

Eclipse RatioAir Burners

Model RA2000

Data sheet Edition 06.18

Version 3

Parameter		Specifications
Maximum Input, Btu/h (kW) ^{1, 2}	Chamber Pressure "w.c. (mbar)	Packaged Blower Nominal (60Hz)
	-2.0 (-5.0)	21,050,000 (6164)
	-1.0 (-2.5)	20,550,000 (6017)
	0.0 (0.0)	20,000,000 (5856)
	1.0 (2.5)	19,450,000 (5695)
	2.0 (5.0)	18,900,000 (5354)
Minimum Input, Btu/h (kW) <i>For lower inputs, contact Eclipse, Inc.</i>		350,000 (102)
Main Gas Inlet Pressure, "w.c. (mbar) ³ <i>Fuel pressure at ratio regulator inlet</i>	Maximum	60 (150)
	Minimum	32 (80)
High Fire Visible Flame Length, inches (mm) <i>Measured from the outlet end of the combustor</i>		160 (4064)
Approximate Flame Velocity, ft/s (m/s) <i>Approximately 15% excess air at maximum input</i>		375 (114)
Maximum Chamber Temperature, °F (°C) Alloy Combustor		1750 (950)
Flame Detection		UV scanner only
Blower Motor Power, Hp		20" w.c. @ 250,000 scfh, 30 hp
Weight, lbs (kg) ⁴		1069 (485)
Fuels ⁵ <i>For any other mixed gas, contact Eclipse, Inc.</i>		Natural Gas
Approvals		

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

² Blower motor service factors greater than 1.0 may be required when firing into negative chamber pressure applications. For specific application questions, contact Eclipse.

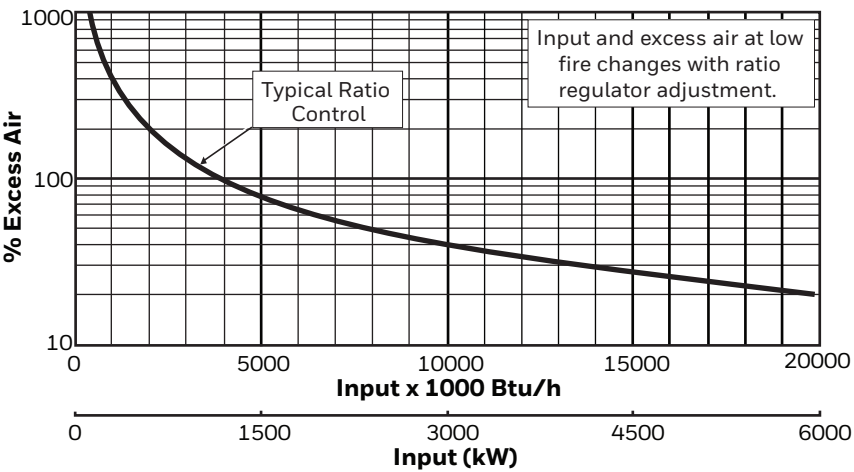
³ For proper performance, this pressure must be kept constant across the burner operating range.

⁴ All weights are approximate.

⁵ See Design Guide 115 for more information about typical fuel composition and properties.

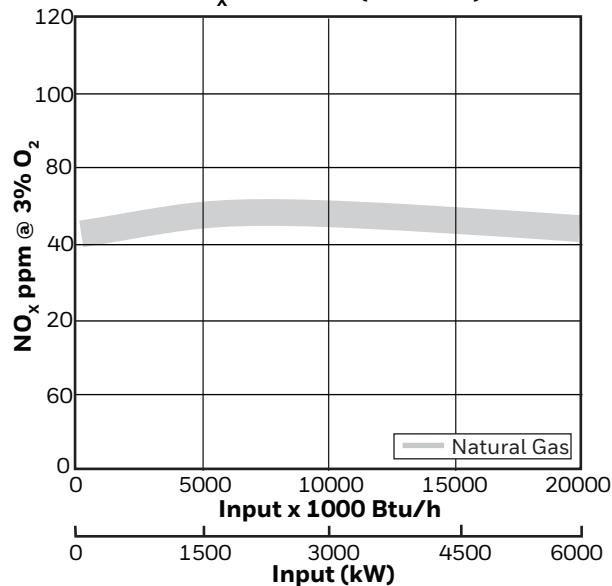
- All inputs based upon gross calorific values and standard conditions: 1 atmosphere, 70°F (21°C).
- Blower motor service factors greater than 1.0 may be required when firing into negative chamber pressure applications. For specific application questions, contact Eclipse.
- Eclipse reserves the right to change the construction and/or configuration of our products at any time without being obliged to adjust earlier supplies accordingly.
- All information is based on laboratory testing. Different chamber conditions will affect the data.

Control and Operation Curve



Medium Velocity Combustor Specifications

NO_x Emission (On ratio)



NO_x emission data is given for:

- Ambient combustion air ~70°F (21°C)
- Minimal process air velocity
- ppm volume dry at 3% O₂
- Neutral chamber pressure

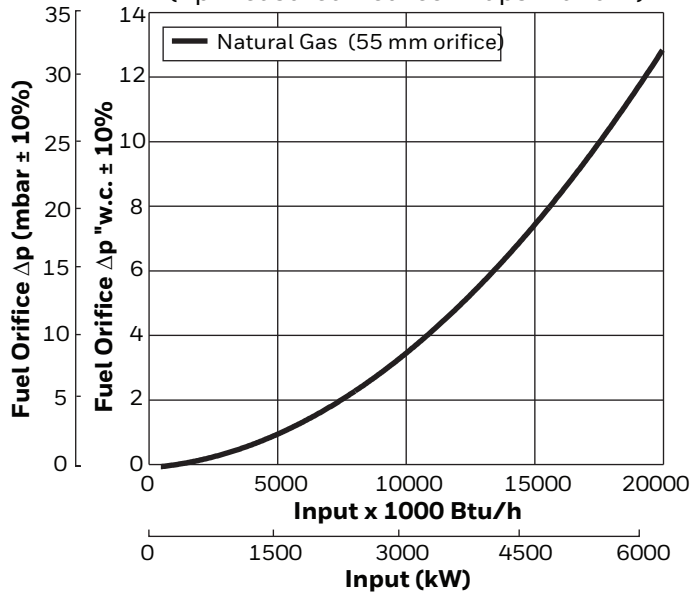
Emissions from the burner are influenced by:

- 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.

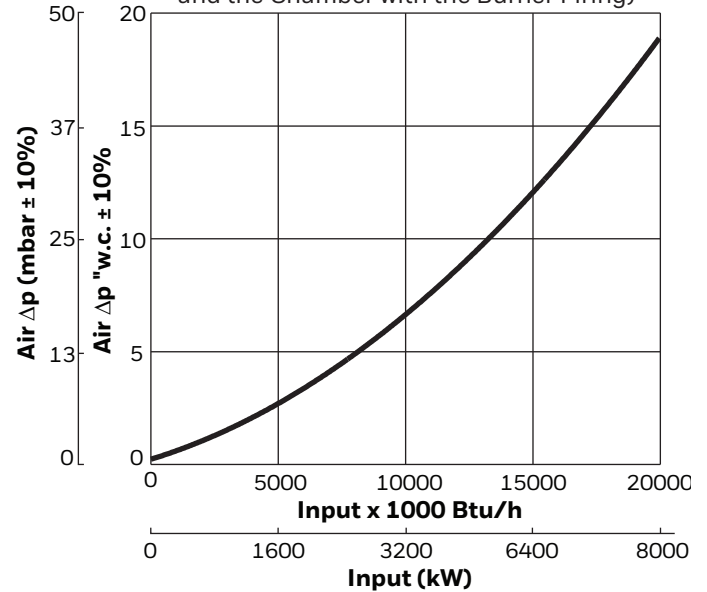
Fuel Orifice Δp vs. Input

(Δp Measured Between Taps B and D)

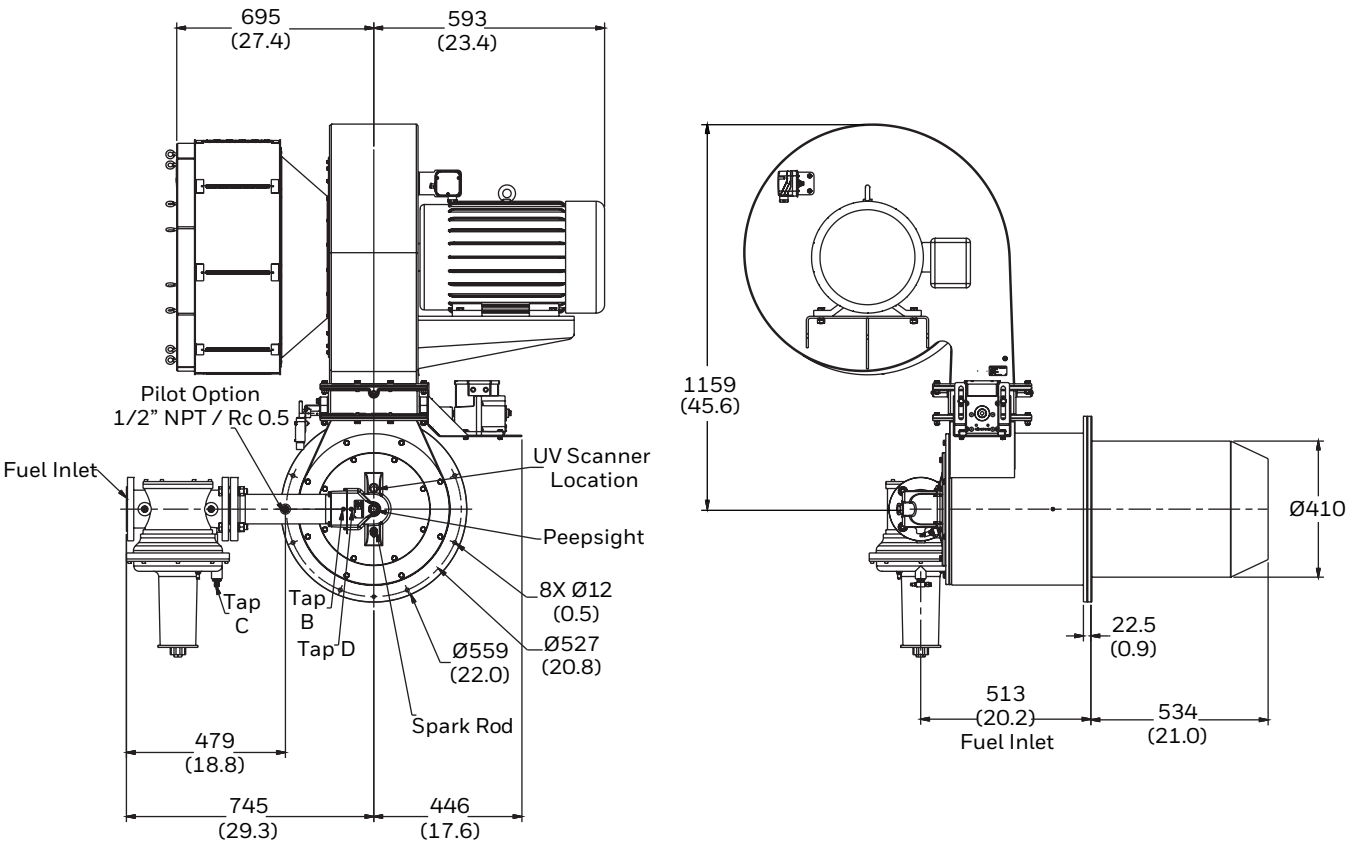


Air Δp vs. Input

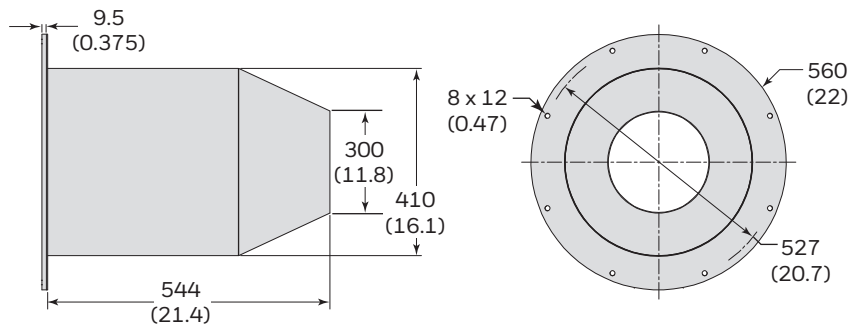
(Δp Measured Between Tap C and the Chamber with the Burner Firing)



Dimensions and Specifications
Dimensions in mm (inches)



Combustor Options



Alloy Combustor

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

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