Eclipse RatioAir Burners

Model RA1500

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)	16,335,000 (4786)
	-1.0 (-2.5)	15,820,000 (4637)
	0.0 (0.0)	15,300,000 (4483)
	1.0 (2.5)	14,755,000 (4323)
	2.0 (5.0)	14,190,000 (4158)
Minimum Input, Btu/h (kW) *For lower inputs, contact Eclipse, Inc.*		350,000 (102)
Main Gas Inlet Pressure, "w.c. (mbar)[3]	Maximum	55 (137)
Fuel pressure at ratio regulator inlet	Minimum	20 (50)
High Fire Visible Flame Length, inches (mm) *Measured from the outlet end of the combustor*		140 (3556)
Approximate Flame Velocity, ft/s (m/s) *Approximately 15% excess air at maximum input*		250 (75)
Maximum Chamber Temperature, °F (°C)	Alloy Combustor	1750 (950)
	Block & Holder	2200 (1205)
Flame Detection		UV scanner only
Blower Motor Power, Hp		15" w.c. @ 190,000 scfh, 15 hp
Weight, lbs (kg)[4]	Alloy Combustor	862 (391)
	Block and Holder	1728 (784)
Fuels[5] *For any other mixed gas, contact Eclipse, Inc.*		Natural Gas
Approvals		EAC

[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.

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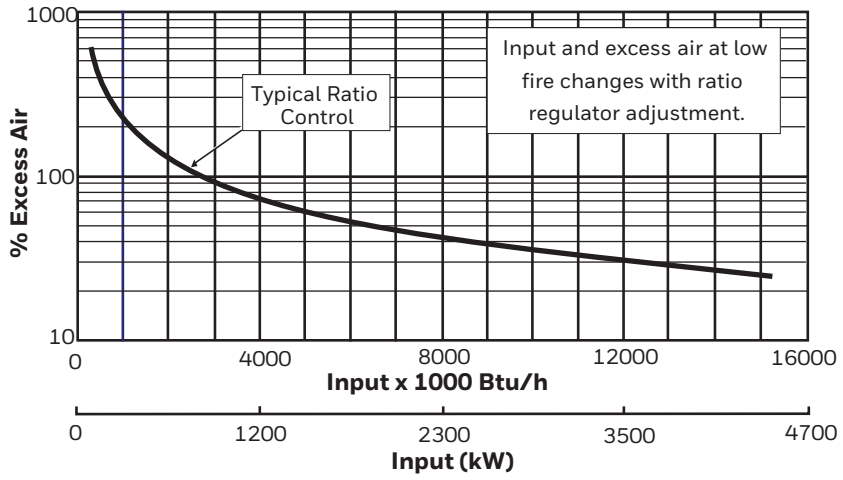
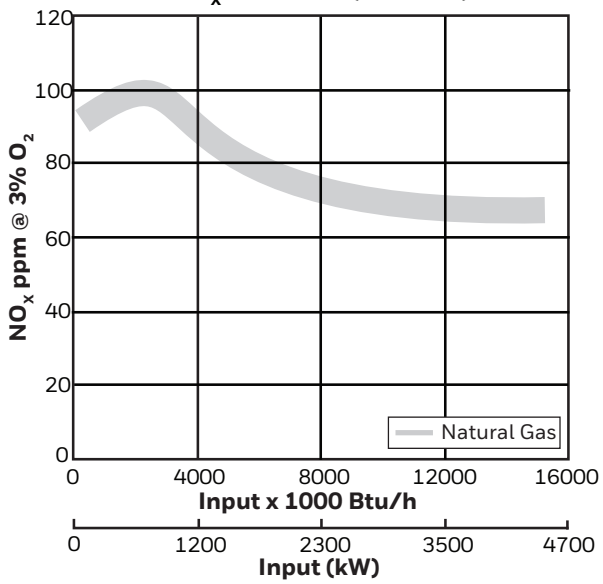
Control and Operation Curve



Medium Velocity Combustor Specifications

NO_x Emission (On ratio)



NO_x emission data is given for:

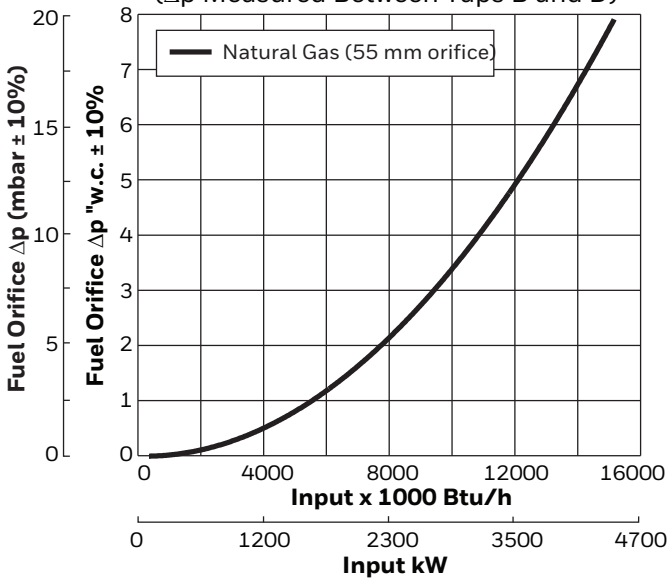
- Ambient combustion air ~70°F (21°C)
- Minimal process air velocity
- ppm volume dry at 3% O_2
- Neutral chamber pressure

Emissions from the burner are influenced by:

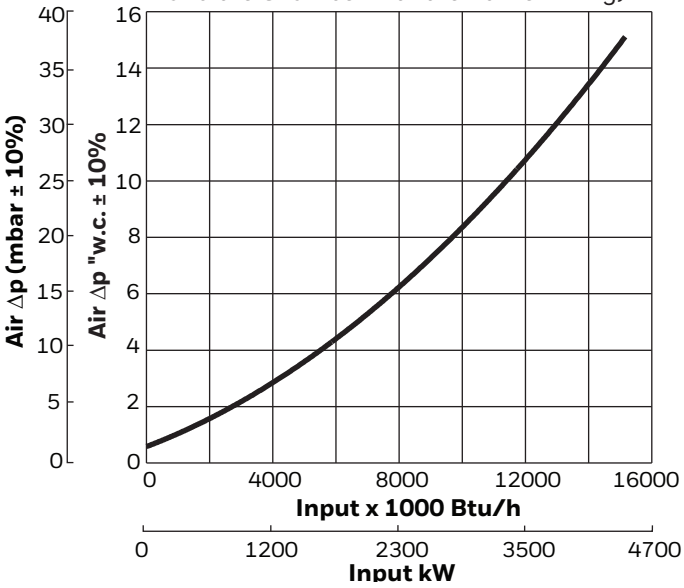
- Chamber conditions
- Fuel type
- Firing rate
- Ratio regulator adjustment
- Combustion air temperature

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

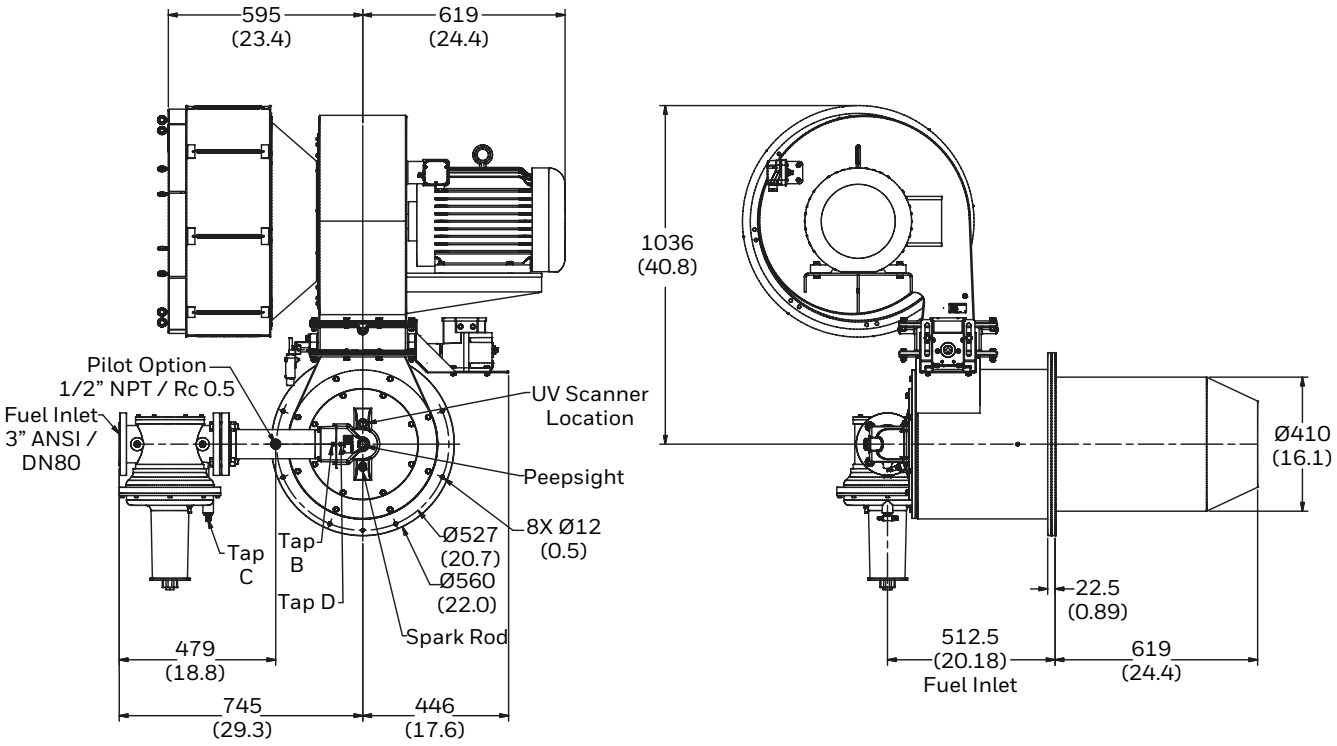
Fuel Orifice Δp vs. Input
(Δp Measured Between Taps B and D)



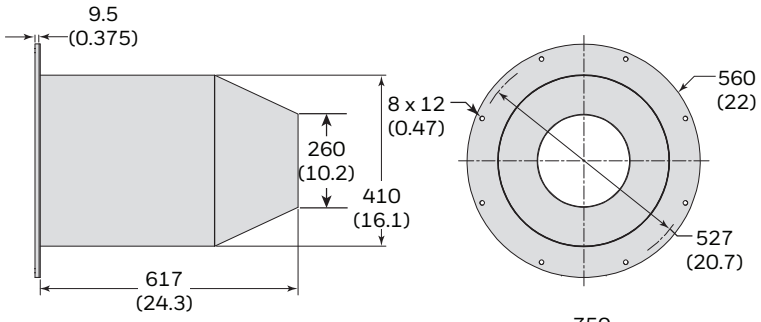
Air Δp vs. Input
(Δp Measured Between Tap C
and the Chamber with the Burner Firing)



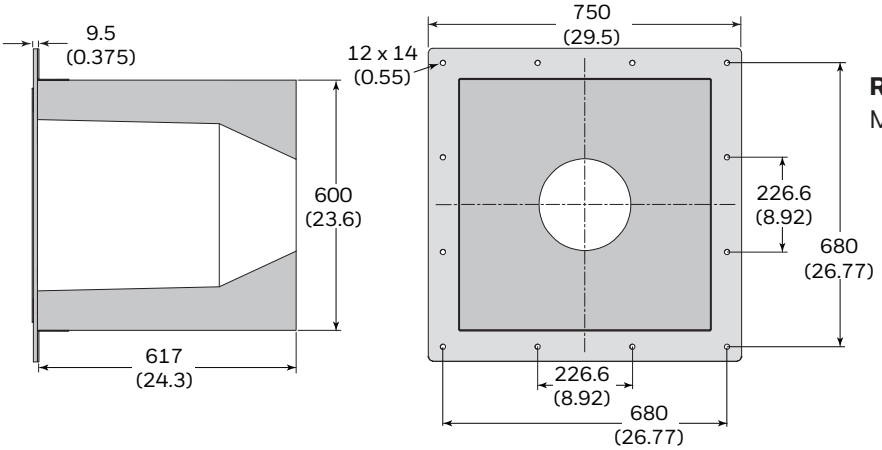
Dimensions and Specifications
Dimensions in mm (inches)



Combustor Options



Alloy Combustor
Max. Chamber Temp: 1,750°F (950°C)



Refractory Block
Max. Chamber Temp: 2,200°F (1204°C)

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

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