

Eclipse RatioMatic

Burners

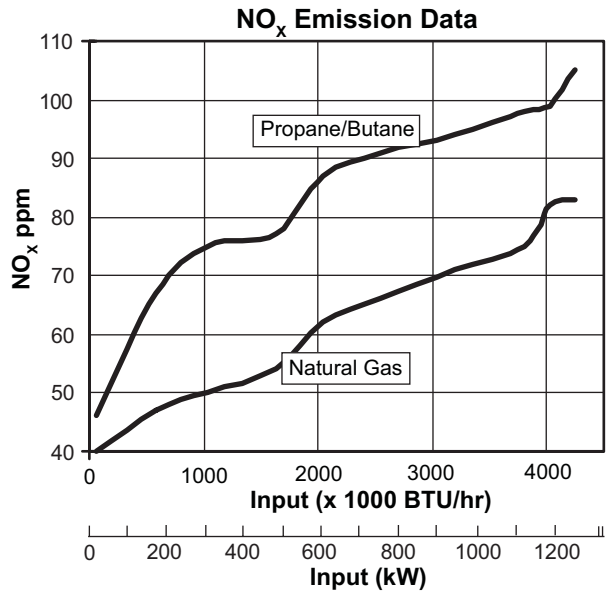
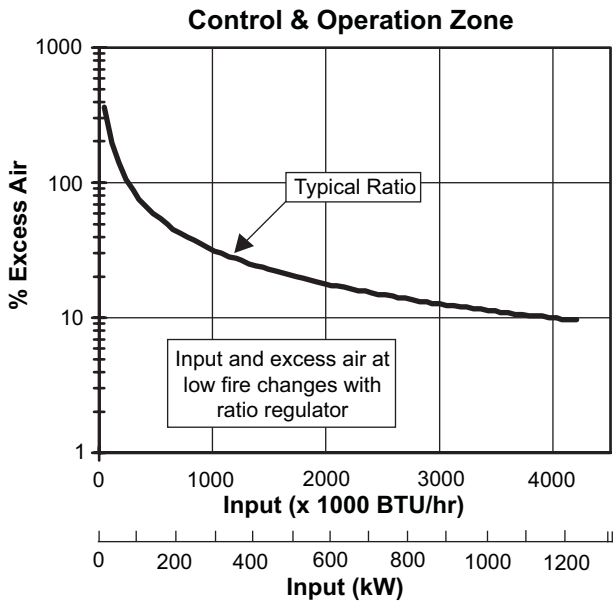
Model RM400

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 -4.0 to 5.0" w.c. (-10,0 to 12,4 mbar)</i>	60 Hz Packaged Burner	4,600,000 (1360)	-4.0 (-10,0)
		4,380,000 (1280)	-2.0 (-5,0)
		4,100,000 (1200)	0.0 (0,0)
		3,800,000 (1110)	2.0 (5,0)
		3,230,000 (940)	5.0 (12,4)
	50 Hz Packaged Blower	4,500,000 (1310)	-4.0 (-10,0)
		4,280,000 (1250)	-2.0 (-5,0)
		4,000,000 (1170)	0.0 (0,0)
		3,700,000 (1080)	2.0 (5,0)
		3,130,000 (910)	5.0 (12,4)
Minimum Input On-Ratio, BTU/hr (kW)		65,000 (19)	
Main Gas Inlet Pressure, "w.c. (mbar) • Fuel pressure at ratio regulator inlet	Natural Gas	20 to 55 (50 to 140)	
	Propane/Butane	20 to 35 (50 to 90)	
High Fire Flame Length, inches (mm) • Measured from the outlet end of the combustor	Natural Gas	65 (1650)	
	Propane/Butane	70 (1800)	
Maximum Chamber Temperature, °F (°C)	Alloy Tube	1500 (815)	
	SiC Tube	1900 (1040)	
Flame Detection	Alloy Tube	Flame rod or UV scanner	
	SiC Tube	UV scanner only	
Fuel	Natural Gas, Propane, Butane (For any other mixed gas, contact Eclipse Inc.)		

- All information based on laboratory testing in neutral (0.0" w.c.) pressure chamber. Different chamber sizes and conditions may 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



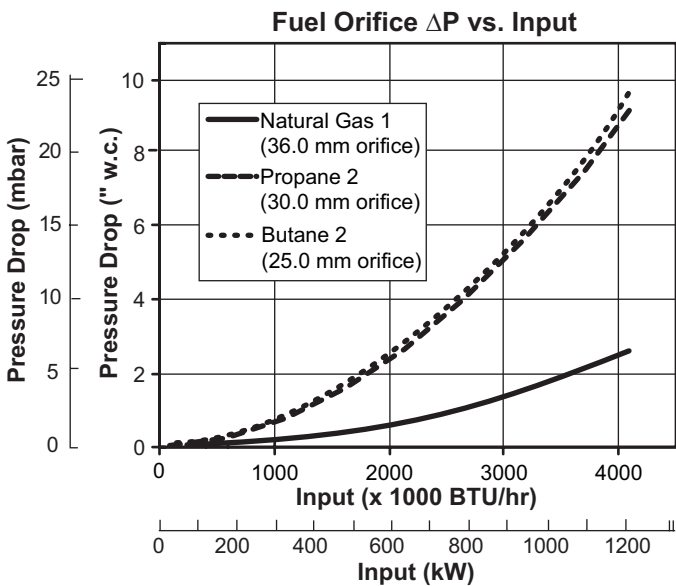
NO_x emission data is given for:

- Ambient combustion air ~70°F (20°C)
- Less than 1000°F (540°C) firing chamber
- Minimal process air velocity
- Low fire input adjusted to 65,000 BTU/hr (19 kW)
- ppm volume, dry @ 3% O₂
- Neutral chamber pressure

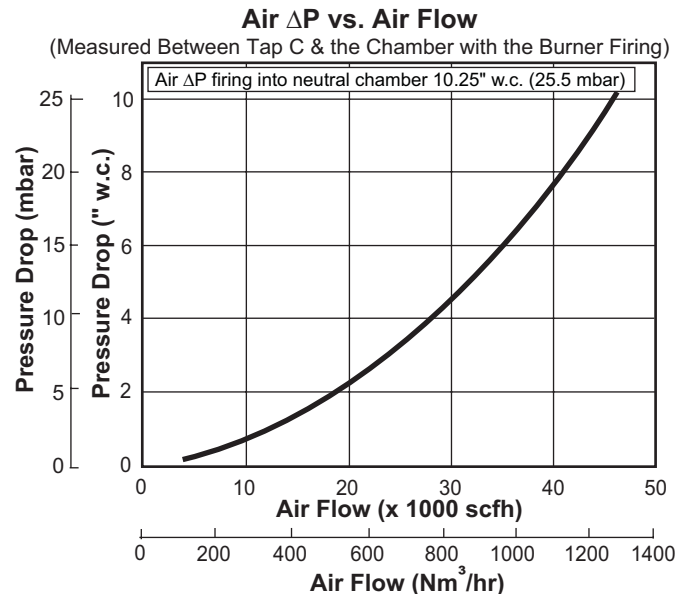
Emissions are influenced by:

- 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.

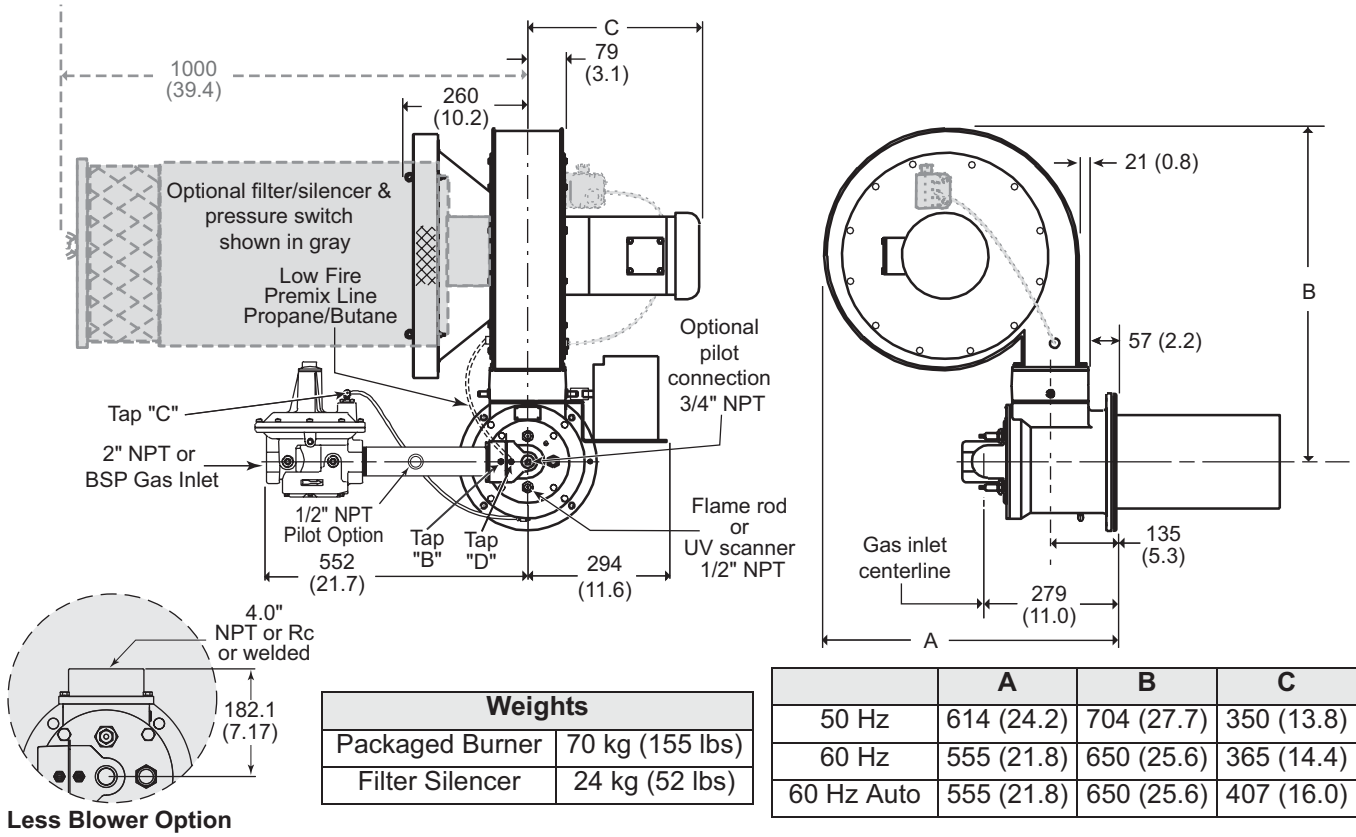


- 1 Natural gas ΔP measured between taps B & D
- 2 Propane or Butane ΔP measured between tap B & chamber



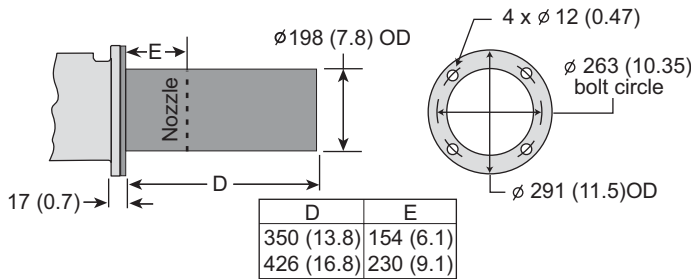
Dimensions & Specifications

Dimensions in Inches (mm)

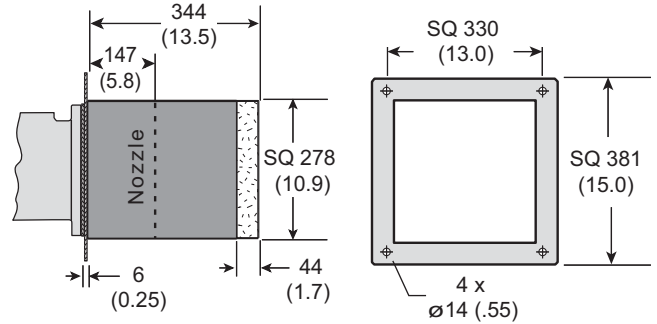


Combustor Type

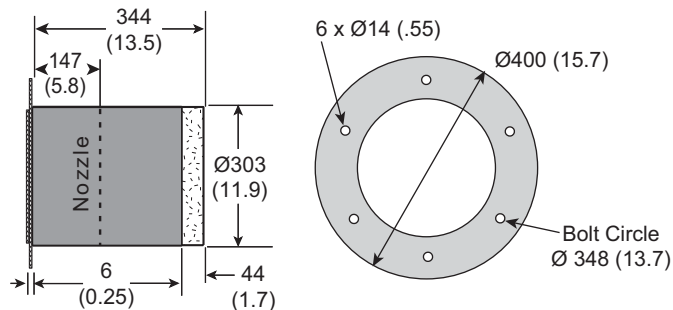
Alloy Tube



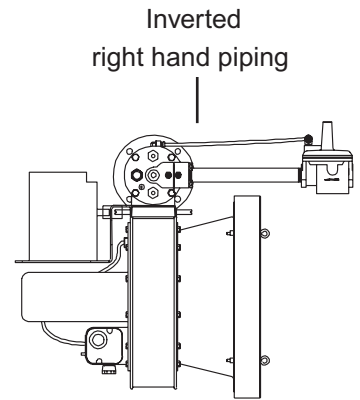
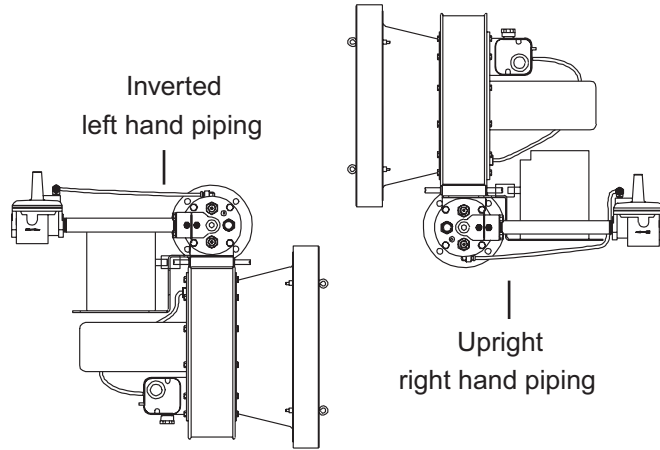
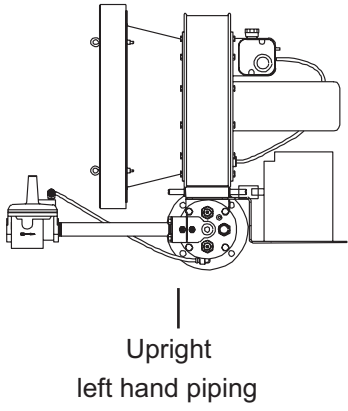
Square Block & Holder



Round Block & Holder



Burner Configuration





Offered By:

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