1 Different fuels require different nozzles and orifices.

- All information is based on laboratory testing with a tube effective length of 51.7 feet (15.76 m). Different tube sizes and conditions may affect the data.
- All information is based on standard tube design. Changes in the tube will alter performance and pressures.
- All inputs based upon gross calorific values (HHV).
- 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.
- Packaged blower performance data based on 60 Hz.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Blower Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blower Type</td>
<td>Packaged Blower (60 Hz)</td>
</tr>
<tr>
<td></td>
<td>Remote Blower</td>
</tr>
<tr>
<td>Maximum Input BTU/hr (kW)</td>
<td>3,500,000 (1024.8)</td>
</tr>
<tr>
<td></td>
<td>4,800,000 (1405.5)</td>
</tr>
<tr>
<td>Minimum Input BTU/hr (kW)</td>
<td>300,000 (87.9)</td>
</tr>
<tr>
<td></td>
<td>300,000 (87.9)</td>
</tr>
<tr>
<td>Air Inlet Pressure &quot;w.c. (mbar) @ Max Input</td>
<td>16.5 (41.1)</td>
</tr>
<tr>
<td>Air pressure at burner inlet (Tap “A”)</td>
<td>19.5 (48.6)</td>
</tr>
<tr>
<td>Blower Motor Hp (kW)</td>
<td>3.0 (2.2)</td>
</tr>
<tr>
<td></td>
<td>As Specified</td>
</tr>
<tr>
<td>Main Gas Pressure Supplied to Regulator</td>
<td>21 - 125 (52.3 - 311.4)</td>
</tr>
<tr>
<td>&quot;w.c. (mbar)</td>
<td>28 - 128 (69.8 - 318.8)</td>
</tr>
<tr>
<td>Backpressure &quot;w.c. (mbar)</td>
<td>2.0 (4.9)</td>
</tr>
<tr>
<td></td>
<td>3.8 (9.5)</td>
</tr>
<tr>
<td>Weight lbs (kg)</td>
<td>290 (131)</td>
</tr>
<tr>
<td></td>
<td>185 (84)</td>
</tr>
<tr>
<td>CO Emissions (ppm)</td>
<td>&lt;100</td>
</tr>
<tr>
<td></td>
<td>&lt;100</td>
</tr>
<tr>
<td>Piping</td>
<td>NPT or BSP</td>
</tr>
<tr>
<td>Flame Detection</td>
<td>Flamerod or UV Scanner</td>
</tr>
<tr>
<td>Fuel</td>
<td>Natural Gas, Propane, Butane</td>
</tr>
<tr>
<td>(\text{For any other mixed gas, contact Eclipse.})</td>
<td></td>
</tr>
</tbody>
</table>

1 Different fuels require different nozzles and orifices.
Performance Graphs
Typical Operational Curve & Ignition Zone
(Natural Gas, Propane & Butane)

Ignition Zone (A slow acting solenoid or a solenoid positioned between ratio regulator and burner is required.)

Operational Curve

% Excess Air

50%
75%
25%

Input as a percentage from low fire to high fire

Low Fire
300,000 BTU/hr (87.9 kW)
(Regardless of Blower)

High Fire:
3,500,000 BTU/hr (1025.7 kW) (High Pressure Blower)
4,800,000 BTU/hr (1406.7 kW) (Remote Blower)

Gas Orifice $\Delta p$ vs. Input
Measured from Tap “B” to Tap “D”

Air Orifice $\Delta p$ vs. Input
Measured from Tap “A” to Tap “C”

Loading Line Pressure vs. Input
Measured at Tap “A”

1 Butane Packaged
2 Propane Packaged
3 Natural Gas Packaged
4 Butane Remote
5 Propane Remote
6 Natural Gas Remote

1 Butane Packaged
2 Natural Gas / Propane Packaged
3 Natural Gas Remote
4 Propane / Butane Remote
5 Natural Gas Remote
**Dimensions & Specifications**

Dimensions in mm (Inches)

- **To Center Line**
  - Gas Inlet: 1016 (40), 259 (10.2)
  - Filter/silencer option shown in gray: 12 (0.5)
  - Adapter to tank wall: 101.6 (4)

- **Maximum**
  - 560 (22.1), 676 (26.6)

- **Flame Rod**
  - 31 (1.2)

- **Spark Rod**
  - 80 (3.1)

- **2.0” NPT or BSP Gas Inlet**
  - 481 (18.9)

- **4” NPT or BSP Air Inlet**
  - 211 (8.3)

- **Remote Blower**
  - Tap “C”
  - Tap “A”
  - Tap “B”
  - Tap “D”

- **High Pressure Blower**
  - 533 (20.98), 362 (14.3), 320 (12.6), 1013 (39.9), 604 (23.8)

Note: See Remote Blower drawing below for Tap locations.

See above drawing for Spark and Flame Rod dimension details.