


Eclipse ThermAir Burners

Model TA0300

Data sheet Edition 08.15

Version 3

Parameter		Specification	
		Packaged Blower Size	
Maximum Input, Btu/h (kW)^{1 2} <i>To maintain 15% air with the standard air orifice and standard combustion air blower</i>	Chamber Pressure "w.c. (mbar)	60 Hz	50 Hz
	-1.0 (-2.5)	3,425,000 (1004)	3,544,000 (1038)
	0.0 (0.0)	3,250,000 (953)	3,384,000 (991)
	1.0 (2.5)	3,098,000 (908)	3,215,000 (942)
Minimum Input, Btu/h (kW) <i>For lower inputs, contact Eclipse, Inc.</i>		100,000 (29.3)	
Main Gas Inlet Pressure, "w.c. (mbar) <i>Fuel pressure in gas inlet (Tap B)</i>		7.7 (19)	7.7 (19)
High Fire Visible Flame Length, inches (mm) <i>Measured from the outlet end of the combustor</i>	Natural Gas	68 (1727)	
	Propane, Butane	88 (2235)	
	Alloy Tube	1500 (820)	
Maximum Chamber Temperature, °F (°C) <i>For higher temperatures, contact Eclipse, Inc..</i>		Block and Holder 1900 (1040)	
Flame Detection		UV Scanner	
Fuels⁴ <i>For any other mixed gases, contact Eclipse, Inc.</i>		Natural Gas, Propane or Butane	
Blower Motor Power, Hp		10" w.c. @ 33000 scfh, 1.5 hp	
Weight, lbs (kg)⁵	With Alloy Combustor	240 (109)	
	Without Alloy Combustor	140 (64)	
	Block and Holder with Blower	352 (160)	
	Block and Holder without Blower	251 (114)	
Approvals			

1. Maximum inputs are given for the standard combustion air blower without an 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. See Design Guide 114 for more information about typical fuel composition and properties.

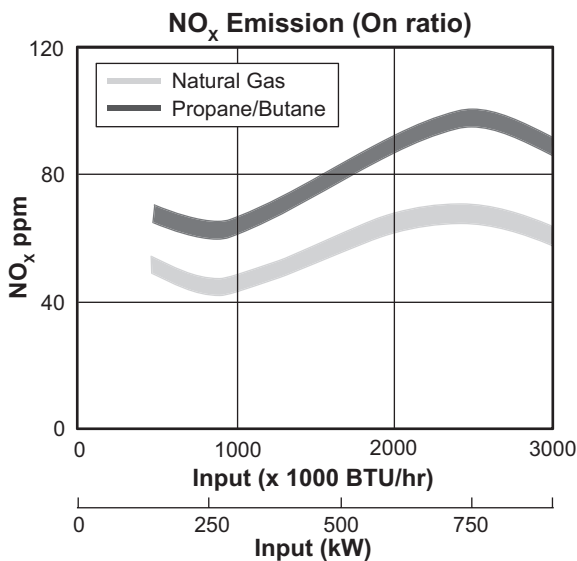
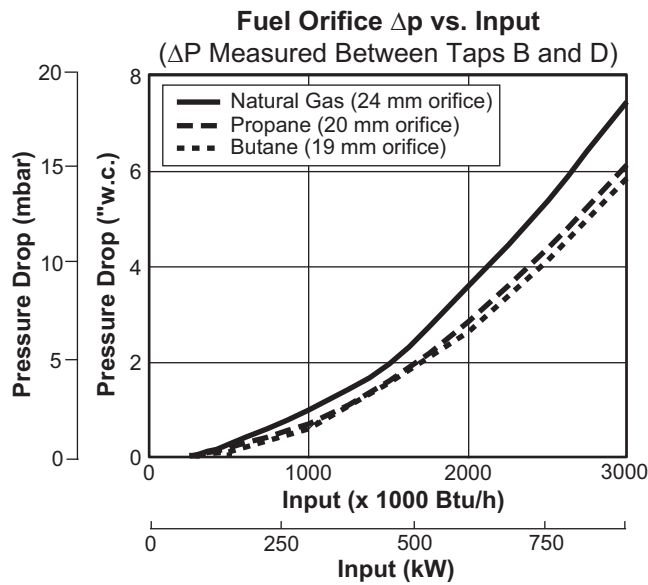
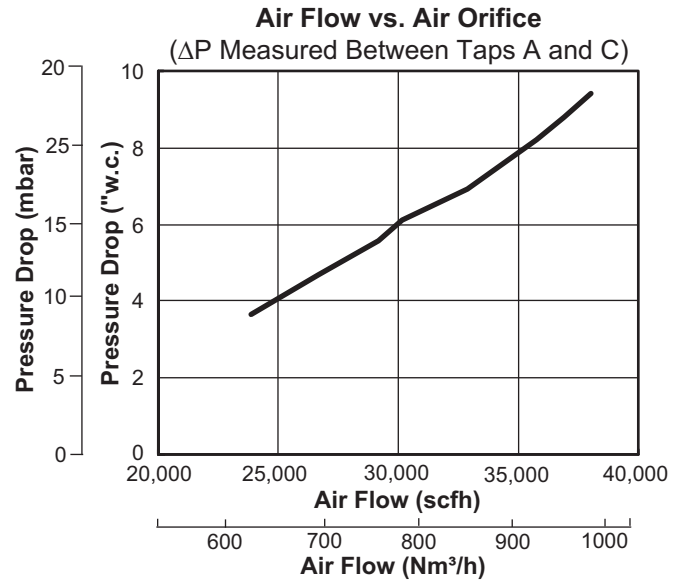
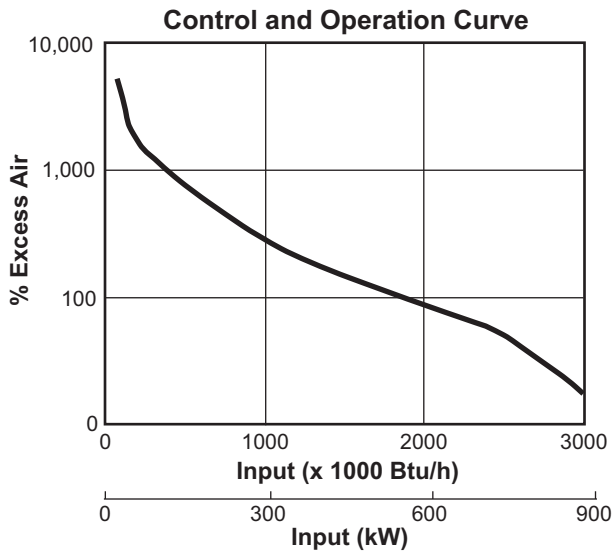
4. All weights are approximate.

- All information based on laboratory testing in neutral (0.0" w.c.) chamber with standard combustion design. Different chamber conditions and/or combustor design will affect the data.

- All inputs are 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



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 are influenced by:

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

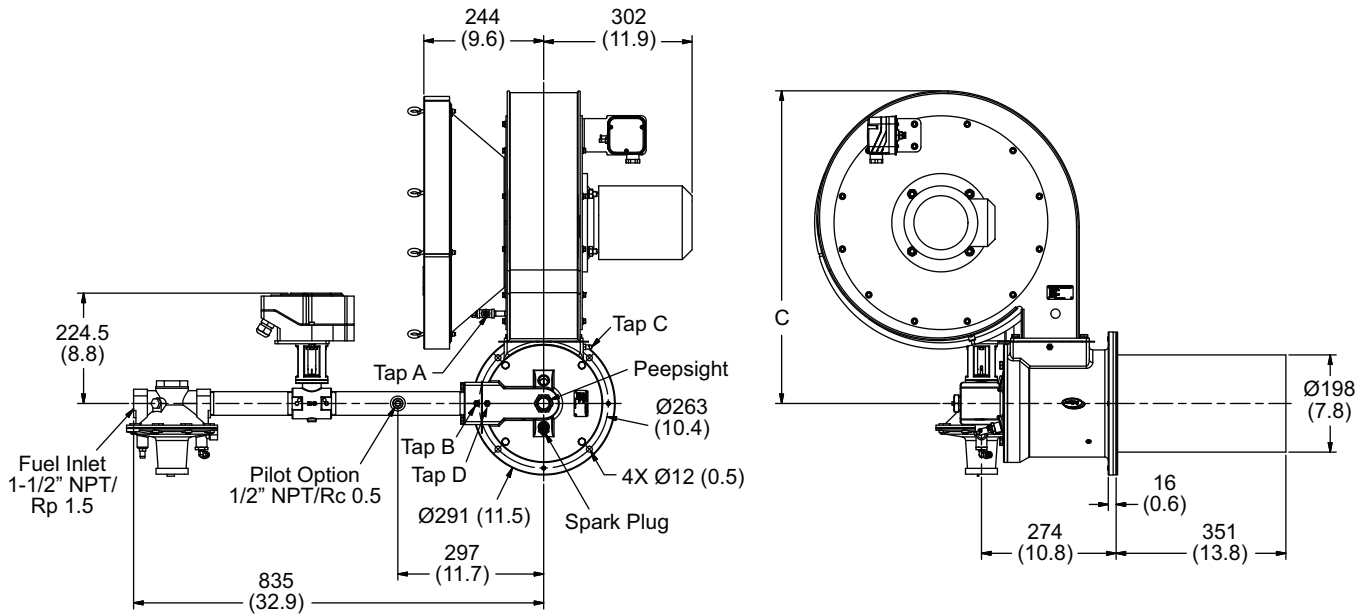
CO emission is largely influenced by chamber conditions. Contact your local Eclipse representative for an estimate of CO emission on your application.

Dimensions and Specifications

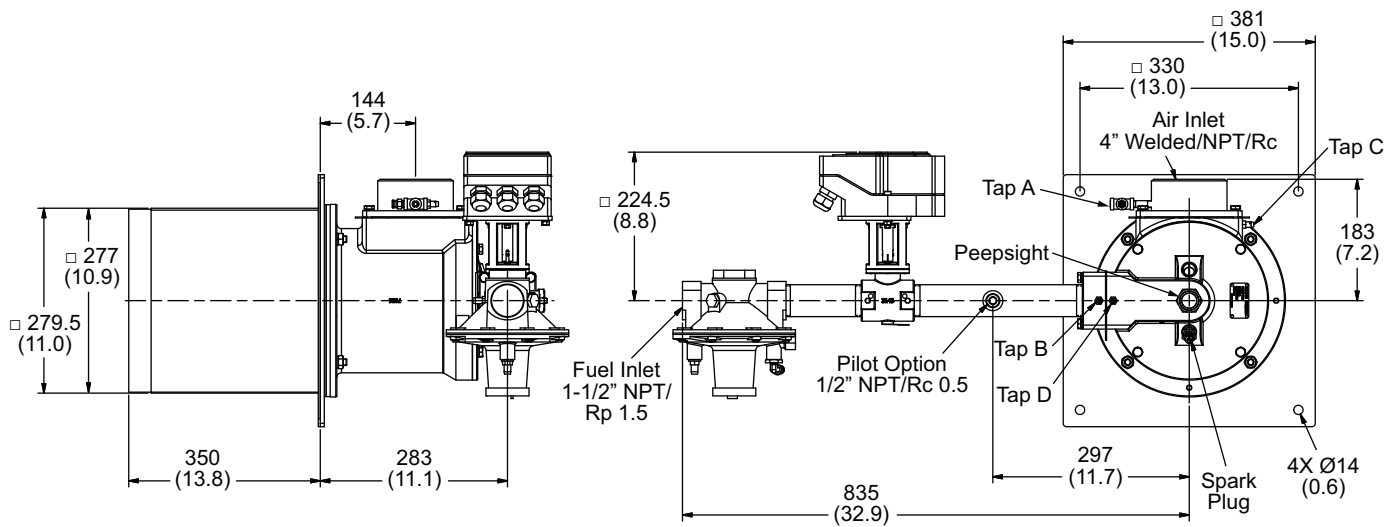
Dimensions in mm (inches)

Blower	C
60 Hz (10" wc)	600 (23.6)
50 Hz (10" wc)	636 (25.0)

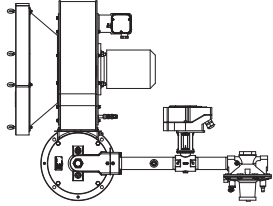
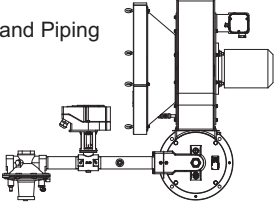
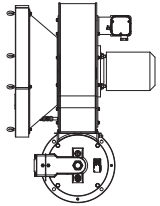
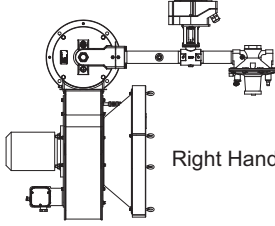
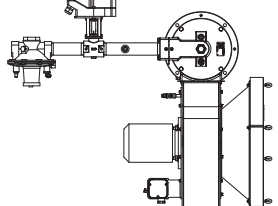
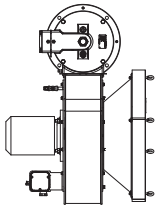
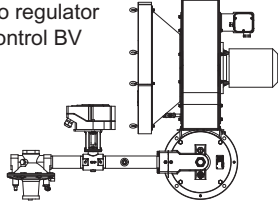
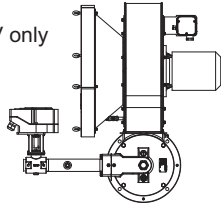
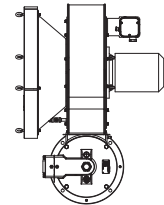
Packaged Blower



Remote Blower (shown with Block and Holder)



Piping

Orientation (All illustrations indicate right hand blower motor.)*		Piping Options
<p style="text-align: center;">Upright</p> <p>Right Hand Piping </p> <p>Left Hand Piping </p> <p>No Piping </p>	<p style="text-align: center;">Inverted</p> <p>Right Hand Piping </p> <p>Left Hand Piping </p> <p>No Piping </p>	<p>With ratio regulator and control BV </p> <p>With control BV only </p> <p>Less ratio regulator and control BV </p>

*Even though the blower motor is on the "left" side of the inverted units, it is still a "right hand" motor in relationship to the blower assembly.