



ThermAir Burners

Model TA400

Version 1.10

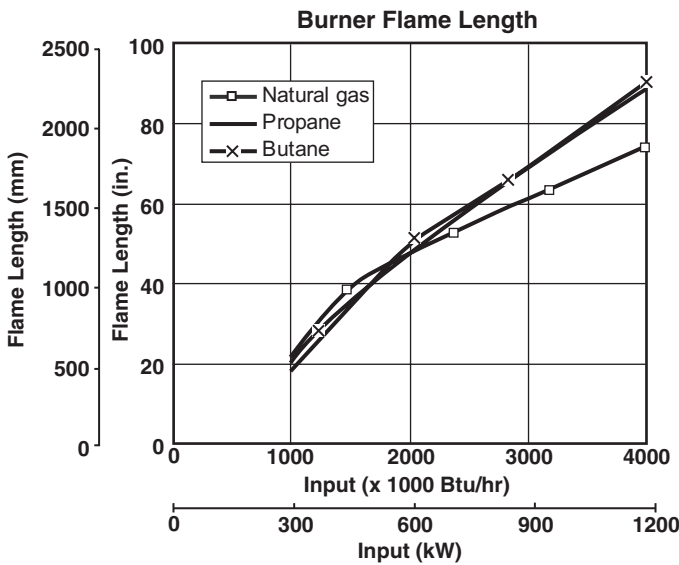
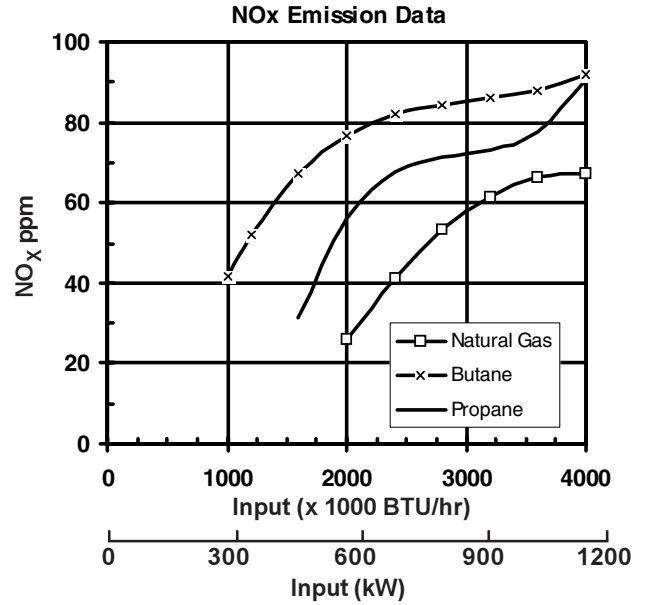
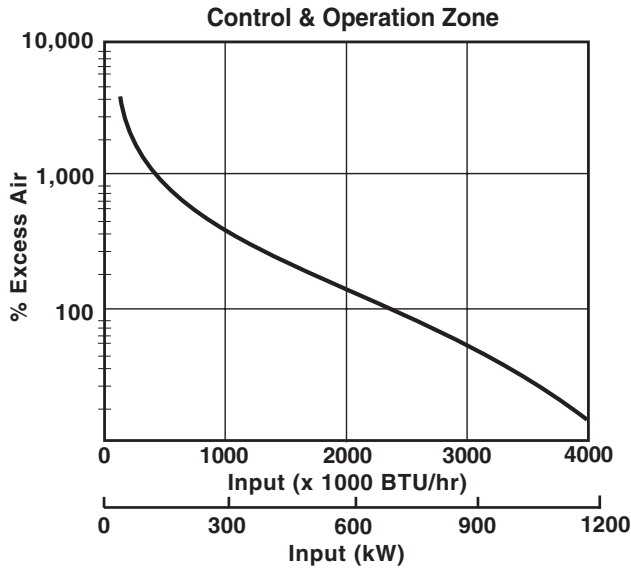
Main Specifications - TA400

PARAMETER	SPECIFICATIONS				
	Frequency	Btu/hr	"w.c.	kW	mbar
Maximum input <i>(To maintain 15% excess air with the standard air orifice and standard combustion air blower.)</i>	60 Hz packaged blower	4,332,000	-1.0	1270	-2,5
		4,000,000	0.0	1173	0,0
		3,919,000	1.0	1149	2,5
	50 Hz packaged blower	4,273,000	-1.0	1251	-2,5
		4,080,000	0.0	1195	0,0
		3,837,000	1.0	1124	2,5
Minimum input Natural Gas, Propane or Butane		BTU/hr		kW	
		133,000		39,0	
Main gas inlet pressure • fuel pressure at gas inlet (Tap "B")			"w.c.		mbar
	Natural Gas	5.4		13	
	Propane	6.4		16	
	Butane	6.5		16	
High fire flame length • measured from the outlet end of combustor			inches		mm
	Natural Gas	74		1880	
	Propane	88		2235	
	Butane	90		2286	
Maximum Chamber Temperature (Alloy Tubes & Block & Holder) <i>Note: For higher temperatures, contact Eclipse.</i>			°F		°C
			1500		820
Flame detection	UV scanner only				
Fuel	Natural Gas, Propane or Butane. <i>(For any other mixed gas, contact Eclipse 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 TA400



Notes on emission data

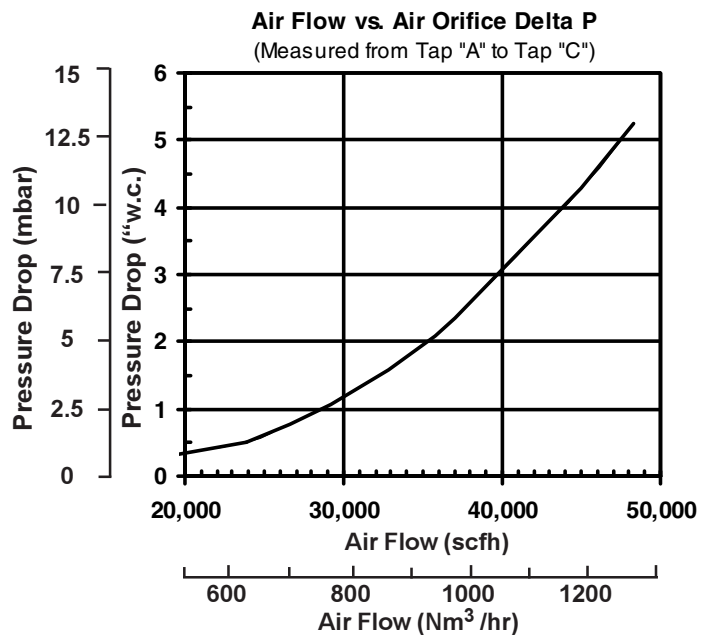
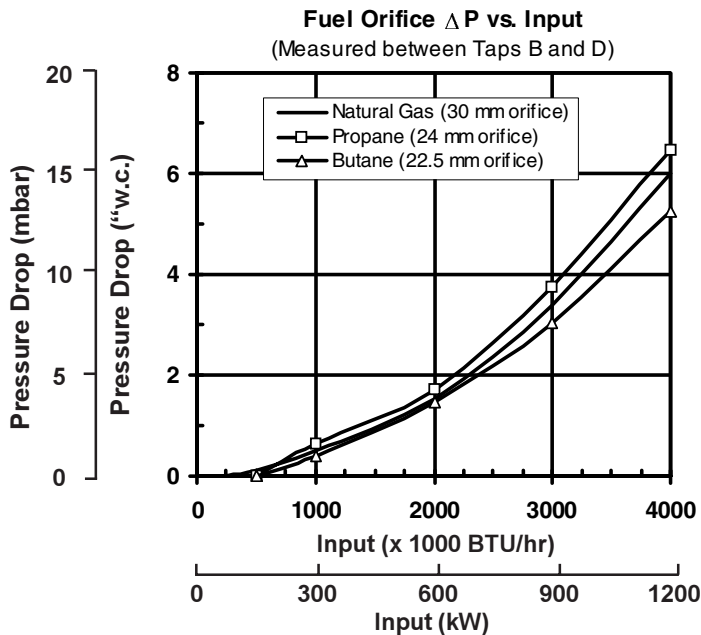
NOx emission data is given for:

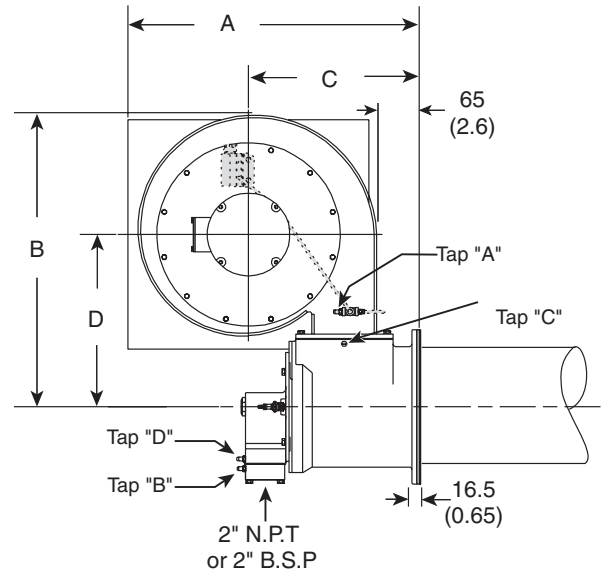
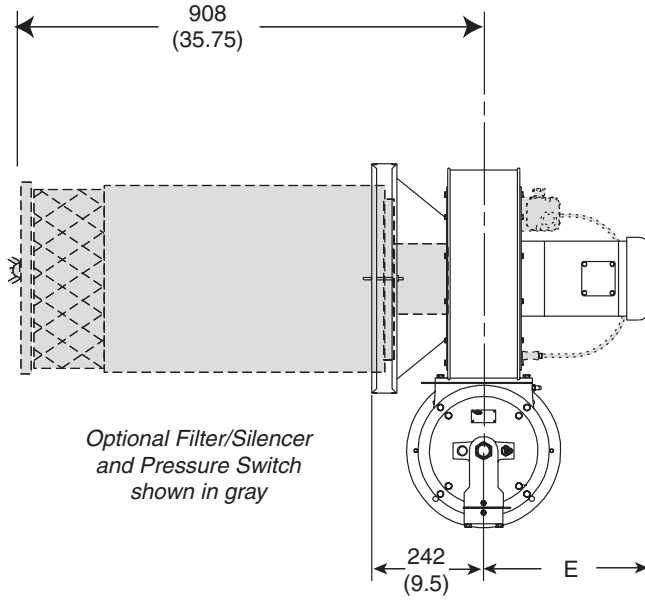
- Ambient combustion air ~70° F (20° C)
- Minimal process air velocity
- ppm volume dry at 3% O₂
- Neutral chamber pressure

Emissions are influenced by:

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

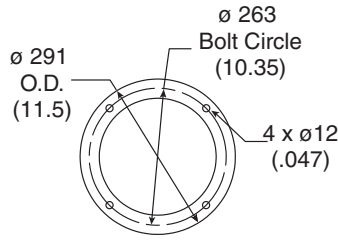
CO emission is largely influenced by chamber conditions. Contact your local Eclipse Combustion representative for an estimate of CO emission on your application.



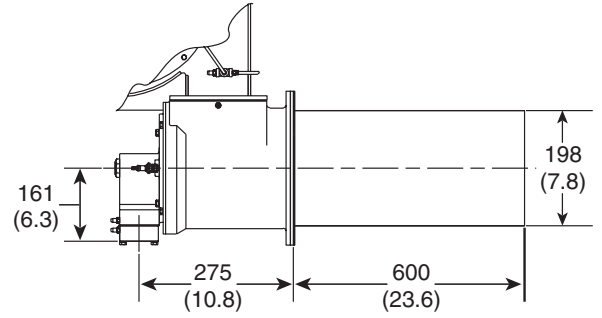


Port Connection	
Sparkplug	14mm
Flamerod or scanner	0.5" N.P.T.
Peepsight	1" N.P.T.

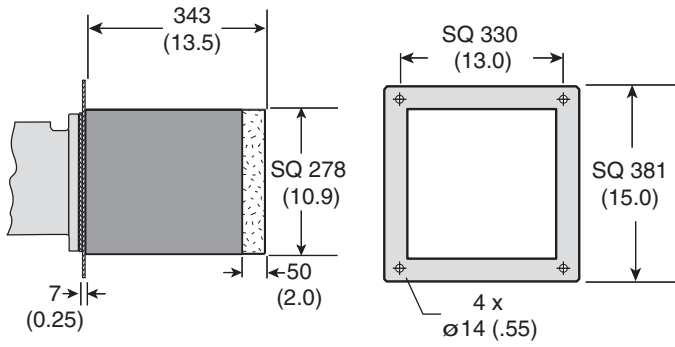
Weights		
	lb	kg
Burner, w/ blower	163	74
Burner, less blower	90	41
Filter/Silencer	52	24



Mounting Pattern



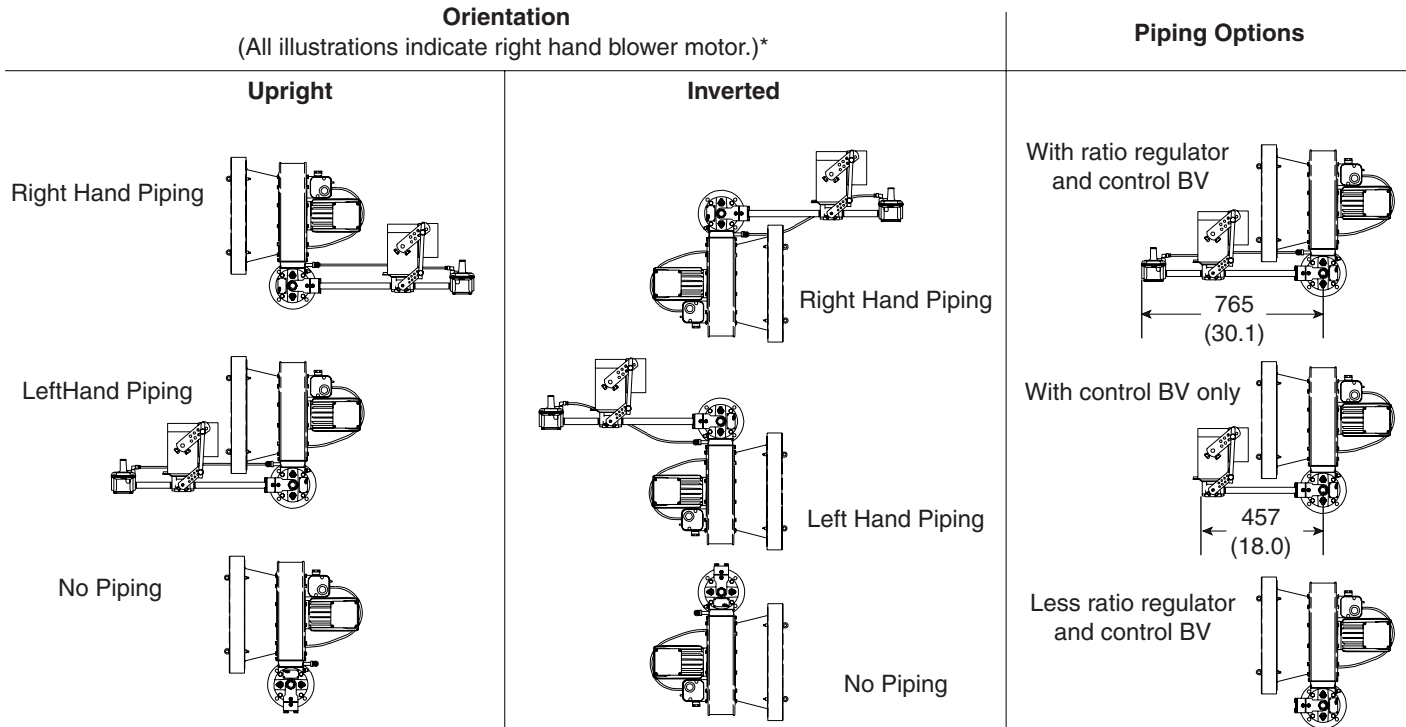
310 Stainless Steel Alloy Tube



Block & Holder

Blower 10" w.c.										
Hz	A		B		C		D		E	
	mm	in	mm	in	mm	in	mm	in	mm	in
50	614	24.2	636	25.0	359	14.1	367	14.4	362	14.3
60	597	23.5	582	22.9	331	13.0	342	13.5	333	13.1

Piping



* Even though the blower motor is on the "left" side of the inverted units, it is still a "right hand" motor in relationship to the blower assembly.



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