**Eclipse ThermJet Burners**

for Preheated Combustion Air

*Model TJPCA0200*

**Parameter** | **Specifications**
---|---
Maximum Input BTU/hr (kW) | Natural Gas | Propane | Butane |
| | 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 Required "w.c. (mbar) Fuel Pressure at Gas Inlet (Tap "B" - see page 3) | Ambient | 300°F (150°C) | 700°F (370°C) | 1000°F (540°C) |
| | 7.1 (17.6) | 8.7 (21.6) | 11.6 (28.7) | 13.7 (34.1) |
| | 8.5 (21.1) | 10.5 (26.1) | 14.1 (35.1) | 16.8 (41.8) |
| | 6.9 (17.1) | 8.9 (22.1) | 12.5 (31.1) | 15.2 (37.9) |
Air Inlet Pressure Required "w.c. (mbar) 15% Excess Air at Maximum Input (Tap "A" - see page 3) | Ambient | 300°F (150°C) | 700°F (370°C) | 1000°F (540°C) |
| | 7.8 (19.4) | 11.2 (27.9) | 17.1 (42.6) | 21.5 (53.6) |
| | 7.8 (19.4) | 11.2 (27.9) | 17.1 (42.6) | 21.5 (53.6) |
| | 7.8 (19.4) | 11.2 (27.9) | 17.1 (42.6) | 21.5 (53.6) |
High Fire Flame Length Inches (mm) (Measured from End of Combustor) | <36.0 (915) | <32.0 (810) | <32.0 (810) |
Flame Detection | UV scanner available for all combustors. |
Fuel | 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.
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.
Burner Housing

Dimensions in inches (mm)

Burner weight less combustor: 42 lbs (19 kg)

Do not install the burner with the gas inlet rotated 90° clockwise with respect to the air inlet if operating on Natural Gas and using a flamerod.
Combustor
Exhaust Outlet Diameter: Medium Velocity Ø4.13 (105)

Alloy Tube (AISI 310)
Weight: 4.2 lbs (1.9 kg)
Maximum Chamber Temp: 1,750°F (940°C)
(Not suitable for preheated air over 700°F)

Silicon Carbide Tube
Weight: 3.1 lbs (1.5 kg)
Maximum Chamber Temp: 2,200°F (1200°C)

Refractory Block
(w/330 SS Wrapper)
Weight: 66 lbs (30 kg)
Maximum Chamber Temp: 2,800°F (1538°C)