

Eclipse ThermJet

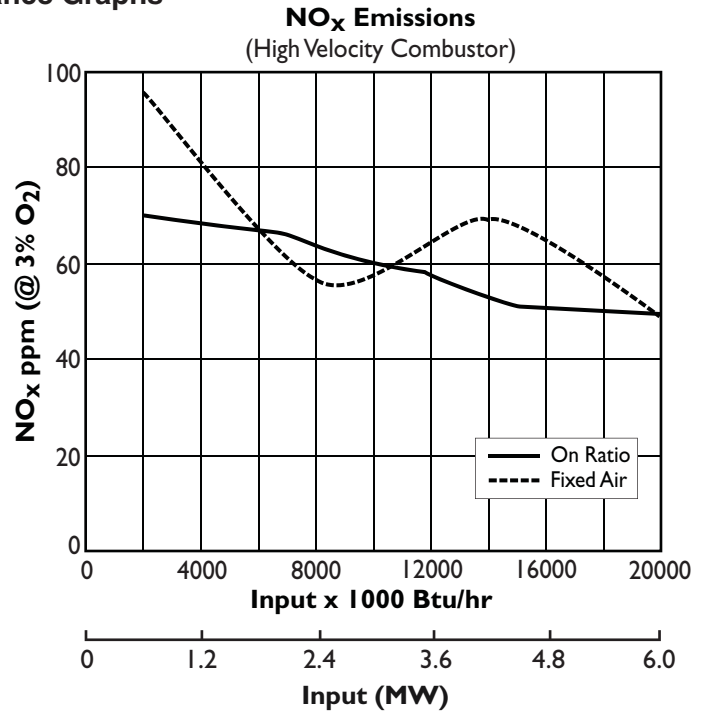
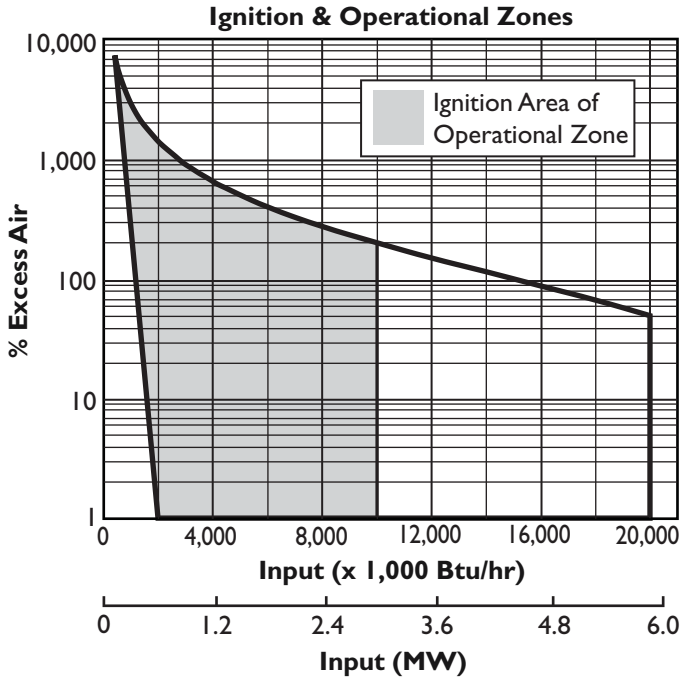
Burners

Model TJ2000
Version 2

PARAMETER	BURNER VELOCITY	MODEL TJ2000
Maximum input Btu/hr (kW)	Medium & High Velocity	20,000,000 (5860)
Minimum Input, on-ratio Btu/hr (kW)	Medium & High Velocity	2,000,000 (586)
Minimum Input, fixed air Btu/hr (kW)	Medium & High Velocity	400,000 (117)
Gas inlet pressure required "w.c. (mbar) • Fuel pressure at gas inlet (Tap "B" – see page 3)	High Velocity	Nat. Gas Propane Butane 13.5 (33.6) 13.5 (33.6) 13.5 (33.6)
	Medium Velocity	Nat. Gas Propane Butane 3.6 (9) 3.6 (9) 3.6 (9)
Air inlet pressure required "w.c. (mbar) • 15% excess air at maximum input (Tap "A" – see page 3)	High Velocity	Nat. Gas Propane Butane 21.0 (52.5) 21.0 (52.5) 21.0 (52.5)
	Medium Velocity	Nat. Gas Propane Butane 11.5 (29) 11.5 (29) 11.5 (29)
High Fire Flame Length Inches (mm) (measured from end of combustor)	High Velocity	Nat. Gas Propane Butane 84 (2134) 108 (2743) 108 (2743)
	Medium Velocity	Nat. Gas Propane Butane 168 (4267) 216 (5486) 216 (5486)
Maximum flame velocity ft/s (m/s) • 15% excess air, at maximum input	High Velocity	500 (152.4)
	Medium Velocity	250 (76.2)
Maximum combustion air temperature	300° F (149 °C) For higher temperatures, use TJPCA (Data 206)	
Flame detection	U.V. scanner only. (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.
- Do not install the burner with the gas inlet rotated 90° clockwise with respect to the air inlet if operating on natural gas using a flame rod.

Performance Graphs

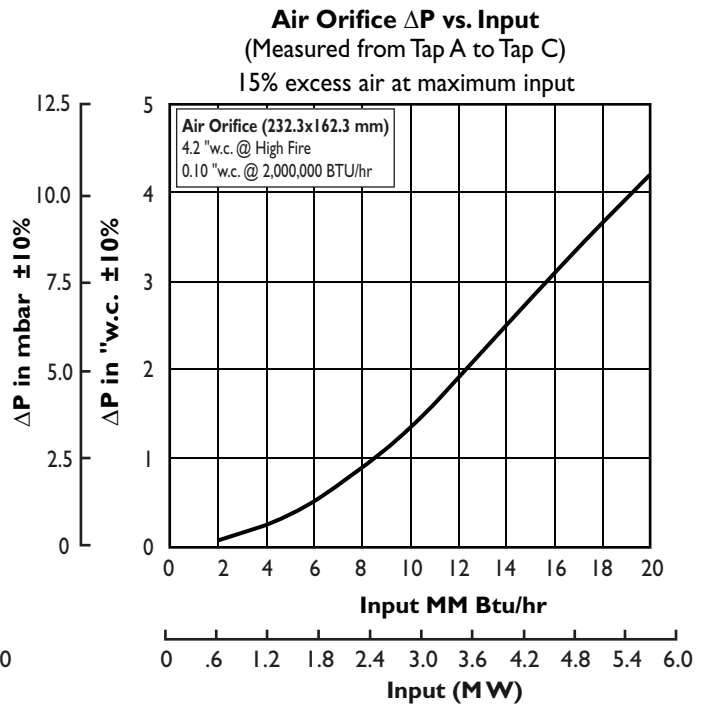
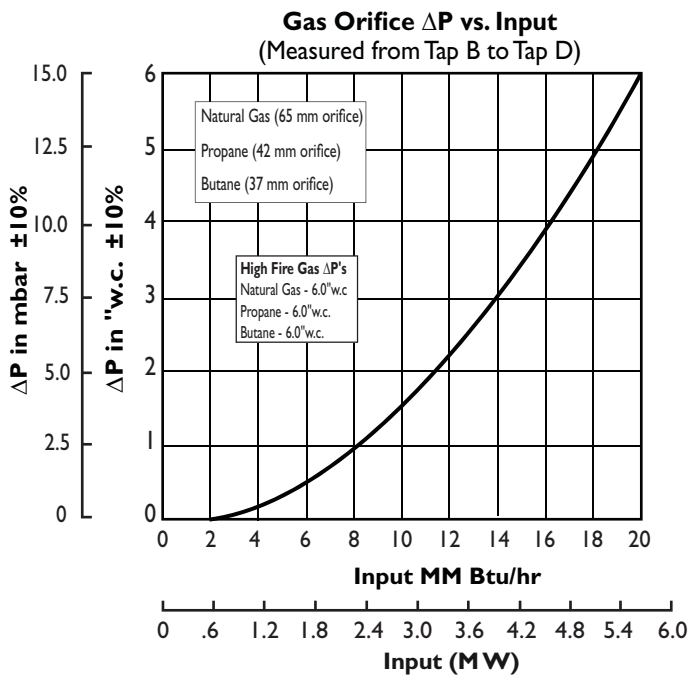


Correction factor for medium velocity combustor is 1.20
 Correction factor for propane or butane is 1.25
 Correction for both medium velocity and propane or butane is 1.50
 Fixed Air: High fire air is set to 3% O₂ and held constant while turning down the gas.

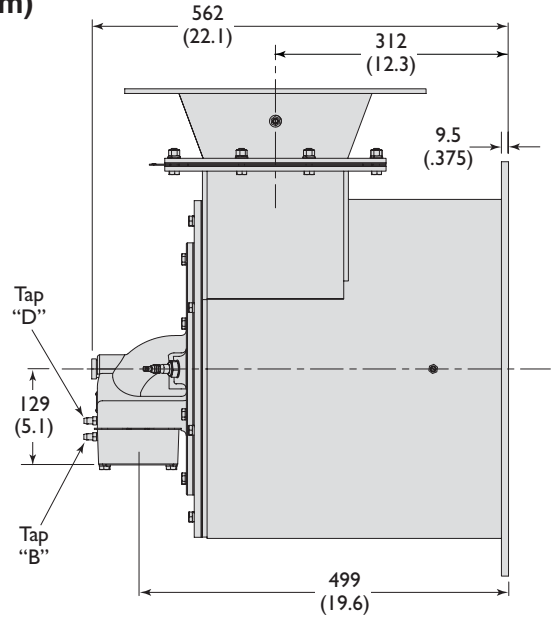
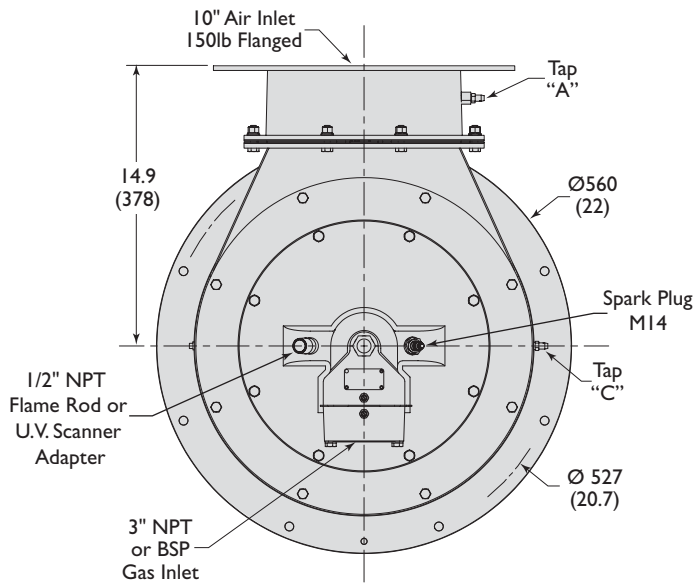
On Ratio: Combustion air is adjusted to 3% O₂ at any given input. Emissions from the burner are influenced by:

- fuel type
- combustion air temperature
- firing rate
- chamber conditions
- percent of excess air

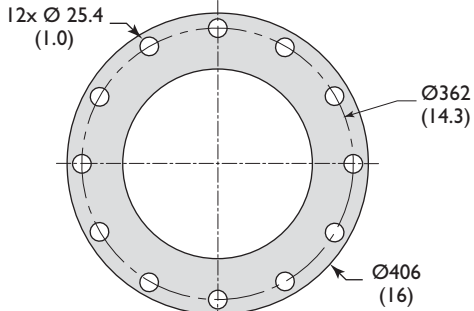
For estimates of other emissions, contact Eclipse.



Dimensions & Specifications Inches (mm)



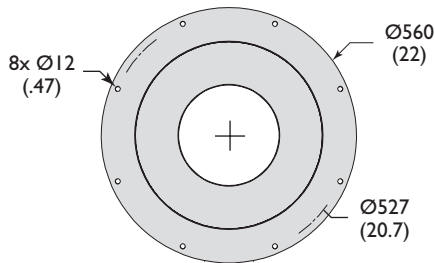
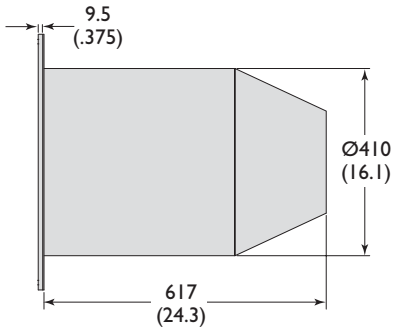
Burner weight less combustor: 208 lb (95 kg)



Air Inlet Mounting Detail

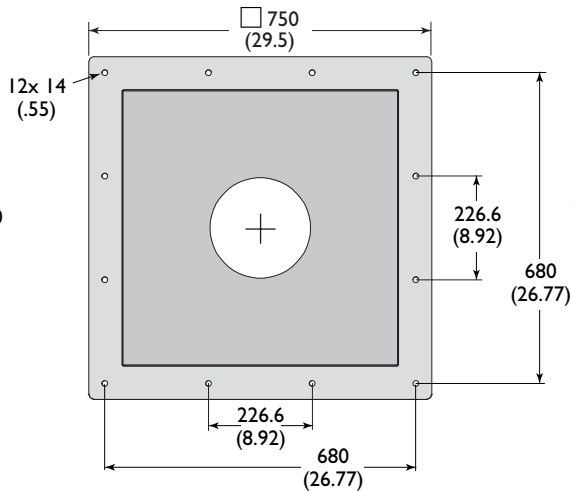
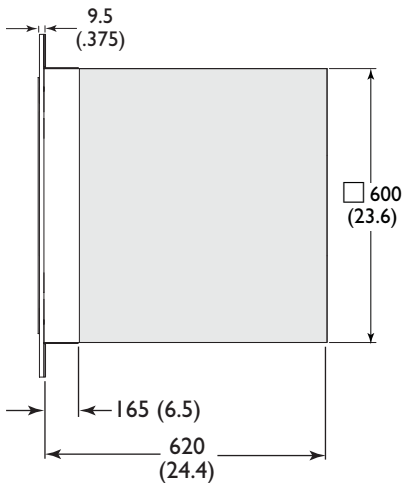
Combustor

Exhaust outlet diameter : High Velocity (tapered) : Ø260 (10.2)
Medium Velocity (straight) : Ø406 (16)



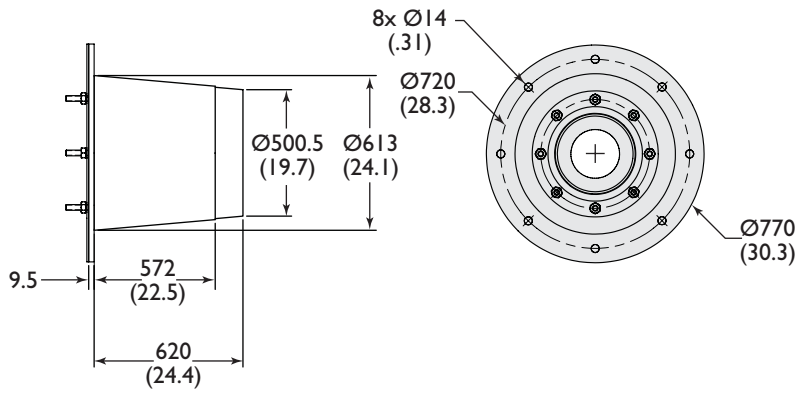
Alloy Tube (AISI 310)

Weight : 44 lb (20 kg)
Max. Chamber Temp : 1,750 °F (950°C)



Refractory Block (w/ 330 SS wrapper)

Weight : 1100 lb (499 kg)
Max. Chamber Temp : 2,800 °F (1535°C)



Down Firing Block
 Weight: 590lb (267.62 kg)
 Max. Chamber Temp: 2800°F (1535°C)



Offered By:

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