

ThermAir Burners

Model TA040 *version 1.00*

Main Specifications - TA040

PARAMETER		SPECIFICATIONS	
		English	Metric
Maximum input (To maintain 15% excess air with the standard air orifice and standard combustion air blower.)	60 Hz packaged blower	Capacity @ Chamber Pressure	
		BTU/hr @ "w.c.	kW @ mbar
		467,100 @ -1.0	137 @ -2,5
		400,000 @ 0.0	117 @ 0,0
		403,700 @ 1.0	118 @ 2,5
Minimum input	Natural Gas, Propane or Butane	BTU/hr	kW
		13,000	3,8
Main gas inlet pressure • fuel pressure at gas inlet (Tap "B")	Natural Gas	6.3 "w.c.	16 mbar
	Propane	6.7 "w.c.	17 mbar
	Butane	6.7 "w.c.	17 mbar
High fire flame length • measured from the burner flange.	Natural gas or Propane	45 in	1145 mm
	Butane	42 in	1070 mm
Maximum chamber temperature	Alloy Tube	°F	°C
		1500	815
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>		

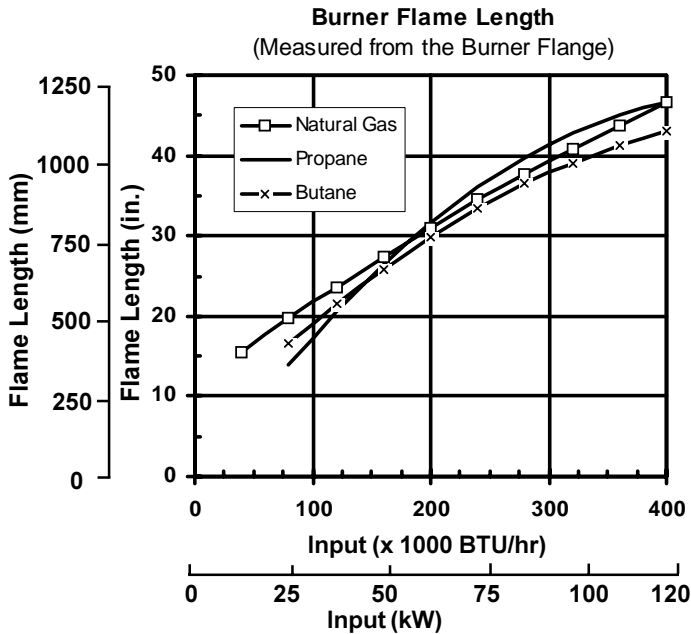
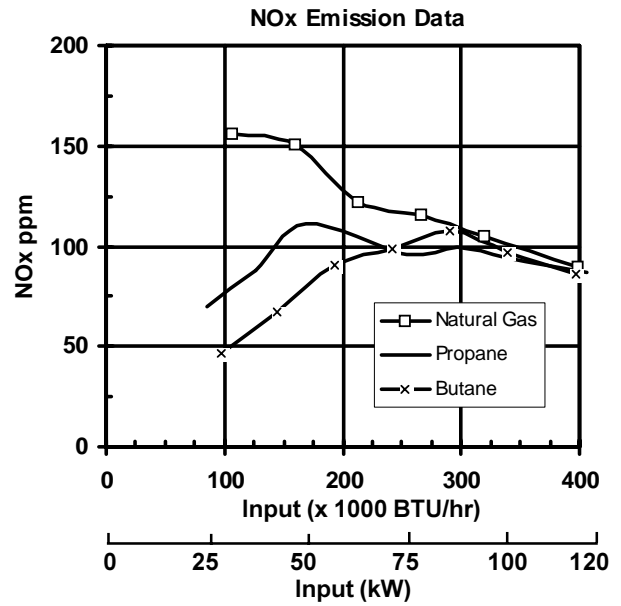
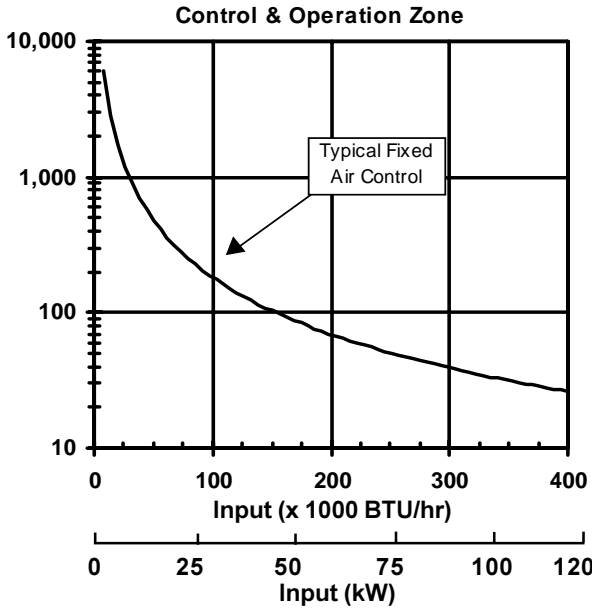
- All information is based on laboratory testing in neutral (0.0"w.c.) chamber with standard combustor design. Different chamber conditions and/or combustor design will affect the data.
- Maximum inputs are given for the standard combustion air blower without an air filter.
- All inputs based upon gross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



Eclipse Combustion

ISO 9001 Registered

Performance Graphs ThermAir TA040



Notes on emission data

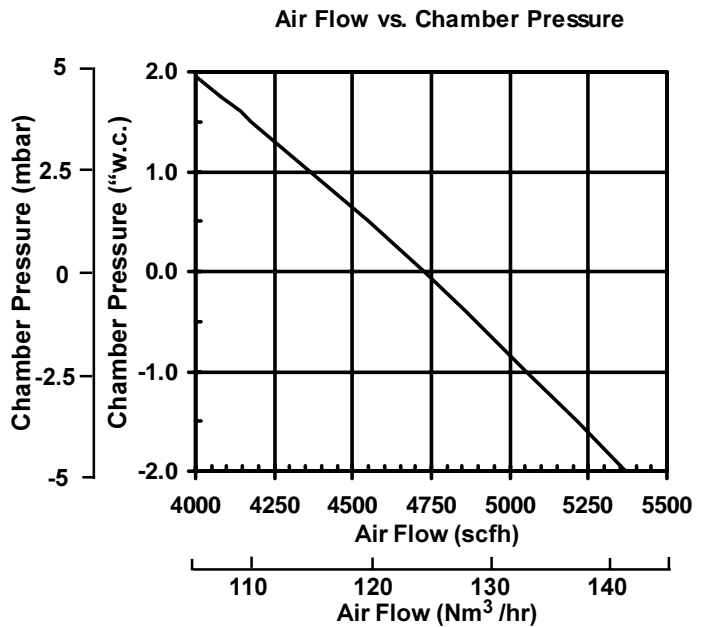
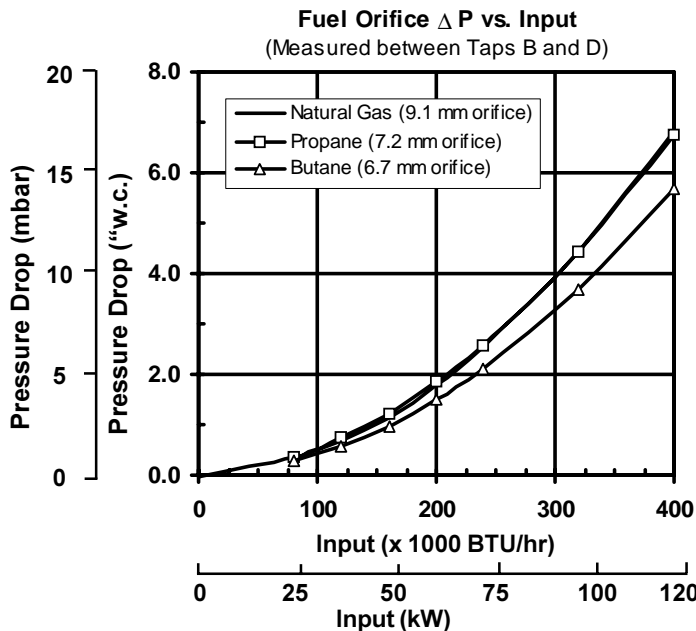
NOx emission data is given for:

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

Emissions are influenced by:

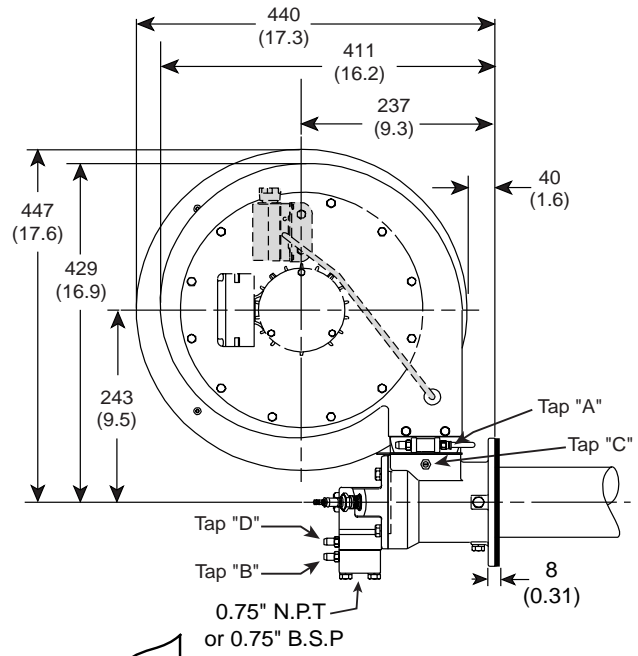
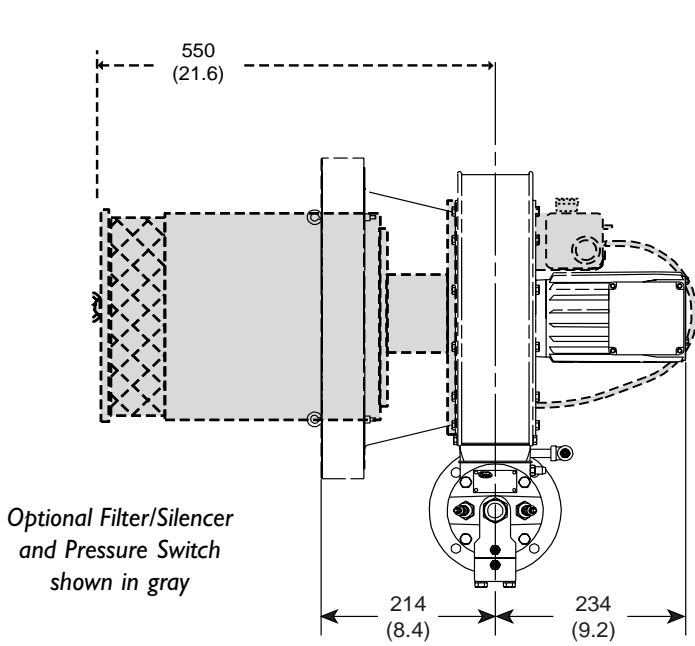
- Chamber conditions
- Fuel type
- Firing rate
- Combustion air temperature

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

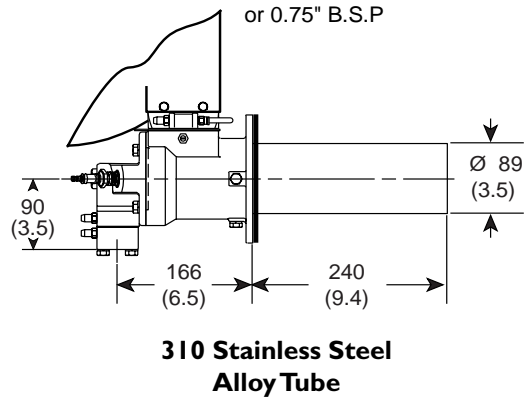
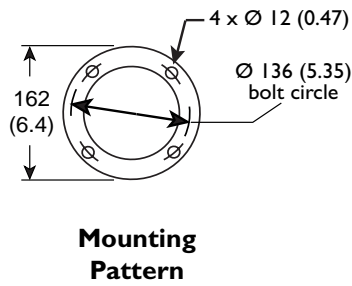


Dimensions-TA040

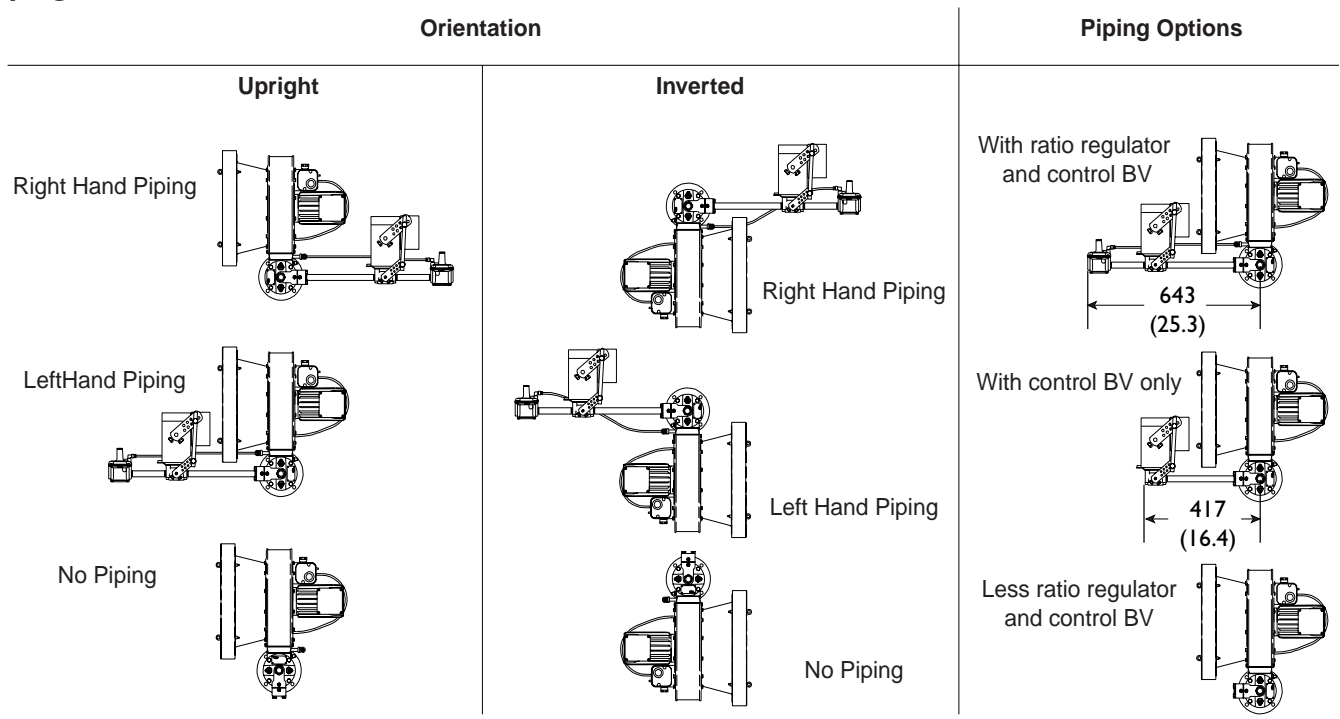
mm (in)



Port Connections		
Sparkplug	14mm	
Flamerod or Scanner	0.5" NPT	
Peepsight	0.75" NPT	
Weights		
	lb	kg
Burner, w/ blower	68	31
Burner, less blower	24	11
Filter/Silencer	21	10



Piping





Offered By:

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