

# Eclipse RatioMatic

## Burners

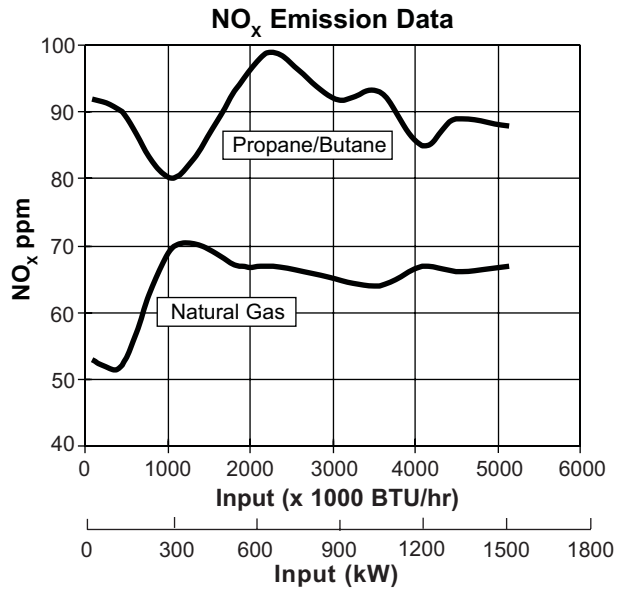
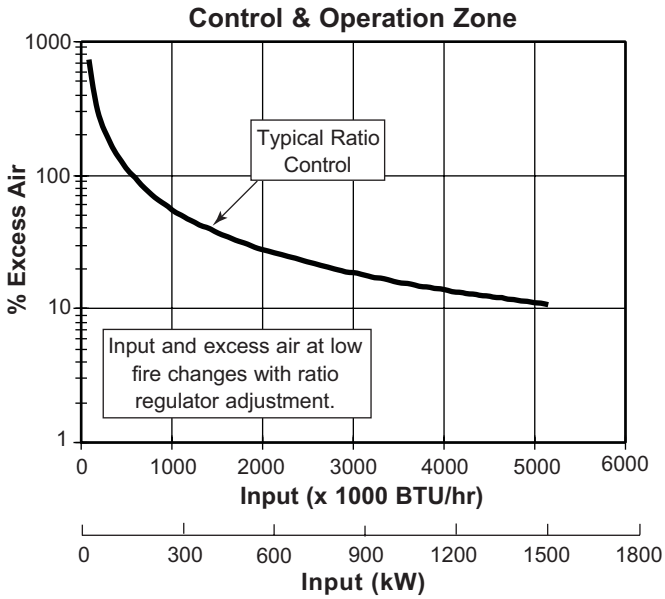
Model RM500

Version 3

Parameter	Specification		
	Frequency	BTU/hr (kW)	"w.c. (mbar)
<b>Maximum Input, BTU/hr (kW)</b>  <i>Note: Contact factory for varying chamber pressures or pressures outside the range -5.0 to 5.0" w.c. (-12,4 to 12,4 mbar)</i>	60 Hz Packaged Burner	5,780,000 (1690)	-5.0 (-12,4)
		5,380,000 (1580)	-2.0 (-5,0)
		5,100,000 (1490)	0.0 (0,0)
		4,800,000 (1410)	2.0 (5,0)
		4,310,000 (1260)	5.0 (12,4)
	50 Hz Packaged Blower	5,700,000 (1670)	-5.0 (-12,4)
		5,300,000 (1550)	-2.0 (-5,0)
		5,010,000 (1470)	0.0 (0,0)
		4,710,000 (1380)	2.0 (5,0)
		4,210,000 (1230)	5.0 (12,4)
<b>Minimum Input On-Ratio, BTU/hr (kW)</b>		75,000 (22)	
<b>Main Gas Inlet Pressure, psig (mbar)</b> • Fuel pressure at ratio regulator inlet	Natural Gas	1.0 to 2.0 (70 to 140)	
	Propane/Butane	1.0 to 1.5 (70 to 105)	
<b>High Fire Flame Length, inches (mm)</b> • Measured from the outlet end of the combustor	Natural Gas	56 (1430)	
	Propane/Butane	64 (1630)	
<b>Maximum Chamber Temperature, °F (°C)</b>	Alloy Tube	1500 (815)	
	Block & Holder	1900 (1040)	
<b>Flame Detection</b>	Alloy Tube	Flame rod or UV scanner	
	Block & Holder	UV scanner only	
<b>Fuel</b>	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



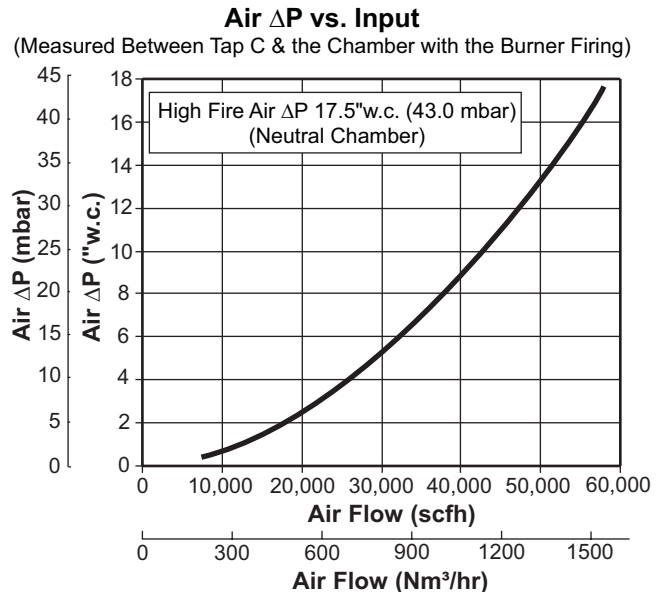
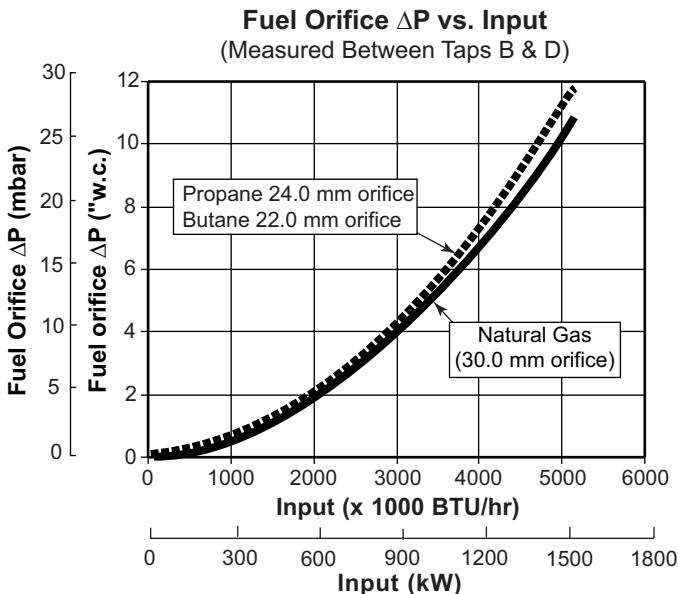
NO<sub>x</sub> emission data is given for:

- Ambient combustion air ~70°F (20°C)
- Less than 1000°F (540°C) firing chamber
- Minimal process air velocity
- Low fire input adjusted to 75,000 BTU/hr (22 kW)
- ppm volume, dry @ 3% O<sub>2</sub>
- Neutral chamber pressure

Emissions are influenced by:

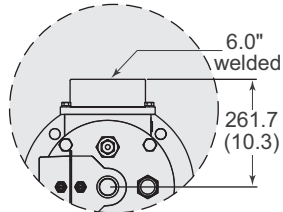
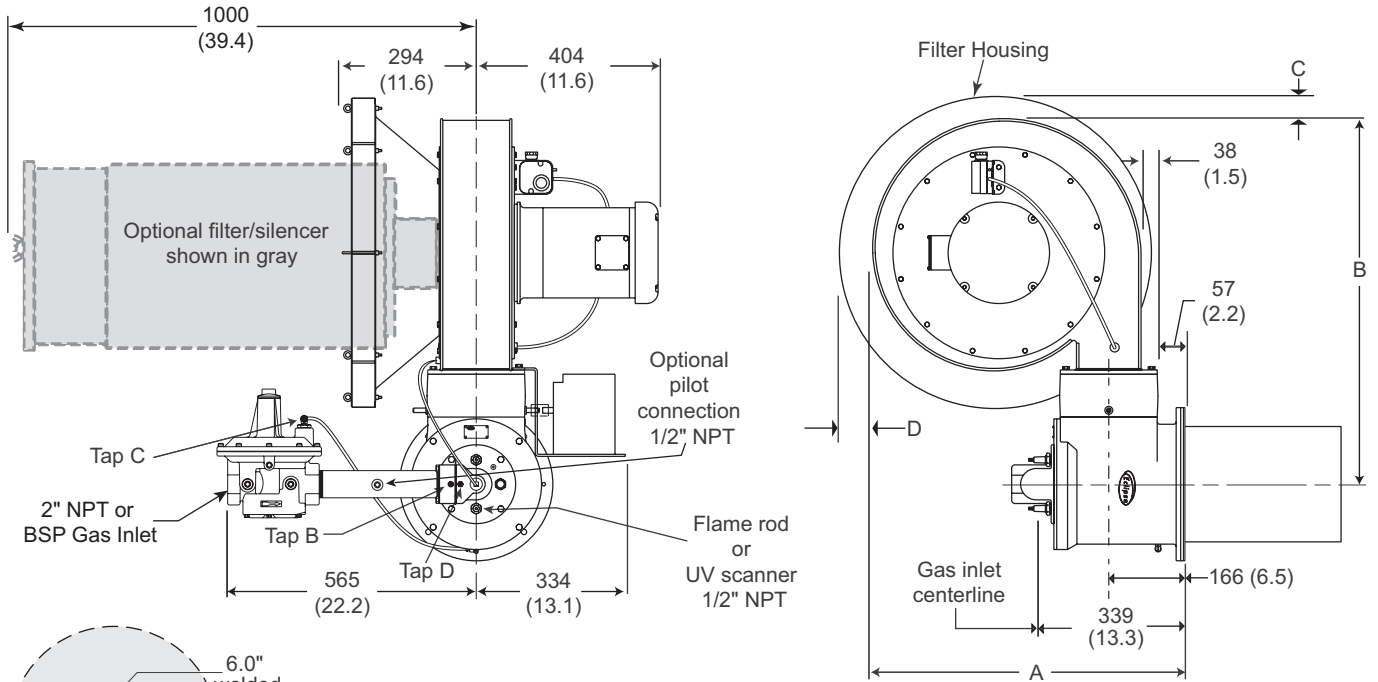
- Chamber conditions
- Fuel type
- Firing rate
- Ratio regulator adjustment
- Combustion air temperature

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)



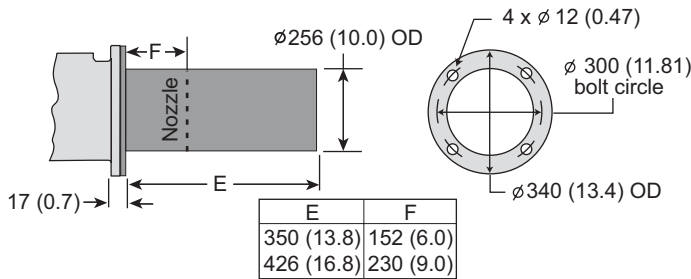
Less Blower Option

Weights	
Packaged Burner	109 kg (240 lbs)
Filter Silencer	24 kg (52 lbs)

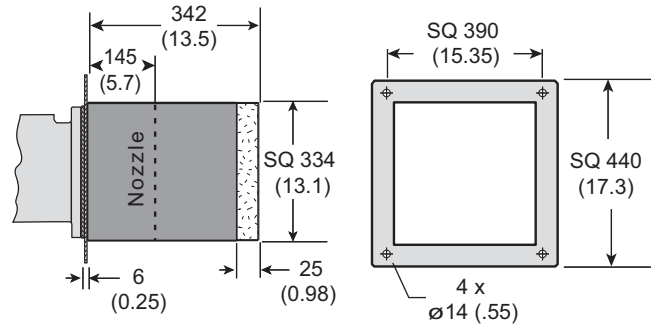
	A	B	C	D
50 Hz	698 (27.5)	893 (35.2)	12.5 (0.5)	28.5 (1.1)
60 Hz	670 (26.4)	811 (31.9)	44.5 (1.75)	61.5 (2.4)

### Combustor Type

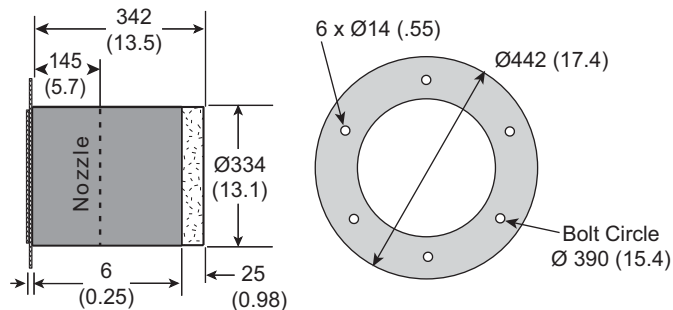
#### Alloy Tube



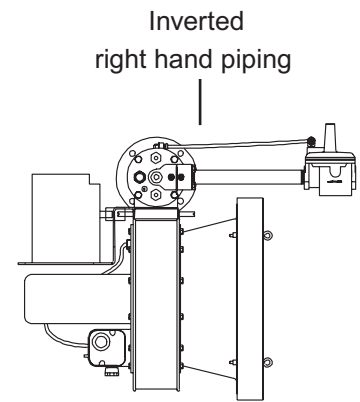
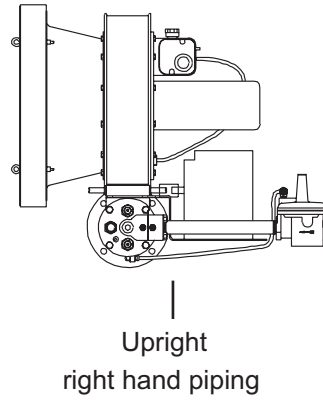
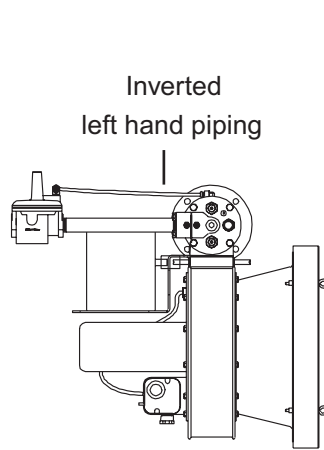
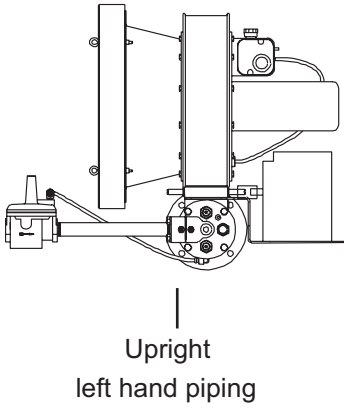
#### Square Block & Holder



#### Round Block & Holder



## Burner Configuration





**Offered By:**

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

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[www.peconet.com](http://www.peconet.com)