

# Eclipse RatioMatic

## Burners

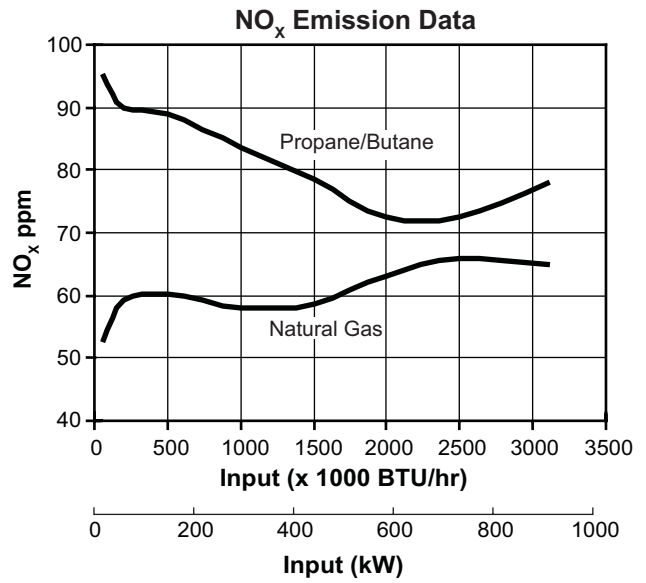
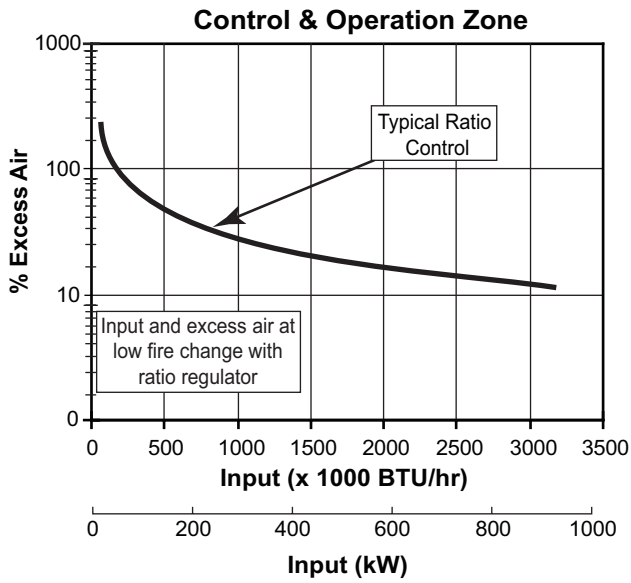
Model RM 300

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	3,550,000 (1040)	-5.0 (-12,4)
		3,220,000 (940)	-2.0 (-5,0)
		3,000,000 (880)	0 (0,0)
		2,740,000 (800)	2.0 (5,0)
		2,300,000 (670)	5.0 (12,4)
	50 Hz Packaged Blower	3,500,000 (1020)	-5.0 (-12,4)
		3,170,000 (920)	-2.0 (-5,0)
		2,950,000 (860)	0 (0,0)
		2,690,000 (780)	2.0 (5,0)
		2,250,000 (650)	5.0 (12,4)
<b>Minimum Input On-Ratio, BTU/hr (kW)</b>		65,000 (19)	
<b>Main Gas Inlet Pressure, "w.c. (mbar)</b> • Fuel pressure at ratio regulator inlet	Natural Gas	20 to 55 (50 to 140)	
	Propane/Butane	20 to 35 (50 to 90)	
<b>High Fire Flame Length, inches (mm)</b> • Measured from the outlet end of the combustor	Natural Gas	60 (1500)	
	Propane/Butane	65 (1650)	
<b>Maximum Chamber Temperature, °F (°C)</b>	Alloy Tube	1500 (815)	
	SiC Tube	1900 (1040)	
<b>Flame Detection</b>	Alloy Tube	Flame rod or UV scanner	
	SiC Tube	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 (20°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



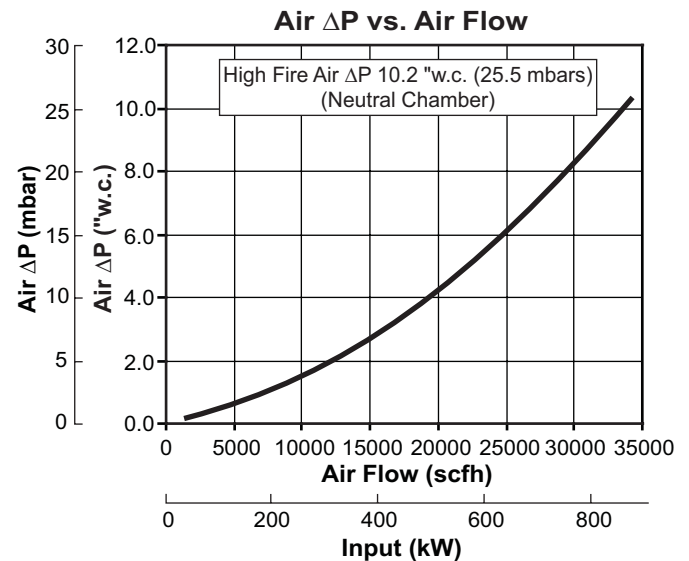
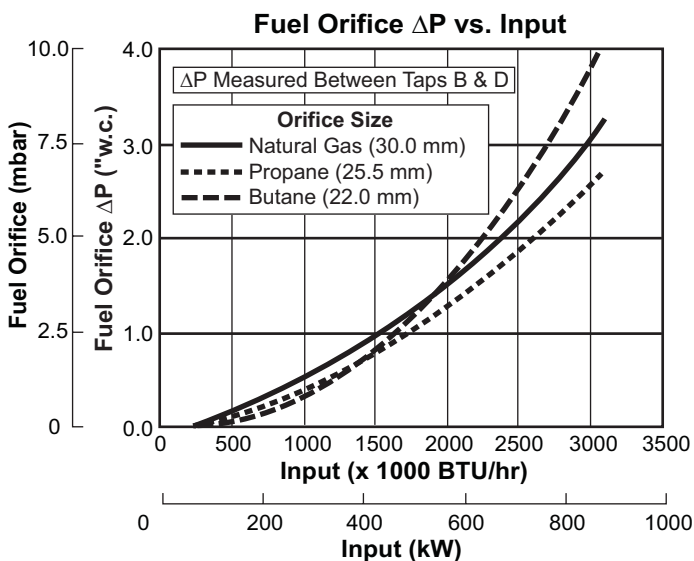
NO<sub>x</sub> emission data is given for:

- Ambient combustion air ~70°F (20°C)
- Less than 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% O<sub>2</sub>
- Neutral chamber pressure

Emissions are influenced by:

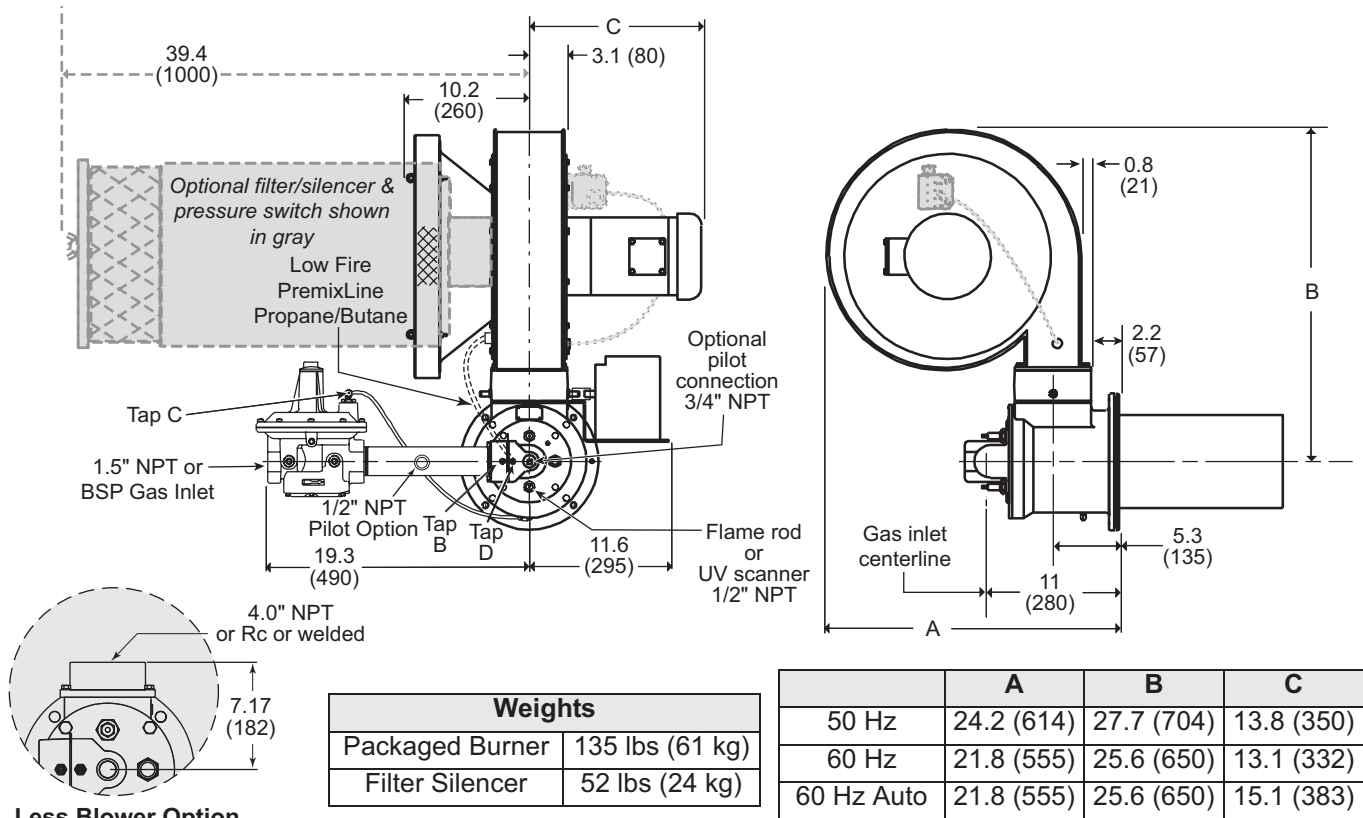
- Chamber conditions
- Fuel type
- Firing rate
- Ratio regulator adjustment
- Combustion air temperature

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



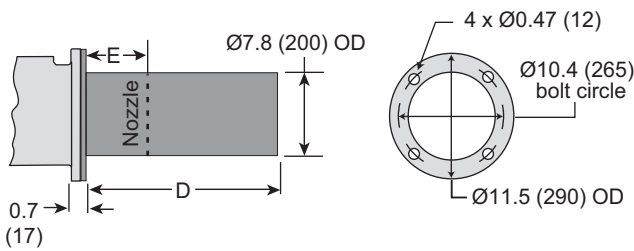
## Dimensions & Specifications

Dimensions in Inches (mm)



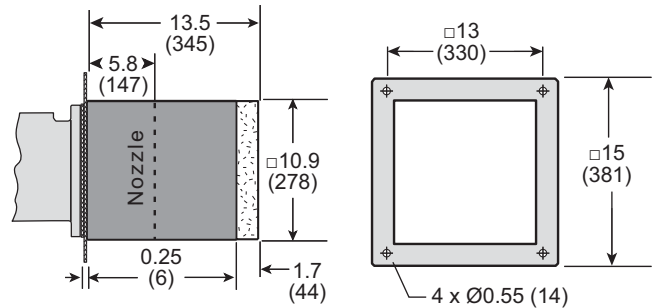
## Combustor Type

### Alloy Tube

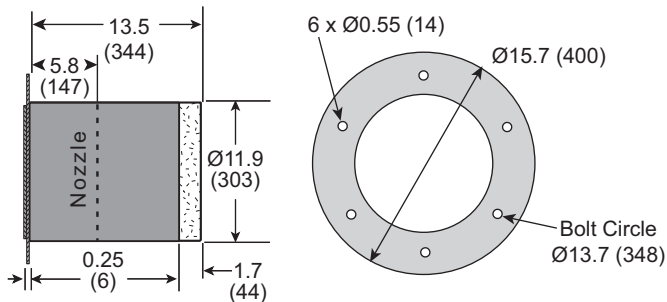


D	E
13.8 (350)	6.1 (154)
16.8 (426)	9.1 (230)

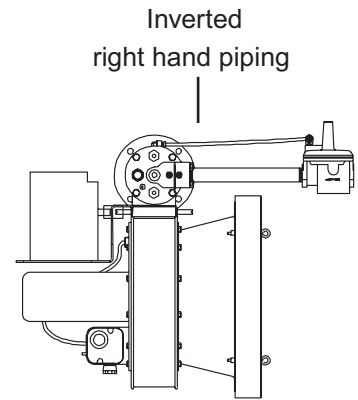
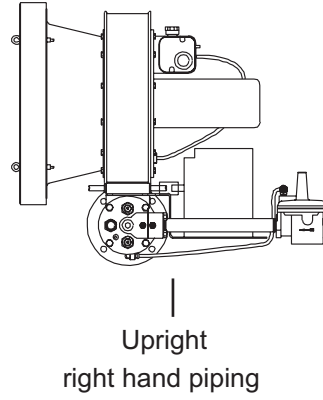
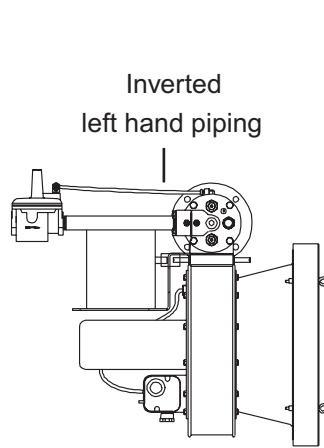
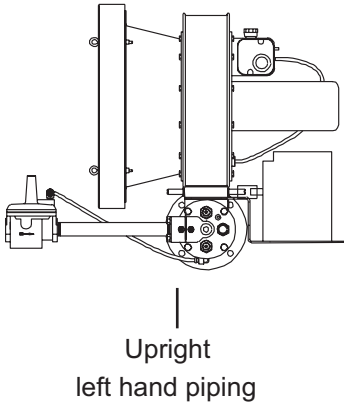
### Square Block & Holder



### 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)