

Eclipse ThermJet Burners

for preheated combustion air

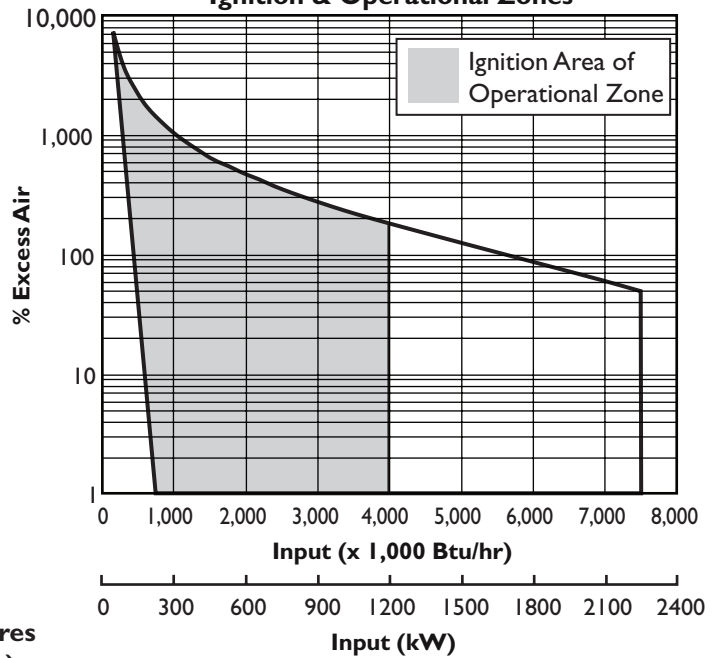
Model TJPCA0750
Version 2

PARAMETER	SPECIFICATION			
	Nat. Gas	Propane	Butane	
Maximum Input Btu/hr (kW)	7,500,000 (2198)	7,500,000 (2198)	7,500,000 (2198)	
Minimum Input, On-ratio Btu/hr (kW)	750,000 (220)	750,000 (220)	750,000 (220)	
Gas Inlet Pressure "w.c. (mbar)	ambient	6.7 (16.6)	6.7 (16.6)	6.7 (16.6)
• Fuel pressure at gas inlet	300° F	9.3 (23.0)	9.3 (23.0)	9.3 (23.0)
(Tap "B"— see page 3)	700° F	13.9 (34.6)	13.9 (34.6)	13.9 (34.6)
	1000° F	-----	-----	-----
Air Inlet Pressure "w.c. (mbar)	ambient	6.3 (15.7)	6.3 (15.7)	6.3 (15.7)
• 15% excess air at	300° F	8.9 (22.2)	8.9 (22.2)	8.9 (22.2)
maximum input	700° F	13.5 (33.6)	13.5 (33.6)	13.5 (33.6)
(Tap "A" – see page 3)	1000° F	-----	-----	-----
High Fire Flame Length Inches (mm)	<125 (3175)	<125 (3175)	<130 (3302)	
Flame Detection	U.V. scanner available for all combustors			
Fuel	Natural Gas, Propane, Butane <i>For any other mixed gas, contact Eclipse for orifice sizing.</i>			

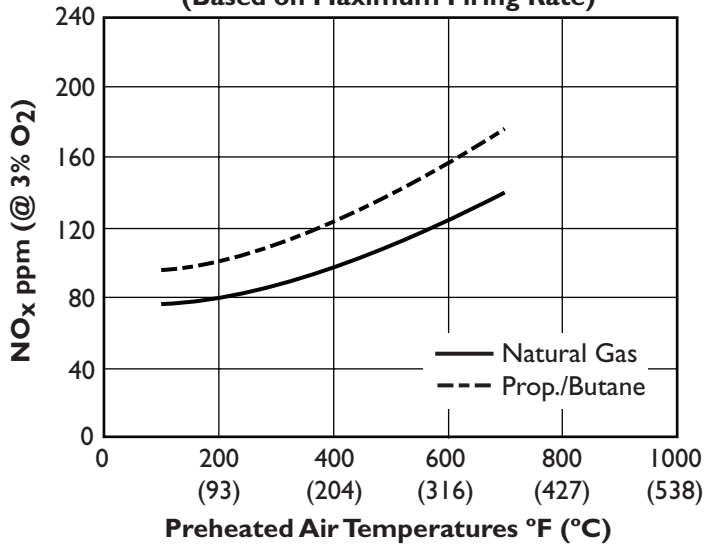
- All information is based on laboratory testing in neutral (0.0"w.c.) pressure chamber. Different chamber size and conditions may affect the data.
- All information is based on standard combustor design. Changes in the combustor will alter performance and pressures.
- All inputs based upon gross calorific values.
- 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.
- Plumbing of air and gas will affect accuracy of orifice readings. All information is based on generally acceptable air and gas piping practices.

Performance Graphs

Ignition & Operational Zones



NO_x vs Preheated Air Temperatures (Based on Maximum Firing Rate)

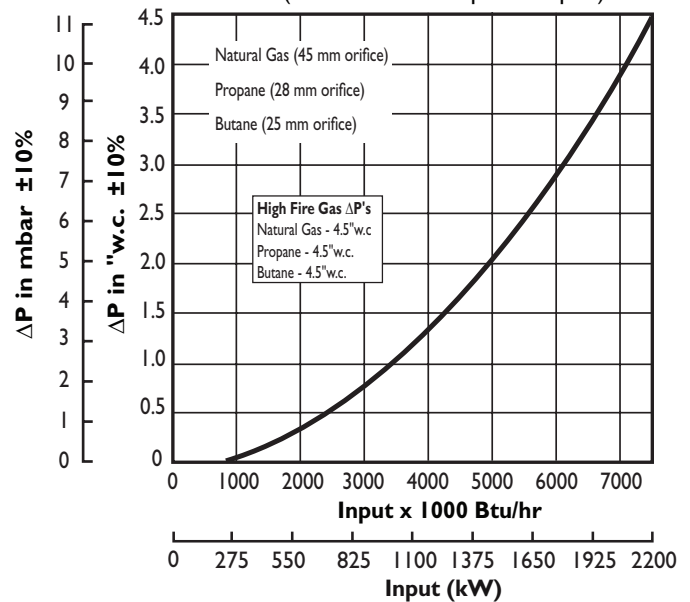


Emissions from the burner are influenced by:

- Fuel type
- Combustion air temperature
- Firing rate
- Chamber Conditions
- Percent of excess air

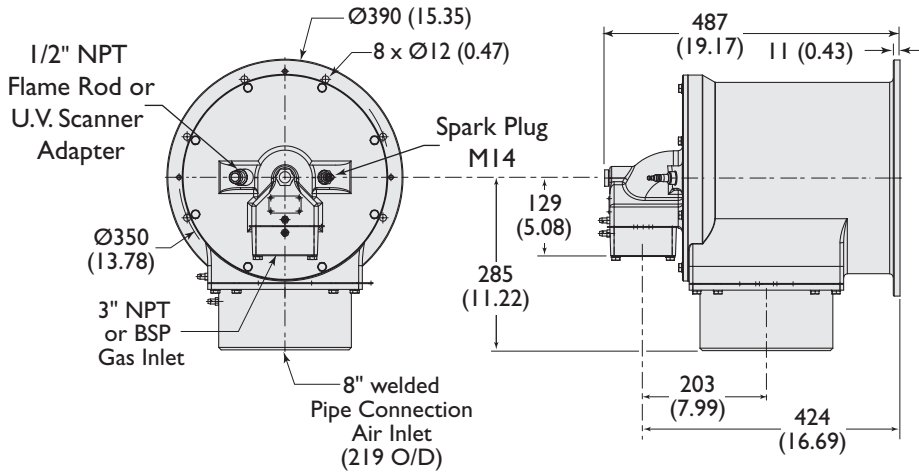
For estimates of other emissions, contact Eclipse.

Gas Orifice ΔP vs. Input (Measured from Tap B to Tap D)



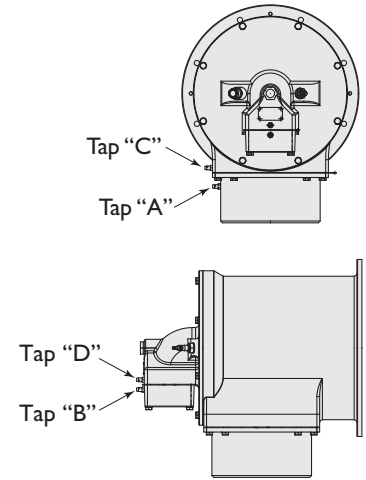
Dimensions & Specifications Millimeters (Inches)

Burner Housing



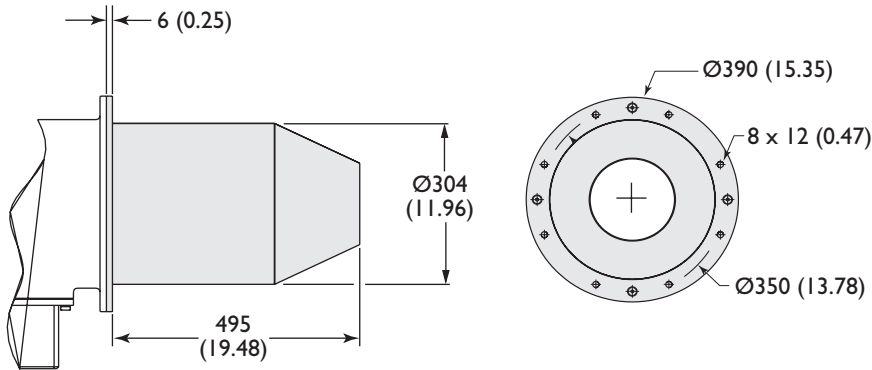
Burner weight less combustor: 133 lb (60 kg)

Tap Locations

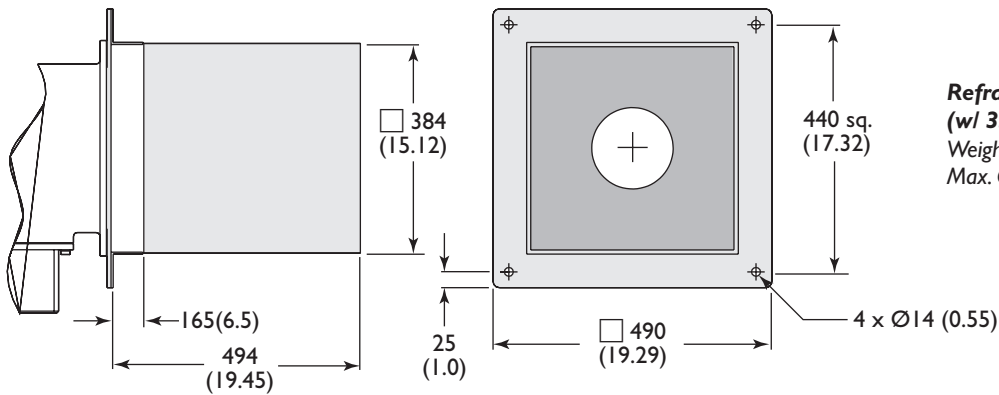


Combustor

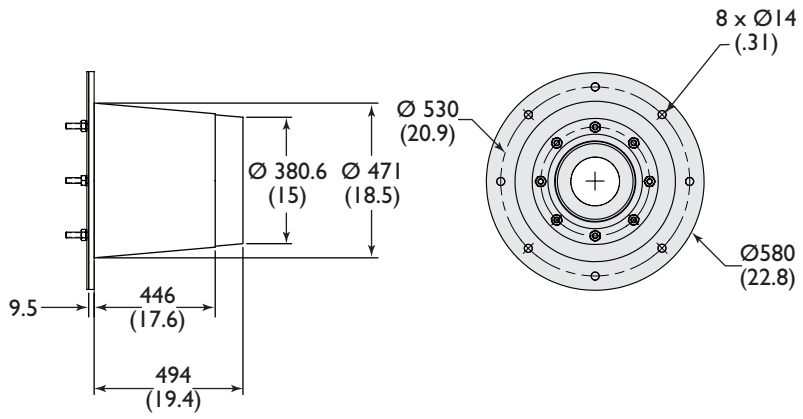
Exhaust outlet diameter : High Velocity : $\text{Ø}155$ (6.10)
Medium Velocity : $\text{Ø}220$ (8.66)



Alloy Tube (AISI 310)
Weight : 21 lb (9.5 kg)
Max. Chamber Temp : 1,750°F (950°C)



**Refractory Block
(w/ 330 SS wrapper)**
Weight : 330 lb (150 kg)
Max. Chamber Temp : 2,800°F (1535°C)



Down Firing Block

Weight: 310 lb (140.61 kg)

Max. Chamber Temp: 2800°F (1535°C)



Offered By:

Power Equipment Company
2011 Williamsburg Road
Richmond, Virginia 23231
Phone (804) 236-3800
Fax (804) 236-3882

www.peconet.com