

Eclipse ThermJet Burners

for preheated combustion air

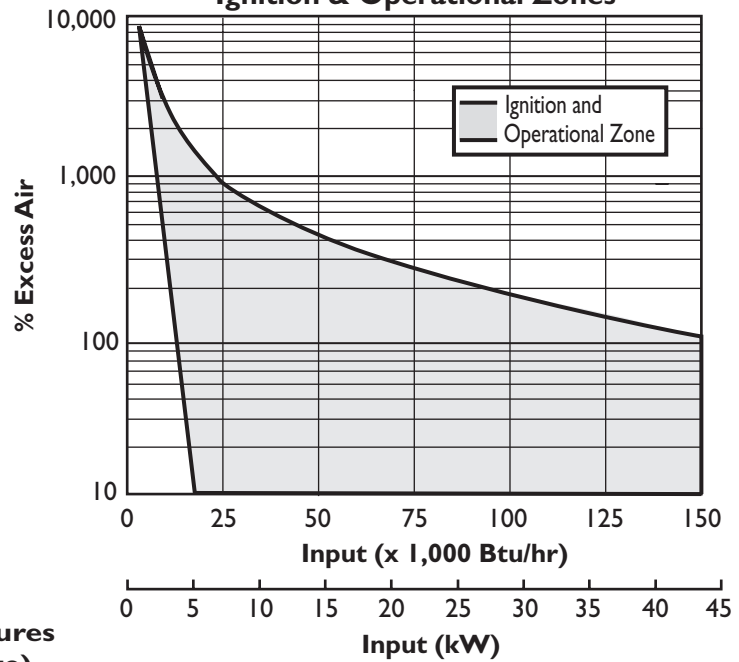
Model TJPCA0015
Version 2

PARAMETER		SPECIFICATION		
		Nat. Gas	Propane	Butane
Maximum Input Btu/hr (kW)		150,000 (44)	150,000 (44)	150,000 (44)
Minimum Input, On-ratio Btu/hr (kW)		15,000 (4.4)	15,000 (4.4)	15,000 (4.4)
Gas Inlet Pressure "w.c. (mbar) • Fuel pressure at gas inlet (Tap "B"— see page 3)	ambient	7.5 (18.6)	7.5 (18.6)	7.5 (18.6)
	300° F	9.8 (24.4)	9.8 (24.4)	9.8 (24.4)
	700° F	14.0 (34.9)	14.0 (34.9)	14.0 (34.9)
	1000° F	17.2(42.7)	17.2(42.7)	17.2(42.7)
Air Inlet Pressure "w.c. (mbar) • 15% excess air at maximum input (Tap "A" – see page 3)	ambient	5.7 (14.2)	5.7 (14.2)	5.7 (14.2)
	300° F	8.0 (19.9)	8.0 (19.9)	8.0 (19.9)
	700° F	12.2 (30.4)	12.2 (30.4)	12.2 (30.4)
	1000° F	15.4 (38.3)	15.4 (38.3)	15.4 (38.3)
High Fire Flame Length Inches (mm)		<11.0 (279)	<10.0 (254)	<11.0 (279)
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>		

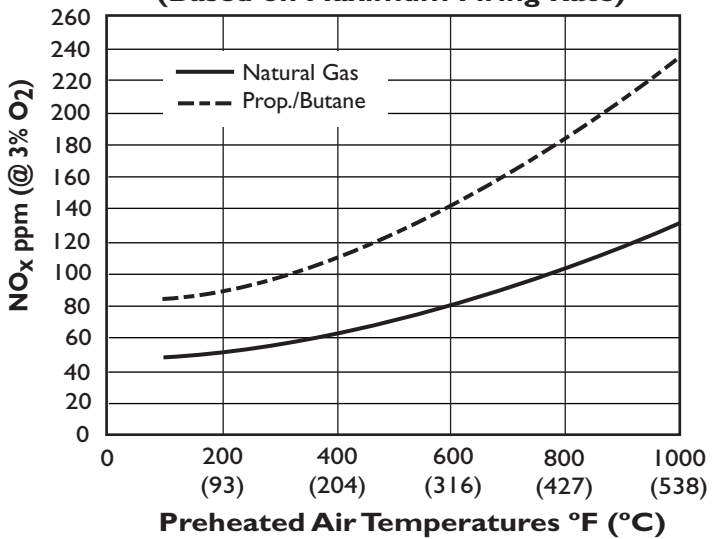
- All information is based on laboratory testing in neutral (0.0"w.c.) pressure chamber. Different chamber size and conditions may affect the data.
- All information is based on standard combustor design. Changes in the combustor will alter performance and pressures.
- All inputs based upon gross calorific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

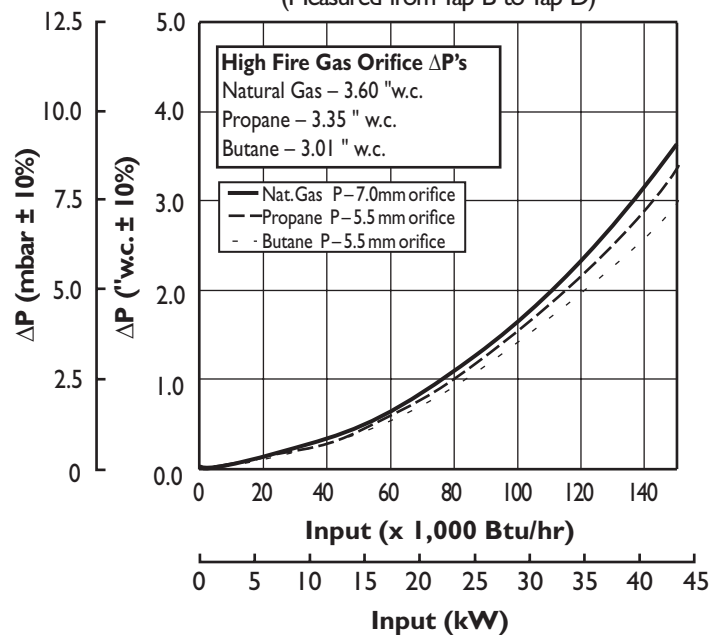


Emissions from the burner are influenced by:

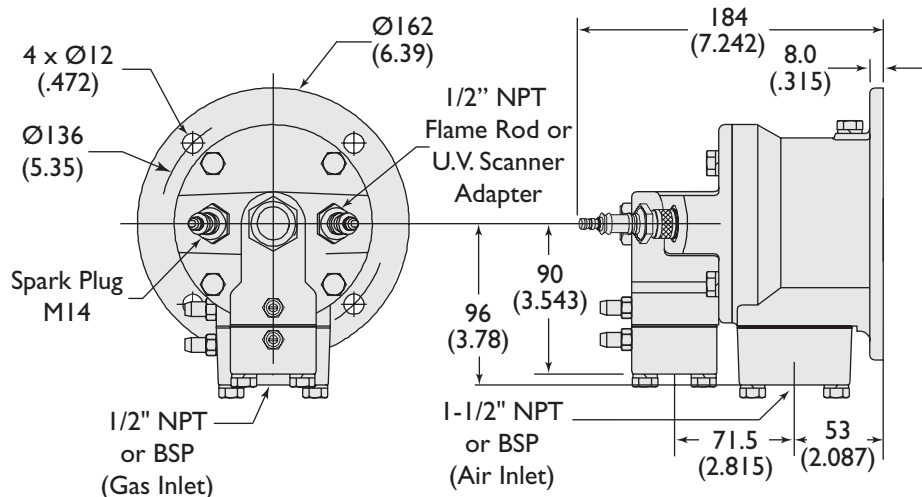
- Fuel type
- Combustion air temperature
- Firing rate
- Chamber Conditions
- Percent of excess air

For estimates of other emissions, contact Eclipse.

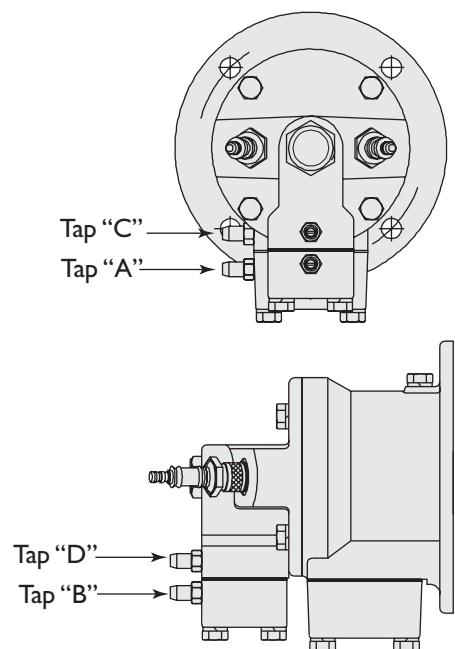
Gas Orifice ΔP vs. Input (Measured from Tap B to Tap D)



Dimensions & Specifications Millimeters (Inches)

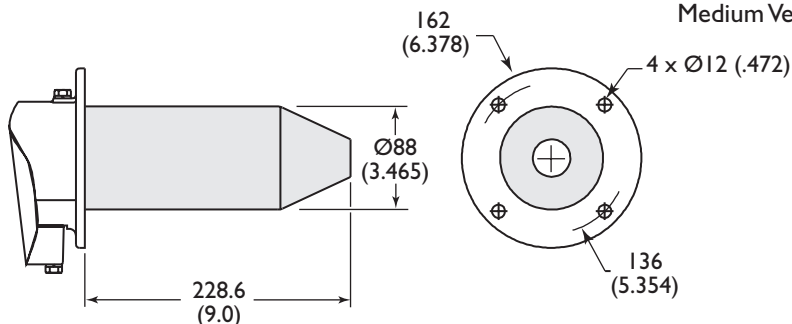


Burner Weight less combustor: 17.9 lb (8.1 kg)



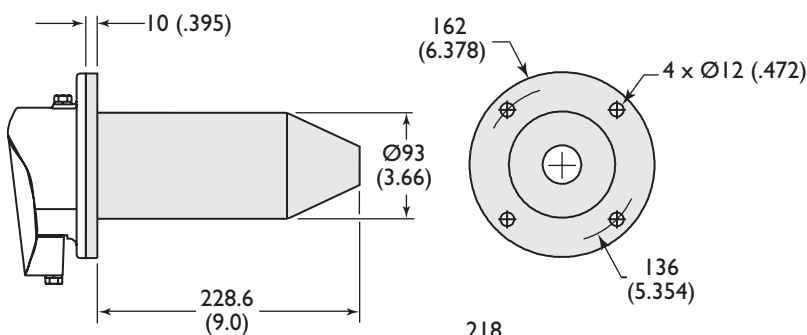
Combustor

Exhaust outlet diameter : High Velocity : Ø25 (.98)
 Medium Velocity : Ø32 (1.26)



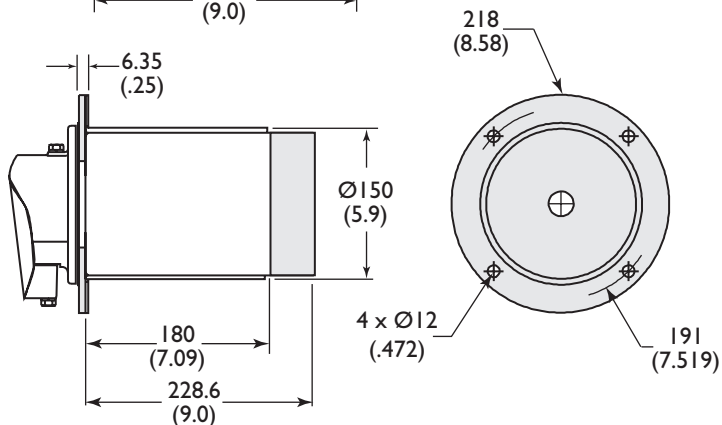
Alloy Tube (AISI 310)

Weight: 2.1 lbs. (0.95 kg)
 Max. Chamber Temp: 1,750°F (950°C)



Silicon Carbide Tube

Weight: 3.6 lb (1.63 kg)
 Max. Chamber Temp: 2,500°F (1371°C)



Refractory Block (w/330 SS wrapper)

Weight: 14 lb (6.35 kg)
 Max. Chamber Temp: 2,800°F (1538°C)



Offered By:

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