Datasheet 111-6
6/15/2017

Eclipse Winnox Burners

Model WX0200

Version 3

Parameter		Specifications	
Blower Type		**Packaged Blower**	**Remote Blower**
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)	Nominal (60Hz)	Pressure at Air Inlet 1 psig (70 mbar)
	-5.0 (-12.5)	2,270,000 (667)	2,610,000 (765)
	-3.0 (-7.5)	2,170,000 (634)	2,520,000 (740)
	0.0	2,000,000 (586)	2,400,000 (703)
	1.0 (2.5)	1,940,000 (568)	2,350,000 (690)
	2.0 (5.0)	1,880,000 (551)	2,310,000 (677)
Minimum Input, Btu/h (kW) *For lower inputs, contact Eclipse, Inc.*		300,000 (90)	300,000 (90)
Main Gas Inlet Pressure, "w.c. (mbar)[2] *Fuel pressure at ratio regulator inlet*	Maximum	40 (100)	40 (100)
	Minimum	23 (58)	30 (75)
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	
Blower Motor Power, Hp		3.0	-
Weight, lbs (kg)[5]	Alloy Tube	262 (119)	180 (82)
	Refractory Plug	235 (106)	153 (70)
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.

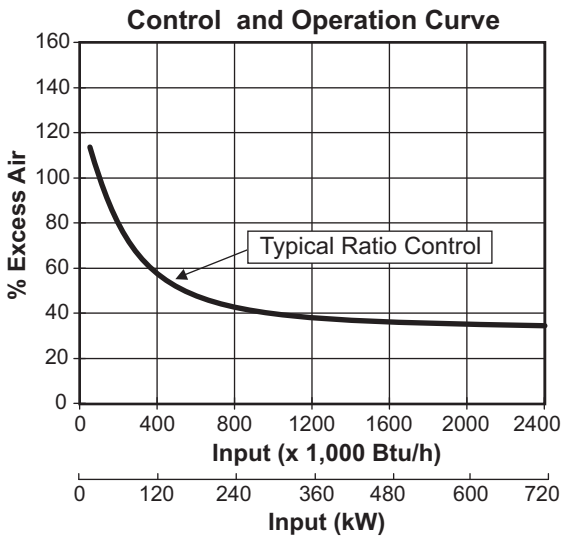
[5] All weights are approximate.

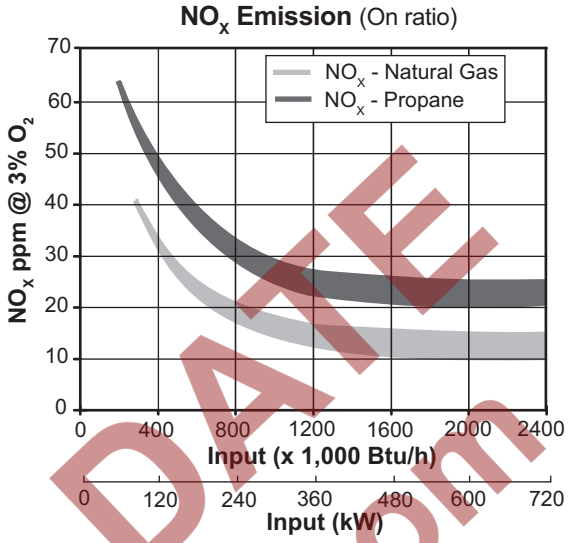
- All inputs are based on gross calorific values and standard conditions: one atmosphere, 70°F (21°C).
- All information is based on laboratory testing. Different chamber conditions will affect the data.
- Eclipse reserves the right to change the construction and/or configurations of our products at 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 6-5 FOM (Fuel Orifice Meter) assembly number 302086-5 for natural gas. See Bulletin 930 for details.

Secondary By-Pass Fuel Setting:

Fuel	ΔP "w.c. (mbar)*
Natural Gas	4.0 (10.0)

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

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

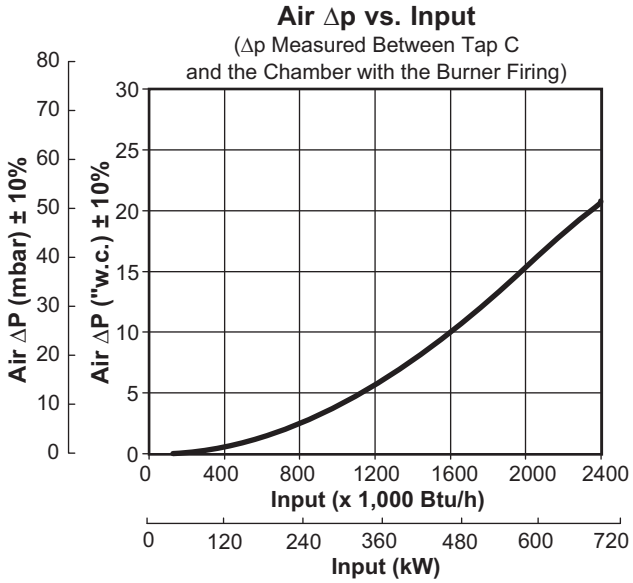
NOx Emission data is given for:

- Ambient combustion air (~70°F, 21°C)
- Less than 1000°F (540°C) firing chamber
- Minimal process air velocity
- Low fire input adjusted to 300,000 Btu/h (88 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.

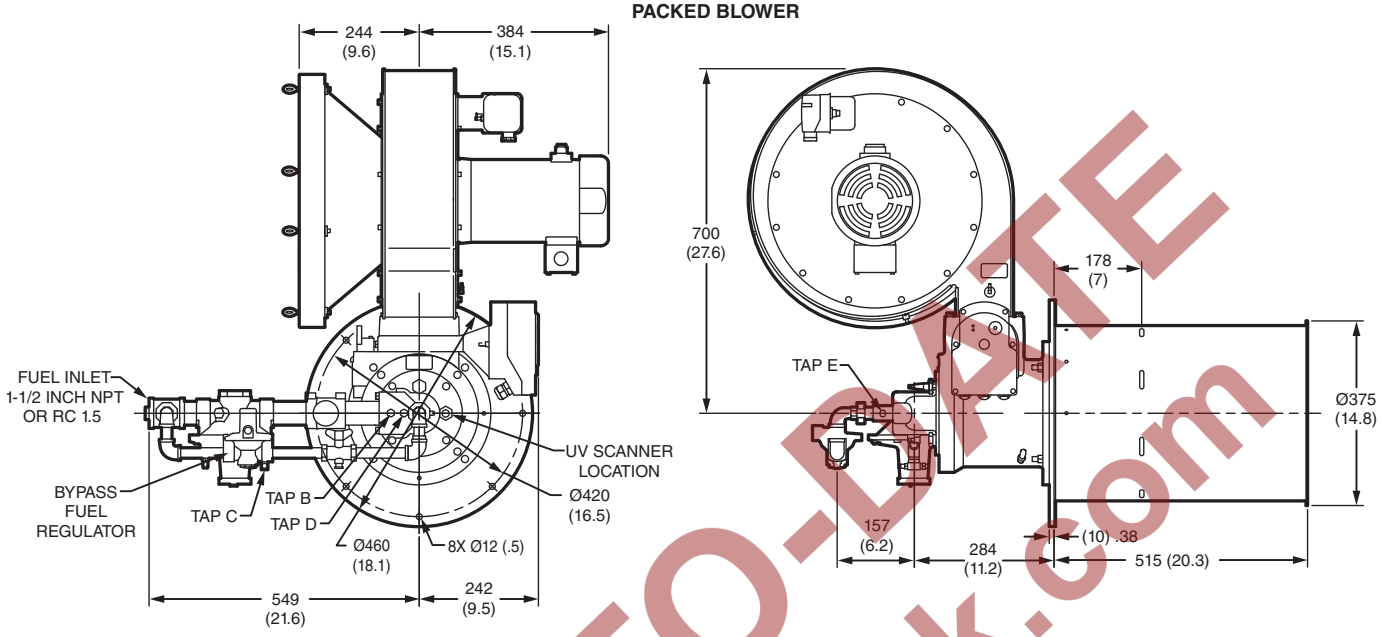


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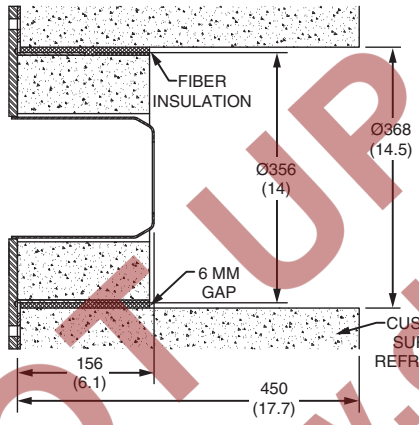
Dimensions and Specifications

Dimensions in mm (inches)

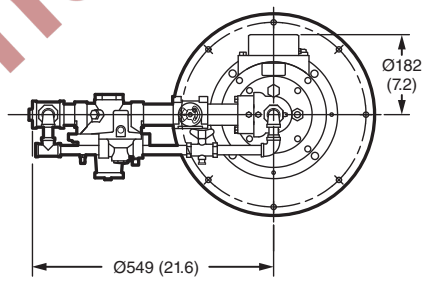
PACKED BLOWER



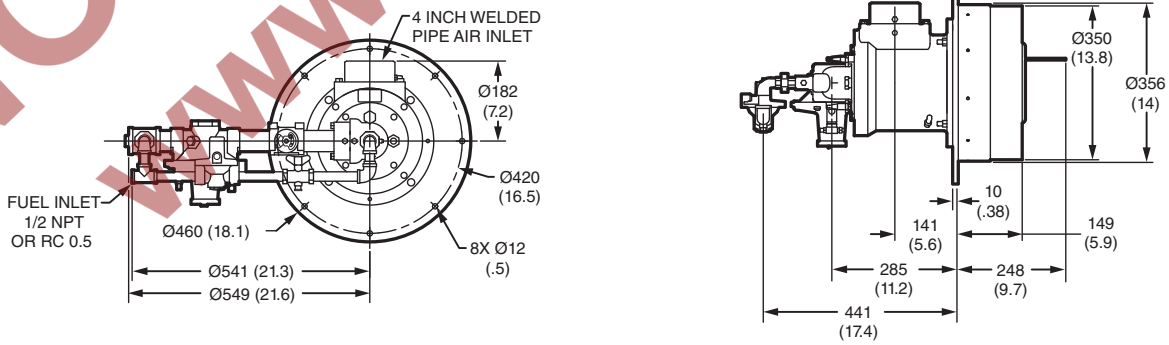
REFRACTORY PLUG



PILOT READY OPTION
(SHOWN WITH REMOTE BLOWER OPTION)



REMOTE BLOWER



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