



# ThermAir Burners

Model TA075

Version 1.10

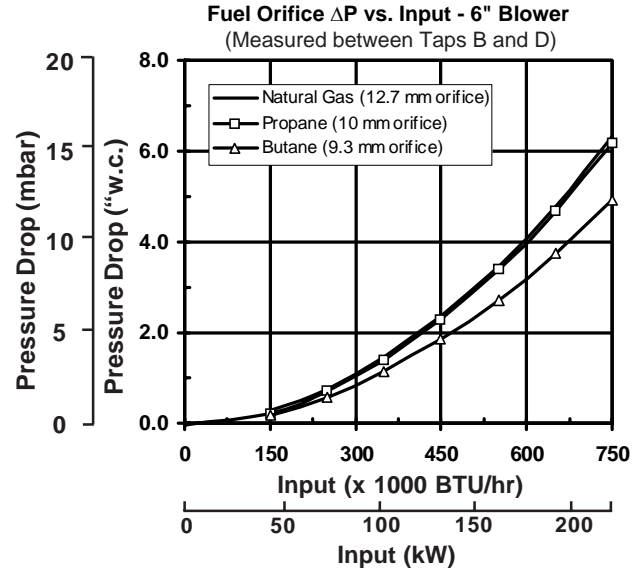
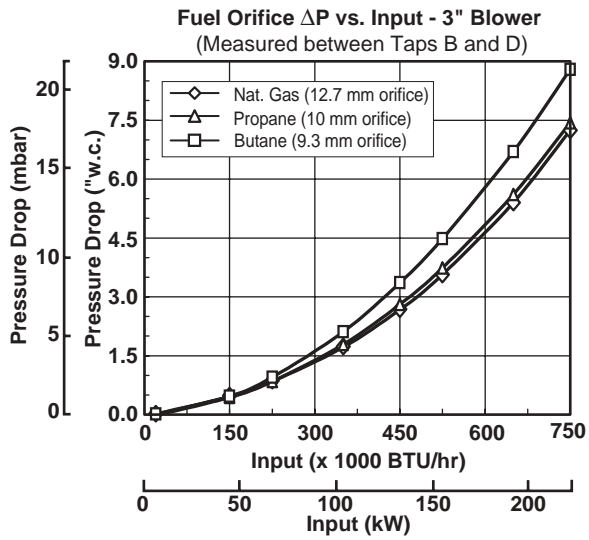
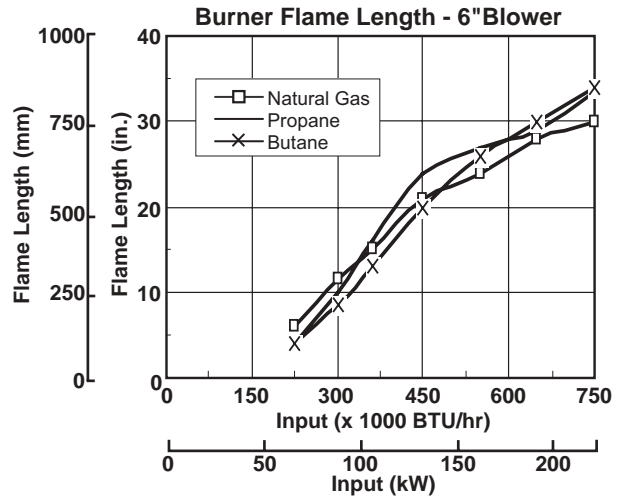
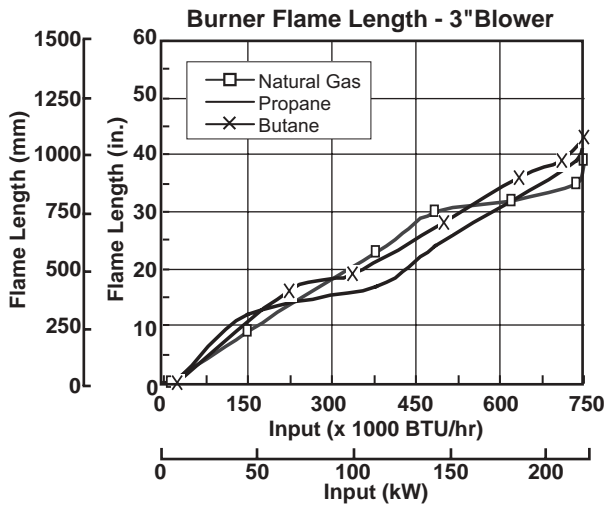
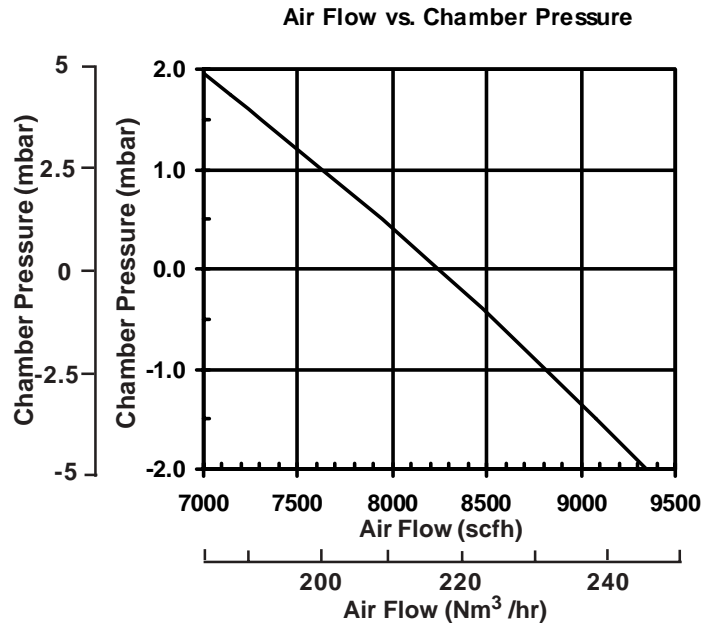
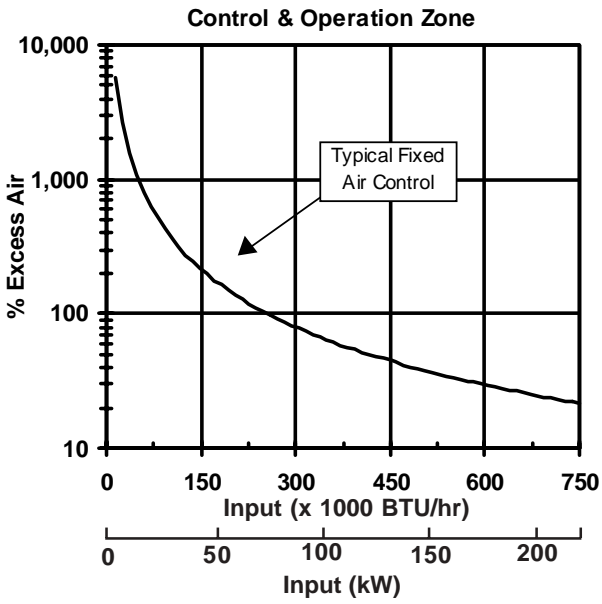
## Main Specification – TA075

PARAMETER	BLOWER SIZE								
	Frequency	3"w.c. Packaged				6"w.c. Packaged			
Maximum input (Btu/hr) <i>(To maintain 15% excess air with standard air orifice and standard combustion air blower)</i>		Capacity at Chamber Pressure							
	BTU/hr				BTU/hr				
	"w.c.				"w.c.				
	kW				kW				
	mbar				mbar				
	60 Hz Packaged Blower	805,000	-1.0	236	-2,5	814,000	-1.0	238	-2,5
		750,000	0.0	220	0,0	750,000	0.0	220	0,0
		691,000	1.0	202	2,5	705,000	1.0	206	2,5
	50 Hz Packaged Blower	Not Available				822,000	-1.0	241	-2,5
						771,000	0.0	226	0,0
					716,000	1.0	210	2,5	
Minimum input	<b>BTU/hr</b> <b>kW</b>				<b>BTU/hr</b> <b>kW</b>				
Natural gas	14,000    4,1				25,000    7,3				
Propane	18,000    5,3				25,000    7,3				
Butane	23,000    6,7				25,000    7,3				
Main Gas Inlet Pressure	<b>" w.c.</b> <b>mbar</b>				<b>" w.c.</b> <b>mbar</b>				
• Fuel pressure at gas inlet (Tap "B")	Natural gas				Natural gas				
	6.6    16,4				6.5    16				
	Propane				Propane				
	7.2    17,9				6.8    17				
	Butane				Butane				
	8.0    19,9				6.9    17				
High Fire Flame Length	<b>inches</b> <b>mm</b>				<b>inches</b> <b>mm</b>				
• Measured from the outlet end of combustor	Natural gas				Natural gas				
	39    990				30    762				
	Propane				Propane				
	43    1092				32    813				
	Butane				Butane				
	43    1092				32    813				
Maximum Chamber Temperature	<b>°F</b> <b>°C</b>				<b>°F</b> <b>°C</b>				
Alloy Tube	1500				820				
SIC Tube	1900				1038				
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

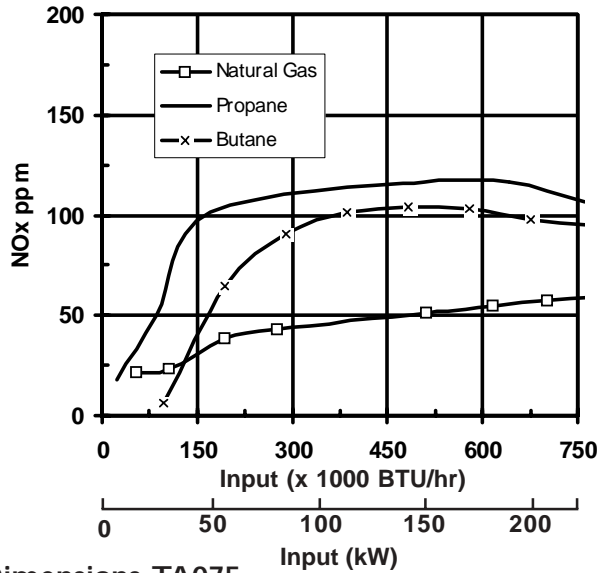
## ThermAir TA075



# Performance Graphs (Continued)

ThermAir TA075

NOx Emission Data



## Notes on emission data

NOx emission data is given for:

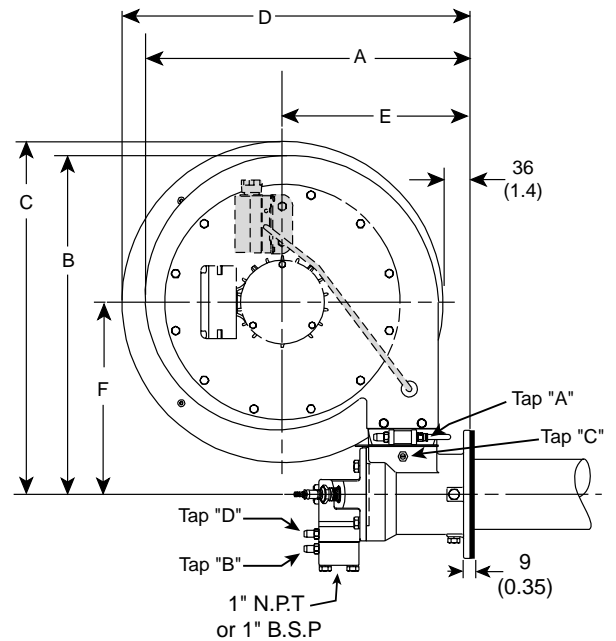
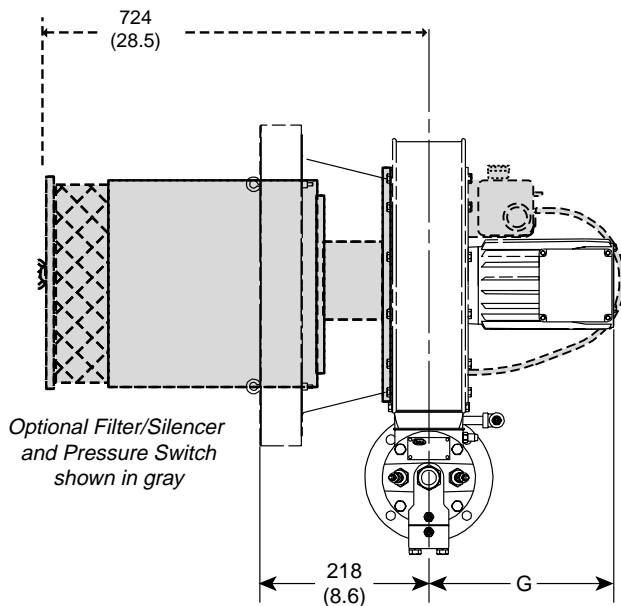
- Ambient combustion air ~70° F (20° C)
- Minimal process air velocity
- ppm volume dry at 3% O<sub>2</sub>
- Neutral chamber pressure

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-TA075



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

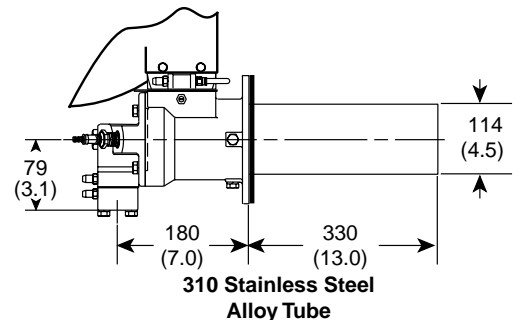
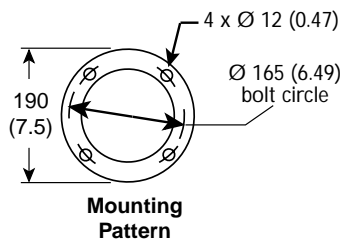
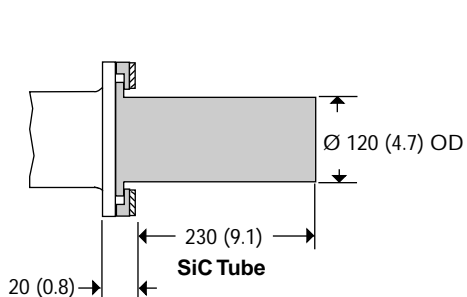
  

Weights		
	lb	kg
Burner, w/ blower	78	35
Burner, less blower	31	14
Filter/Silencer	41	19

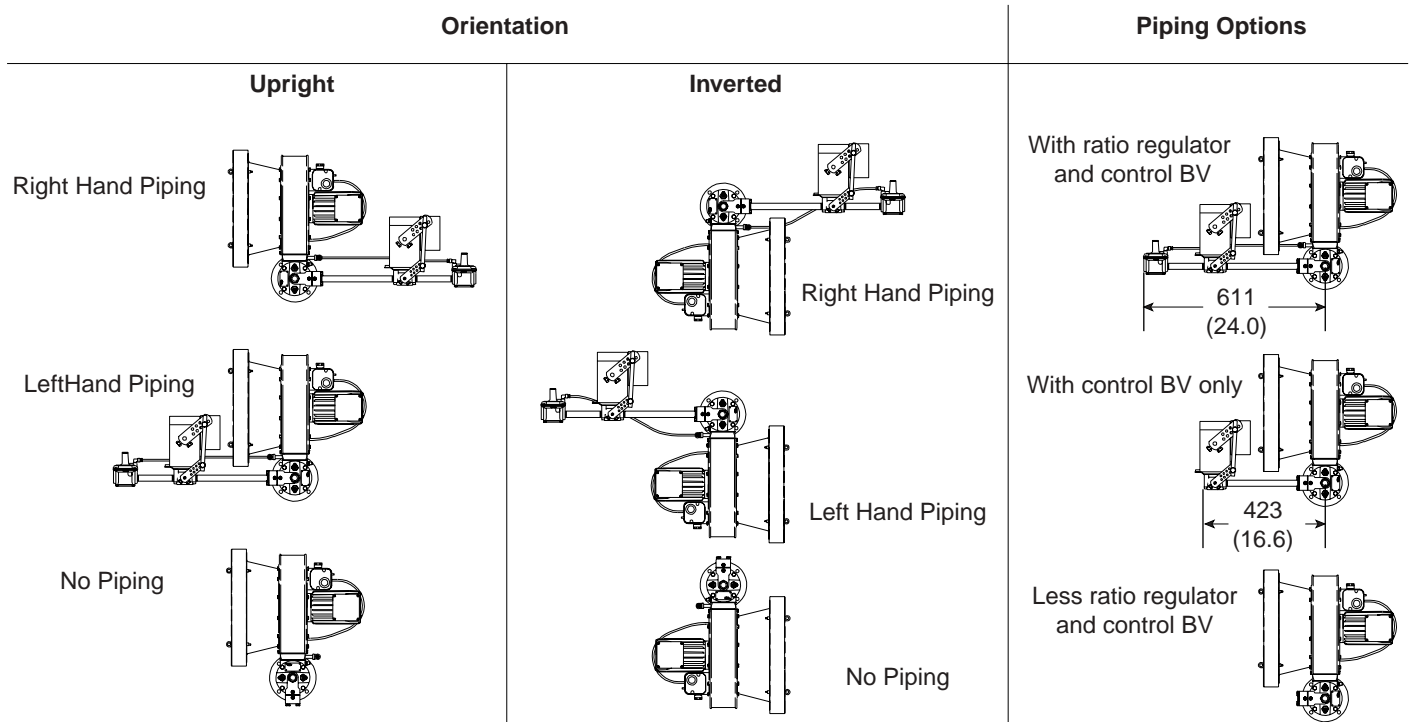
Blower 6" w.c.														
	A		B		C		D		E		F		G	
Hz	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
50	484	19.0	532	20.9	N/A	N/A	N/A	N/A	272	10.7	309	12.2	291	11.5
60	424	16.7	473	18.6	482	19.0	447	17.6	243	9.5	279	11.0	291	11.5

Blower 3" w.c.														
	A		B		C		D		E		F		G	
Hz	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
60	338	13.3	393	15.5	N/A	N/A	N/A	N/A	202	7.9	234	9.2	192	7.6



# Piping



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