

Eclipse ThermJet Burners

for Preheated Combustion Air

Model TJPCA0750

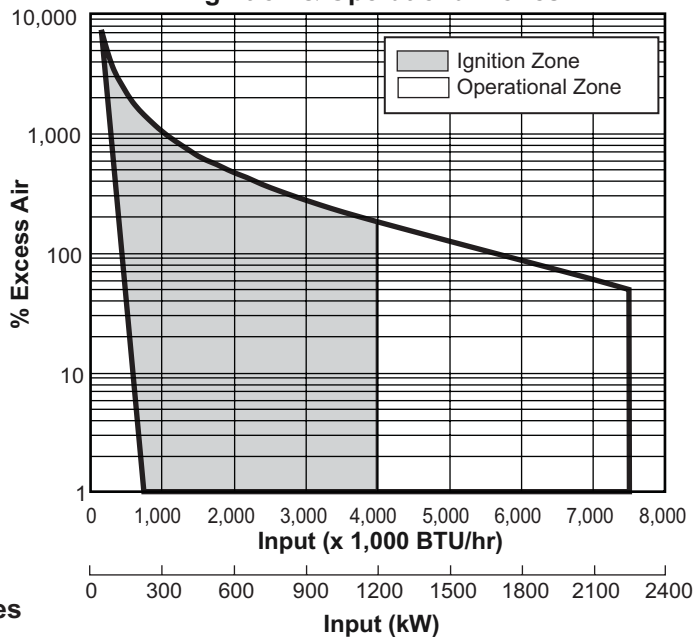
Version 2

| Parameter | | | Specifications | | |
|--|---------------------|---------------------------|--|---------------------|---------------------|
| | | | Natural 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 Required "w.c. (mbar) Fuel Pressure at Gas Inlet <i>(Tap "B" - see page 3)</i> | Combustion Air Temp | Ambient | 6.7 (16.6) | 6.7 (16.6) | 6.7 (16.6) |
| | | 300°F (150°C) | 9.3 (23.0) | 9.3 (23.0) | 9.3 (23.0) |
| | | 700°F (370°C) | 13.9 (34.6) | 13.9 (34.6) | 13.9 (34.6) |
| | | 1000°F (540°C) | - | - | - |
| Air Inlet Pressure Required "w.c. (mbar) 15% Excess Air at Maximum Input <i>(tap "a" - see page 3)</i> | Combustion Air Temp | Ambient | 6.3 (15.7) | 6.3 (15.7) | 6.3 (15.7) |
| | | 300°F (150°C) | 8.9 (22.2) | 8.9 (22.2) | 8.9 (22.2) |
| | | 700°F (370°C) | 13.5 (33.6) | 13.5 (33.6) | 13.5 (33.6) |
| | | 1000°F (540°C) | - | - | - |
| High Fire Flame Length Inches (mm) <i>(Measured from End of Combustor)</i> | | | <125.0 (3175) | <125.0 (3175) | <130.0 (3302) |
| Flame Detection | | | UV scanner available for all combustors. | | |
| Fuel <i>For any other mixed gas, contact Eclipse for orifice sizing.</i> | | | Natural gas, propane, or butane. | | |

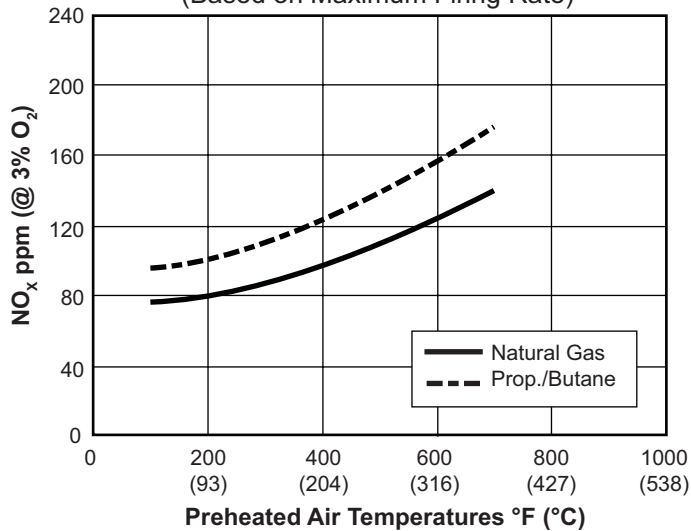
- All information is based on laboratory testing in neutral (0.0" w.c.) pressure chamber. Different chamber size and conditions may affect the data.
- All information is based on standard combustor design. Changes in combustor will alter performance and pressures.
- All inputs based upon gross calorific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

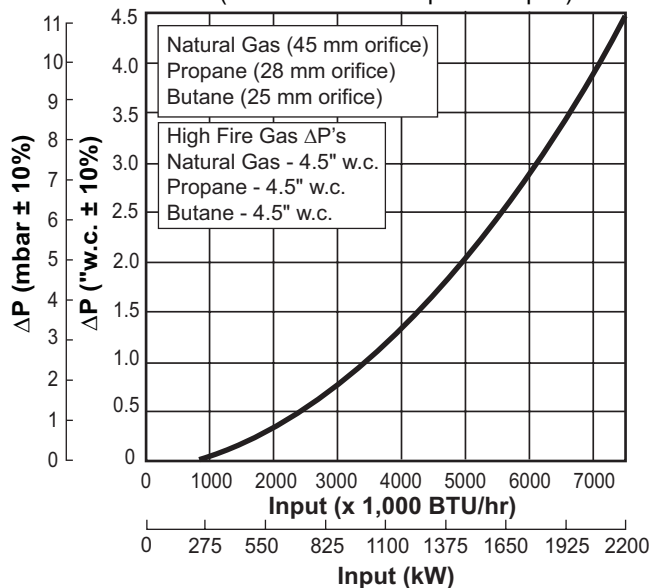


Emissions from the burner are influenced by:

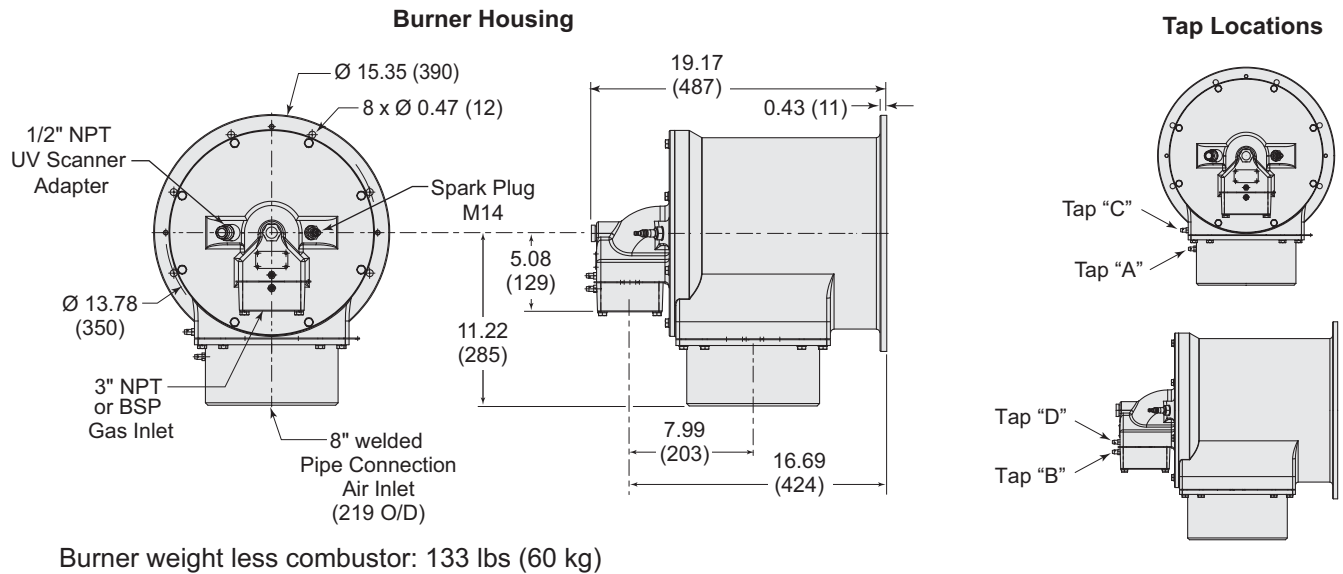
- Fuel type
- Combustion air temperature
- Firing rate
- Chamber conditions
- Percent of excess air

For estimates of other emissions, contact Eclipse.

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

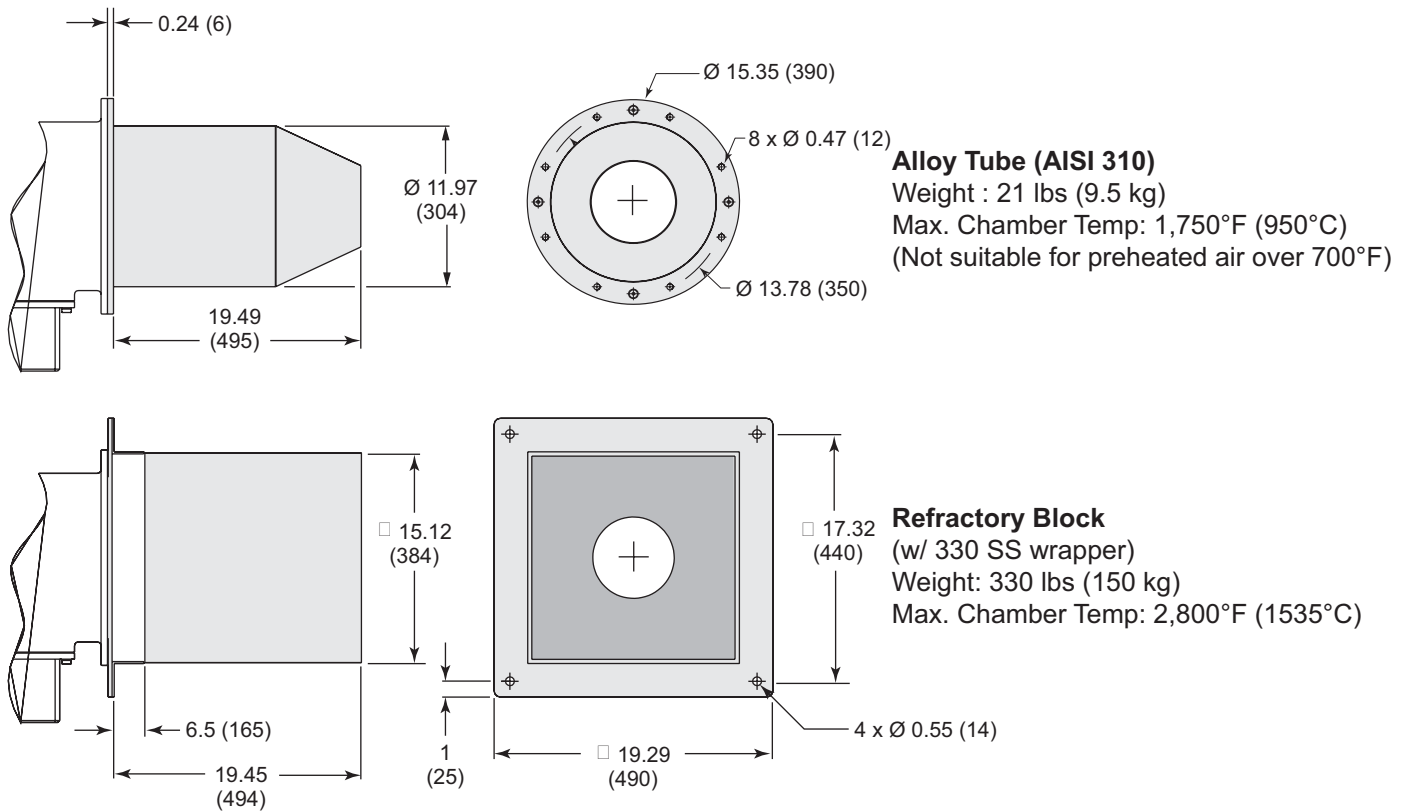


Dimensions in inches (mm)

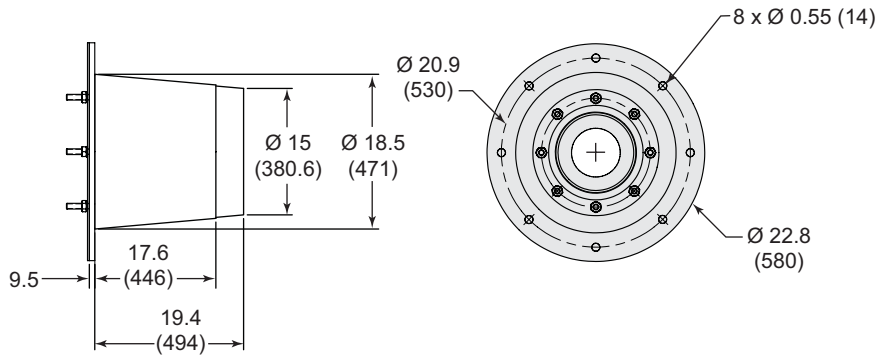


Combustor

Exhaust Outlet Diameter - Medium Velocity: $\text{Ø } 8.66$ (220)



Down Firing Block



Weight: 310 lbs (140.61 kg)
Max. Chamber Temp: 2800°F (1535°C)



Offered By:

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