

# Eclipse RatioMatic Burners

Model RM500

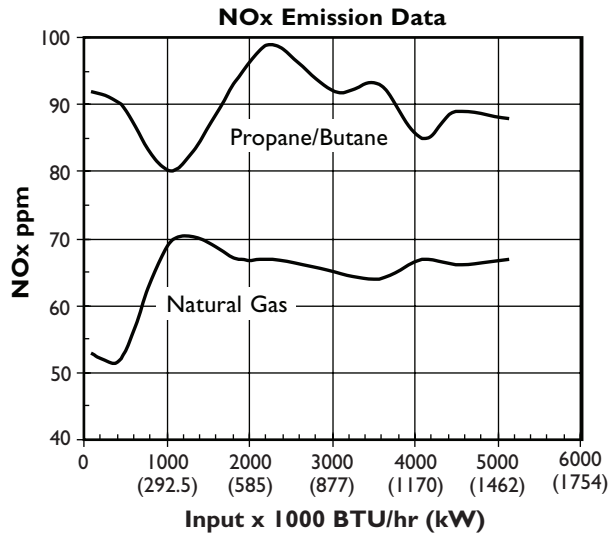
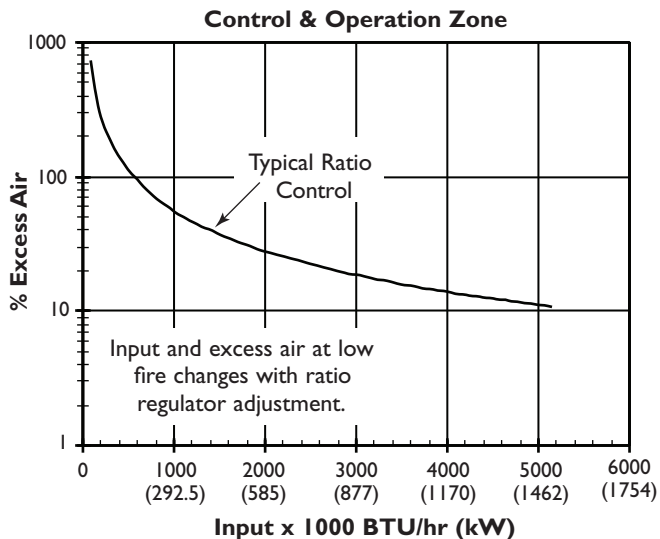
Version 3

## Specifications

PARAMETER	SPECIFICATIONS				
Maximum input (Btu/hr)  <b>Note:</b> Contact factory for varying chamber pressures or pressures outside the range: -5.0" to 5.0" w.c. (-12,4 to 12,4 mbar)	<b>Frequency</b>	<b>BTU/hr</b>	<b>"w.c.</b>	<b>kW</b>	<b>mbar</b>
	60 Hz	5,780,000	-5.0	1690	-12,4
	Packaged Blower	5,380,000	-2.0	1580	-5,0
		5,100,000	0.0	1490	0,0
		4,800,000	2.0	1410	5,0
	4,310,000	5.0	1260	12,4	
	50 Hz	5,700,000	-5.0	1670	-12,4
	Packaged Blower	5,300,000	-2.0	1550	-5,0
		5,010,000	0.0	1470	0,0
		4,710,000	2.0	1380	5,0
4,210,000	5.0	1230	12,4		
Minimum input			<u>BTU/hr</u>	<u>kW</u>	
		75,000		22	
Main Gas Inlet Pressure			<u>psig</u>	<u>mbar</u>	
<i>•Fuel pressure at ratio regulator inlet</i>	Natural gas	1.0 to 2.0		70 to 140	
	Propane / Butane	1.0 to 1.5		70 to 105	
High Fire Flame Length			<u>inches</u>	<u>mm</u>	
<i>•Measured from the outlet end of combustor</i>	Natural gas	56		1430	
	Propane / Butane	64		1630	
Maximum Chamber Temperature			<u>°F</u>	<u>°C</u>	
	Alloy Tube	1500		820	
	Block & holder	1900		1040	
Flame Detection	Alloy Tube	Flame rod or UV scanner			
	Block & holder	UV scanner only			
Fuel	Natural gas, Propane, or Butane. For any other mixed gas, contact Eclipse for orifice sizing				

- 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 RatioMatic RM500



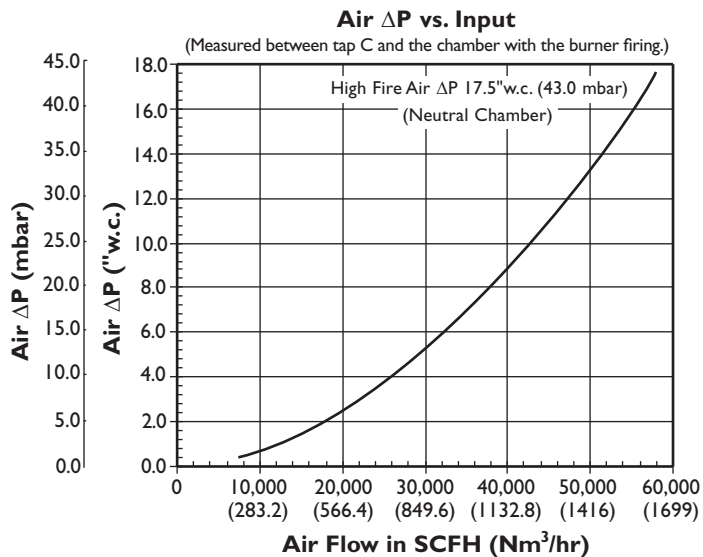
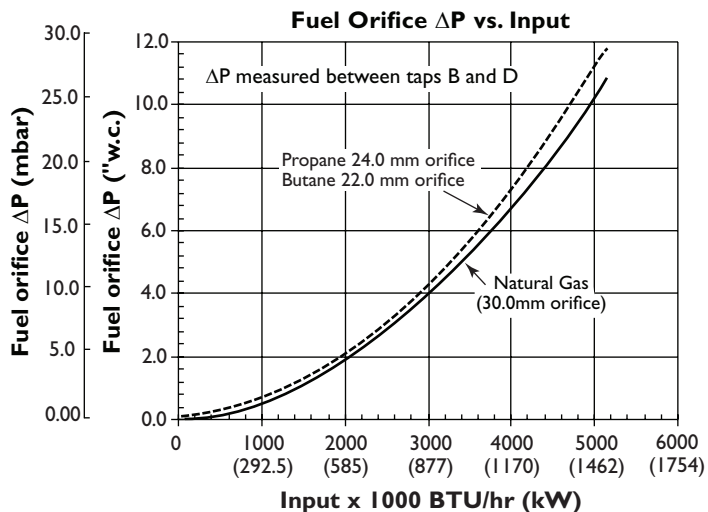
NOx emission data is given for:

- 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 (22kW)
- ppm volume, dry @ 3% O<sub>2</sub>
- Neutral chamber pressure

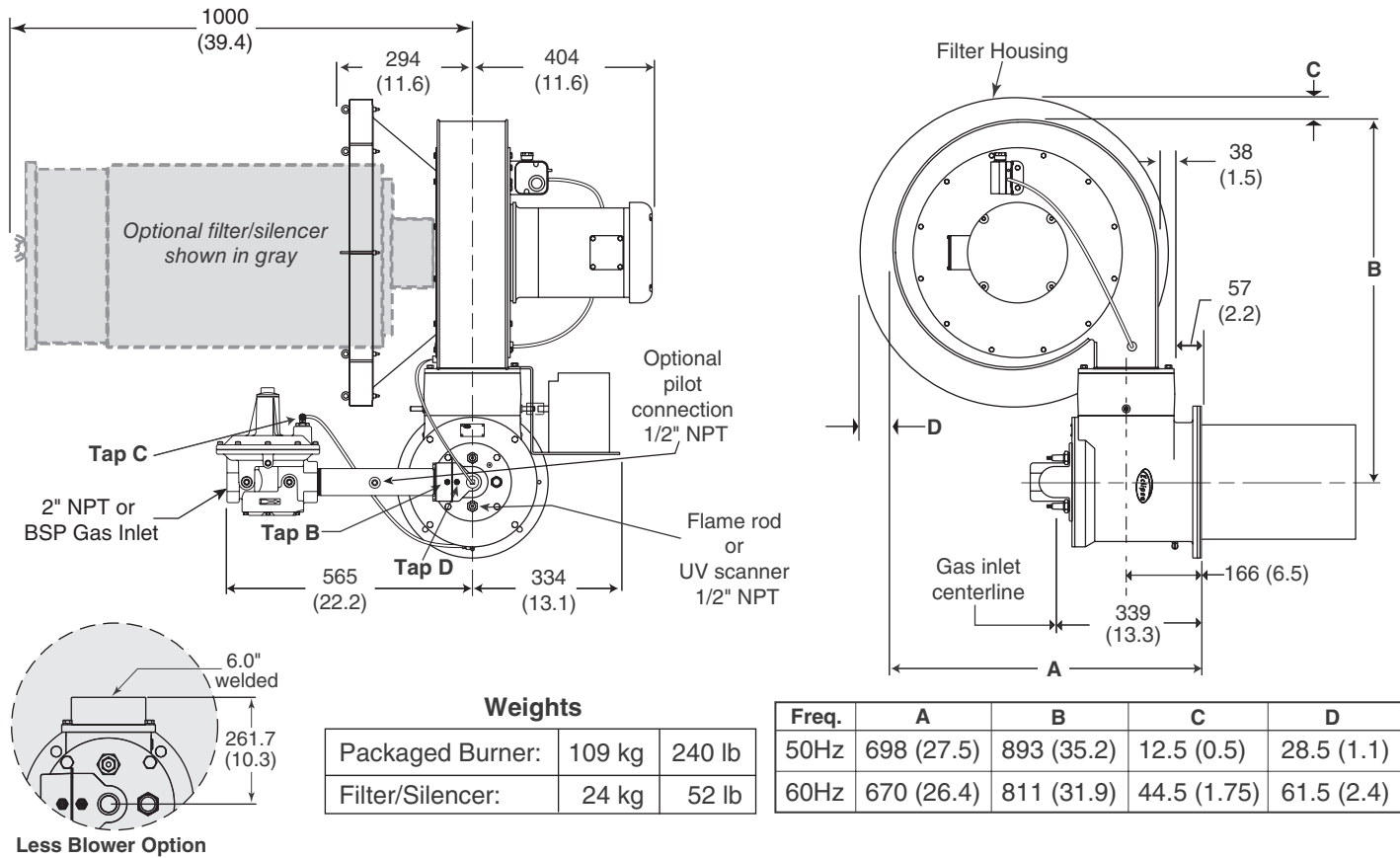
Emissions are influenced by:

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

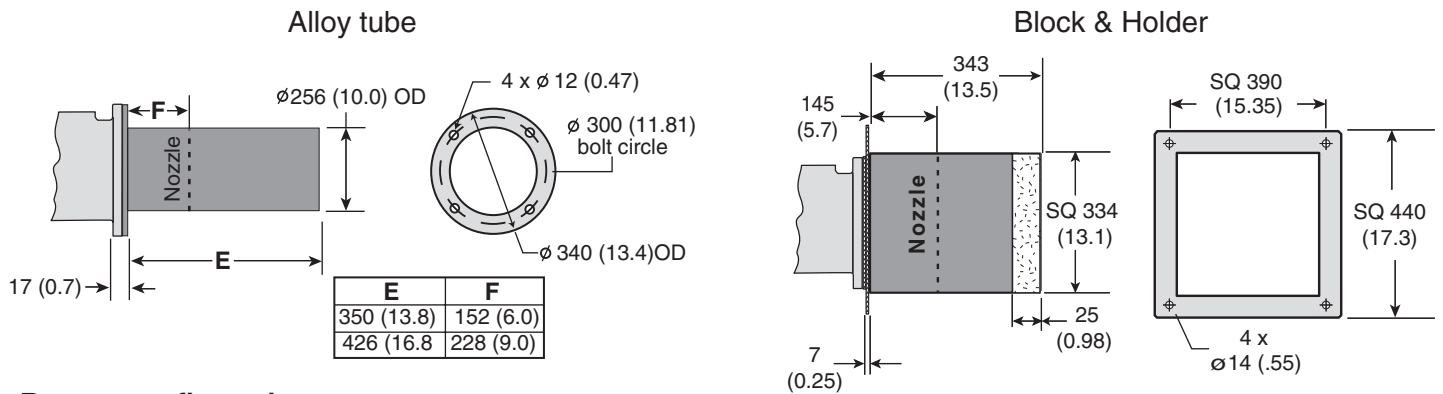
CO emission is largely influenced by chamber conditions. Contact your local Eclipse Combustion representative for an estimate of CO emission on your application



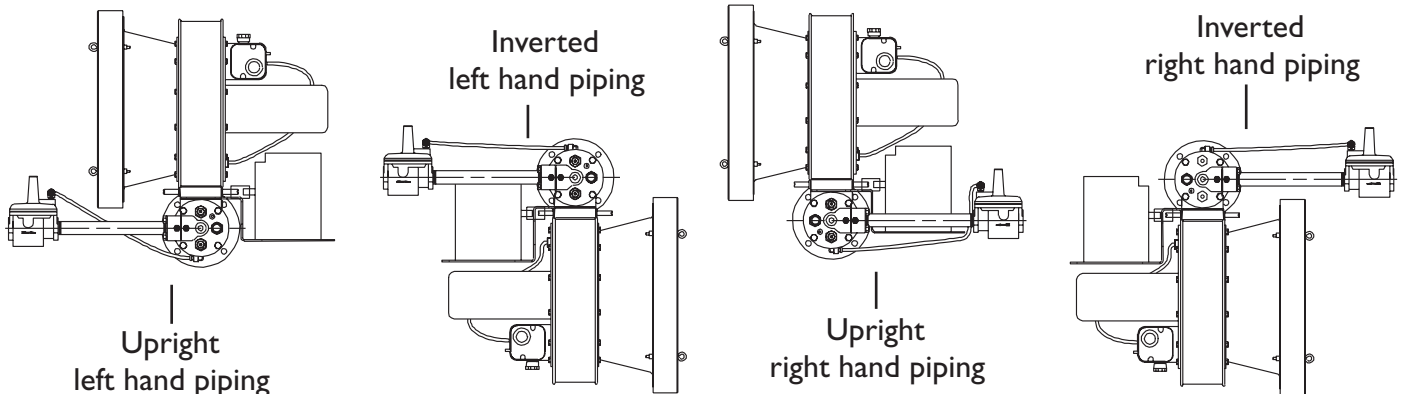
## Dimensions-RM500



## Combustor types



## Burner configuration





**Offered By:**

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