Data 111-3
6/15/2017

Eclipse Winnox Burners

Model WX0500

Version 3

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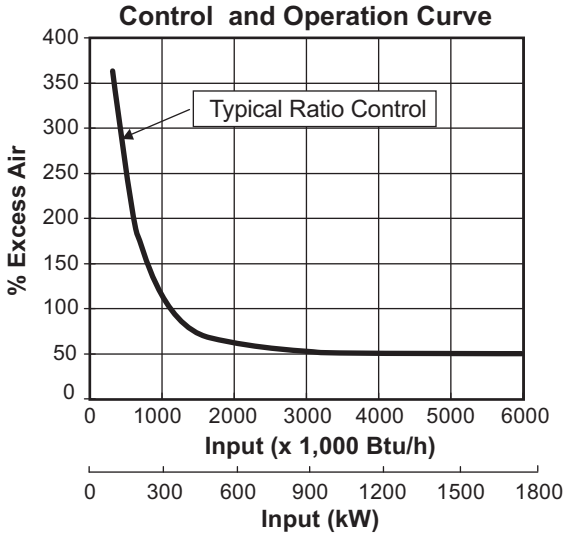
Parameter		Specifications	
Blower Type			
Maximum Input, Btu/h (kW)[1] *For chamber pressures outside the given range or for varying chamber pressure conditions, contact Eclipse, Inc.*	Chamber Pressure "w.c. (mbar)	**Packaged Blower** Nominal (50Hz and 60Hz)	**Remote Blower** Pressure at Air Inlet 1 psig (70 mbar)
	-5.0 (-12.5)	5,560,000 (1630)	6,720,000 (1970)
	-3.0 (-7.5)	5,340,000 (1560)	6,440,000 (1890)
	0.0	5,000,000 (1470)	5,990,000 (1760)
	1.0 (2.5)	4,880,000 (1430)	5,830,000 (1710)
	2.0 (5.0)	4,760,000 (1390)	5,670,000 (1660)
Minimum Input, Btu/h (kW) *For lower inputs, contact Eclipse, Inc.*		570,000 (170)	570,000 (170)
Main Gas Inlet Pressure, "w.c. (mbar)[2] *Fuel pressure at ratio regulator inlet*	Maximum	55 (138)	69 (172)
	Minimum	38 (95)	42 (103)
Maximum Chamber Temperature, °F (°C) *Maximum tube temperatures should be reduced 150°F (66°C) when using propane or butane.*		Standard combustion tube: 1300 (705) High temperature combustion tube: 1550 (845) Refractory plug: 1800 (985)[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 (229)	338 (153)
	Refractory Plug	459 (208)	292 (132)
Approvals		АИ30	

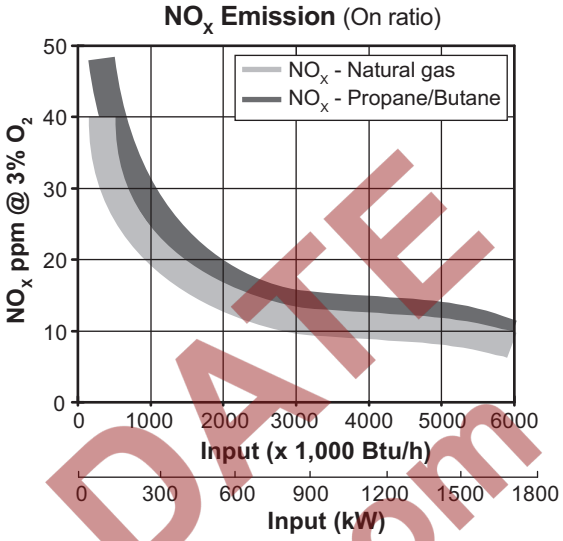
[1] Maximum inputs for packaged blower versions are given for the standard combustion air blower without an inlet air filter.
[2] For proper performance, this pressure must be kept constant across the burner operating range.
[3] See page 3 of this datasheet and Installation Guide 111 for “Refractory 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





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	2.0 (5.1)
Butane	2.0 (5.1)

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

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

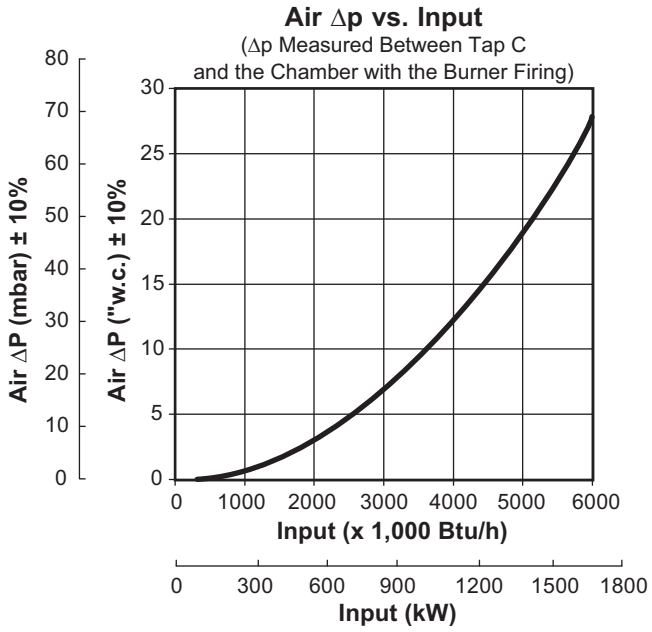
NO_x emission data is given for:

- Ambient combustion air (~70°F, 21°C)
- Less than 1000°F (540°C) firing chamber
- Minimal process air velocity
- Low fire input adjusted to 570,000 Btu/h (167 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.

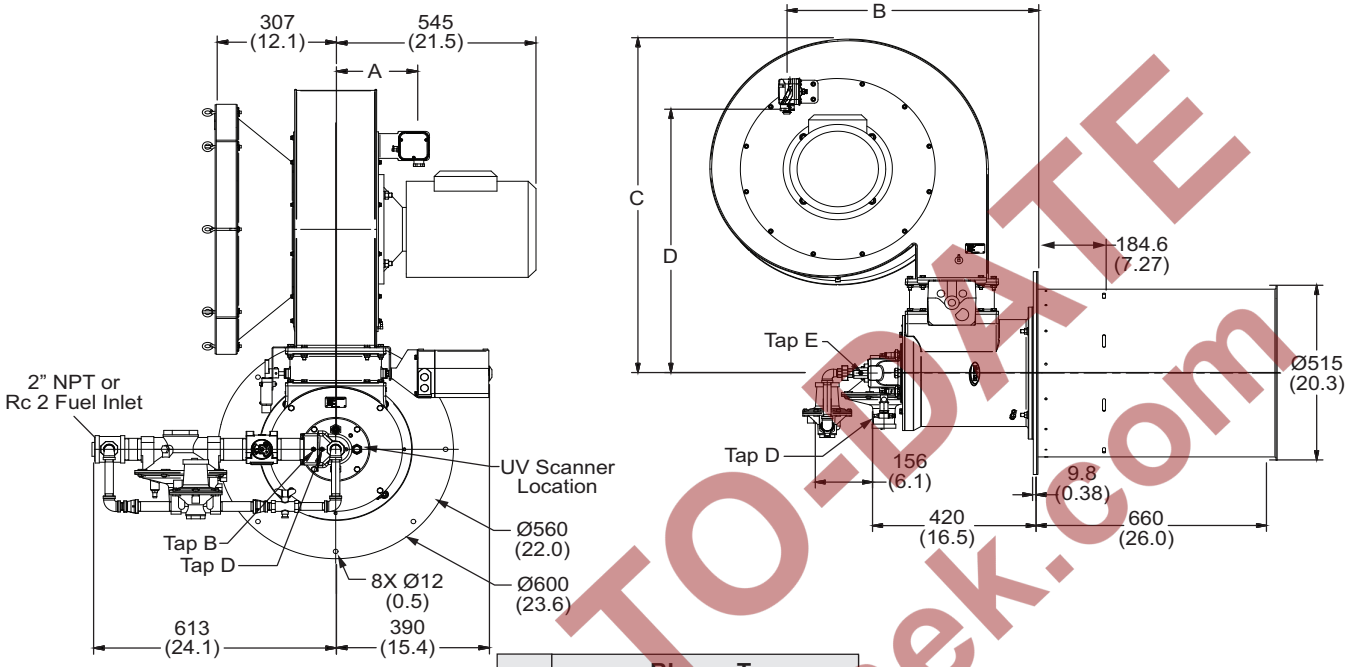


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Dimensions and Specifications

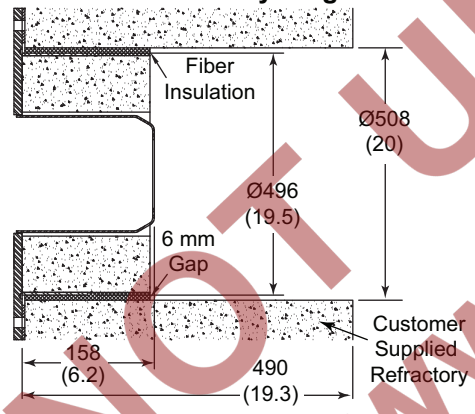
Dimensions in mm (inches)

Packaged Blower



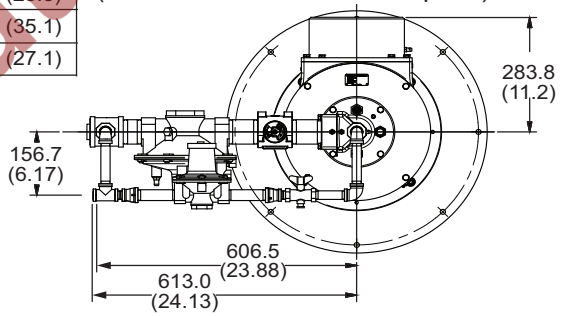
Dimensions mm (inches)	Blower Type	
	50 Hz	60 Hz
A	208 (8.2)	202 (8.0)
B	653 (25.7)	598 (23.5)
C	988 (38.9)	891 (35.1)
D	777 (30.6)	688 (27.1)

Refractory Plug

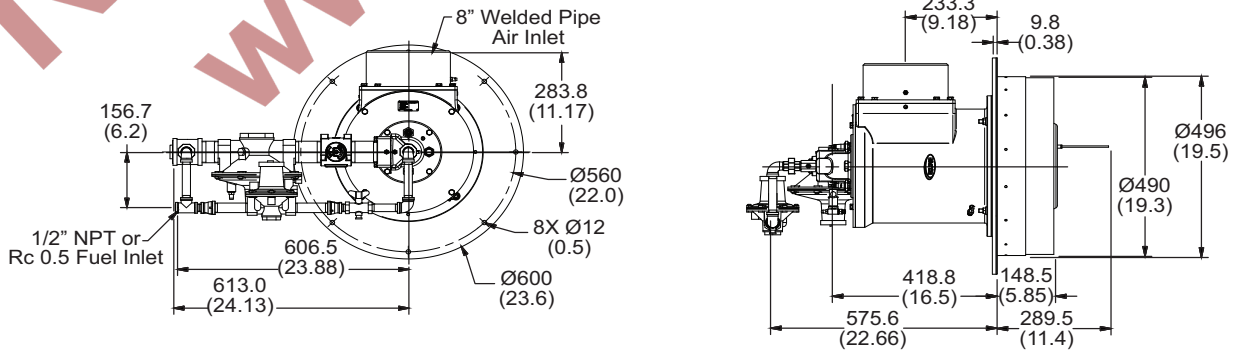


Pilot Ready Option

(Shown for remote blower option)



Remote Blower



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