




Winnox Burners

Model WX0400

Version 1

Main Specifications

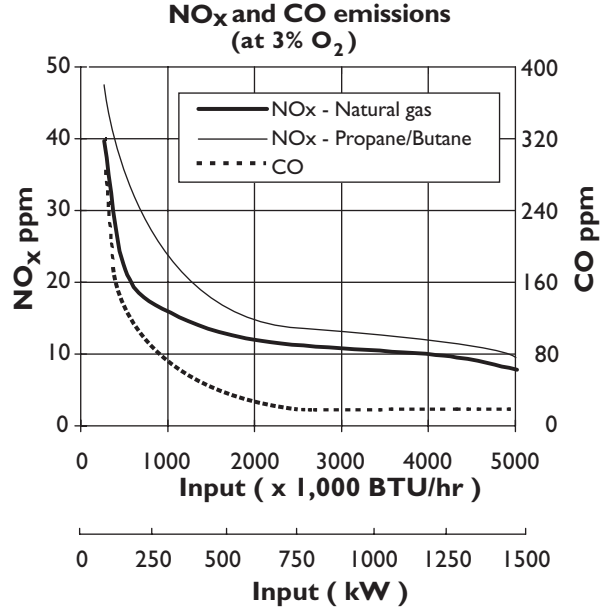
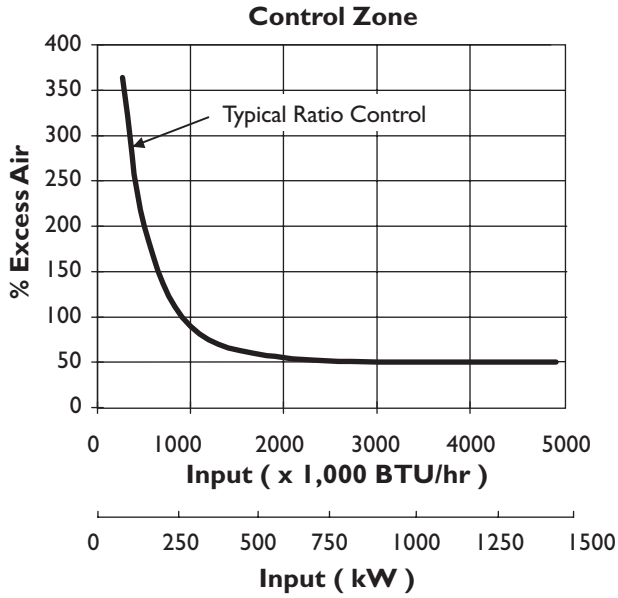
PARAMETER		SPECIFICATIONS	
Blower Type		Packaged blower	Remote blower
Maximum input, BTU/hr (kW)  Note: <i>Capacities given without air filter. Contact factory for chamber pressures outside the given range, or varying chamber pressure conditions.</i>	Chamber pressure "WC (mbar)	Nominal (50 Hz and 60 Hz)	Pressure at air inlet l psig (70 mbar)
	-5.0 (-12.5)	4,460,000 (1310)	5,520,000 (1620)
	-3.0 (-7.5)	4,290,000 (1260)	5,280,000 (1550)
	0.0	4,000,000 (1170)	4,900,000 (1430)
	1.0 (2.5)	3,910,000 (1150)	4,760,000 (1400)
	2.0 (5.0)	3,810,000 (1120)	4,620,000 (1350)
Minimum input, BTU/hr (kW)		270,000 (80)	
Fuel inlet pressure at ratio regulator, "w.c. (mbar) ¹⁾	Maximum Minimum	60.0 (150) 35.0 (87)	80.0 (200) 55.0 (137)
Maximum chamber temperature, °F (°C) <i>Note: Tube and plug temperatures should be reduced 150°F when using propane or butane.</i>		Standard combustion tube: 1300 (704) High temp. combustion tube: 1550 (843) Refractory Plug: 1800 (982)	
Flame Length	Alloy Tube	Flame is inside tube at all inputs	
Excess Air, % at high fire		50%	
Piping		N.P.T. or B.S.P. burner piping available	
Flame detection		Flame Rod or U.V. Scanner	
Fuels		Natural gas, propane, butane ²⁾ <i>For any other mixed gas, contact Eclipse Combustion</i>	
Weight, lbs (kg)	Alloy Tube Refractory Plug	347 (158) 314 (142)	224 (102) 191 (86)

1) For proper performance, this pressure must be kept constant across the burner operating range.

2) See Design Guide for more information about typical fuel composition and properties.

- All information is based on laboratory testing. Different chamber size and conditions will affect data.
- Maximum inputs for packaged blower versions are given for the standard combustion air blower without an inlet air filter.
- All inputs are based on gross calorific values and standard conditions: one atmosphere, 70° F (21° C)
- Eclipse reserves the right to change the construction and/or configuration of our products at any time without being obliged to adjust earlier supplies accordingly.

Performance Graphs WX0400



Input at low fire changes with ratio regulator adjustment.

Secondary by-pass fuel setting:

FUEL	ΔP "w.c. (mbar)*
Nat. Gas	8.0 (20.0)
Propane	8.5 (21.6)
Butane	3.5 (8.9)

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

- NO_x and CO emission data is given for:
- Ambient combustion air (~70 °F, 20 °C)
 - Less than 1000 °F (540 °C) firing chamber
 - Minimal process air velocity
 - Low fire input adjusted to 340,000 BTU/hr (100kW)
 - Neutral chamber pressure

Emissions are influenced by:

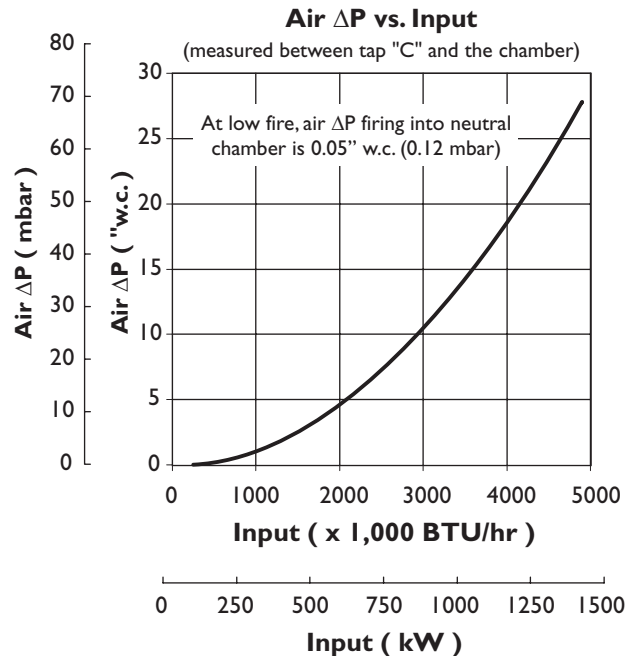
- Chamber conditions
- Fuel type
- Firing rate
- Ratio regulator adjustments
- Combustion air temperature

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

Fuel / Input Measurement

System design must include fuel flow measurement upstream of the burner. Recommended is the Eclipse 6-5 FOM (Fuel Orifice Meter) assembly number 302086-5 for natural gas. See Bulletin 930 for details

Insure burner inlet pressures are met.





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