

# Eclipse RatioMatic

## Burners

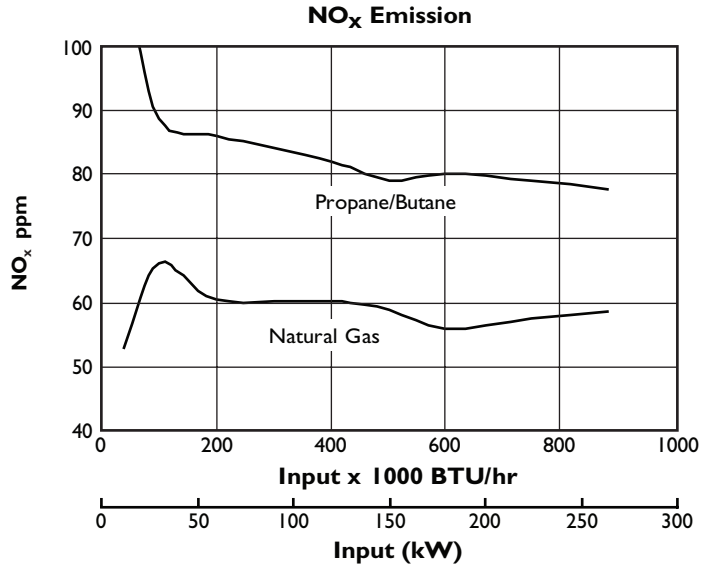
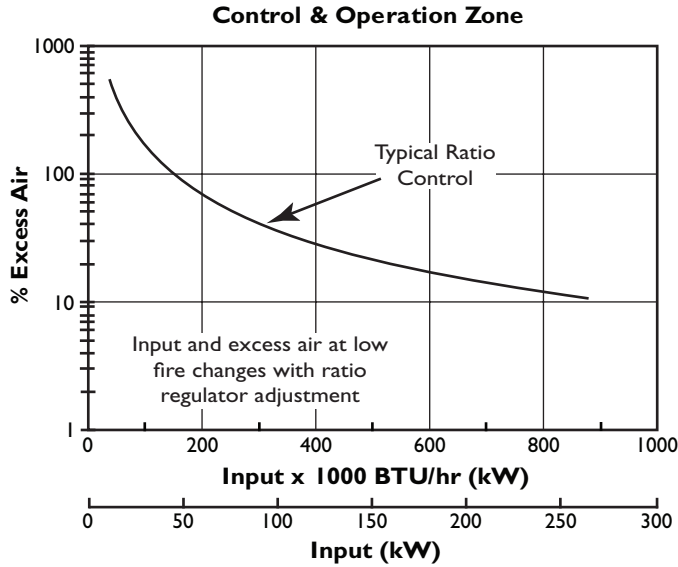
Model RM 075  
Version 3

### Main Specifications - RM075

PARAMETER	SPECIFICATIONS					
Maximum input (Btu/hr)  <b>Note:</b> Contact factory for varying chamber pressures or pressures outside the range: -2.0" to 2.0" w.c. (-5.0 to 5.0 mbar)	Frequency	BTU/hr	"w.c.	kW	mbar	
		60 Hz Packaged Blower	1,070,000	-2.0	313	-5,0
			990,000	-1.0	290	-2,5
			900,000	0.0	263	0,0
			800,000	1.0	234	2,5
	680,000		2.0	199	5,0	
	50 Hz Packaged Blower	1,070,000	-2.0	313	-5,0	
		990,000	-1.0	290	-2,5	
		900,000	0.0	263	0,0	
		800,000	1.0	234	2,5	
680,000		2.0	199	5,0		
Minimum input			BTU/hr	kW		
	<ul style="list-style-type: none"> <li>with high turndown ratio regulator</li> <li>with standard ratio regulator</li> </ul>		30,000	9		
		40,000	12			
Main Gas Inlet Pressure			" w.c.	mbar		
	<ul style="list-style-type: none"> <li>Fuel pressure at ratio regulator inlet</li> </ul>		10 to 20	25 to 50		
High Fire Flame Length			inches	mm		
	<ul style="list-style-type: none"> <li>Measured from the outlet end of the combustor</li> </ul>	Natural gas	30	762		
		Propane / Butane	36	914		
Maximum Chamber Temperature			° F	° C		
		Alloy Tube	1500	820		
		SiC Tube	1900	1040		
Flame Detection	Flame rod or UV scanner					
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 effect 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



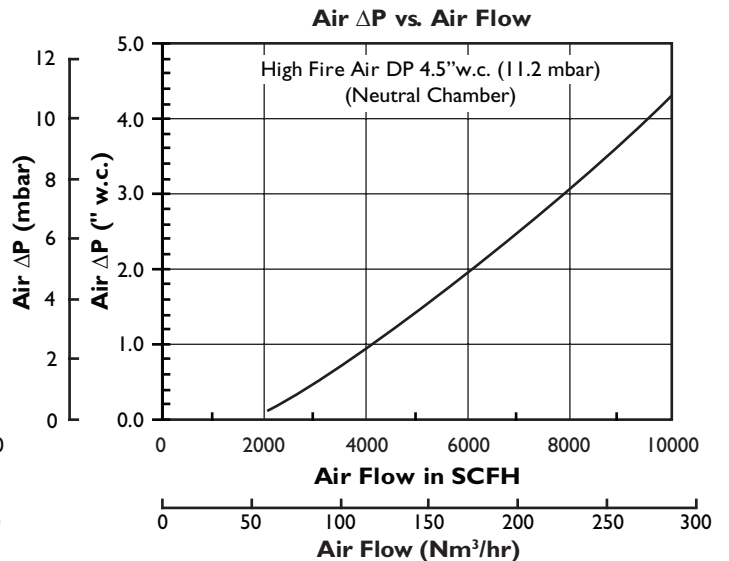
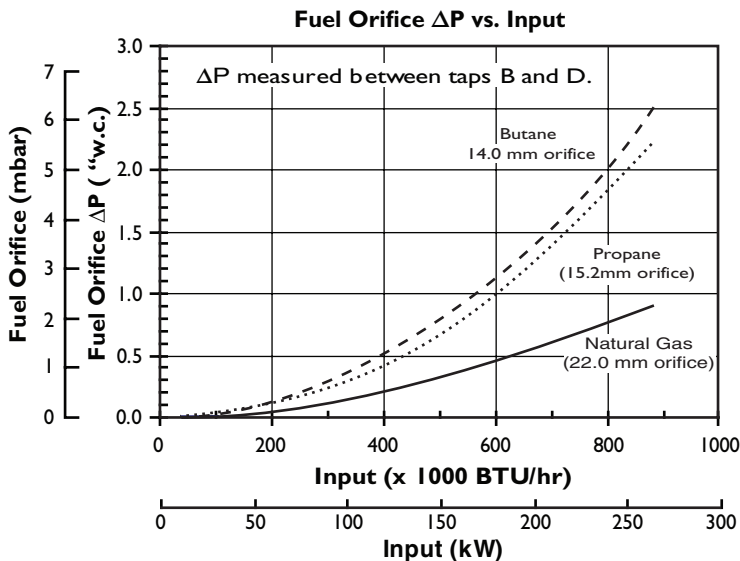
NO<sub>x</sub> emission data is given for:

- Ambient combustion air ~70 F (20 C)
- Less than 700 F (370 C) firing chamber
- Minimal process air velocity
- Low fire input adjusted to 40,000 BTU/hr (12kW)
- ppm volume, dry @ 3% O<sub>2</sub>
- Neutral chamber pressure

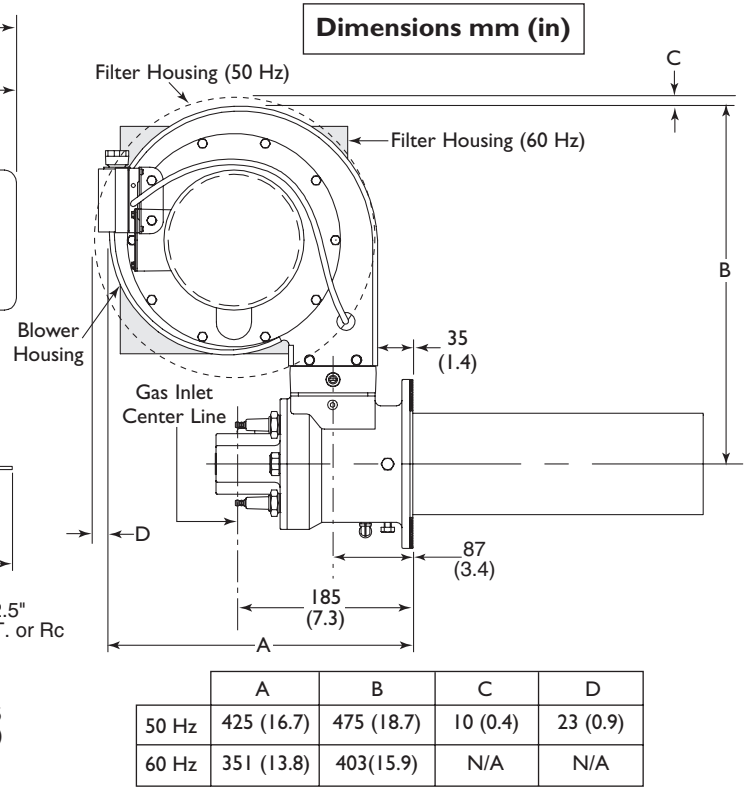
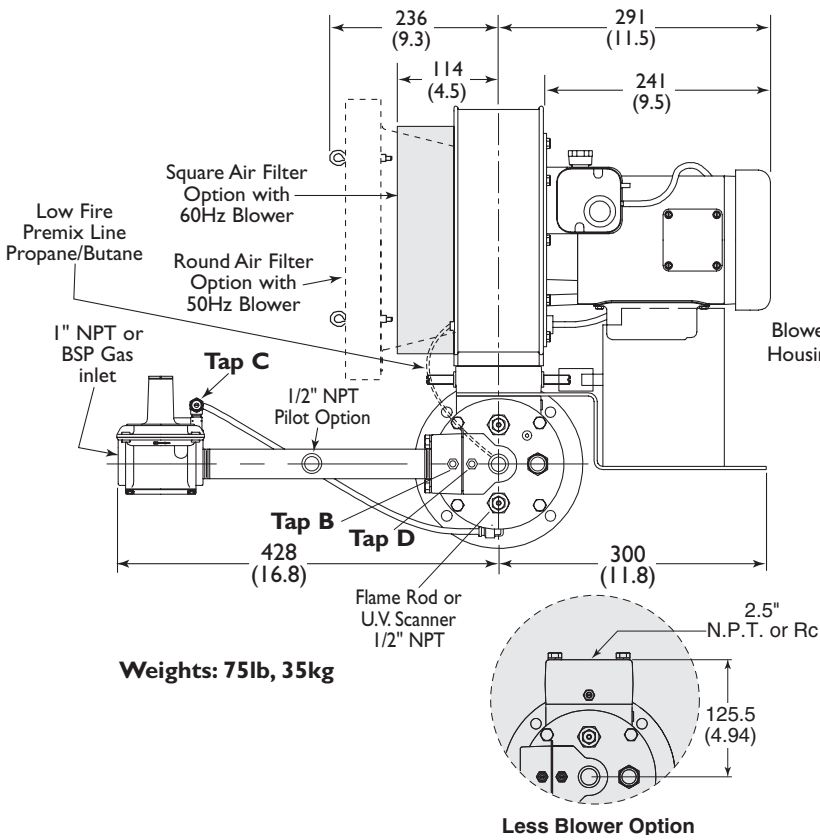
Emissions are influenced by:

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

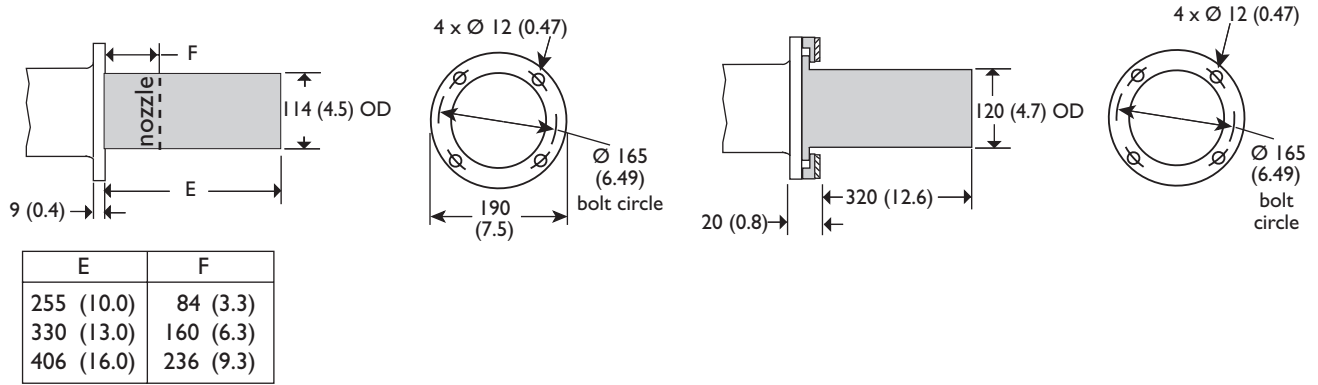
CO emission is largely influenced by chamber conditions. Contact your local Eclipse Combustion representative for an estimate of CO emission on your application



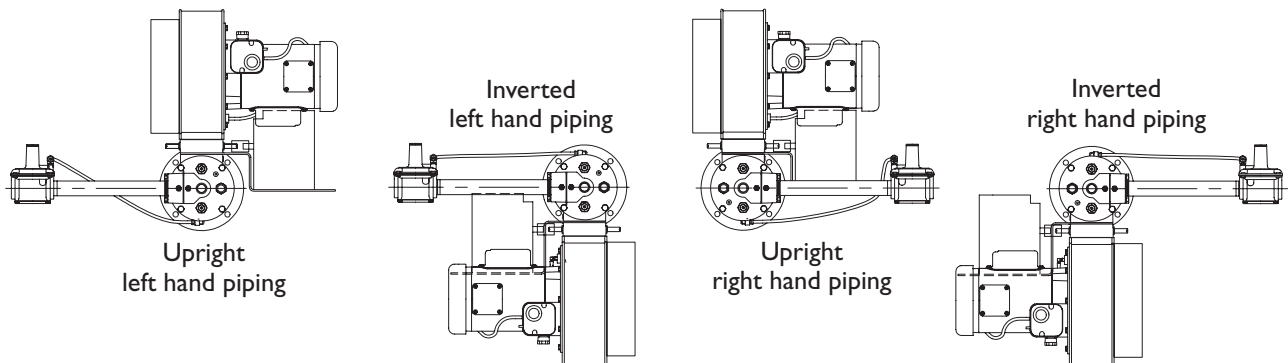
## Dimensions & Specifications



## Combustor Types



## Burner Configuration





**Offered By:**

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