

Eclipse RatioMatic

Burners

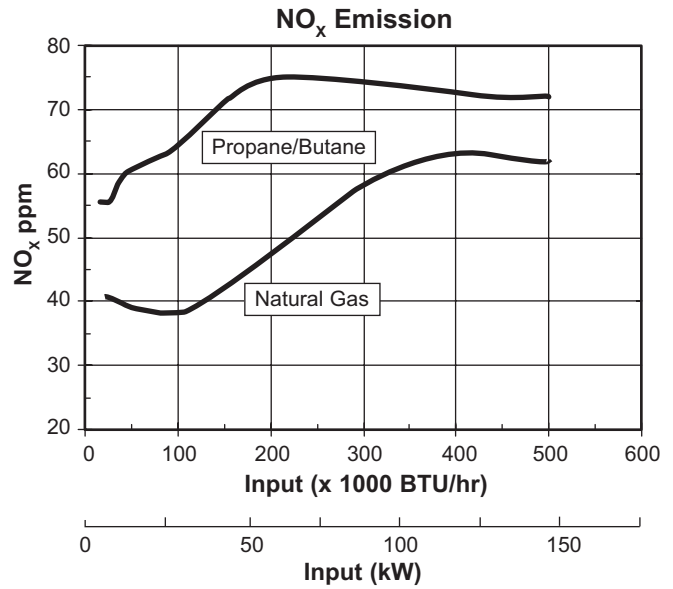
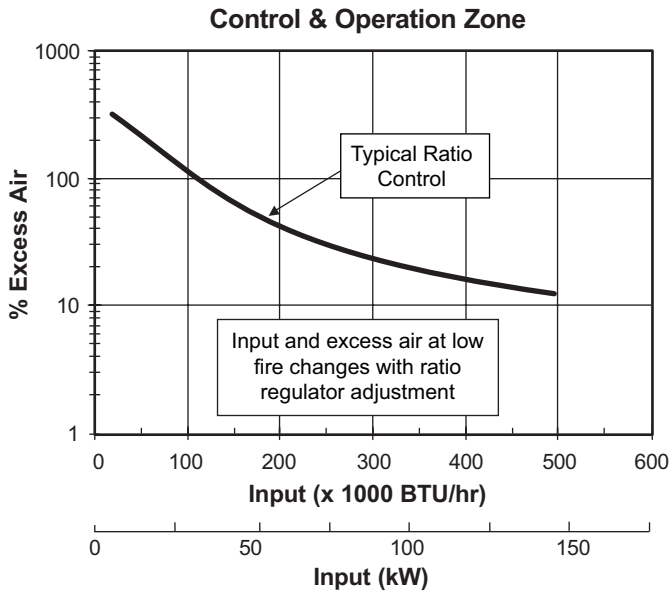
Model RM 050

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 -5.0 to 2.0" w.c. (-12,4 to 5,0 mbar)</i>	60 Hz Packaged Burner	650,000 (190)	-5.0 (-12,4)
		600,000 (175)	-3.0 (-7,5)
		500,000 (150)	0 (0,0)
		460,000 (135)	1.0 (2,5)
		420,000 (125)	2.0 (5,0)
	50 Hz Packaged Blower	660,000 (195)	-5.0 (-12,4)
		610,000 (180)	-3.0 (-7,5)
		520,000 (150)	0 (0,0)
		490,000 (145)	1.0 (2,5)
		450,000 (130)	2.0 (5,0)
Minimum Input On-Ratio, BTU/hr (kW)	with high turndown ratio regulator	20,000 (6)	
	with standard ratio regulator	30,000 (9)	
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	24 (600)		
Maximum Chamber Temperature, °F (°C)	Alloy Tube	1500 (815)	
	SiC Tube	1900 (1038)	
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



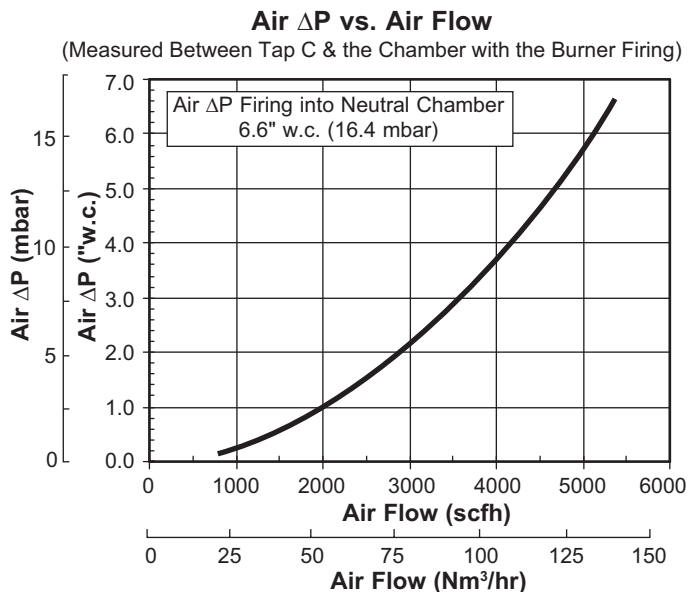
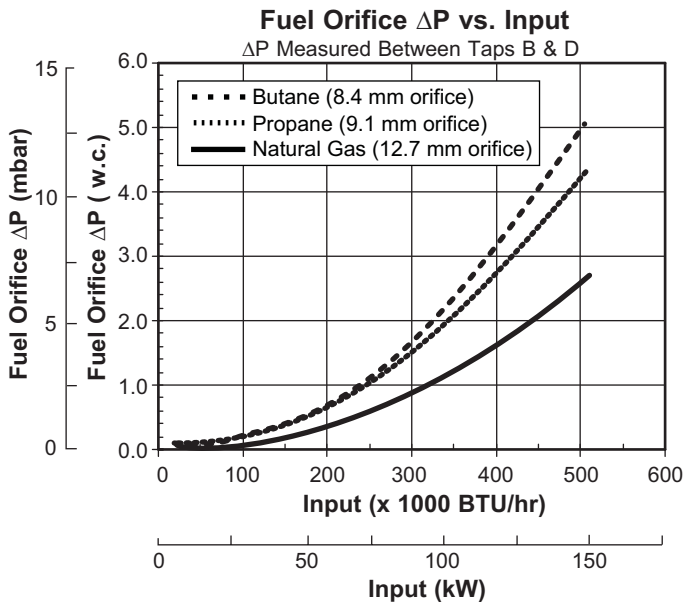
NO_x emission data is given for:

- Ambient combustion air ~70°F (20°C)
- Less than 700°F (370°C) firing chamber
- Minimal process air velocity
- Low fire input adjusted to 20,000 BTU/hr (6 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

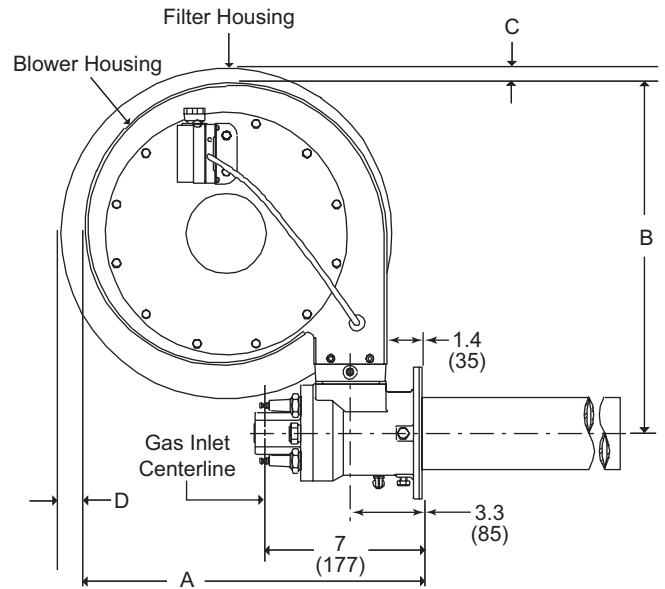
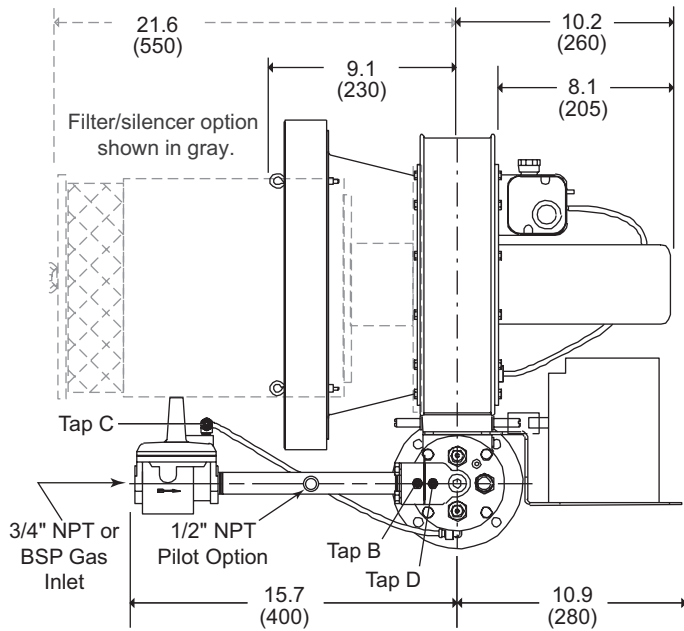
CO emission is largely influenced by chamber conditions. Contact your local Eclipse representative for an estimate of CO emission on your application.



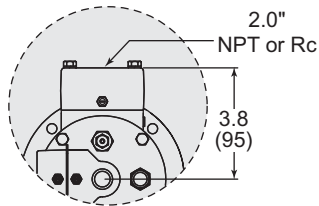
Dimensions & Specifications

Dimensions in Inches (mm)

Burner Body



Weights	lbs	kg
Packaged Burner	58	27
Filter Silencer	21	10

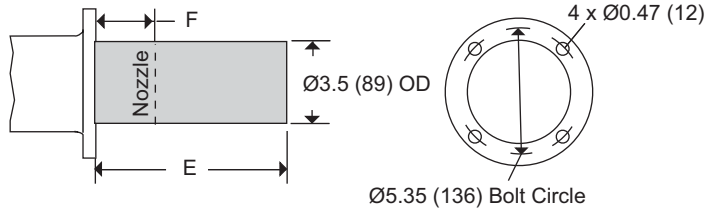


Less Blower Option

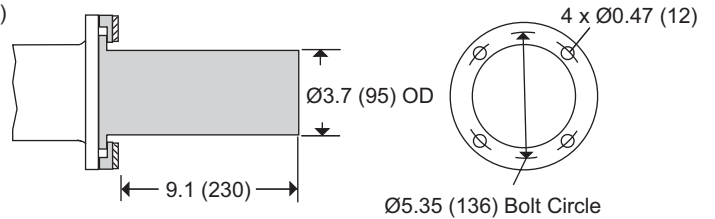
	A	B	C	D
50 Hz	18.5 (470)	19.7 (500)	N/A	N/A
60 Hz	16.1 (410)	16.9 (430)	0.8 (20)	1.2 (30)

Combustor Types

Alloy Tube

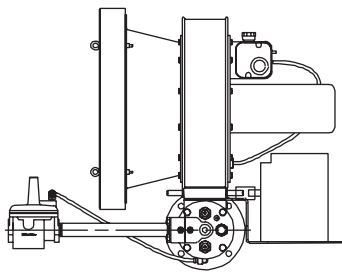


SiC Tube

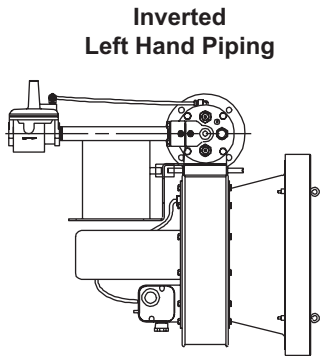


E	F
9.4 (240)	3.1 (80)
12.4 (314)	5.9 (150)
15.5 (394)	9.3 (235)

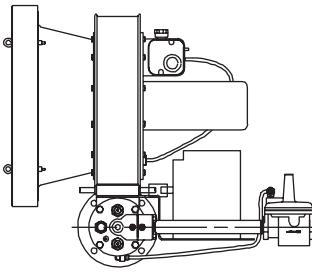
Burner Configuration



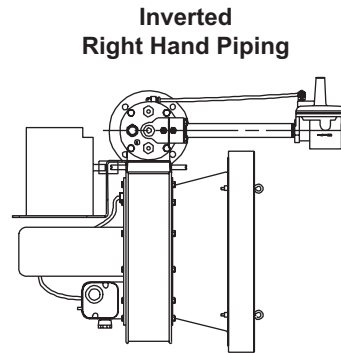
**Upright
Left Hand Piping**



**Inverted
Left Hand Piping**



**Upright
Right Hand Piping**



**Inverted
Right Hand Piping**



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