

Eclipse ThermJet Burners

for preheated combustion air

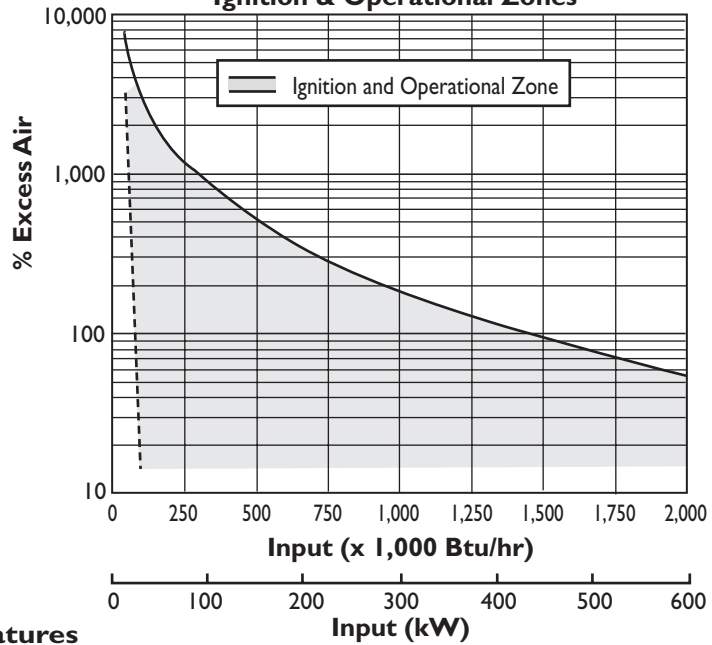
Model TJPCA0200
Version 2

PARAMETER	SPECIFICATION			
	Nat. Gas	Propane	Butane	
Maximum Input Btu/hr (kW)	2,000,000 (586)	2,000,000 (586)	2,000,000 (586)	
Minimum Input, On-ratio Btu/hr (kW)	200,000 (59)	200,000 (59)	200,000 (59)	
Gas Inlet Pressure "w.c. (mbar)	ambient	7.1 (17.6)	8.5 (21.1)	6.9 (17.1)
• Fuel pressure at gas inlet	300° F	8.7 (21.6)	10.5 (26.1)	8.9 (22.1)
(Tap "B" – see page 3)	700° F	11.6 (28.7)	14.1 (35.1)	12.5 (31.1)
	1000° F	13.7 (34.1)	16.8 (41.8)	15.2 (37.9)
Air Inlet Pressure "w.c. (mbar)	ambient	3.9 (9.7)	4.9 (12.2)	4.9 (12.2)
• 15% excess air at	300° F	5.5 (13.7)	6.9 (17.2)	6.9 (17.2)
maximum input	700° F	8.4 (20.9)	10.5 (26.1)	10.5 (26.1)
(Tap "A" – see page 3)	1000° F	10.5 (26.1)	13.2 (32.8)	13.2 (32.8)
High Fire Flame Length Inches (mm)	<36.0 (915)	<32.0 (810)	<32.0 (810)	
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>			

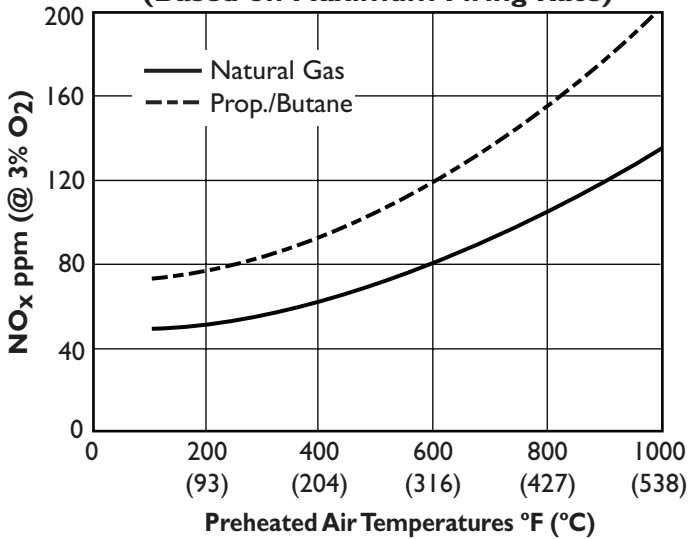
- All information is based on laboratory testing in neutral (0.0"w.c.) pressure chamber. Different chamber size and conditions may affect the data.
- All information is based on standard combustor design. Changes in the combustor will alter performance and pressures.
- All inputs based upon gross calorific 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)

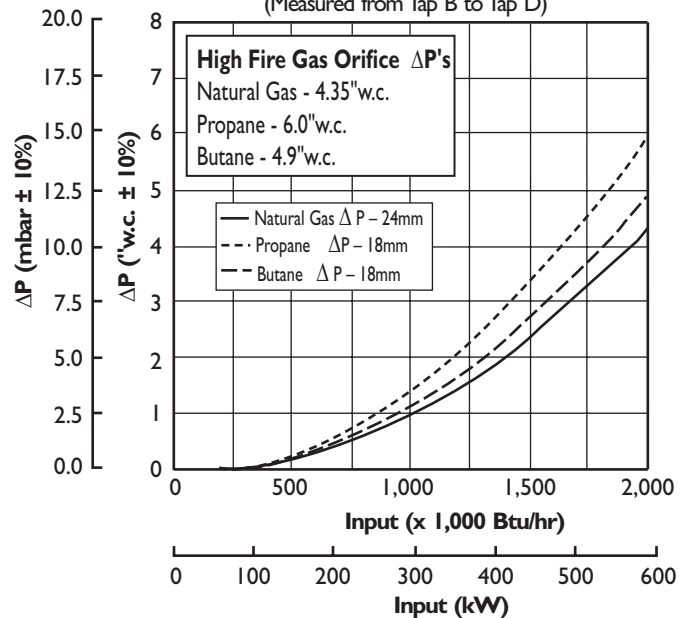


Emissions from the burner are influenced by:

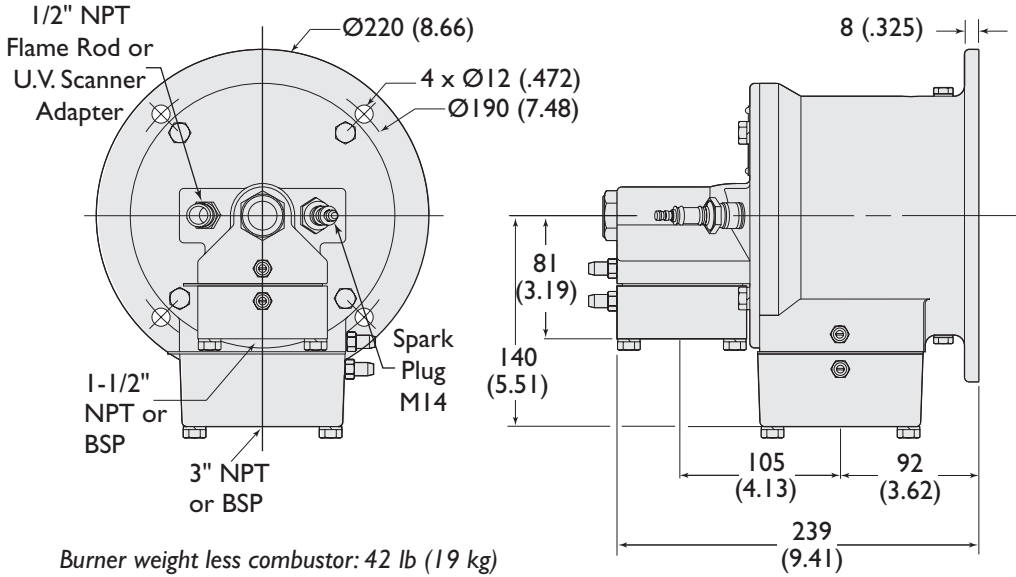
- Fuel type
- Combustion air temperature
- Firing rate
- Chamber Conditions
- Percent of excess air

For estimates of other emissions, contact Eclipse.

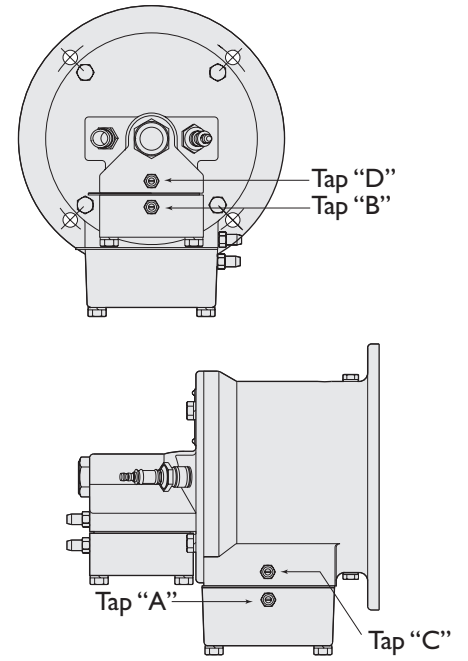
Gas Orifice ΔP vs. Input (Measured from Tap B to Tap D)



Dimensions & Specifications
Millimeters (Inches)
Burner Housing

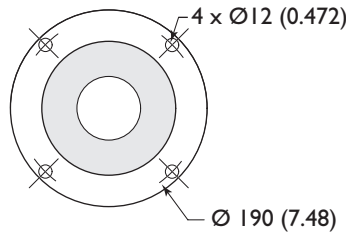
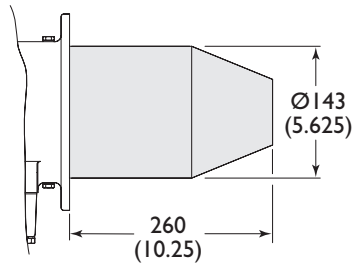


Tap Locations



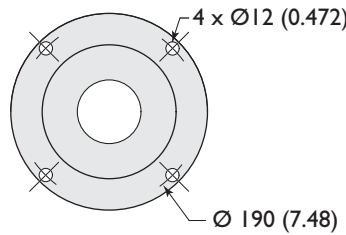
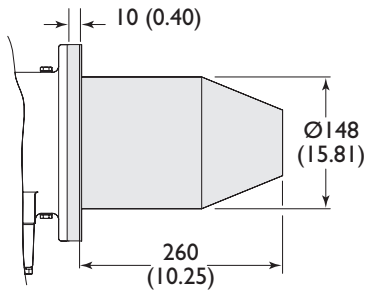
Combustor

Exhaust outlet diameter : High Velocity : Ø85 (3.35)
 Medium Velocity : Ø105 (4.13)



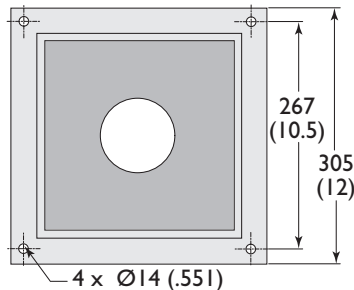
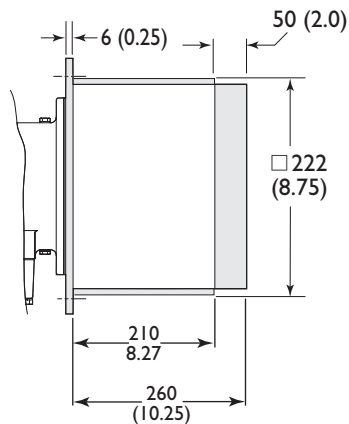
Alloy Tube (AISI 310)

Weight: 4.2 lb (1.9 kg)
 Max Chamber Temp: 1,750°F (950°C)



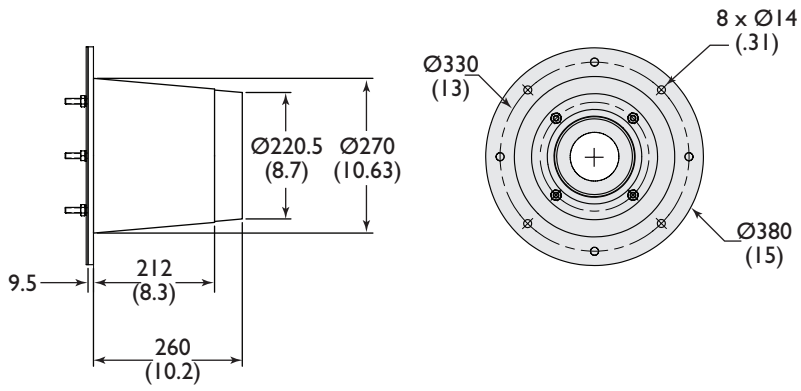
Silicon Carbide Tube

Weight: 3.1 lb (1.5 kg)
 Max Chamber Temp: 2,500°F (1370°C)



**Refractory Block
(w/330 SS wrapper)**

Weight: 66 lb (30 kg)
 Max Chamber Temp: 2,800°F (1538°C)



Down Firing Block
 Weight: 80 lb (36.3 kg)
 Max. Chamber Temp: 2800°F (1535°C)



Offered By:

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