

# Eclipse ThermAir Burners

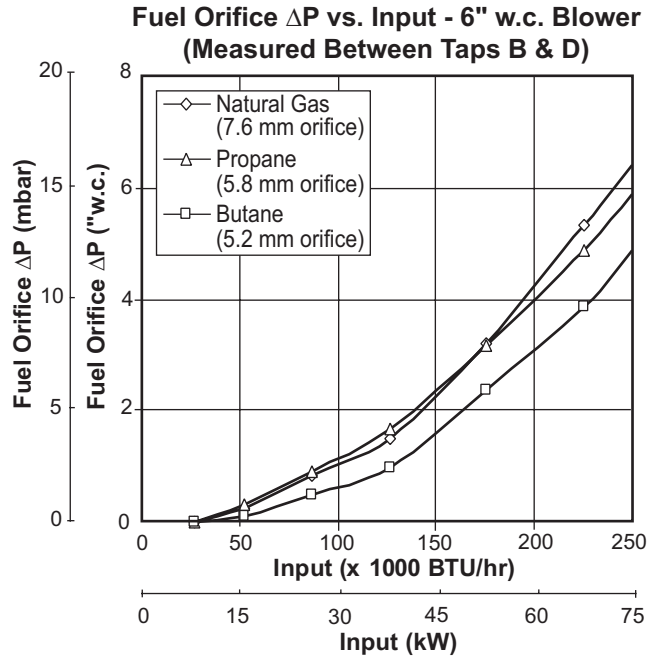
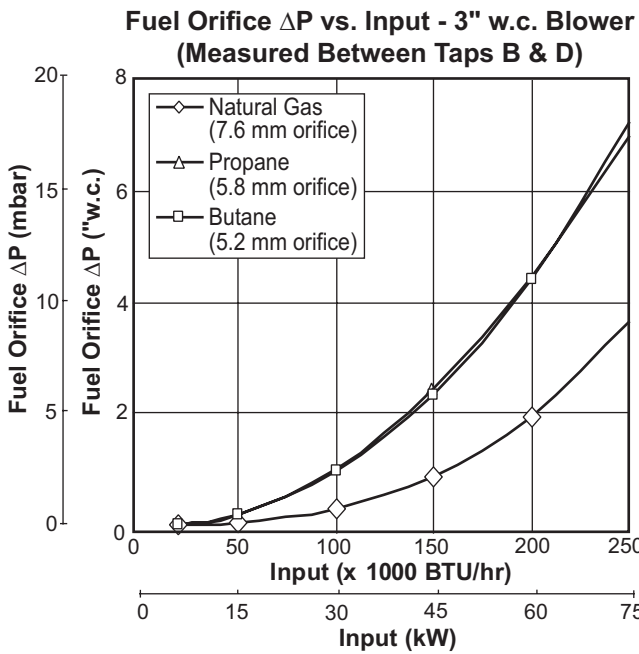
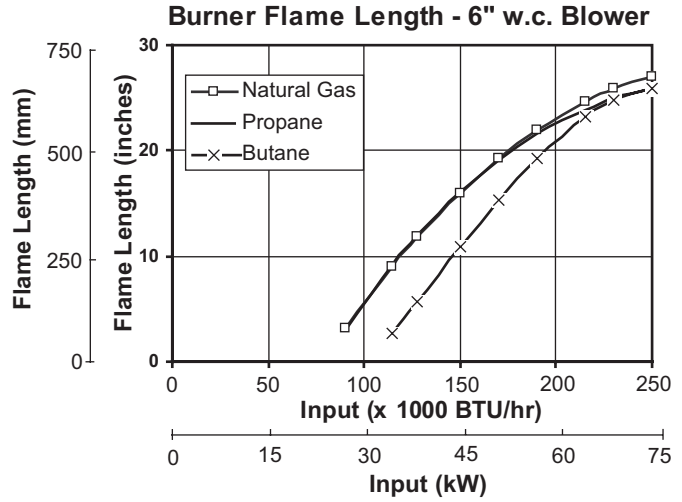
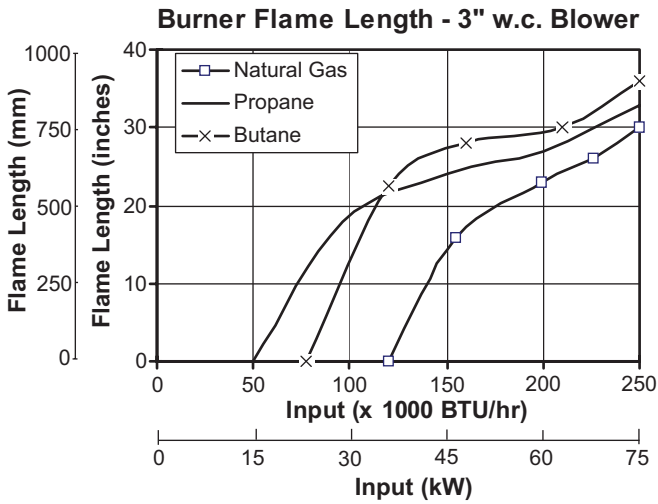
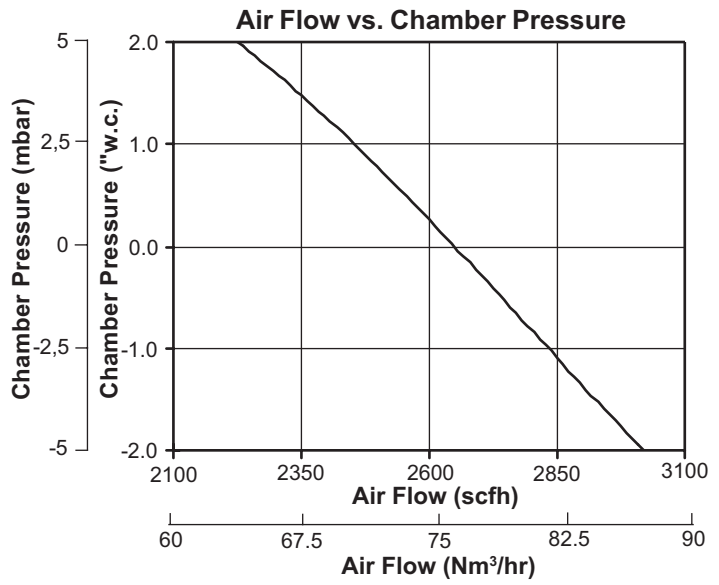
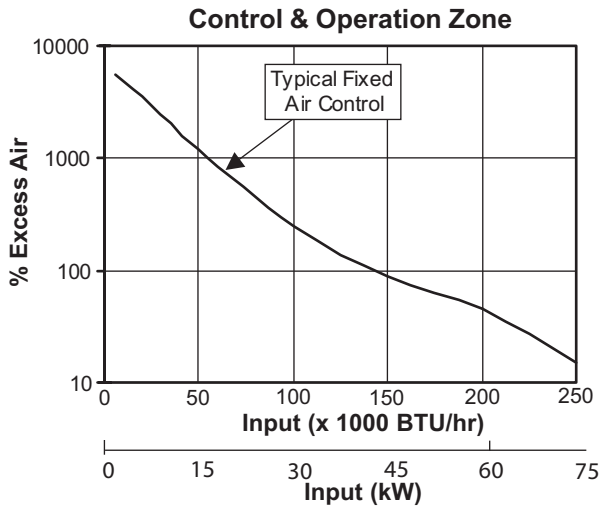
Model TA025  
Version 1

Parameter		Blower Size							
Maximum Input (BTU/hr)	Frequency	3" w.c. Packaged*				6" w.c. Packaged			
		Capacity at Chamber Pressure				Capacity at Chamber Pressure			
	60 Hz Packaged Blower	<b>BTU/hr</b>	<b>" w.c.</b>	<b>kW</b>	<b>mbar</b>	<b>BTU/hr</b>	<b>" w.c.</b>	<b>kW</b>	<b>mbar</b>
		268,000	-1.0	78	-2,5	262,000	-1.0	77	-2,5
		250,000	0.0	73	0,0	250,000	0.0	73	0,0
	50 Hz Packaged Blower	Not Available				260,000	-1.0	76	-2,5
						246,000	0.0	72	0,0
				225,000	1.0	66	2,5		
Minimum Input		<b>BTU/hr</b>		<b>kW</b>		<b>BTU/hr</b>		<b>kW</b>	
<i>Natural Gas, Propane, Butane</i>		6,000		1,8		8,333		2,3	
Main Gas Inlet Pressure		<b>" w.c.</b>		<b>mbar</b>		<b>" w.c.</b>		<b>mbar</b>	
<i>Fuel pressure at gas inlet (Tap B)</i>		3.7		9		6.5		16	
<i>Natural Gas</i>		7.5		19		6.7		17	
<i>Propane</i>		7.8		19		6.6		17	
<i>Butane</i>									
High Fire Flame Length		<b>inches</b>		<b>mm</b>		<b>inches</b>		<b>mm</b>	
<i>Measured from outlet end of combustor</i>		30		762		27		686	
<i>Natural Gas</i>		33		838		27		686	
<i>Propane</i>		36		914		27		686	
<i>Butane</i>									
Maximum Chamber Temperature		<b>Tube</b>		<b>°F</b>		<b>°C</b>			
<i>Note: For higher temperatures, contact Eclipse.</i>		Alloy Tube		1500		820			
		SiC Tube		1900		1040			
Flame Detection		Flame rod or UV scanner							
Fuel		Natural gas, propane, or butane <i>For any other gas, contact Eclipse.</i>							

\* Ratio regulator is not available with 3" blower.

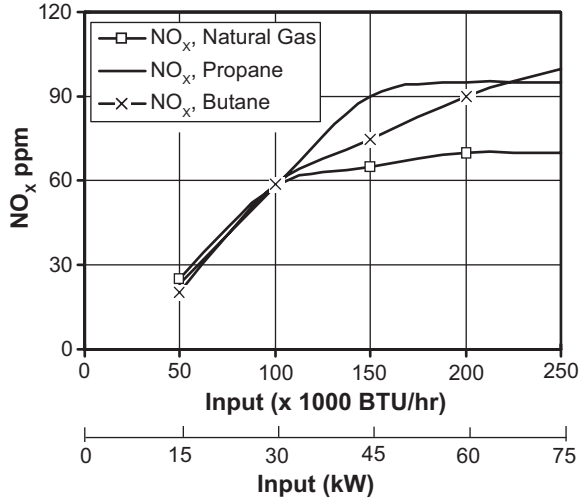
- All information is based on laboratory testing in neutral (0.0" w.c.) chamber with standard combustion design. Different chamber conditions and/or combustor design will affect the data.
- Maximum inputs are given for the standard combustion air blower without an air filter.
- All inputs based upon 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.

## Performance Graphs



# Performance Graphs

## NO<sub>x</sub> Emission Data



### Notes on Emission Data

#### NO<sub>x</sub> emission data is given for:

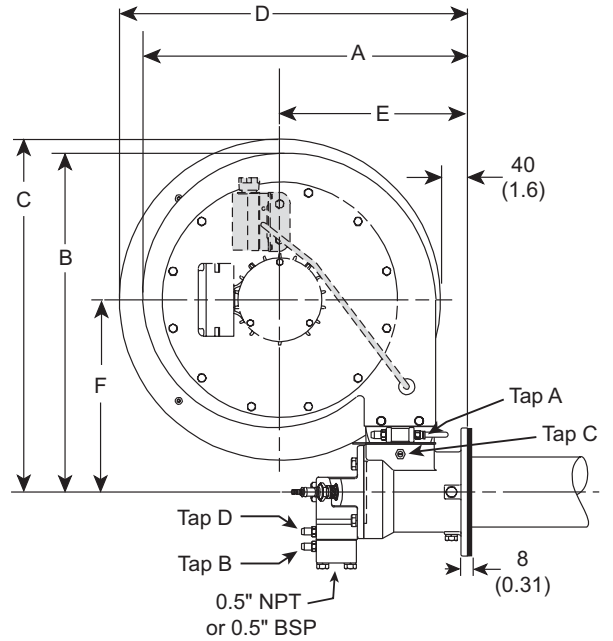
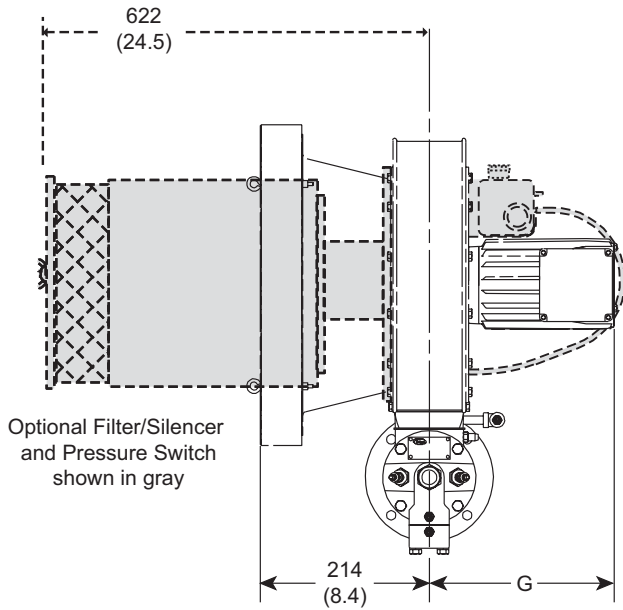
- Ambient combustion air ~70° F (20° C)
- Minimal process air velocity
- ppm volume dry at 3% O<sub>2</sub>
- Neutral chamber pressure

#### Emissions are influenced by:

- Chamber conditions
- Fuel type
- Firing rate
- Combustion air temperature

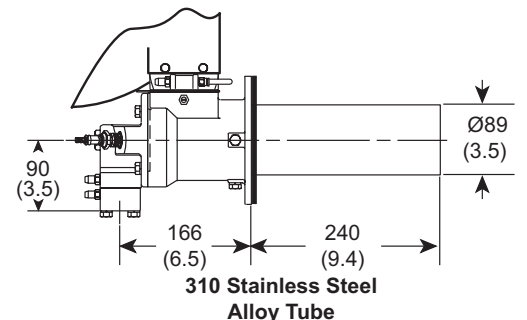
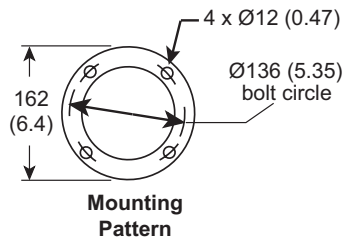
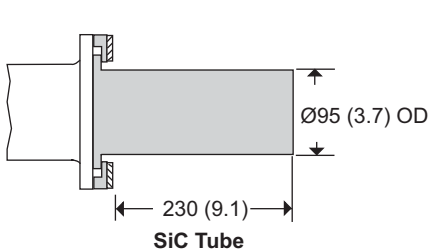
**CO emission is largely influenced by chamber conditions. Contact Eclipse for an estimate of CO emission on your application.**

## Dimensions mm (inches)

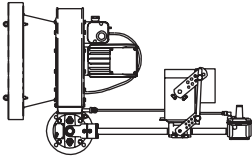
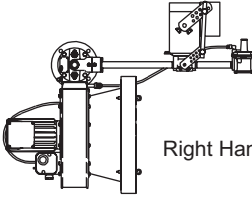
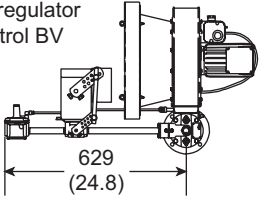
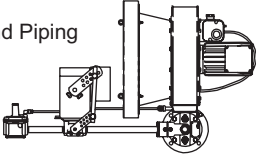
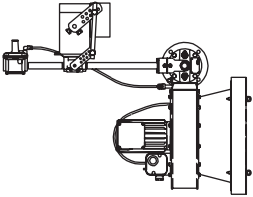
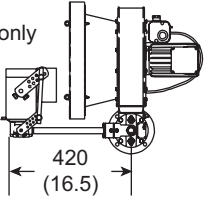
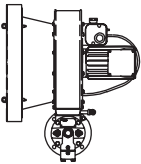
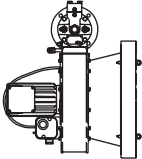
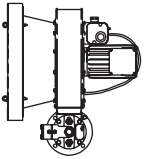


Port Connection		
Spark Plug	14mm	
Flamerod or Scanner	0.5" NPT	
Peepsight	0.75" NPT	
Weights		
	lbs	kg
Burner with blower	65	29
Burner less blower	24	11
Filter/Silencer	21	10

Hz	A		B		C		D		E		F		G	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
50	469	18.5	498	19.6	N/A	N/A	N/A	N/A	265	10.4	283	11.1	285	11.2
60	411	16.2	429	16.9	447	16.9	440	17.3	237	9.3	243	9.6	234	9.2
Blower 3" w.c.														
60	329	12.9	360	14.2	N/A	N/A	N/A	N/A	198	7.8	209	8.2	179	7.0



# Piping

Orientation		Piping Options
<b>Upright</b>	<b>Inverted</b>	
<p>Right Hand Piping</p> 	<p>Right Hand Piping</p> 	<p>With ratio regulator and control BV</p>  <p>629 (24.8)</p>
<p>Left Hand Piping</p> 	<p>Left Hand Piping</p> 	<p>With control BV only</p>  <p>420 (16.5)</p>
<p>No Piping</p> 	<p>No Piping</p> 	<p>Less ratio regulator and control BV</p> 



**Offered By:**

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