

Eclipse ThermAir Burners

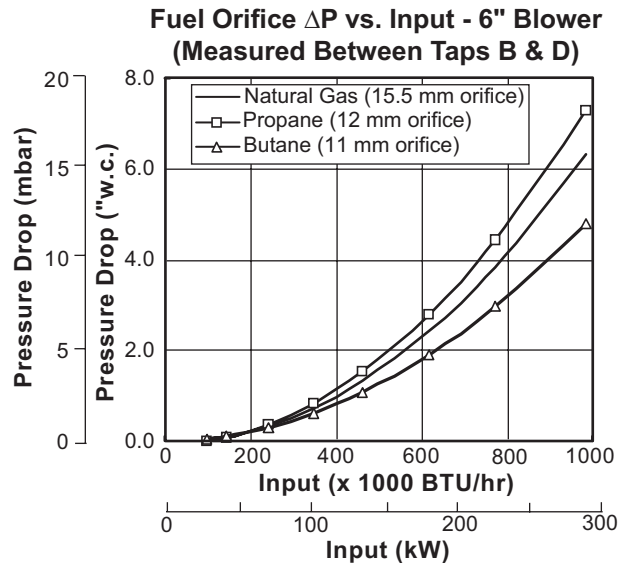
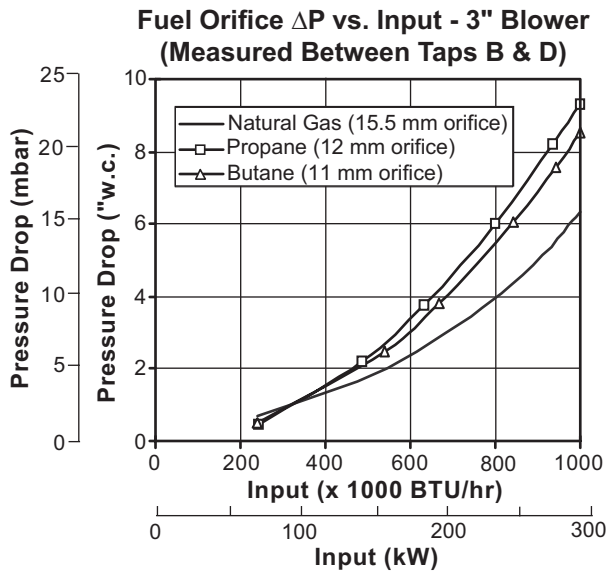
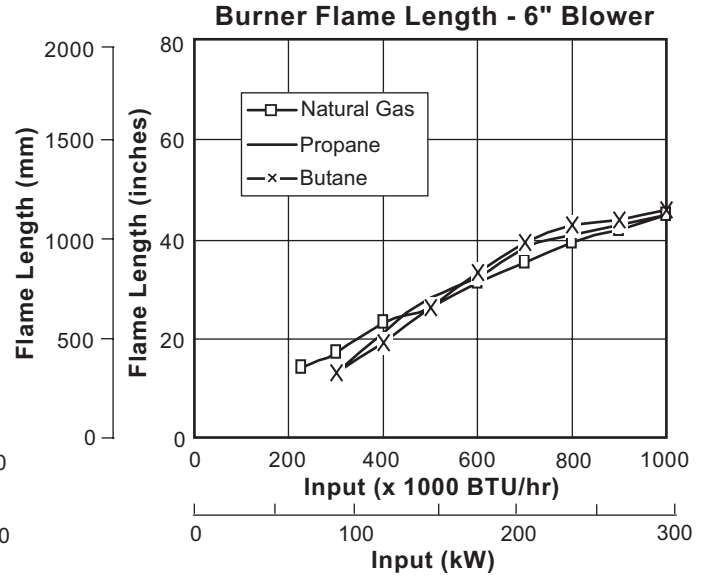
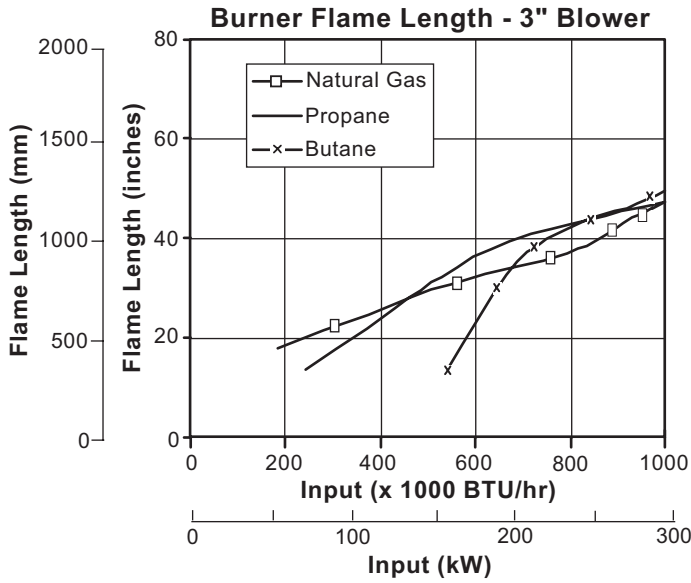
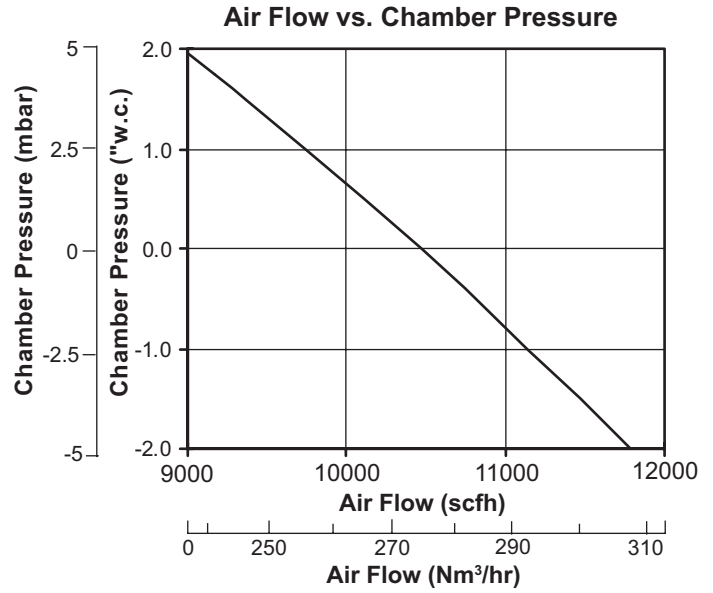
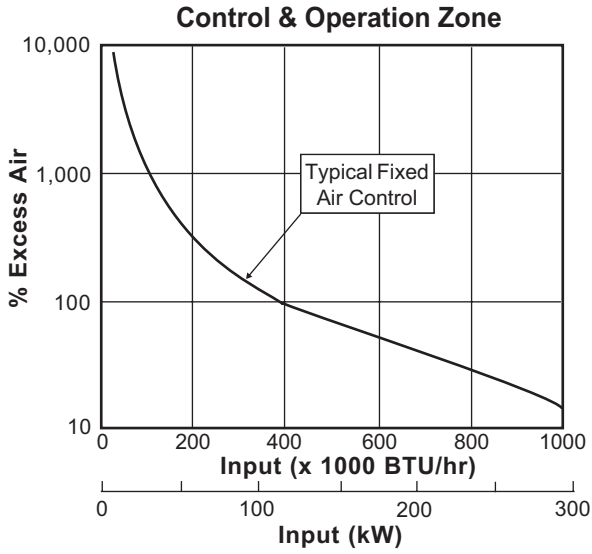
Model TA100
Version 1

Parameter		Blower Size							
Maximum Input (BTU/hr) <i>(To maintain 15% excess air with standard air orifice and standard combustion air blower.)</i>	Frequency	3" w.c. Packaged*				6" w.c. Packaged			
		Capacity at Chamber Pressure				Capacity at Chamber Pressure			
	60 Hz Packaged Blower	BTU/hr	" w.c.	kW	mbar	BTU/hr	" w.c.	kW	mbar
		1,141,000	-1.0	334	-2,5	1,030,000	-1.0	302	-2,5
		1,000,000	0.0	293	0,0	1,000,000	0.0	293	0,0
	50 Hz Packaged Blower	Not Available				900,000	1.0	264	2,5
				1,075,000	-1.0	315	-2,5		
				1,007,000	0.0	295	0,0		
				934,000	1.0	274	2,5		
Minimum Input		BTU/hr		kW		BTU/hr		kW	
	Natural Gas	26,000		7,6		33,000		9,7	
	Propane	28,000		8,2		33,000		9,7	
	Butane	30,000		8,8		33,000		9,7	
Main Gas Inlet Pressure <i>Fuel pressure at gas inlet (Tap B)</i>		" w.c.		mbar		" w.c.		mbar	
	Natural Gas	7.2		17,9		6.3		16	
	Propane	9.8		24,1		5.4		13	
	Butane	8.0		18,6		5.9		15	
High Fire Flame Length <i>Measured from outlet end of combustor</i>		inches		mm		inches		mm	
	Natural Gas	47		1194		45		1140	
	Propane	51		1295		45		1140	
	Butane	51		1295		46		1170	
Maximum Chamber Temperature <i>Note: For higher temperatures, contact Eclipse.</i>	Tube		°F			°C			
	Alloy Tube		1500			820			
	SiC Tube		1900			1040			
Flame Detection	Flame rod or UV scanner								
Fuel	Natural gas, propane, or butane <i>For any other gas, contact Eclipse.</i>								

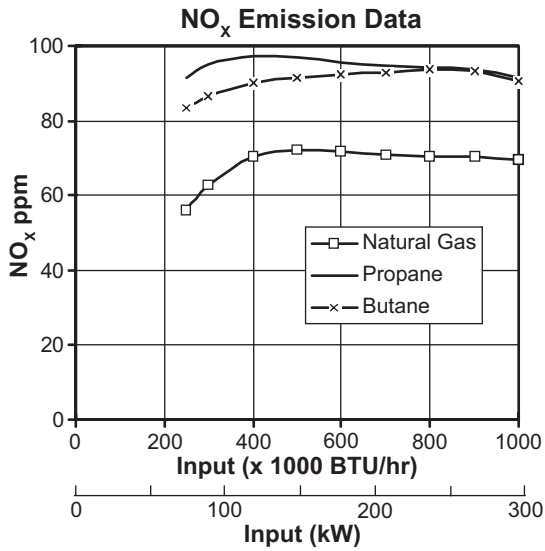
* Ratio regulator is not available with 3" blower.

- 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



Performance Graphs



Notes on Emission Data

NO_x emission data is given for:

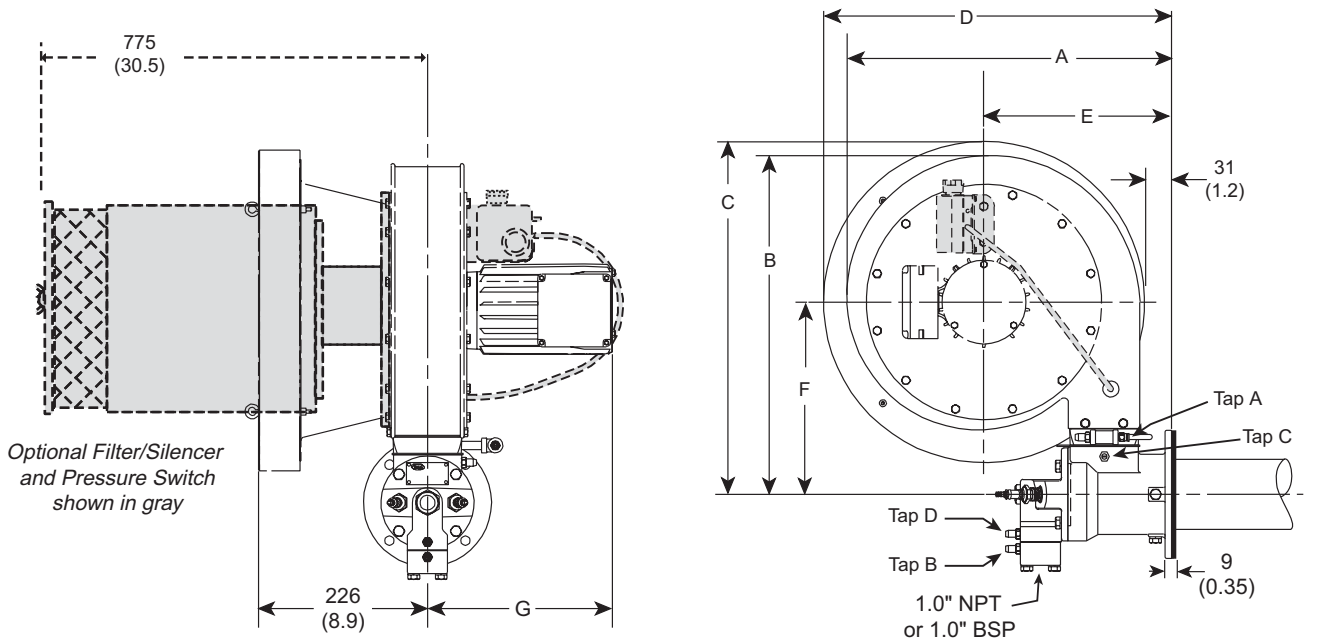
- Ambient combustion air ~70° F (20° C)
- Minimal process air velocity
- ppm volume dry at 3% O₂
- Neutral chamber pressure

Emissions are influenced by:

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

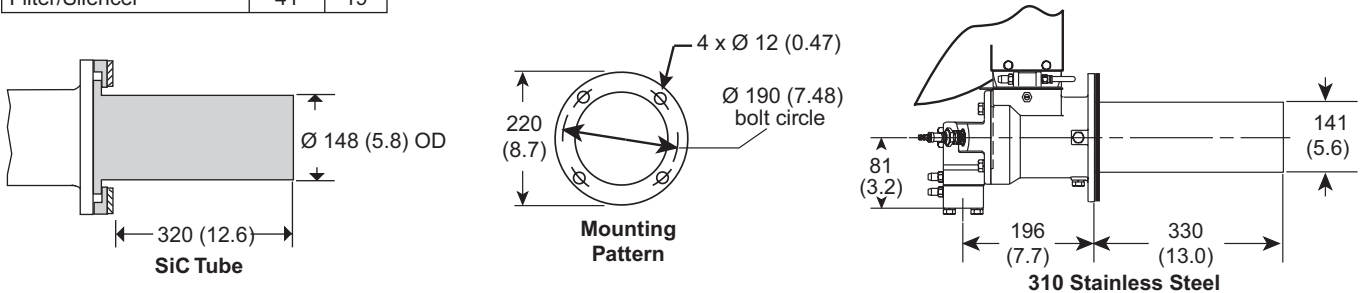
CO emission is largely influenced by chamber conditions. Contact Eclipse for an estimate of CO emission on your application.

Dimensions mm (inches)

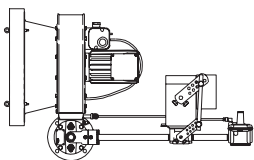
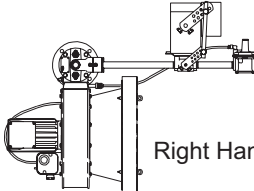
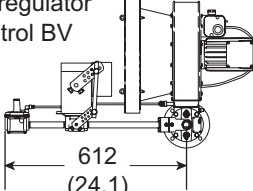
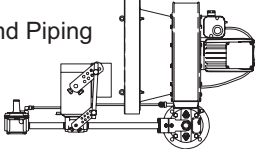
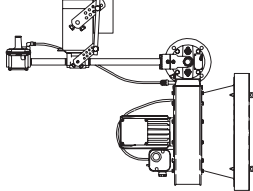
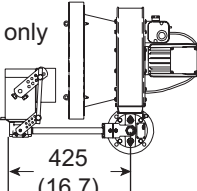
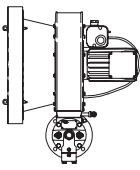
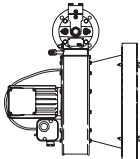
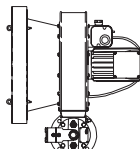


Port Connection		
Spark Plug	14mm	
Flamerod or Scanner	0.5" NPT	
Peepsight	0.75" NPT	
Weights		
	lbs	kg
Burner with blower	99	45
Burner less blower	47	21
Filter/Silencer	41	19

Hz	A		B		C		D		E		F		G	
	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	443	17.4	517	20.4	578	22.7	537	21.1	255	10.0	312	12.3	298	11.7
Blower 3" w.c.														
60	354	13.9	428	16.9	N/A	N/A	N/A	N/A	212	8.3	257	10.1	301	11.9



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>612 (24.1)</p>
<p>Left Hand Piping</p> 	<p>Left Hand Piping</p> 	<p>With control BV only</p>  <p>425 (16.7)</p>
<p>No Piping</p> 	<p>No Piping</p> 	<p>Less ratio regulator and control BV</p> 



Offered By:

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