## ImmersoJet Burners

### Model IJ-2

Version 2

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### Parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Low Pressure Packaged Blower (60 Hz)</th>
<th>High Pressure Packaged Blower (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>190,000 (55.6)</td>
<td>235,000 (56.1)</td>
<td>340,000 (100)</td>
</tr>
<tr>
<td><strong>Minimum Input BTU/hr (kW)</strong></td>
<td>25,000 (7.3)</td>
<td>25,000 (7.3)</td>
<td>25,000 (7.3)</td>
</tr>
<tr>
<td><strong>Air Inlet Pressure &quot;w.c. (mbar) @ Max Input</strong></td>
<td>7.4 (18.4)</td>
<td>10.8 (26.8)</td>
<td>26.5 (65.9)</td>
</tr>
<tr>
<td>Air pressure at burner inlet (Tap “A”)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Blower Motor Hp (kW)</strong></td>
<td>0.25 (0.19)</td>
<td>0.33 (0.25)</td>
<td>As Specified</td>
</tr>
<tr>
<td><strong>Main Gas Pressure Supplied to Regulator &quot;w.c. (mbar)&quot;</strong></td>
<td>10.0 - 27.7 (24.9 - 68.9)</td>
<td>13.0 - 27.7 (32.3 - 68.9)</td>
<td>27.0 - 27.7 (67.2 - 68.9)</td>
</tr>
<tr>
<td><strong>Backpressure &quot;w.c. (mbar)&quot;</strong></td>
<td>1.0 (2.5)</td>
<td>1.5 (3.7)</td>
<td>3.7 (9.2)</td>
</tr>
<tr>
<td><strong>Weight lbs (kg)</strong></td>
<td>70 (31.8)</td>
<td>75 (34)</td>
<td>45 (20)</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>NPT or BSP</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.**

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1 Different fuels require different nozzles and orifices.

- All information is based on laboratory testing with a tube effective length of 21.6 feet (6.58 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.
Performance Graphs

Typical Operational Curve & Ignition Zone
(Natural Gas, Propane, & Butane)

Ignition Zone
Operational Curve

% Excess Air

Input as a percent from low fire to high fire

Low Fire:
25,000 BTU/hr (8.2 kW)
(Regardless of Blower)

High Fire:
190,000 BTU/hr (55.7 kW) (6” w.c. Blower)
235,000 BTU/hr (68.9 kW) (10” w.c. Blower)
370,000 BTU/hr (108.4 kW) (Remote Blower)

Gas Orifice ∆p vs. Input
Measured from Tap “B” to Tap “D”

Air Orifice ∆p vs. Input @ 3% O₂
Measured from Tap “A” to Tap “C”

Pressure Drop (mbar)

Input kW

Input x1000 BTU/hr
Dimensions & Specifications
Dimensions in mm (Inches)

Note: See Remote Blower drawing below for Tap locations.

Remote Blower

See above drawing for Spark and Flame Rod dimension details.