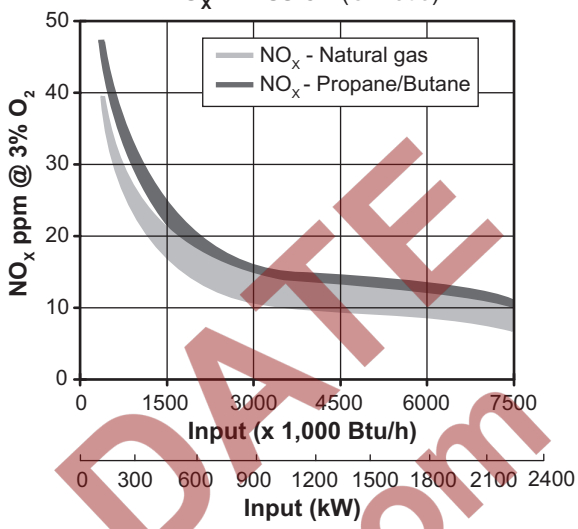
Performance Graphs

Control and Operation Curve



NO_x Emission (On ratio)



Fuel/Input Measurement

System design must include fuel flow measurement upstream of the burner. Eclipse recommends its 8-5 FOM (Fuel Orifice Meter) assembly number 302087-5 for natural gas. See Bulletin 930 for details.

Secondary By-Pass Fuel Setting:

Fuel	ΔP "w.c. (mbar)*
Natural Gas	8.0 (20.0)
Propane	8.0 (20.0)
Butane	8.0 (20.0)

*Measured between Tap "E" and the chamber at low fire.

NOTE: Input at low fire changes with ratio regulator adjustment.

NO_x emission data is given for:

- Ambient combustion air (~70°F, 21°C)
- Less than 1000°F (540°C) firing chamber
- Minimal process air velocity
- Low fire input adjusted to 550,000 Btu/h (161 kW)
- Neutral chamber pressure

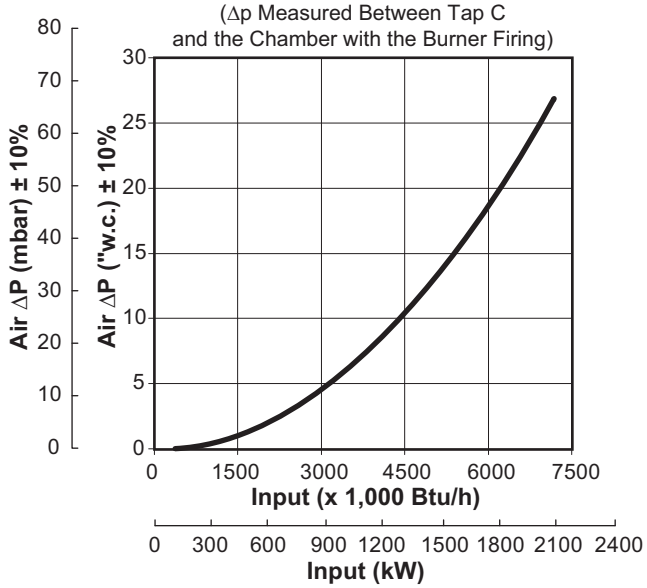
Emissions from the burner are influenced by:

- Chamber conditions
- Fuel type
- Firing rate
- Ratio regulator adjustments
- Combustion air temperature

CO emission is largely influenced by chamber conditions. Contact your local Eclipse representative for an estimate of CO emission on your application.

Air Δp vs. Input

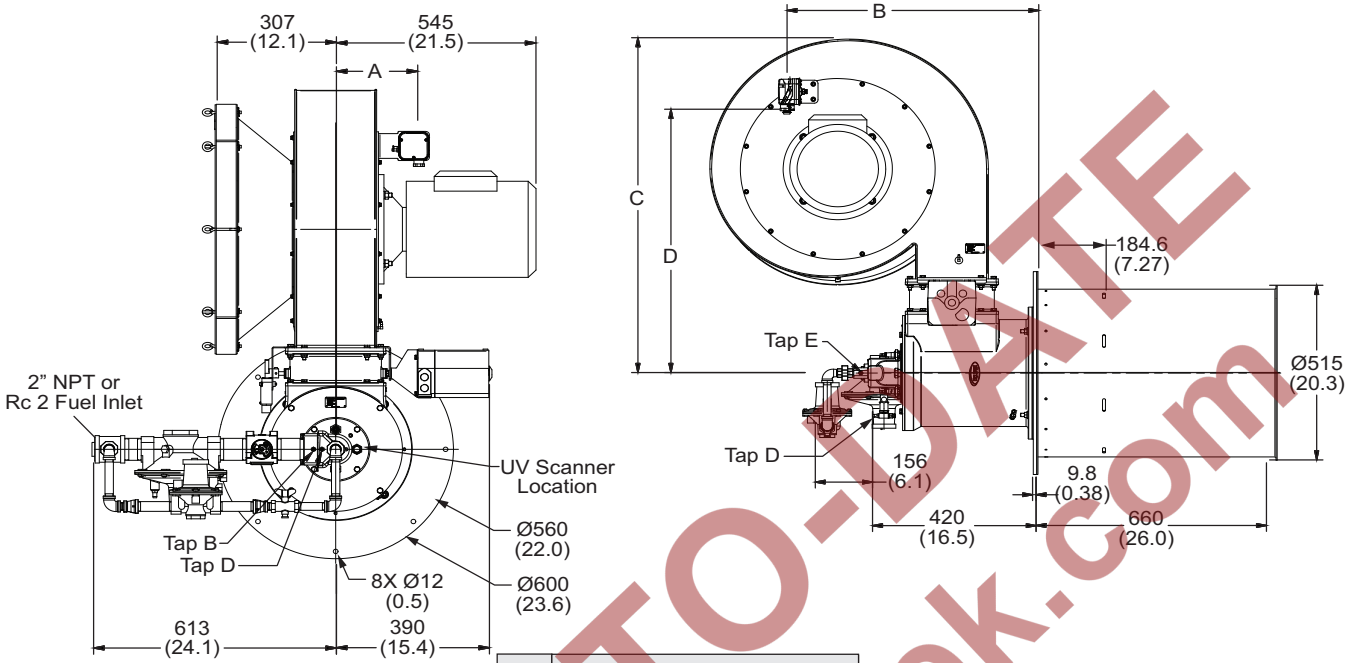
(Δp Measured Between Tap C and the Chamber with the Burner Firing)



Dimensions and Specifications

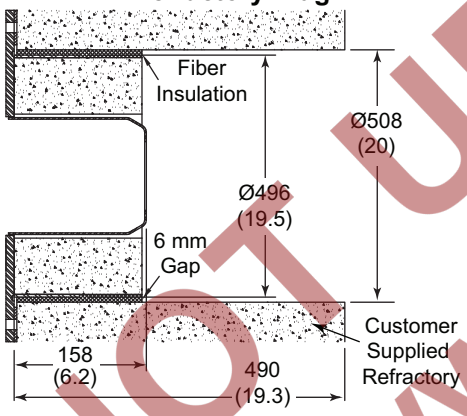
Dimensions in mm (inches)

Packaged Blower



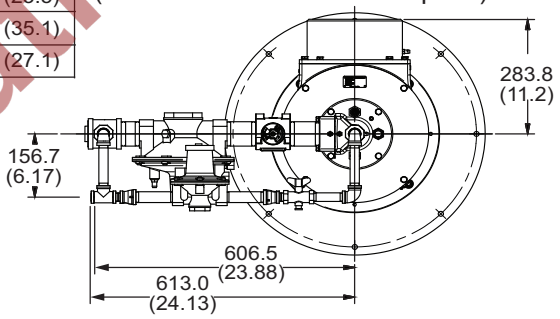
Dimensions mm (inches)	Blower Type	
	50 Hz	60 Hz
A	208 (8.2)	202 (8.0)
B	653 (25.7)	598 (23.5)
C	988 (38.9)	891 (35.1)
D	777 (30.6)	688 (27.1)

Refractory Plug

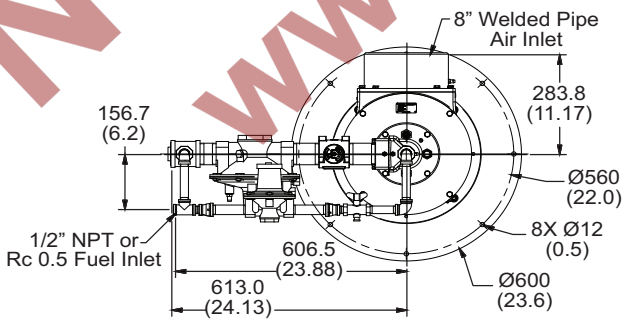


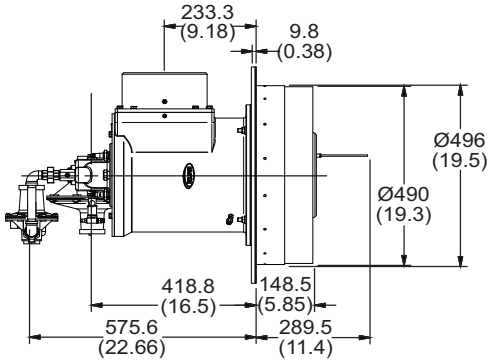
Pilot Ready Option

(Shown for remote blower option)



Remote Blower





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