



# ThermAir Burners

Model TA025

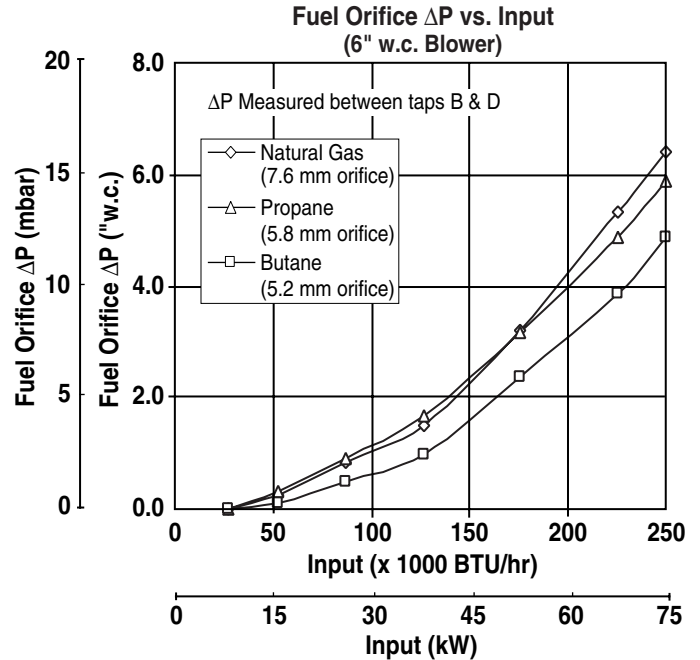
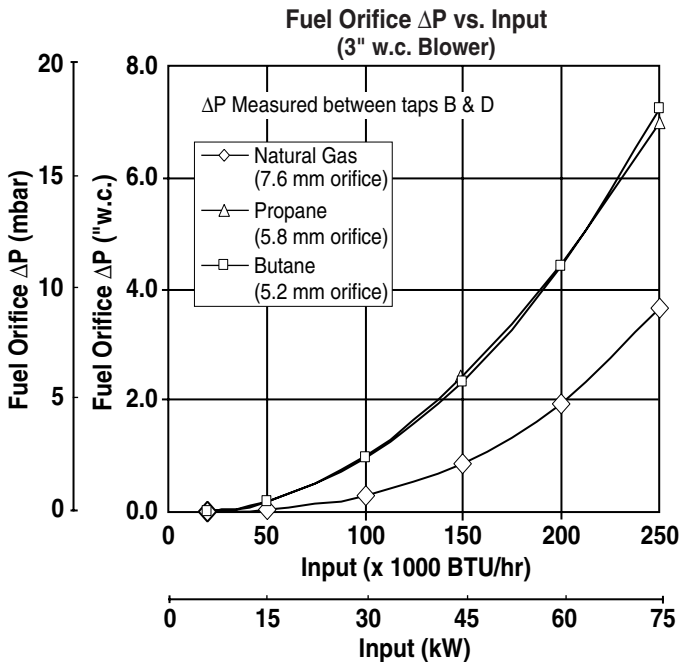
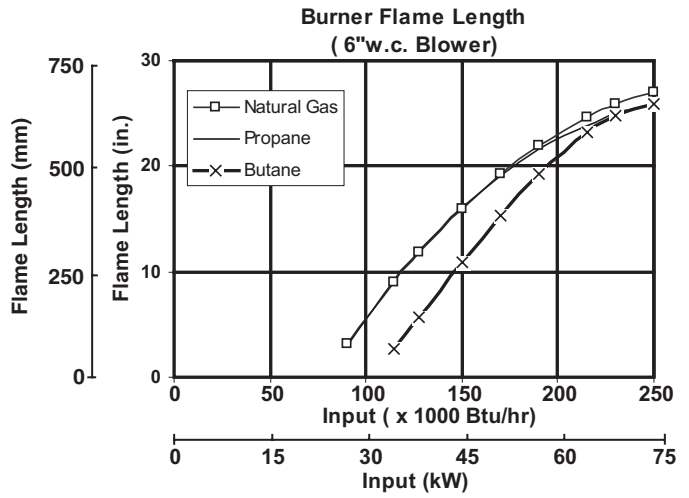
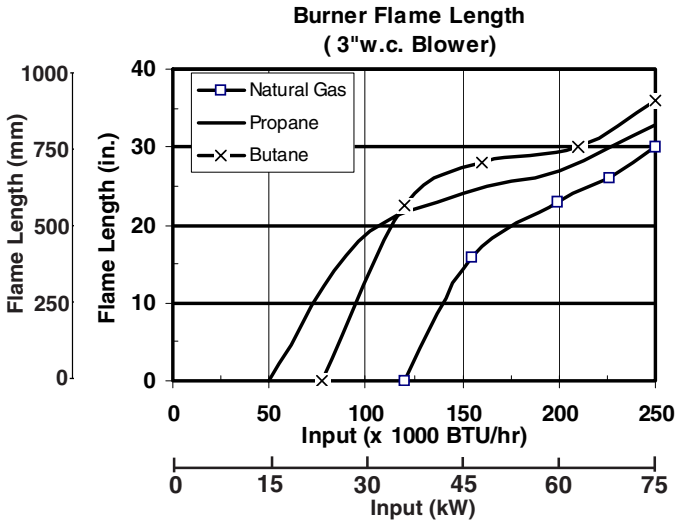
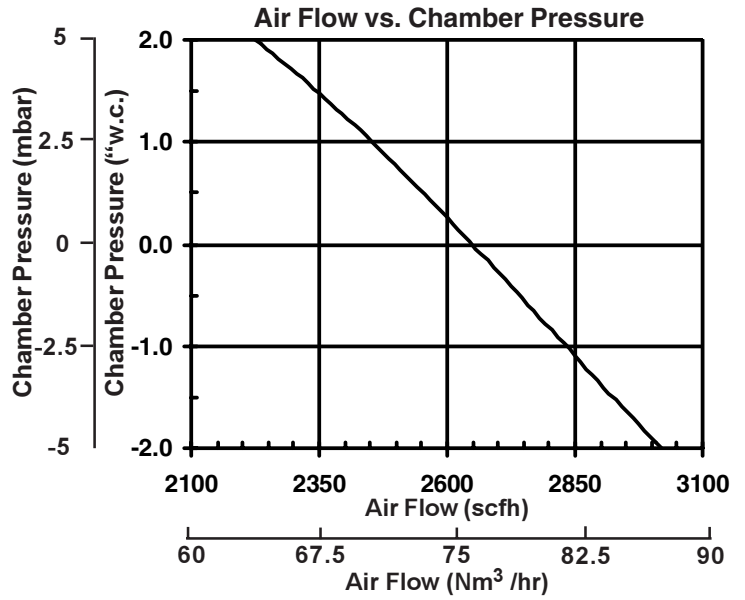
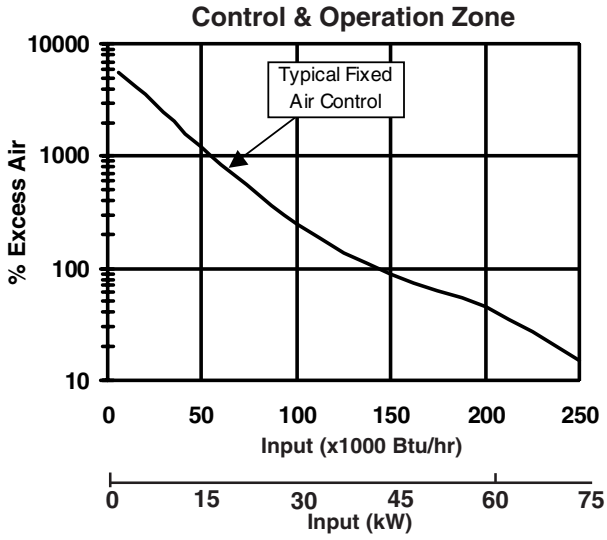
Version 1.10

## Main Specification – TA025

PARAMETER	BLOWER SIZE								
	Frequency	3"w.c. Packaged				6"w.c. Packaged			
Maximum input (Btu/hr)		Capacity at Chamber Pressure				Capacity at Chamber Pressure			
		BTU/hr	"w.c.	kW	mbar	BTU/hr	"w.c.	kW	mbar
	60 Hz Packaged Blower	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
		230,000	1.0	67	2,5	226,000	1.0	66	2,5
	50 Hz Packaged Blower	<b>Not Available</b>				260,000	-1.0	76	-2,5
		<b>Not Available</b>				246,000	0.0	72	0,0
		<b>Not Available</b>				225,000	1.0	66	2,5
Minimum input Natural gas, Propane/Butane		<b>BTU/hr</b>	<b>kW</b>		<b>BTU/hr</b>	<b>kW</b>			
		6,000	1,8		8,333	2,3			
Main Gas Inlet Pressure • Fuel pressure at gas inlet (Tap "B")		<b>" w.c.</b>	<b>mbar</b>		<b>" w.c.</b>	<b>mbar</b>			
	Natural gas	3.7	9		6.5	16			
	Propane	7.5	19		6.7	17			
	Butane	7.8	19		6.6	17			
High Fire Flame Length • Measured from the outlet end of combustor		<b>inches</b>	<b>mm</b>		<b>inches</b>	<b>mm</b>			
	Natural gas	30	762		} 27	686			
	Propane	33	838						
	Butane	36	914						
Maximum Chamber Temperature (Alloy & SIC Tubes) <i>Note: For higher temperatures, contact Eclipse.</i>		<b>°F</b>	<b>°C</b>		1500	820			
Flame Detection	Flame rod or UV scanner								
Fuel	Natural gas, Propane, or Butane. <i>For any other mixed gas, contact Eclipse Combustion for orifice sizing</i>								

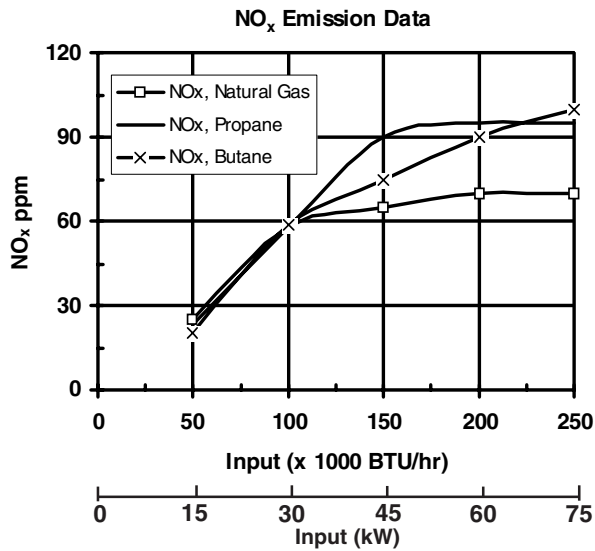
- All information is based on laboratory testing in neutral (0.0"w.c.) chamber with standard combustor design. Different chamber conditions and/or combustor design will affect the data.
- Maximum inputs are given for the standard combustion air blower without an air filter.
- All inputs based upon gross 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 your Eclipse Combustion representative.
- 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 ThermAir TA025



## Performance Graphs (Continued)

### ThermAir TA025



#### Notes on emission data

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

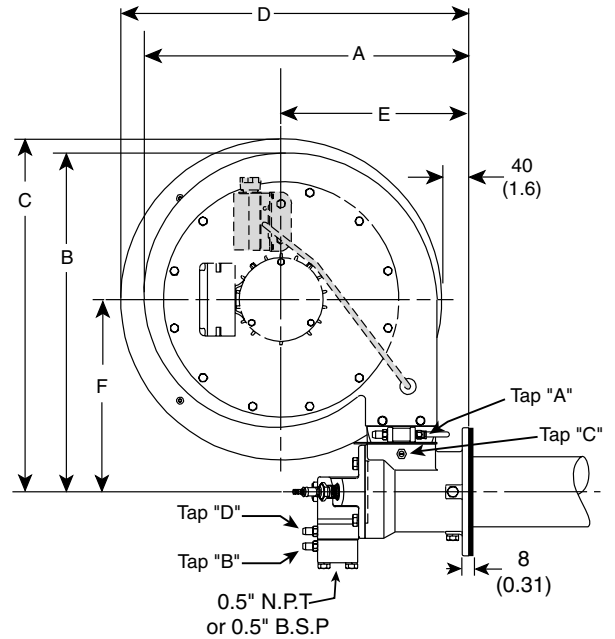
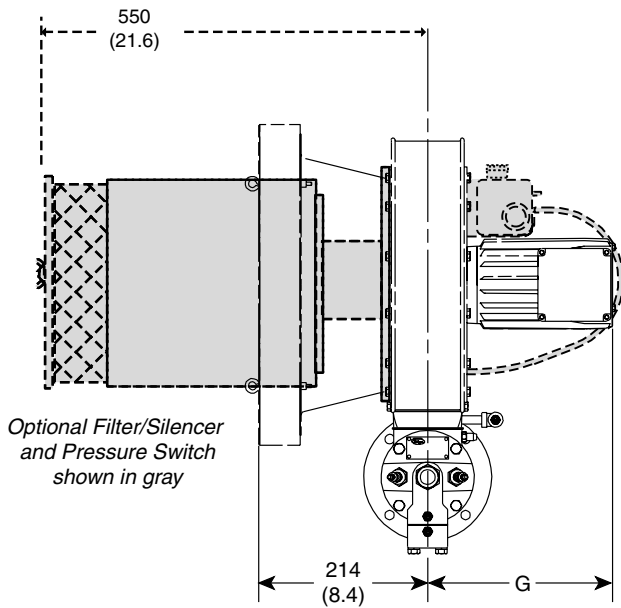
- Ambient combustion air ~70° F (20° C)
- Minimal process air velocity
- ppm volume dry at 3% O<sub>2</sub>
- Neutral chamber pressure

**Emissions are influenced by:**

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

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

### Dimensions-TA025



Port Connection	
Sparkplug	14mm
Flamerod or scanner	0.5" N.P.T.
Peepsight	0.75" N.P.T.

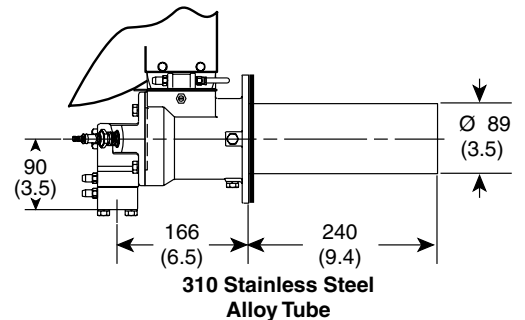
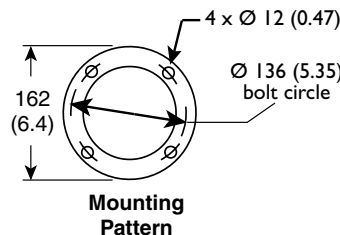
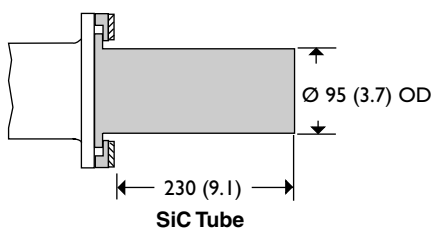
  

Weights		
	lb	kg
Burner, w/ blower	65	29
Burner, less blower	24	11
Filter/Silencer	21	10

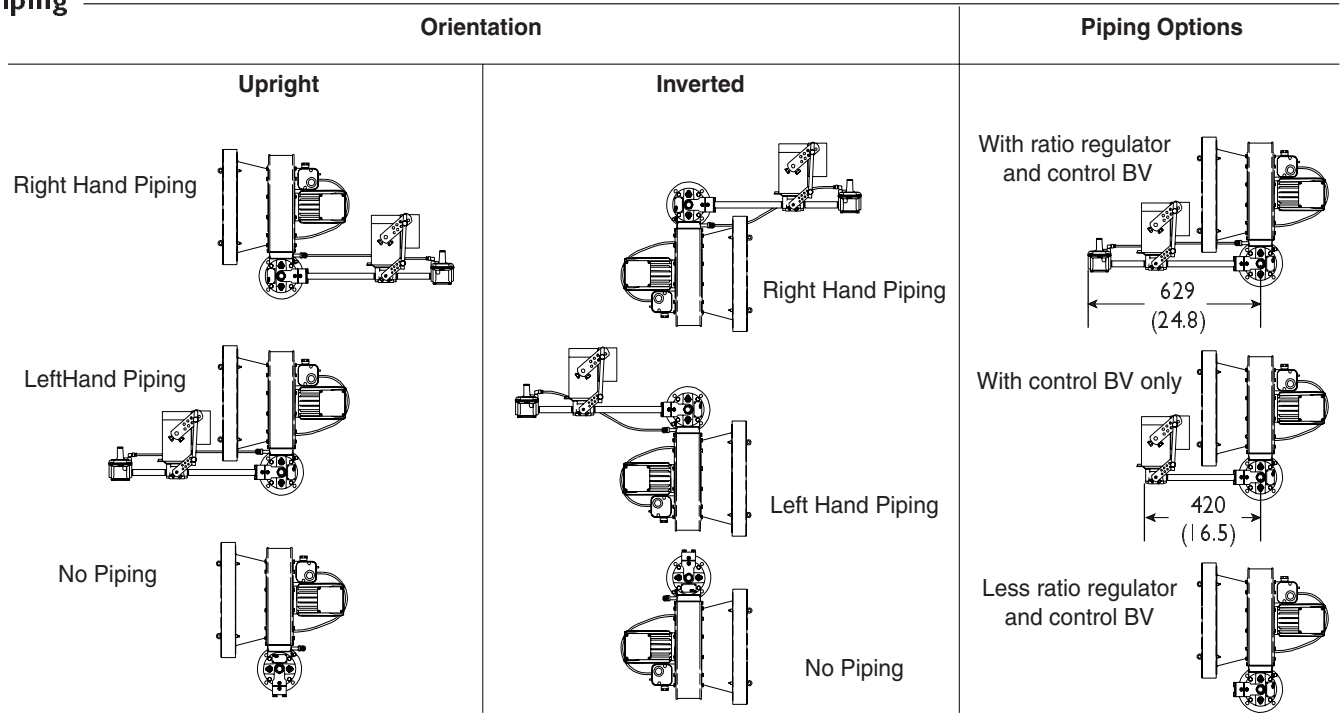
Blower 6" w.c.														
	A		B		C		D		E		F		G	
H <sub>z</sub>	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
50	469	18.5	498	19.6	N/A	N/A	N/A	N/A	265	10.4	283	11.1	285	11.2
60	411	16.2	429	16.9	447	16.9	440	17.3	237	9.3	243	9.6	234	9.2

Blower 3" w.c.														
	A		B		C		D		E		F		G	
H <sub>z</sub>	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
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



**Eclipse Combustion**



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[www.peconet.com](http://www.peconet.com)