

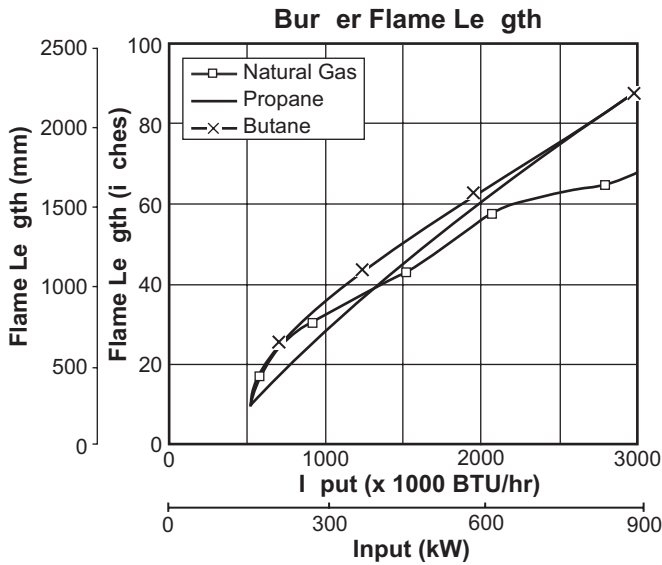
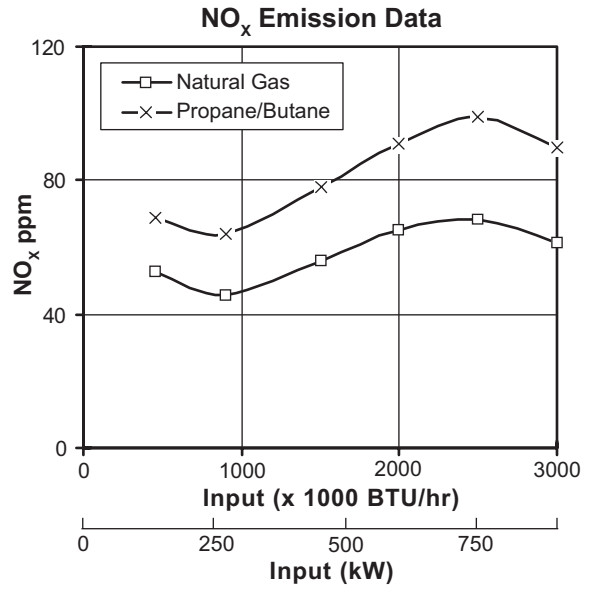
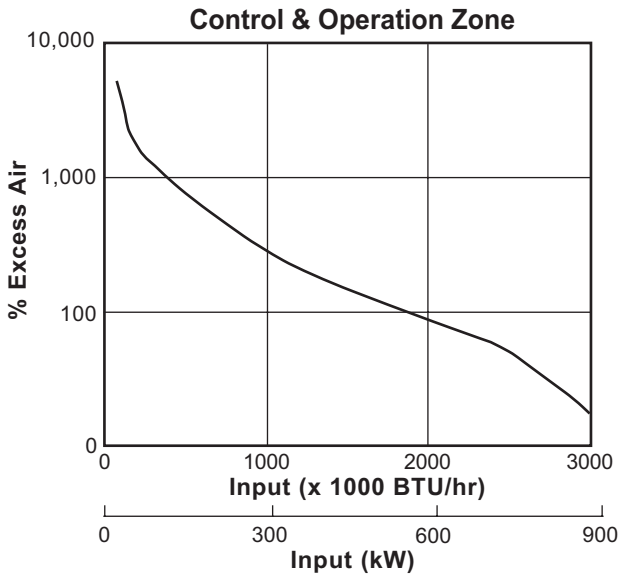
Eclipse ThermAir Burners

Model TA300
Version 1

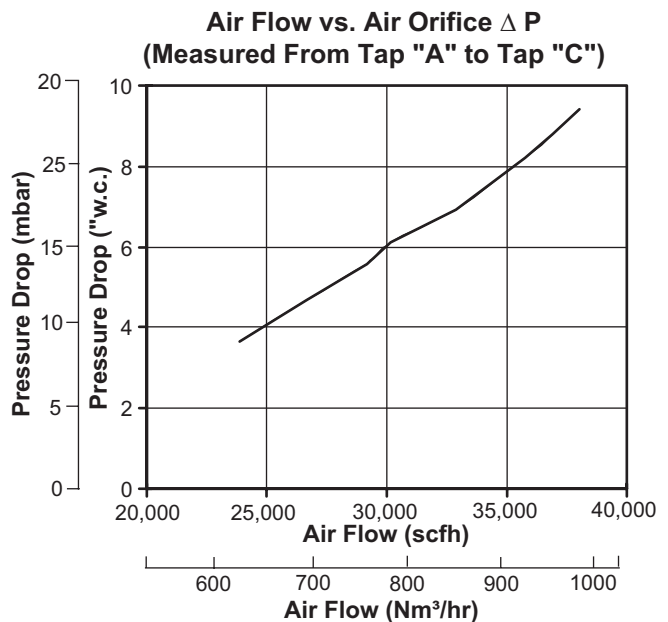
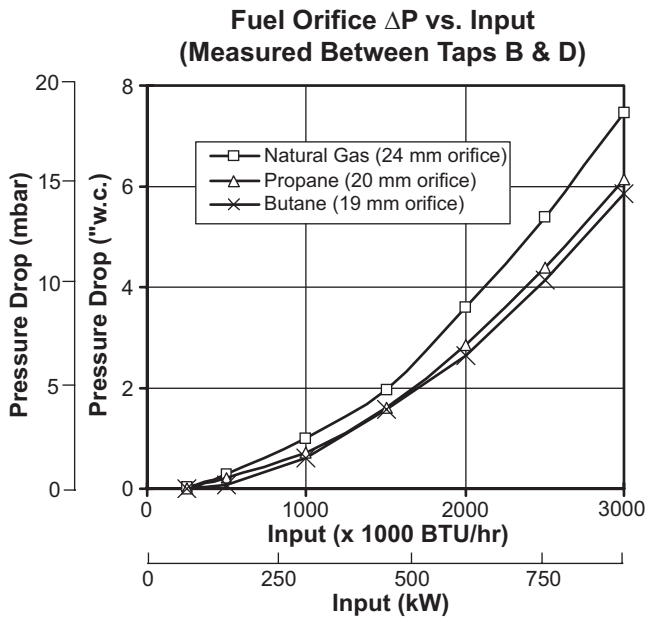
Parameter		Specifications			
Maximum Input (BTU/hr) <i>(To maintain 15% air with the standard air orifice and standard combustion air blower.)</i>	Frequency	BTU/hr	" w.c.	kW	mbar
	60 Hz Packaged Blower	3,425,000	-1.0	1004	-2,5
		3,250,000	0.0	953	0,0
		3,098,000	1.0	908	2,5
	50 Hz Packaged Blower	3,544,000	-1.0	1038	-2,5
		3,384,000	0.0	991	0,0
3,215,000		1.0	942	2,5	
Minimum Input <i>Natural Gas, Propane, Butane</i>		BTU/hr		kW	
		100,000		29,3	
Main Gas Inlet Pressure <i>Fuel pressure at gas inlet (Tap B)</i>		" w.c.		mbar	
<i>Natural Gas</i>		7.0		17	
<i>Propane</i>		7.7		19	
<i>Butane</i>		7.0		17	
High Fire Flame Length <i>Measured from outlet end of combustor</i>		inches		mm	
<i>Natural Gas</i>		68		1727	
<i>Propane</i>		88		2235	
<i>Butane</i>		88		2235	
Maximum Chamber Temperature <i>Note: For higher temperatures, contact Eclipse.</i>		Tube	°F	°C	
		Alloy Tube	1500	820	
		SiC Tube	1900	1040	
Flame Detection		UV scanner only			
Fuel		Natural gas, propane, or butane <i>For any other gas, contact Eclipse.</i>			

- All information is based on laboratory testing in neutral (0.0" w.c.) chamber with standard combustion 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 Eclipse.
- 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.

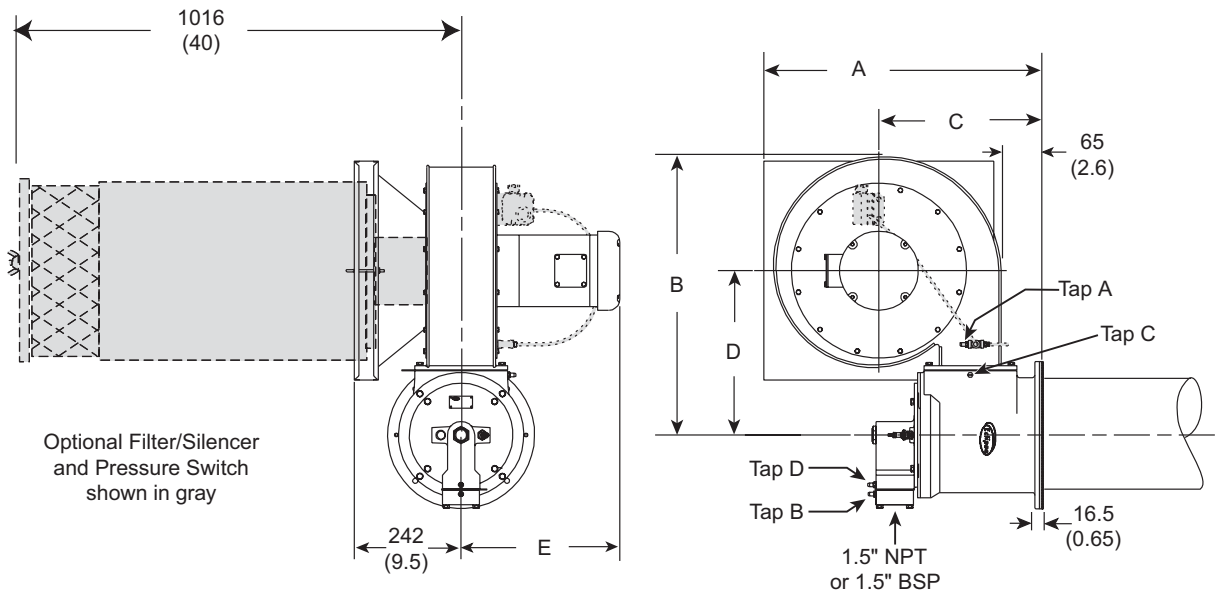
Performance Graphs



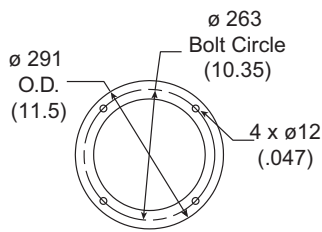
Notes on Emission Data
<p>NO_x emission data is given for:</p> <ul style="list-style-type: none"> Ambient combustion air ~70° F (20° C) Minimal process air velocity ppm volume dry at 3% O₂ Neutral chamber pressure <p>Emissions are influenced by:</p> <ul style="list-style-type: none"> Chamber conditions Fuel type Firing rate Combustion air temperature <p>CO emission is largely influenced by chamber conditions. Contact Eclipse for an estimate of CO emission on your application.</p>



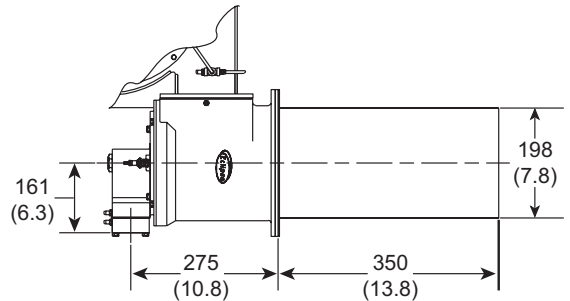
Dimensions mm (inches)



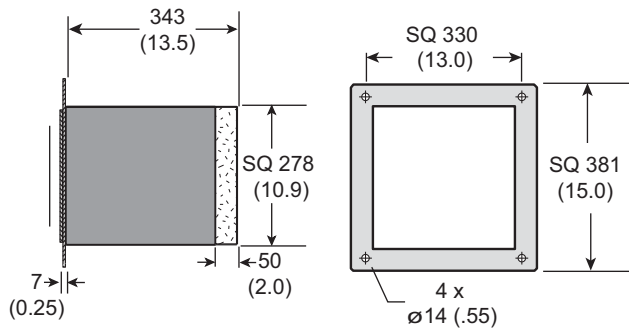
Port Connection		
Spark Plug	14mm	
Flamerod or Scanner	0.5" NPT	
Peepsight	0.75" NPT	
Weights		
	lbs	kg
Burner with blower	157	71
Burner less blower	89	40
Filter/Silencer	52	24



Mounting Pattern



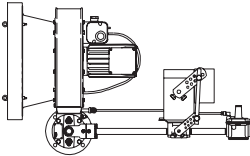
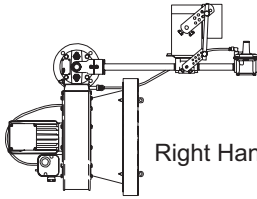
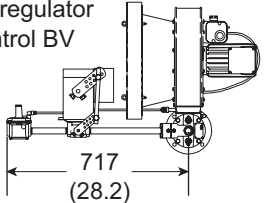
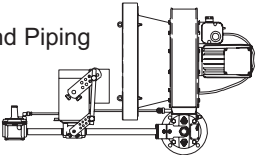
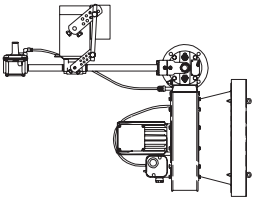
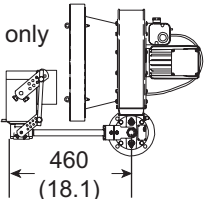
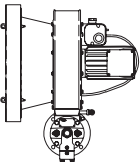
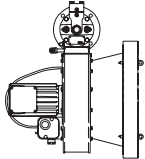
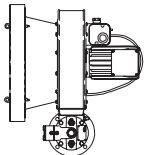
310 Stainless Steel Alloy Tube



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

Orientation		Piping Options
Upright	Inverted	
<p>Right Hand Piping</p> 	<p>Right Hand Piping</p> 	<p>With ratio regulator and control BV</p>  <p>717 (28.2)</p>
<p>Left Hand Piping</p> 	<p>Left Hand Piping</p> 	<p>With control BV only</p>  <p>460 (18.1)</p>
<p>No Piping</p> 	<p>No Piping</p> 	<p>Less ratio regulator and control BV</p> 



Offered By:

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