Different fuels require different nozzles and orifices.

- All information is based on laboratory testing with a tube effective length of 50.4 feet (15.4 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 based on 60 Hz.

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### Eclipse ImmersoJet Burners

**Model 6"IJ**

**Version 2**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Low Pressure Packaged Burner (60 Hz)</th>
<th>High Pressure Packaged Burner (60 Hz)</th>
<th>Remote Blower</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Blower Type</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Maximum Input BTU/hr (kW)</strong></td>
<td>2,000,000 (586.1)</td>
<td>2,500,000 (732.7)</td>
<td>3,600,000 (1055.1)</td>
</tr>
<tr>
<td><strong>Minimum Input BTU/hr (kW)</strong></td>
<td>300,000 (87.9)</td>
<td>300,000 (87.9)</td>
<td>300,000 (87.9)</td>
</tr>
<tr>
<td><strong>Air Inlet Pressure &quot;w.c. (mbar) @ Max Input</strong></td>
<td>9 (22.4)</td>
<td>14.4 (35.8)</td>
<td>30 (74.7)</td>
</tr>
<tr>
<td><strong>Air pressure at burner inlet (Tap “A”)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Blower Motor Hp (kW)</strong></td>
<td>1.5 (1.1)</td>
<td>3.0 (2.2)</td>
<td>As Specified</td>
</tr>
<tr>
<td><strong>Main Gas Pressure Supplied to Regulator &quot;w.c. (mbar)&quot;</strong></td>
<td>14 - 125 (34.8 - 311)</td>
<td>21 - 125 (52 - 311)</td>
<td>41 - 125 (102 - 311)</td>
</tr>
<tr>
<td><strong>Backpressure &quot;w.c. (mbar)</strong></td>
<td>2.6 (6.5)</td>
<td>4 (9.9)</td>
<td>8.3 (20.6)</td>
</tr>
<tr>
<td><strong>Weight lbs (kg)</strong></td>
<td>275 (125)</td>
<td>290 (131)</td>
<td>185 (84)</td>
</tr>
<tr>
<td><strong>CO Emissions (ppm)</strong></td>
<td>&lt;100</td>
<td>&lt;100</td>
<td>&lt;100</td>
</tr>
<tr>
<td><strong>Piping</strong></td>
<td>N.P.T. or B.S.P.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Flame Detection</strong></td>
<td>Flamerod or UV Scanner</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fuel</strong></td>
<td>Natural Gas, Propane, Butane</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For any other mixed gas, contact Eclipse.

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

% Excess Air

Input as a percentage from low fire to high fire

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

High Fire:
2,000,000 BTU/hr (586.1 kW) (Low Pressure Blower)
2,500,000 BTU/hr (732.7 kW) (High Pressure Blower)
3,600,000 BTU/hr (1055 kW) (Remote Blower)

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

Air Orifice $\Delta P$ vs. Input @ 3% $O_2$
Measured from Tap “A” to Tap “C”

Performance Graphs
Dimensions & Specifications
Dimensions in mm (inches)

Note: See Remote Blower drawing below for Tap locations.

Tap "A"
Tap "B"
Tap "C"
Tap "D"

Remote Blower

See above drawing for Spark and Flame Rod dimension details.