Eclipse RatioMatic Burners

Model RM1000

Data sheet Edition 08.15

Version 6

Parameter	Specifications	
Blower Type	**Chamber Pressure "w.c. (mbar)**	**60 Hz Packaged Blower**
Maximum Input, Btu/h (kW)[1] *For chamber pressures outside the given range or for varying chamber pressure conditions, contact Eclipse, Inc.*	-5.0 (-12.5)	12,500,000 (3664)
	-3.0 (-7.5)	11,600,000 (3400)
	-1.0 (-2.5)	10,500,000 (3107)
	0 (0.0)	10,000,000 (2931)
	1.0 (2.5)	9,400,000 (2755)
	2.0 (5.0)	8,800,000 (2579)
Minimum Input, Btu/h (kW)[2] *For lower inputs, contact Eclipse, Inc.*	525,000 (154)	
Maximum Chamber Temperature °F (°C)	Burner with alloy tube	1500°F (815°C)
	Burner with refractory block	1900°F (1038°C)
Main Gas Inlet Pressure, "w.c. (mbar)[3] *Fuel pressure at ratio regulator inlet*	14 to 55 (35 to 138)	
Pilot Gas Pressure at the Pilot Cock Inlet	Minimum: 6" w.c. (15 mbar)	
High Fire Visible Flame Length, inches (mm) *Measured from the outlet end of the combustor*	124" (3.15 m) Measured from the end of the firing tube	
Pilot	Integral spark-ignited pilot	
Flame Detection	UV scanner only.	
Fuels[4] *For any other mixed gas, contact Eclipse, Inc.*	Standard nozzles burn natural gas, propane, propane/air mixes without changing internals.	
Blower Motor Power, Hp	7.5	
Weights, lbs (kg)[5]	Alloy Tube	807 (366)
	Refractory	1124 (510)
Approvals	АИ30	

[1] Maximum inputs for packaged blower versions are given for the standard combustion air blower without an inlet air filter.

[2] Turndown input based on neutral chamber conditions. Contact Eclipse for other chamber pressures.

[3] For proper performance, this pressure must be kept constant across the burner operating range.

[4] See Design Guide 110 for more information about typical fuel composition and properties.

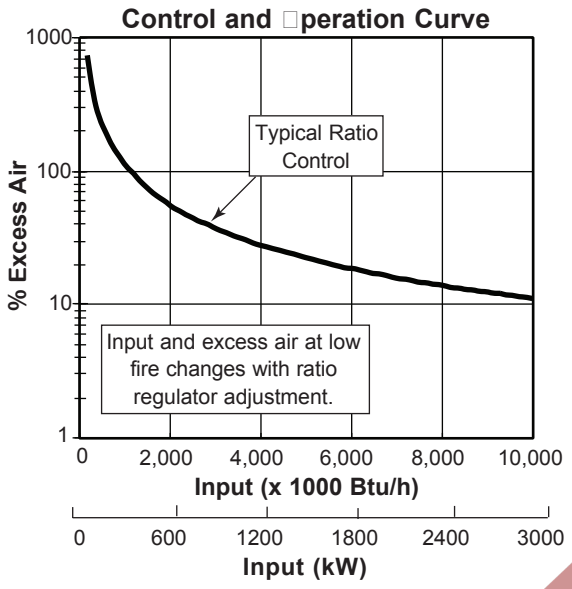
[5] All weights are approximate.

- All information is based on laboratory testing. Different chamber conditions will affect the data.
- 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.

NOT UP-TO-DATE
www.docuthek.com

elster
Thermal Solutions

Performance Graphs

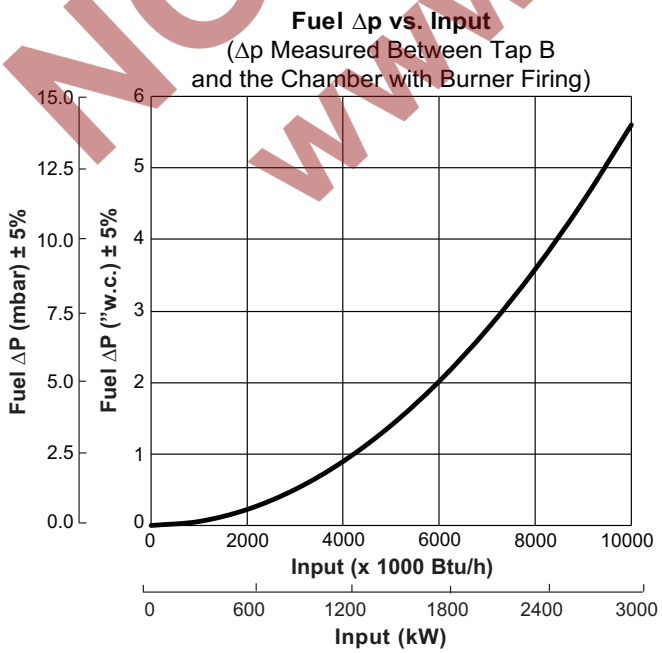


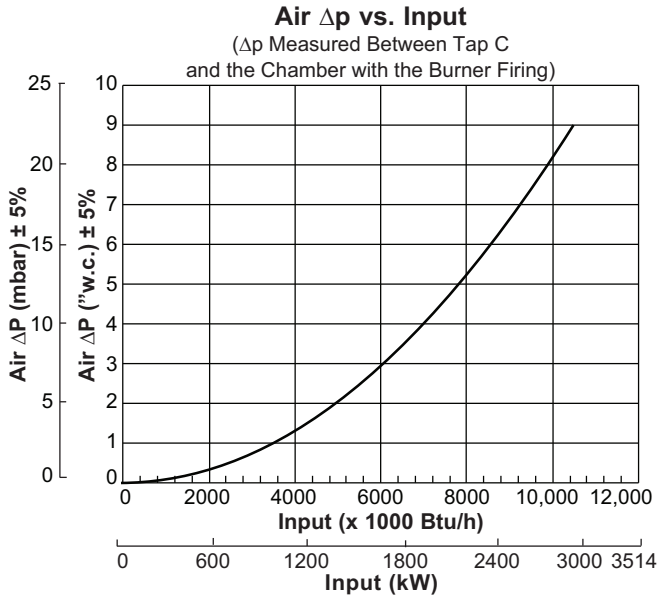
Emissions from the burner are influenced by:

- 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.

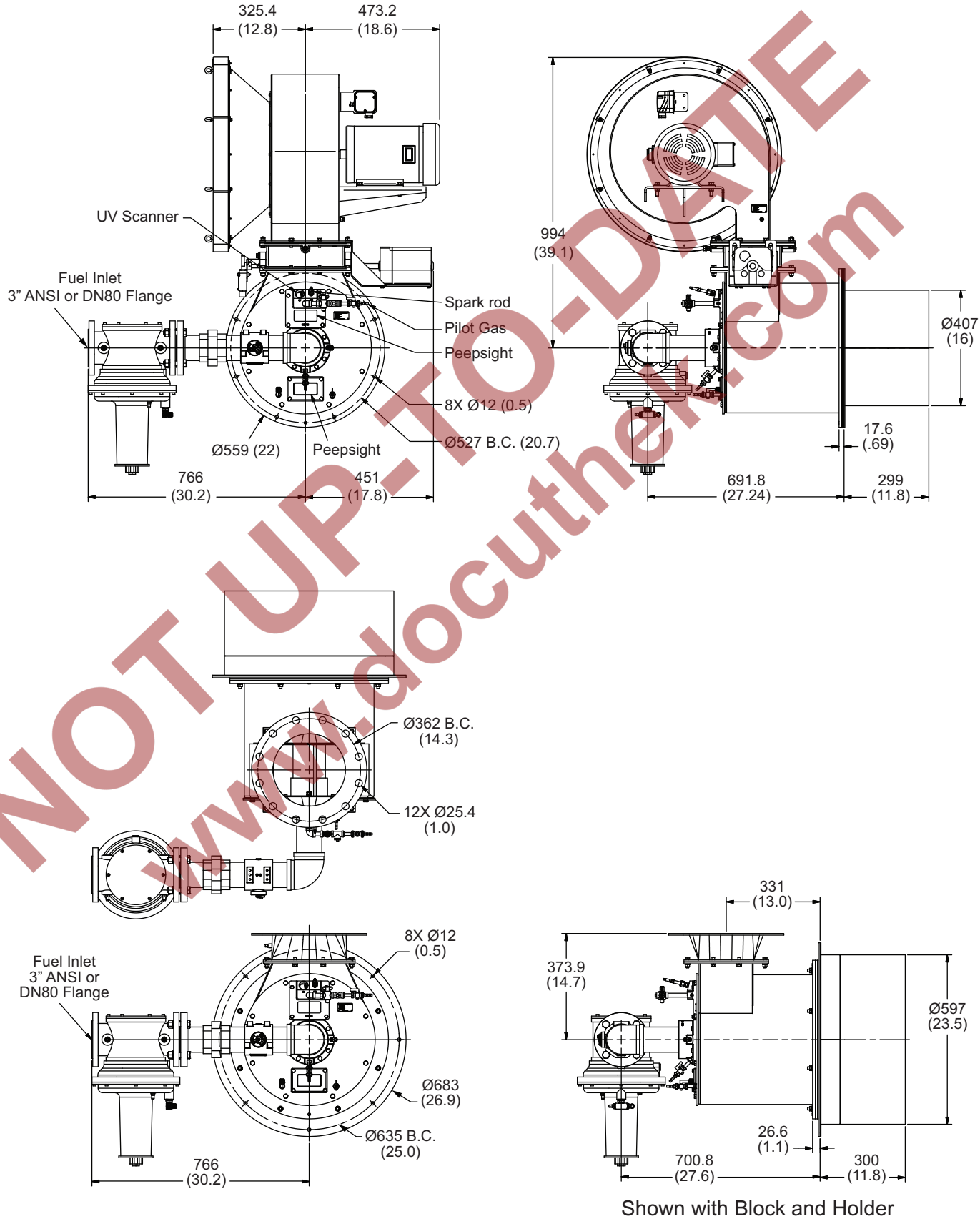
NOT UP-TO-DATE
www.docuthek.com





Dimensions and Specifications

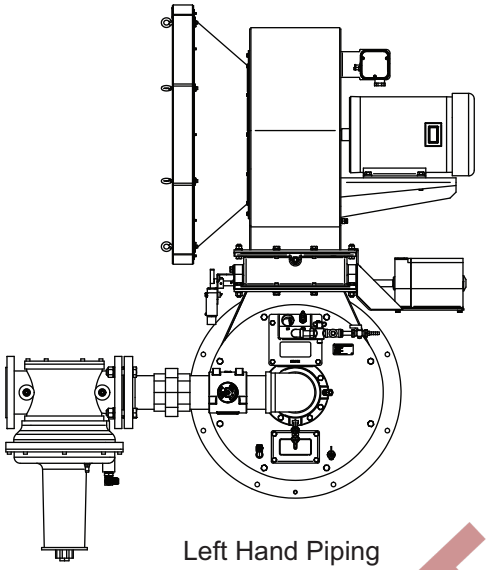
Dimensions in mm (inches)



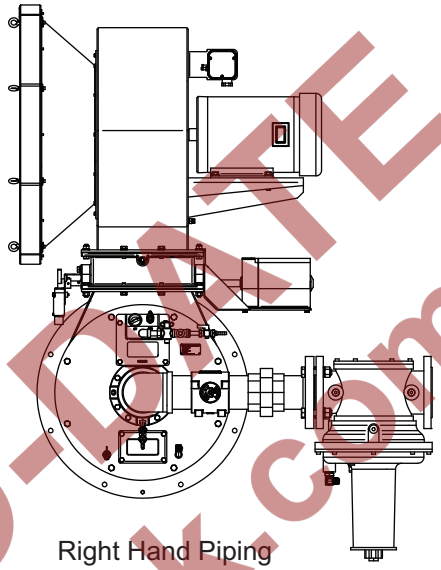
Shown with Block and Holder

NOT UP-TO-DATE
www.docuthek.com

Burner Configurations



Left Hand Piping



Right Hand Piping

NOT UP-TO-DATE
www.docuthek.com

© Eclipse, Inc. All Rights Reserved