

RatioMatic Burners Model RM0050

DATA SHEET

Edition 05.19

Version 6

Parameter	Specifications		
Blower Type	Chamber Pressure “w.c. (mbar)	50 Hz	60 Hz
Maximum Input, Btu/h (kW) ¹ For chamber pressures outside the given range or for varying chamber pressure conditions, contact Eclipse, Inc.	-5.0 (-12.4)	660,000 (195)	650,000 (190)
	-3.0 (-7.5)	610,000 (180)	600,000 (175)
	0 (0.0)	520,000 (150)	500,000 (150)
	1.0 (2.5)	490,000 (145)	460,000 (135)
	2.0 (5.0)	450,000 (130)	420,000 (125)
Minimum Input, Btu/h (kW) ² For lower inputs, contact Eclipse, Inc.	with high turndown ratio regulator	20,000 (6)	
	with standard ratio regulator	30,000 (9)	
Main Gas Inlet Pressure, “w.c. (mbar) ³ Fuel pressure at ratio regulator inlet	15 to 50 (37 to 125)		
High Fire Visible Flame Length, inches (mm) Measured from the outlet end of the combustor	24 (600)		
Maximum Chamber Temperature, °F (°C)	Alloy Tube	1500 (815)	
	SiC Tube	1900 (1038)	
Flame Detection	Flame rod or UV Scanner		
Fuel ⁴ For any other mixed gas, contact Eclipse, Inc.	Natural Gas, Propane, Butane		
Blower Motor Power, Hp (kW)	0.33 (0.25)		
Weight, lbs (kg) ⁵	84 (38)		
Approvals	EAC		

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.

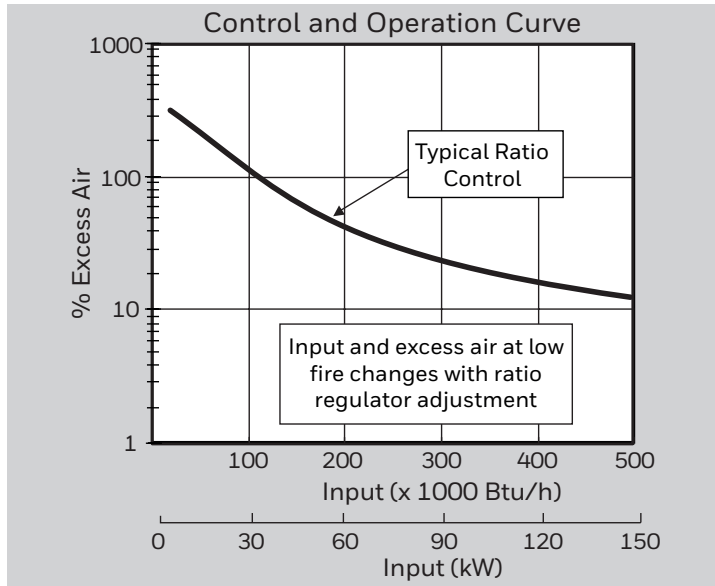
³ For proper performance, this pressure must be kept constant across the burner operating range.

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.

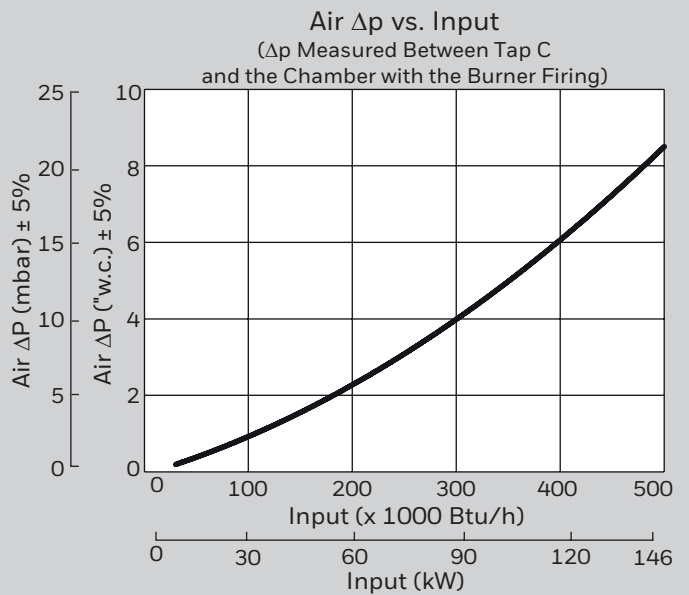
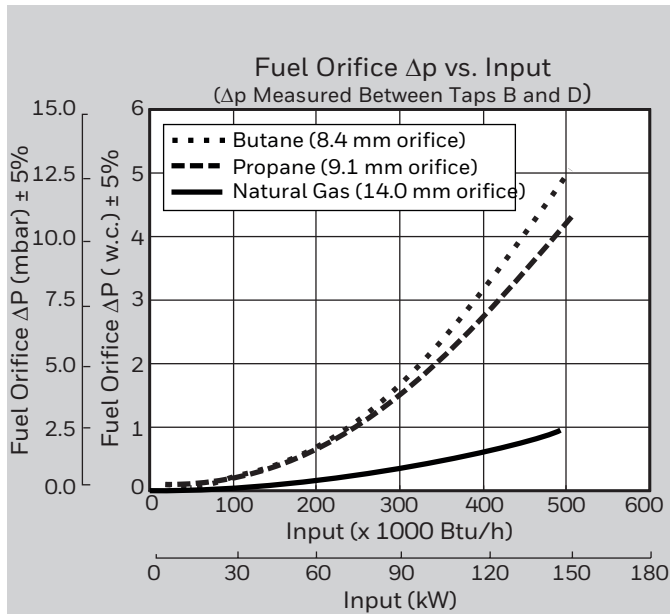
Performance Graphs



Emissions from the burner are influenced by:

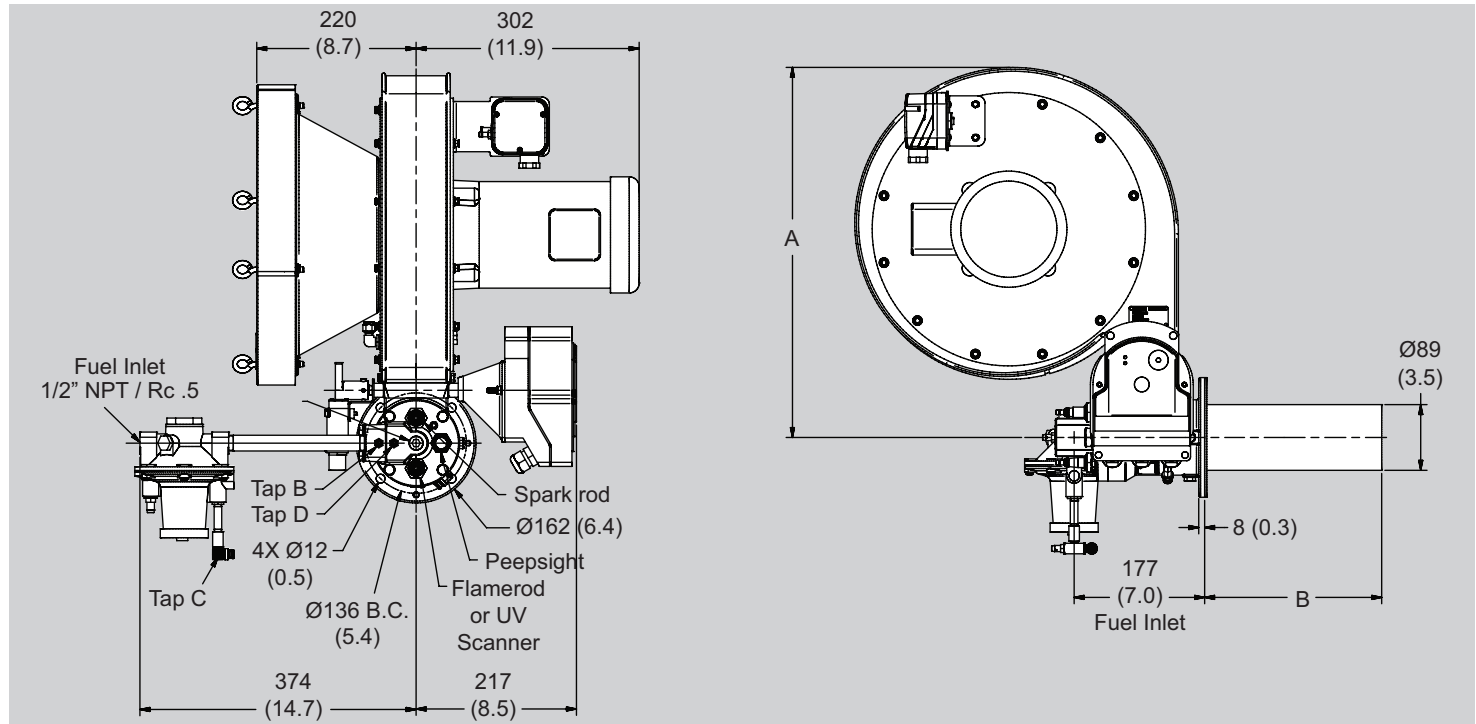
- Chamber conditions
- Fuel type
- Firing rate
- Ratio regulator adjustment
- Combustion air temperature

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



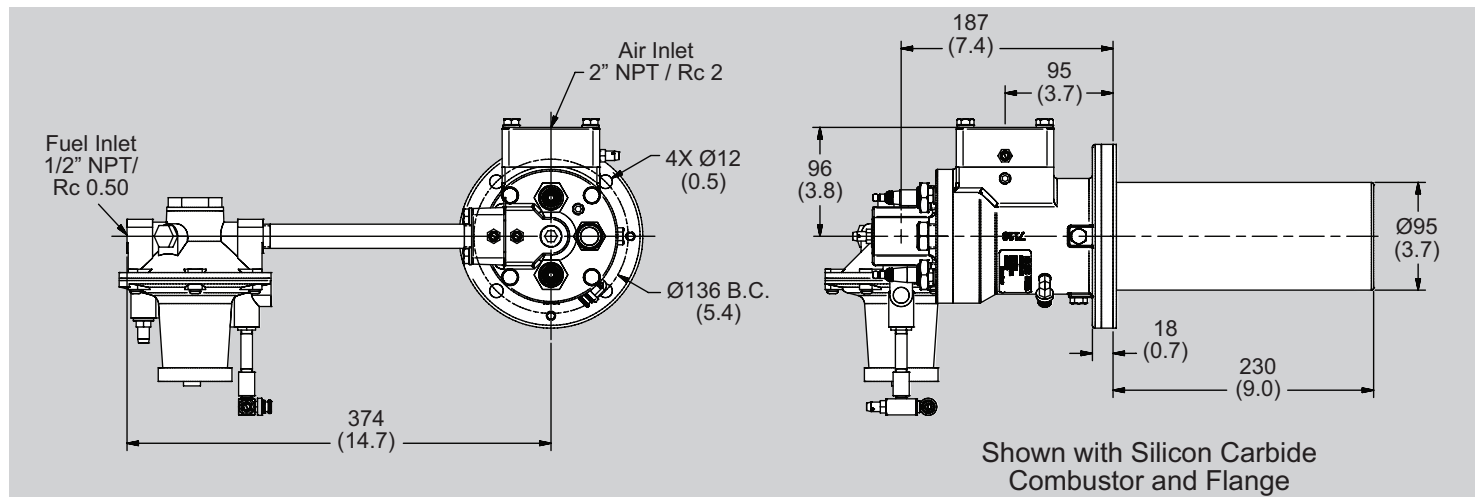
Dimensions and Specifications

Dimensions in mm (inches)



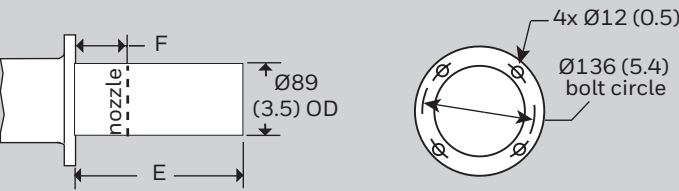
Blower Size	A
50 Hz	501 (19.7)
60 Hz	445 (17.5)

Combustor Type	B
Straight Stainless Steel Alloy Tube	240 (9.5)
Straight Stainless Steel Alloy/ Silicon Carbide Tube	315 (12.4)
Straight Stainless Steel Alloy Tube	390 (15.4)

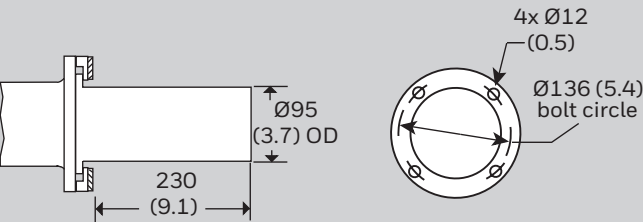


Combustor Options

Alloy Combustor

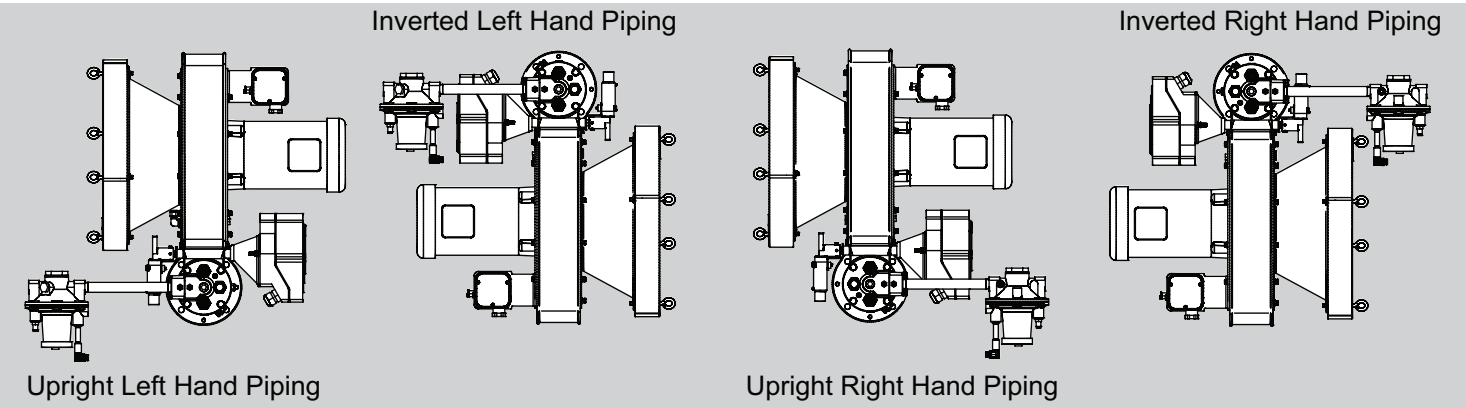


Silicon Carbide Combustor



E	F
240 (9.5)	83.5 (3.3)
315 (12.4)	159.5 (6.3)
390 (15.4)	235.5 (9.3)

Burner Configurations



For More Information

The Honeywell Thermal Solutions family of products includes Honeywell Combustion Safety, Eclipse, Exothermics, Hauck, Kromschröder and Maxon. To learn more about our products, visit ThermalSolutions.honeywell.com or contact your Honeywell Sales Engineer.

Honeywell Process Solutions

Honeywell Thermal Solutions (HTS)
Eclipse Inc.
1665 Elmwood Rd.
Rockford, IL 61103
United States
T +1 815 877 3031
www.ThermalSolutions.honeywell.com

® U.S. Registered Trademark
© 2019 Honeywell International Inc.
32-00242-01 Edition 05.19
Printed in United States

