

Eclipse RatioMatic Burners

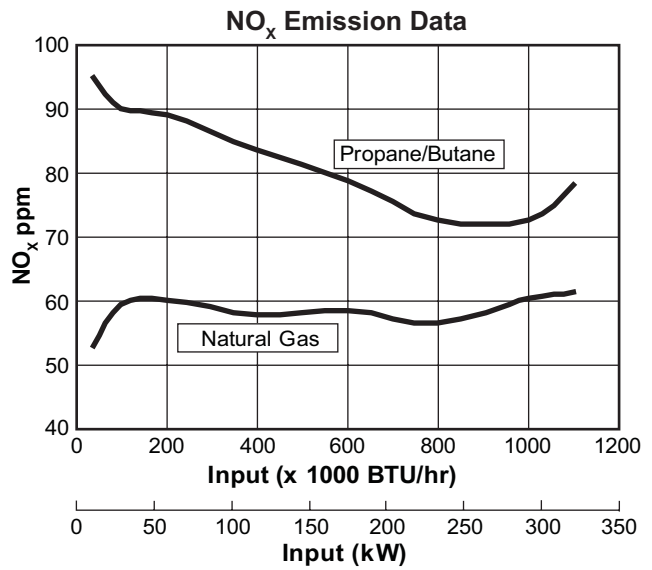
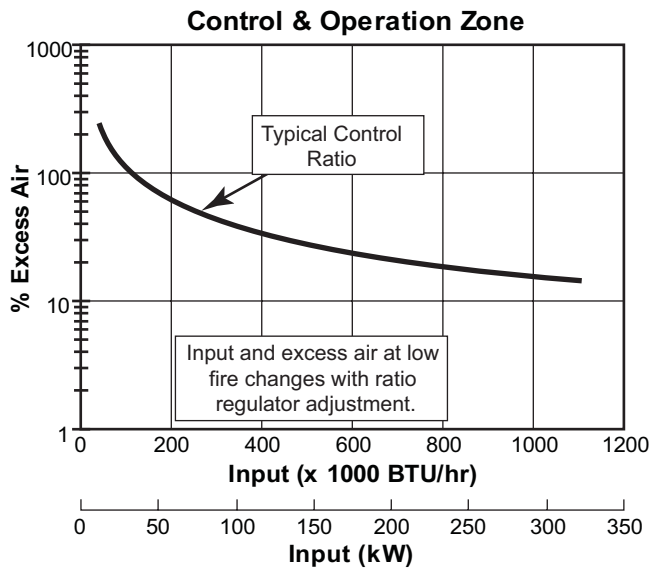
Model RM100

Version 3

Parameter	Specification		
	Frequency	BTU/hr (kW)	"w.c. (mbar)
Maximum Input, BTU/hr (kW) <i>Note: Contact factory for varying chamber pressures or pressures outside the range -2.0 to 2.0" w.c. (-5,0 to 5,0 mbar)</i>	60 Hz Packaged Burner	1,295,00 (379)	-2.0 (-5,0)
		1,210,000 (354)	-1.0 (-2,5)
		1,120,000 (328)	0.0 (0,0)
		1,020,000 (298)	1.0 (2,5)
		915,000 (268)	2.0 (5,0)
	50 Hz Packaged Blower	1,375,000 (403)	-2.0 (-5,0)
		1,295,000 (379)	-1.0 (-2,5)
		1,210,000 (354)	0.0 (0,0)
		1,120,000 (328)	1.0 (2,5)
		1,020,000 (298)	2.0 (5,0)
Minimum Input On-Ratio, BTU/hr (kW)	with high turndown ratio regulator	30,000 (9)	
	with standard ratio regulator	40,000 (12)	
Main Gas Inlet Pressure, "w.c. (mbar) • Fuel pressure at ratio regulator inlet		10 to 20 (25 to 50)	
High Fire Flame Length, inches (mm) • Measured from the outlet end of the combustor	Natural Gas	32 (813)	
	Propane / Butane	38 (965)	
Maximum Chamber Temperature, °F (°C)	Alloy Tube	1500 (820)	
	SiC Tube	1900 (1040)	
Flame Detection	Flame rod or UV scanner		
Fuel	Natural Gas, Propane, Butane (For any other mixed gas, contact Eclipse Inc.)		

- All information is based on laboratory testing. Different chamber size and conditions will affect the data.
- Maximum inputs are given for the standard combustion air blower without an air filter.
- All inputs based upon gross calorific values and standard conditions; 1 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



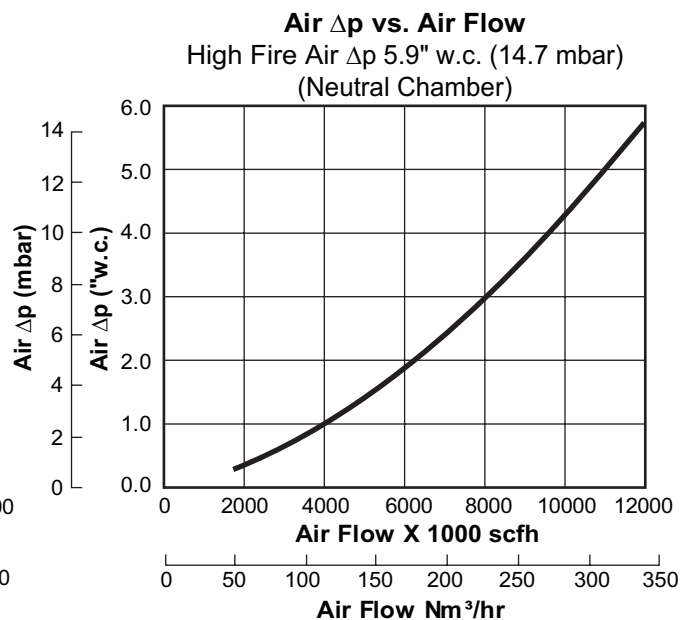
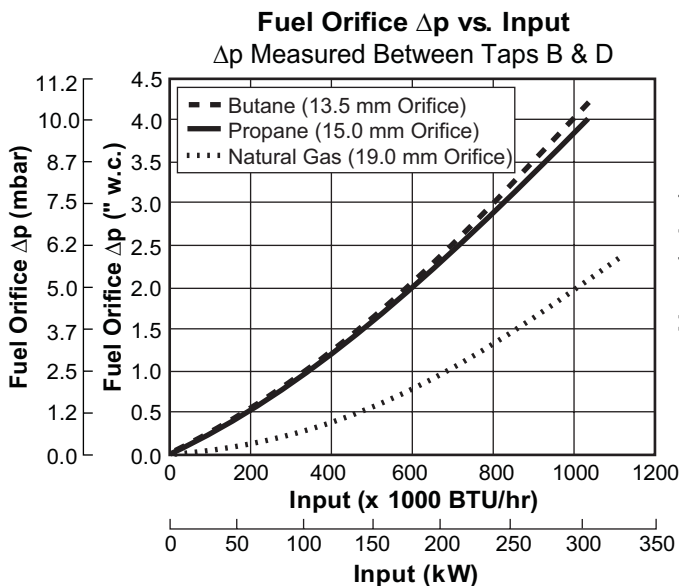
NO_x emission data is given for:

- Ambient combustion air ~70°F (20°C)
- Less than 700°F (370°C) firing chamber
- Minimal process air velocity
- Low fire input adjusted to 40,000 BTU/hr (12 kW)
- ppm volume, dry @ 3% O₂
- Neutral chamber pressure

Emissions are influenced by:

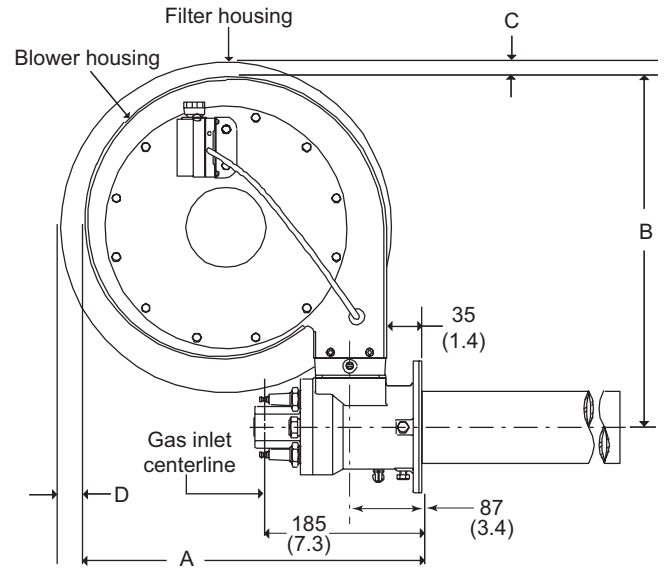
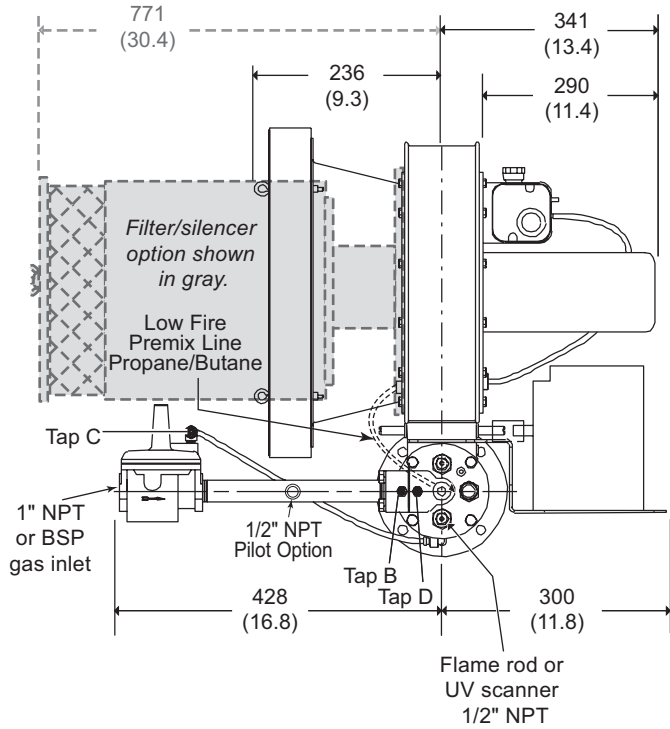
- Chamber conditions
- Fuel type
- Firing rate
- Ratio regulator adjustment
- Combustion air temperature

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

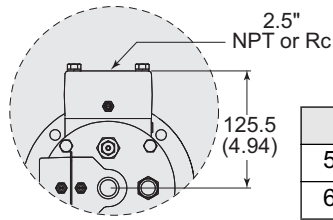


Dimensions & Specifications

Dimensions in Inches (mm)



Weights	lbs	kg
Packaged Burner	75	35
Filter Silencer	41	19

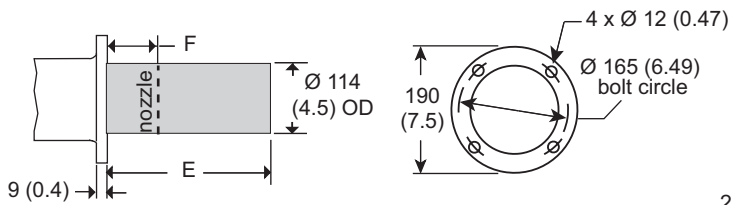


Less Blower Option

	A	B	C	D
50 Hz	485 (19.1)	530 (20.9)	N/A	N/A
60 Hz	425 (16.7)	475 (18.7)	10 (0.4)	23 (0.9)

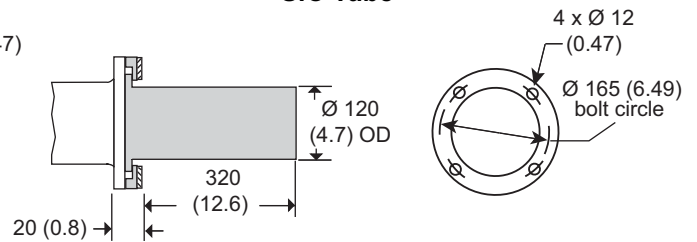
Combustor Types

Alloy Tube

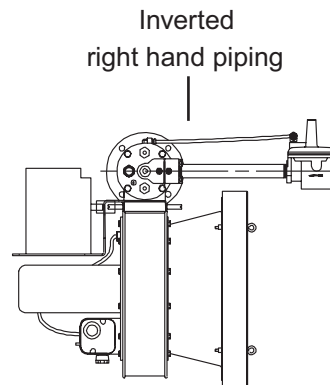
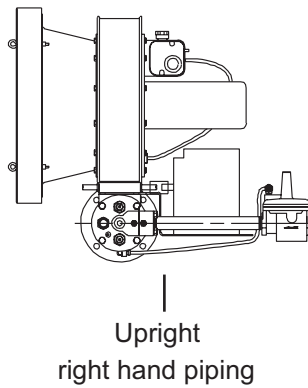
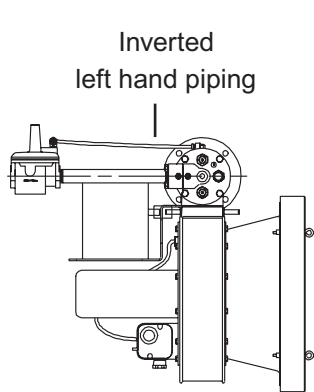
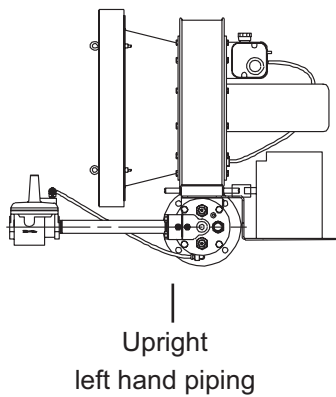


E	F
255 (10.0)	84 (3.3)
330 (13.0)	160 (6.3)
406 (16.0)	236 (9.3)

SiC Tube



Burner Configuration





Offered By:

Power Equipment Company
2011 Williamsburg Road
Richmond, Virginia 23231
Phone (804) 236-3800
Fax (804) 236-3882

www.peconet.com