



ThermAir Burners

Model TA075

Version 1.10

Main Specification – TA075

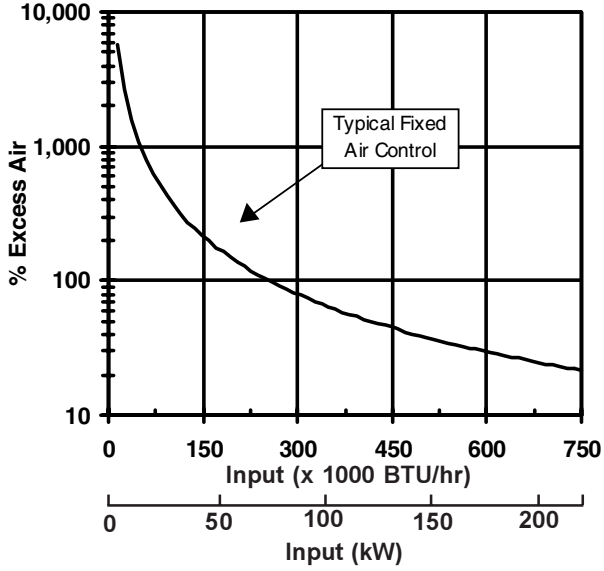
PARAMETER	BLOWER SIZE								
	Frequency	3"w.c. Packaged				6"w.c. Packaged			
Maximum input (Btu/hr) <i>(To maintain 15% excess air with standard air orifice and standard combustion air blower)</i>		Capacity at Chamber Pressure							
	BTU/hr				BTU/hr				
	"w.c.				"w.c.				
	kW				kW				
	mbar				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	BTU/hr kW				BTU/hr kW				
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	" w.c. mbar				" w.c. mbar				
• Fuel pressure at gas inlet (Tap "B")	Natural gas 6.6 16,4				Natural gas 6.5 16				
	Propane 7.2 17,9				Propane 6.8 17				
	Butane 8.0 19,9				Butane 6.9 17				
High Fire Flame Length	inches mm				inches mm				
• Measured from the outlet end of combustor	Natural gas 39 990				Natural gas 30 762				
	Propane 43 1092				Propane 32 813				
	Butane 43 1092				Butane 32 813				
Maximum Chamber Temperature (Alloy & SIC Tubes) <i>Note: For higher temperatures, contact Eclipse.</i>	°F				°C				
	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.

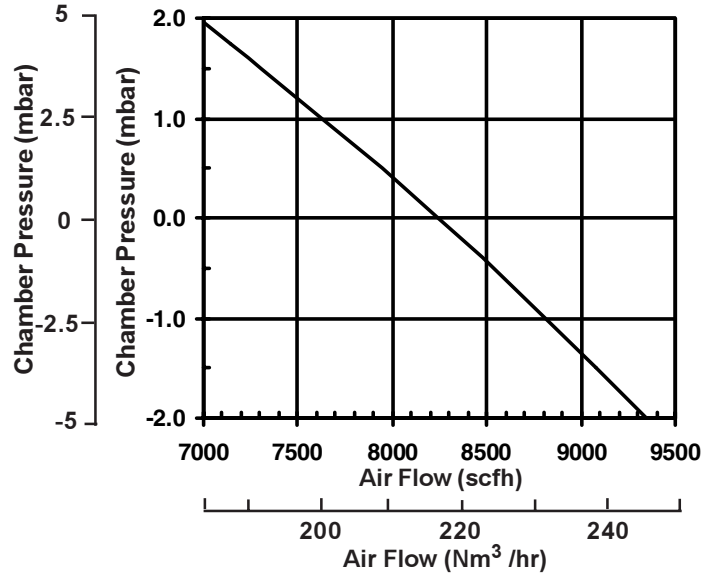
Performance Graphs

ThermAir TA075

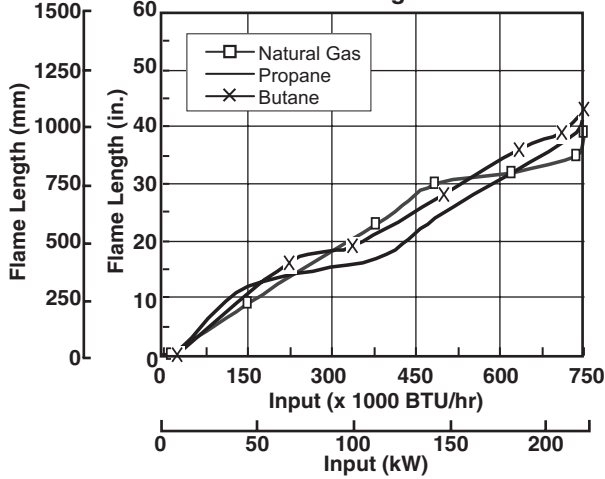
Control & Operation Zone



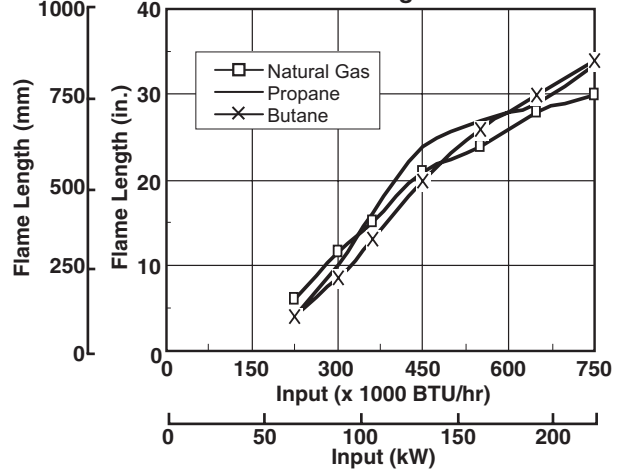
Air Flow vs. Chamber Pressure



Burner Flame Length - 3" Blower

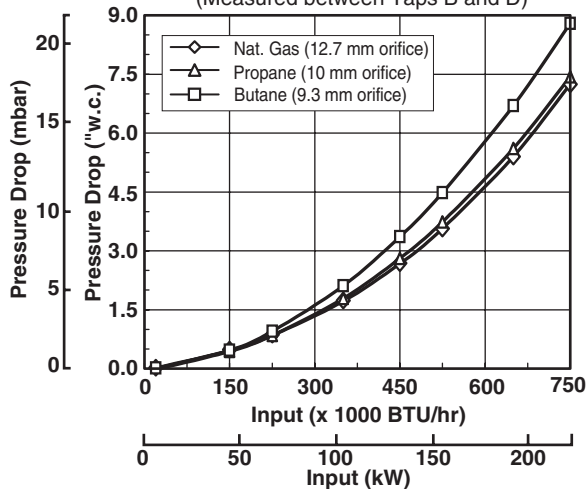


Burner Flame Length - 6" Blower



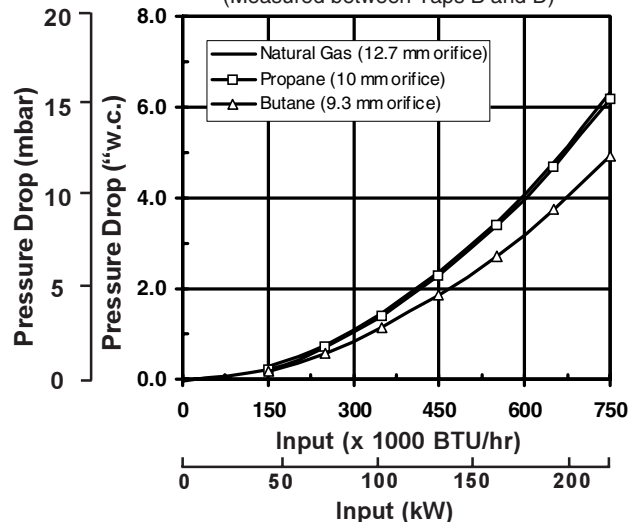
Fuel Orifice ΔP vs. Input - 3" Blower

(Measured between Taps B and D)



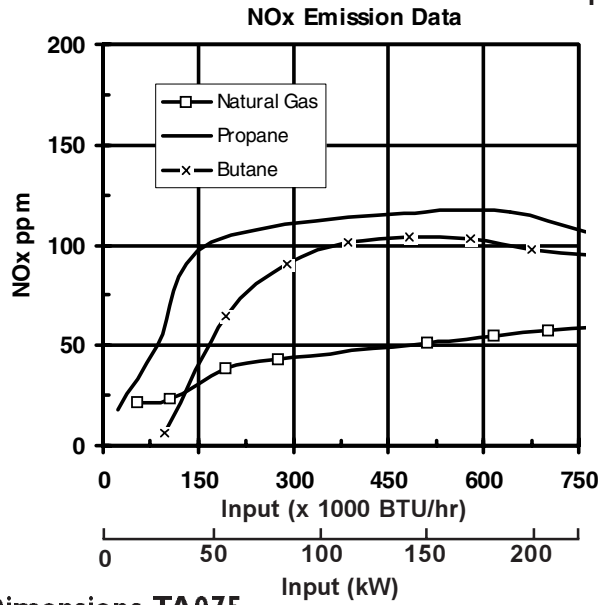
Fuel Orifice ΔP vs. Input - 6" Blower

(Measured between Taps B and D)



Performance Graphs (Continued)

ThermAir TA075



Notes on emission data

NOx emission data is given for:

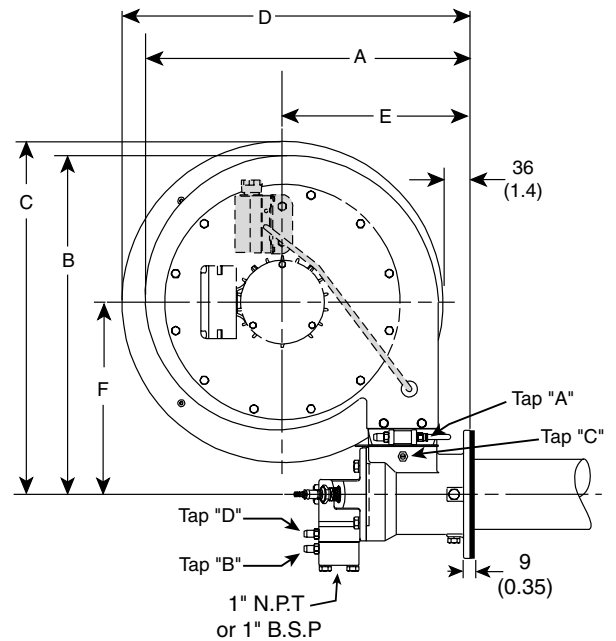
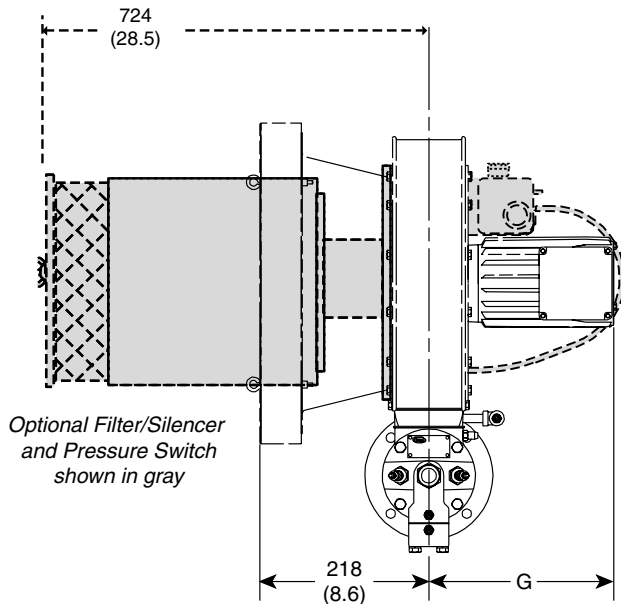
- Ambient combustion air ~70° F (20° C)
- Minimal process air velocity
- ppm volume dry at 3% O₂
- Neutral chamber pressure

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

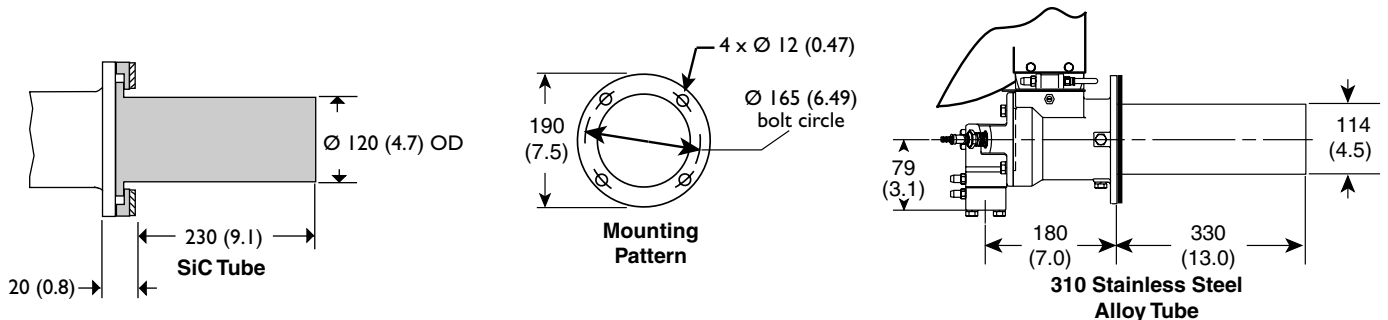


Port Connection	
Sparkplug	14mm
Flamerod or scanner	0.5" N.P.T.
Peepsight	0.75" N.P.T.

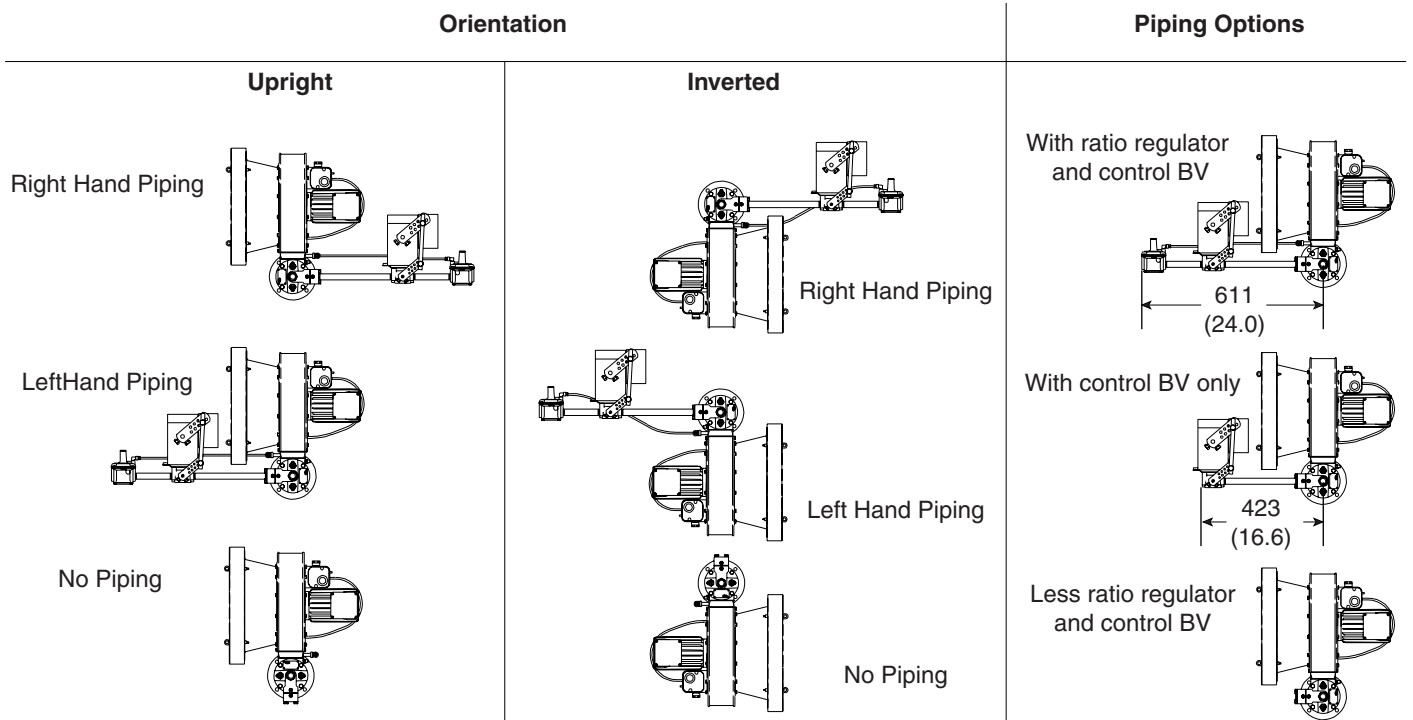
Weights		lb	kg
Burner, w/ blower		78	35
Burner, less blower		31	14
Filter/Silencer		41	19

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



Eclipse Combustion



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