


# Eclipse ThermAir

## Burners

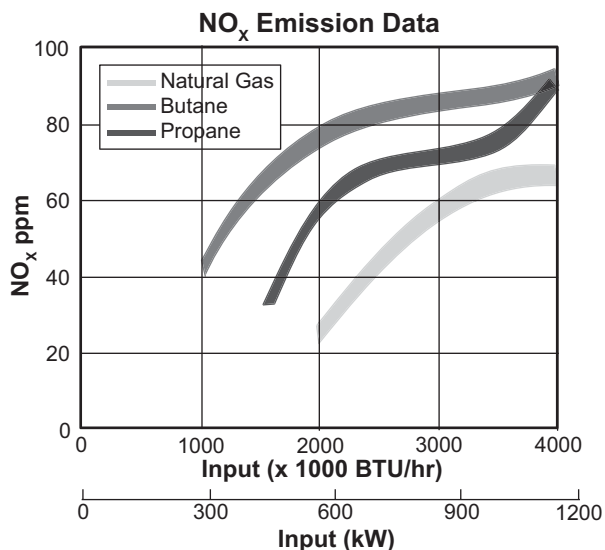
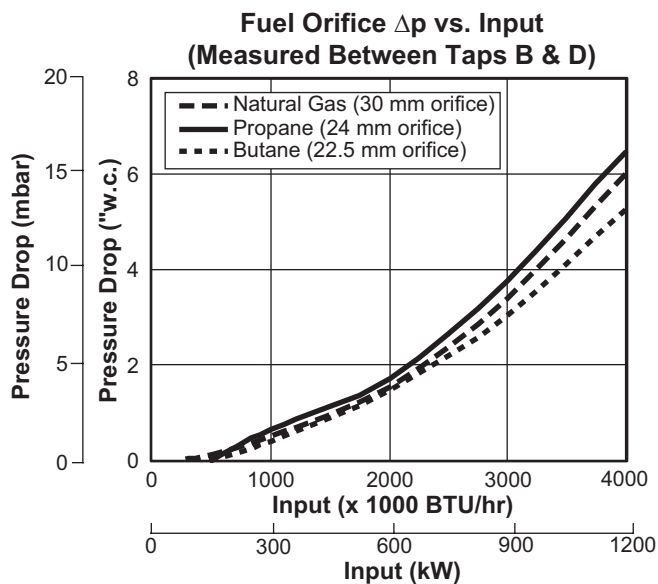
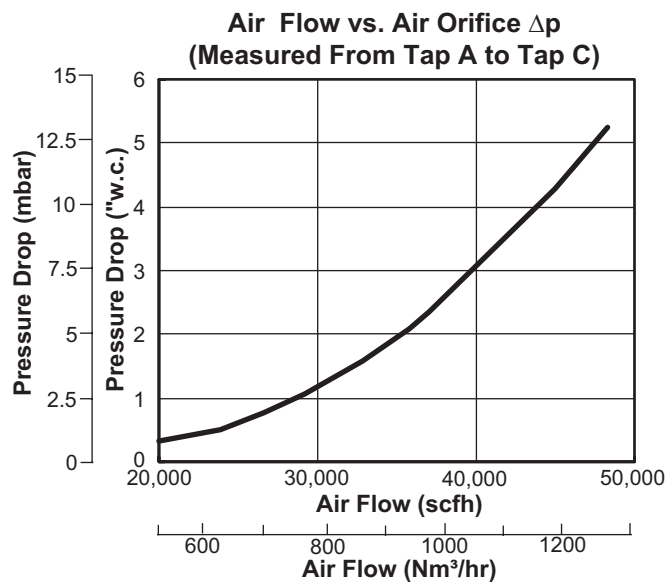
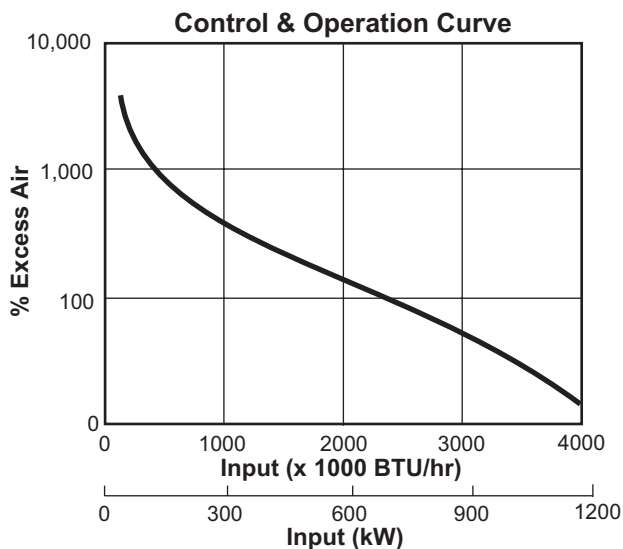
Model TA0400

Version 2

Parameter		Specification	
		Packaged Blower Size	
<b>Maximum Input, BTU/hr (kW)<sup>1 2</sup></b> <i>(To maintain 15% air with the standard air orifice and standard combustion air blower.)</i>	<b>Chamber Pressure "w.c. (mbar)</b>	<b>60 Hz</b>	<b>50 Hz</b>
	-1.0 (-2,5)	4,332,000 (1270)	4,273,000 (1251)
	0.0 (0,0)	4,000,000 (1173)	4,080,000 (1195)
	1.0 (2,5)	3,919,000 (1149)	3,837,000 (1124)
<b>Minimum Input, BTU/hr (kW)</b>		133,000 (39,0)	
<b>Main Gas Inlet Pressure, "w.c. (mbar)<sup>3</sup></b> <i>Fuel pressure in gas inlet (Tap B)</i>		6.5 (16)	
<b>High Fire Flame Length, inches (mm)</b> <i>Measured from outlet end of combustor</i>	Natural Gas	74 (1880)	
	Propane	88 (2235)	
	Butane	90 (2286)	
<b>Maximum Application Temperature, °F (°C)</b> <i>Note: For higher temperatures contact Eclipse.</i>	Alloy Tube	1500 (820)	
	Block and Holder	1900 (1040)	
<b>Flame Detection</b>		UV Scanner	
<b>Fuel<sup>4</sup></b> <i>For any other mixed gases, contact Eclipse</i>		Natural gas, propane, or butane	
<b>Blower Motor Power</b>		10" w.c. @ 44000 scfh, 2 hp	
<b>Weight, lbs (kg)<sup>5</sup></b>	With Alloy Combustor	301 (137)	
	Without Alloy Combustor	200 (91)	
	Block and Holder with Blower	408 (185)	
	Block and Holder without Blower	306 (139)	
<b>Approvals</b>			

- Maximum inputs are given for the standard combustion air blower without an air filter.
- Blower motor service factors greater than 1.0 may be required when firing into negative chamber pressure applications. For specific application questions, contact Eclipse.
- For proper performance, this pressure must be kept constant across the burner operating range.
- See Design Guide 114 for more information about typical fuel composition and properties.
- 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<sub>x</sub> emission data is given for:

- Ambient combustion air ~70°F (20°C)
- Minimal process air velocity
- ppm volume dry at 3% O<sub>2</sub>
- Neutral chamber pressure

### Emissions are influenced by:

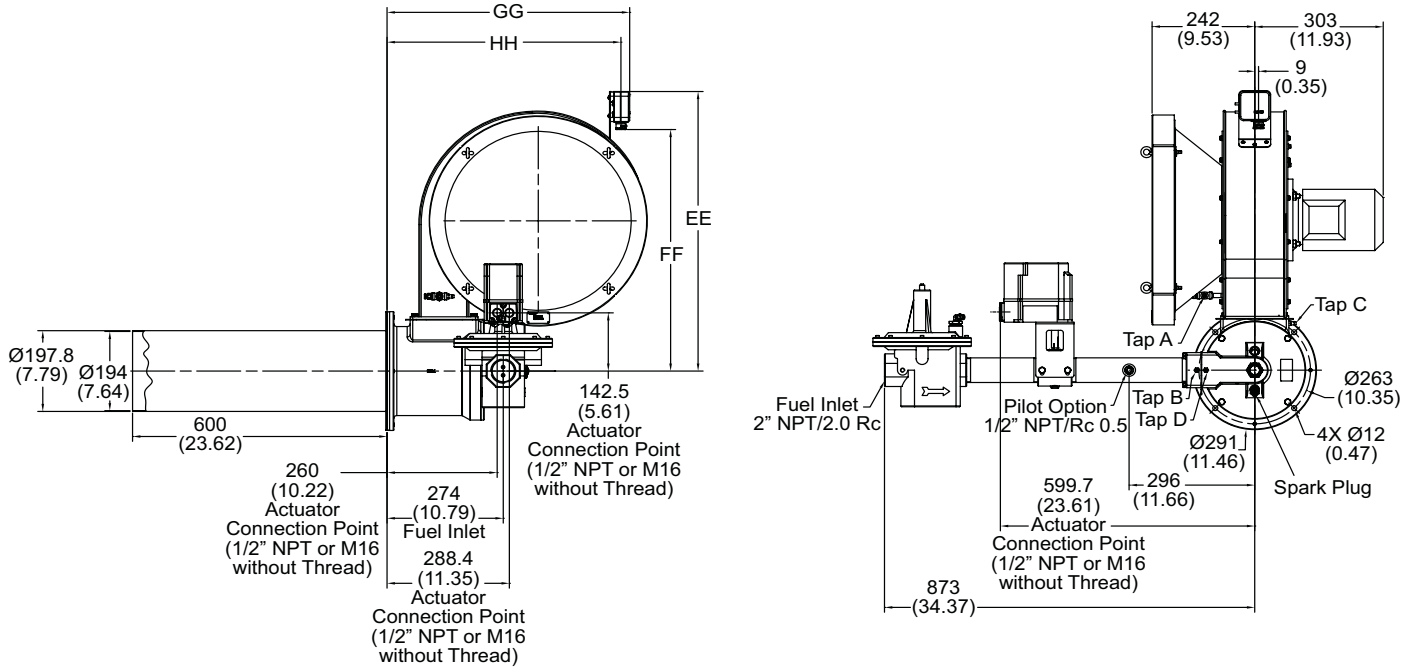
- Chamber conditions
- Fuel type
- Firing rate
- Ratio regulator adjustment
- Combustion air temperature

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

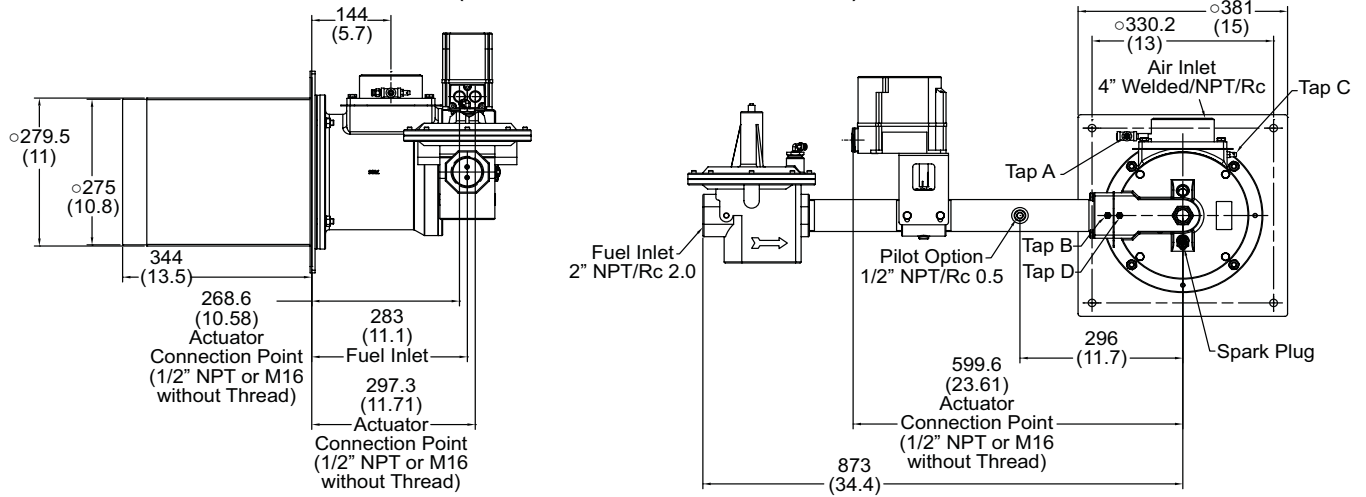
## Dimensions mm (inches)

Blower	EE	FF	GG	HH
60 Hz (10" wc)	703 (27.7)	618 (24.3)	523 (20.6)	503 (19.8)
50 Hz (10" wc)	748 (29.4)	663 (26.1)	578 (22.8)	559 (22.0)

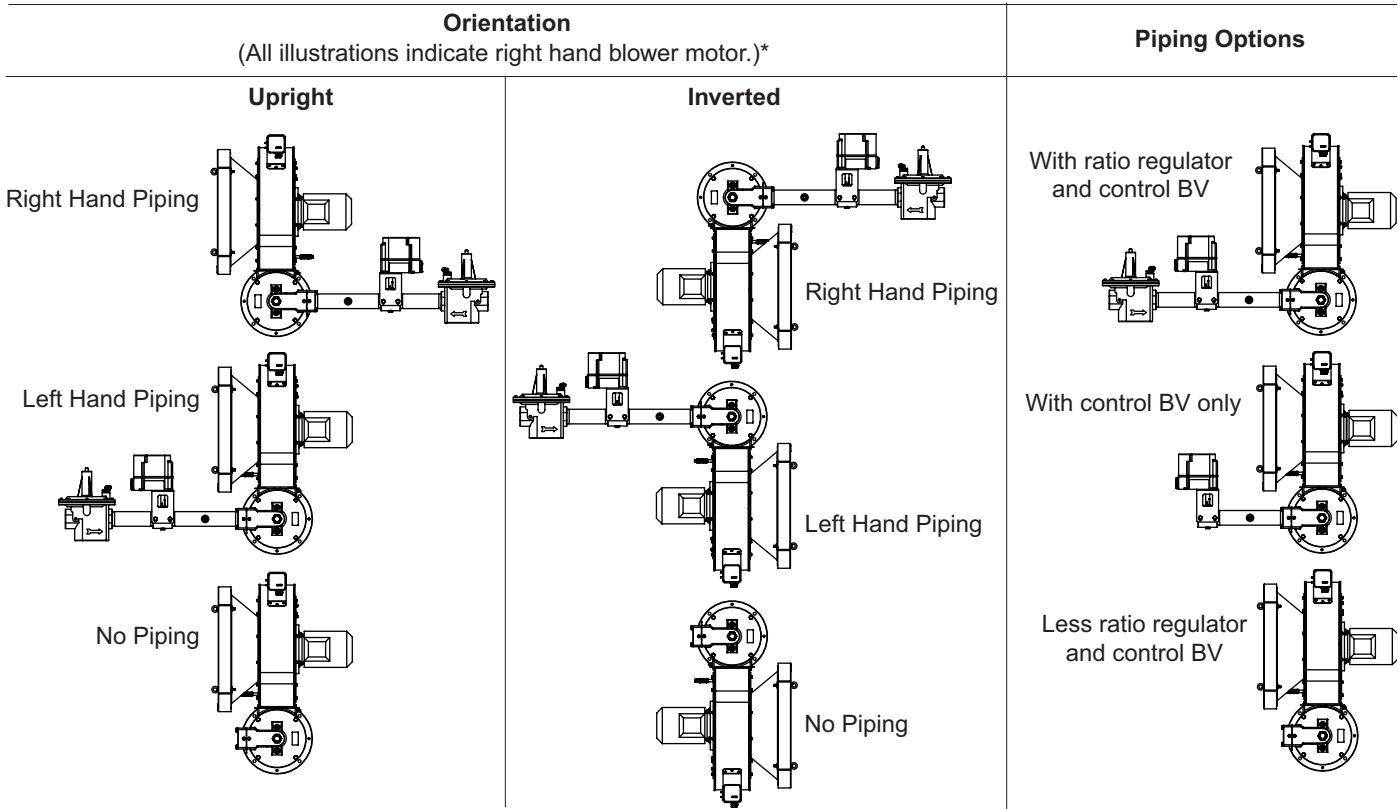
### Packaged Blower



### Remote Blower (shown with Block and Holder)



# Piping



\* 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.



**Offered By:**

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