

# Eclipse RatioMatic Burners

Model RM700

Version 3

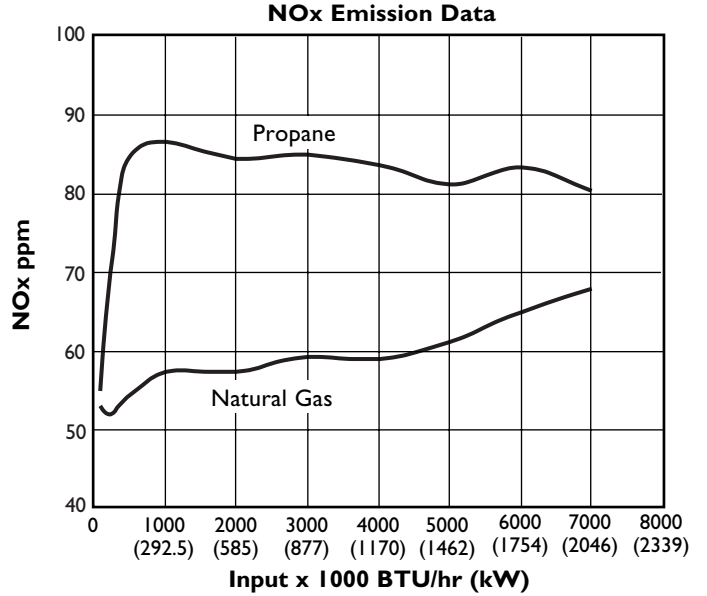
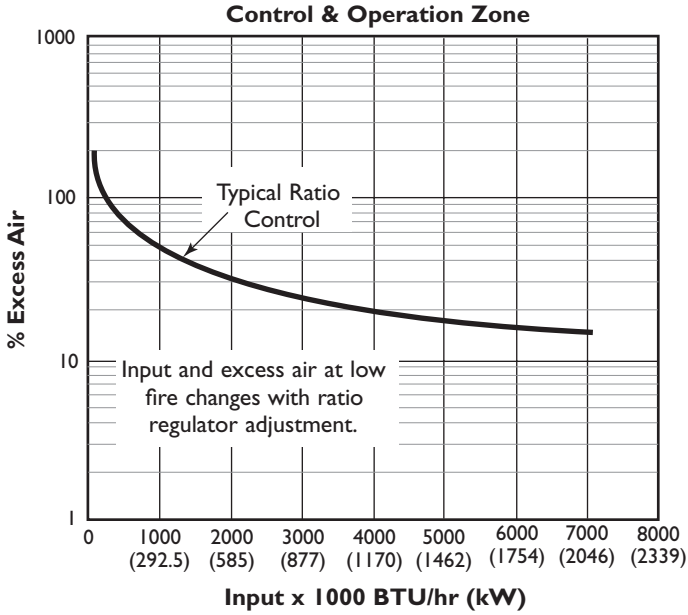
## Specifications

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*	7,640,000	-5.0	2240	-12,4
	Packaged Blower	7,260,000	-2.0	2130	-5,0
		7,000,000	0.0	2050	0,0
		6,720,000	2.0	1970	5,0
	6,290,000	5.0	1840	12,4	
Minimum input		BTU/hr		kW	
		80,000		23	
Main Gas Inlet Pressure		psig		mbar	
·Fuel pressure at ratio regulator inlet					
	Natural gas	1.5 to 2.5		105 to 175	
	Propane	1.5 to 2.0		105 to 140	
High Fire Flame Length		inches		mm	
·Measured from the outlet end of combustor					
	Natural gas	75		1900	
	Propane	88		2200	
Maximum Chamber Temperature		°F		°C	
	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 or Propane.			
		For any other gas, contact Eclipse for orifice sizing			

\* For 50 Hz applications, use remote blower or consult factory.

- 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 RM700



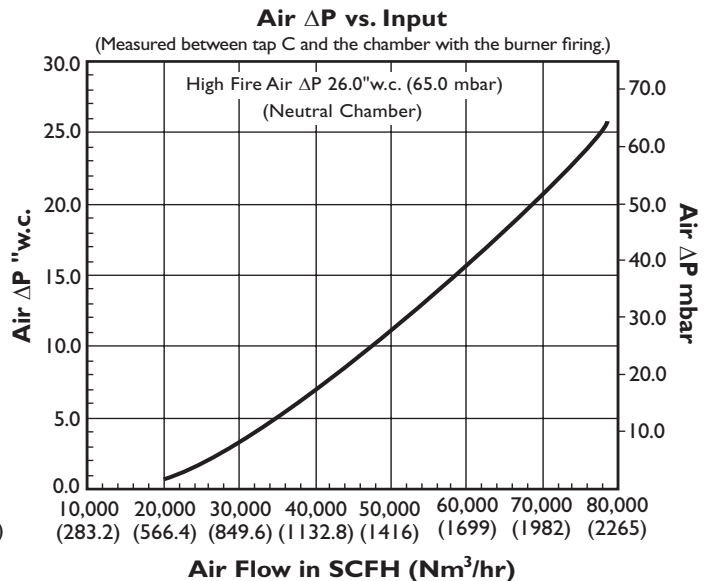
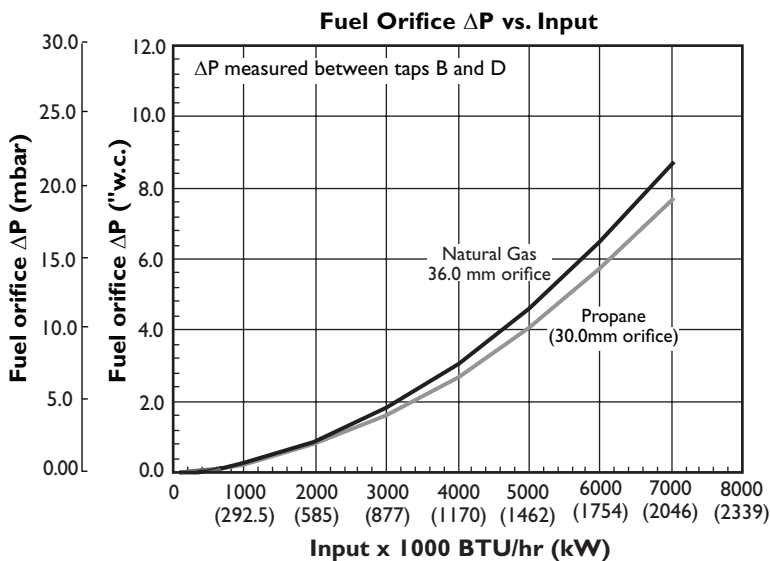
NOx emission data is given for:

- Ambient combustion air ~70° F (20° C)
- Less than 1000° F (540° C) firing chamber
- Minimal process air velocity
- Low fire input adjusted to 80,000 BTU/hr (23kW)
- ppm volume, dry @ 3% O<sub>2</sub>
- Neutral chamber pressure

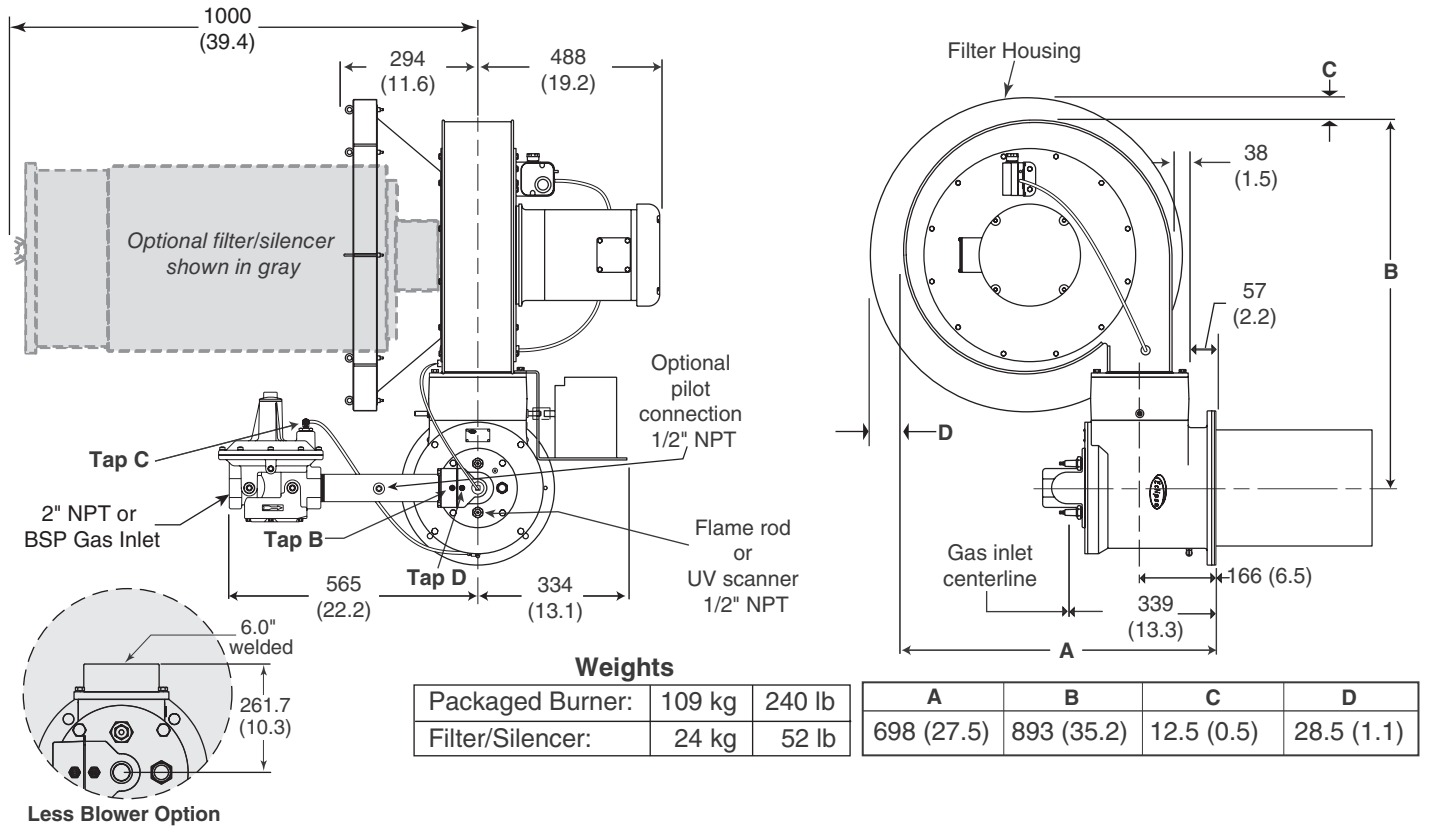
Emissions are influenced by:

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

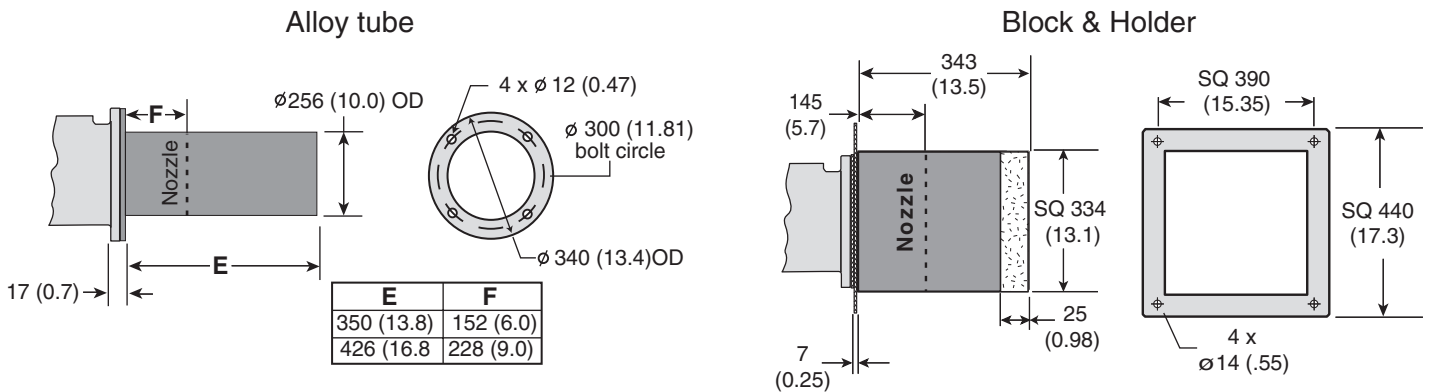
CO emission is largely influenced by chamber conditions. Contact your local Eclipse Combustion representative for an estimate of CO emission on your application



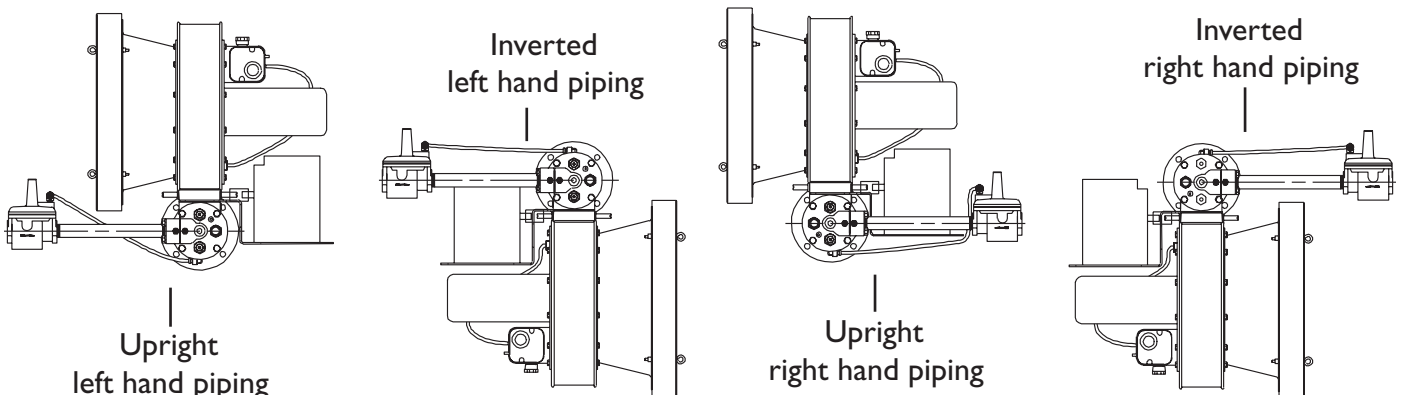
## Dimensions-RM700



## Combustor types



## Burner configuration





**Offered By:**

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