1. All imperial inputs based upon gross calorific values (HHV). All metric inputs based upon net calorific values (LHV).

2. See Design Guide 205 for more information about typical fuel composition and properties.

- All information is based on laboratory testing in neutral (0 °C, 0 mbar) pressure chamber. Different chamber 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 standard conditions; 1 atmosphere, 70°F (21°C).
- 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.

### Parameter Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maximum Input, Btu/h (kW)</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Natural Gas 7,500,000 (1978)</td>
</tr>
<tr>
<td><strong>Minimum Input, Btu/h (kW)</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td>750,000 (198)</td>
</tr>
<tr>
<td><strong>Main Gas Inlet Pressure, °w.c. (mbar)</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td><strong>Ambient</strong> 6.7 (16.6)</td>
</tr>
<tr>
<td></td>
<td><strong>300°F (150°C)</strong> 9.3 (23.0)</td>
</tr>
<tr>
<td></td>
<td><strong>700°F (370°C)</strong> 13.9 (34.6)</td>
</tr>
<tr>
<td><strong>Air Inlet Pressure, °w.c. (mbar)</strong></td>
<td><strong>Ambient</strong> 6.3 (15.7)</td>
</tr>
<tr>
<td></td>
<td><strong>300°F (150°C)</strong> 8.9 (22.2)</td>
</tr>
<tr>
<td></td>
<td><strong>700°F (370°C)</strong> 13.5 (33.6)</td>
</tr>
<tr>
<td><strong>Maximum Preheated Air Temperature</strong></td>
<td>700°F (370°C)</td>
</tr>
<tr>
<td><strong>High Fire Visible Flame Length, inches (mm)</strong></td>
<td>&lt;125.0 (3175)</td>
</tr>
<tr>
<td><strong>Flame Detection</strong></td>
<td>UV scanner available for all combustors.</td>
</tr>
<tr>
<td><strong>Fuels</strong>&lt;sup&gt;2&lt;/sup&gt;</td>
<td>Natural gas, Propane, or Butane</td>
</tr>
</tbody>
</table>

<sup>1</sup> For any other mixed gas, contact Eclipse for orifice sizing.

<sup>2</sup> For any other mixed gas, contact Eclipse for orifice sizing.
Performance Graphs

Ignition and Operation Zone

Fuel Orifice $\Delta p$ vs. Input
($\Delta p$ Measured Between Taps B and D)

Natural Gas $\Delta p$ - 45 mm orifice
Propane $\Delta p$ - 28 mm orifice
Butane $\Delta p$ - 25 mm orifice

Fuel Orifice $\Delta p$ vs. Input
($\Delta p$ Measured Between Taps B and D)

Natural Gas $\Delta p$ - 45 mm orifice
Propane $\Delta p$ - 28 mm orifice
Butane $\Delta p$ - 25 mm orifice
Dimensions and Specifications
Dimensions in mm (inches)

Burner Housing

Burner weight less combustor: 133 lbs (60 kg)

Tap Locations

Tap C

Tap D

Tap B
Dimensions and Specifications
Dimensions in mm (inches)

Combustors

Alloy Combustor (AISI 310)
Weight: 21 lbs (9.5 kg)
Maximum Chamber Temp: 1,750°F (950°C)
[Not Suitable for Preheated Air Over 700°F (371°C)]

Refractory Combustor with AISI 330 wrapper
Weight: 330 lbs (150 kg)
Maximum Chamber Temp: 2,800°F (1,538°C)

Down Firing Block with AISI 330 wrapper
Weight: 310 lbs (140.6 kg)
Maximum Chamber Temp: 2,800°F (1,538°C)

NOTE: Mounting gasket shown on right side of combustor flange.
Dimensions shown do not account for mounting gasket.