**1 Different fuels require different nozzles and orifices.**

- All information is based on laboratory testing with a tube effective length of 51.75 feet (15.77 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.

### ImmersoJet

**Burners**

Model IJ-4

Version 2

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Blower Type</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>Maximum Input BTU/hr (kW)</td>
<td>830,000 (243.3)</td>
<td>1,000,000 (293.1)</td>
<td>1,800,000 (527.5)</td>
<td></td>
</tr>
<tr>
<td>Minimum Input BTU/hr (kW)</td>
<td>100,000 (29.3)</td>
<td>100,000 (29.3)</td>
<td>100,000 (29.3)</td>
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</tr>
<tr>
<td>Air Inlet Pressure &quot;w.c. (mbar) @ Max Input Air pressure at burner inlet (Tap &quot;A&quot;)</td>
<td>7.8 (19.4)</td>
<td>10.5 (26.2)</td>
<td>33 (82.2)</td>
<td></td>
</tr>
<tr>
<td>Blower Motor Hp (kW)</td>
<td>0.5 (0.37)</td>
<td>1.0 (0.75)</td>
<td>As Specified</td>
<td></td>
</tr>
<tr>
<td>Main Gas Pressure Supplied to Regulator &quot;w.c. (mbar)</td>
<td>14 - 125 (34.9 - 311.4)</td>
<td>13 - 125 (32.4 - 311.4)</td>
<td>34 - 125 (84.7 - 311.4)</td>
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</tr>
<tr>
<td>Backpressure &quot;w.c. (mbar)</td>
<td>2.0 (4.9)</td>
<td>3.8 (9.5)</td>
<td>12.2 (30.4)</td>
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</tr>
<tr>
<td>Weight lbs (kg)</td>
<td>115 (52)</td>
<td>120 (54)</td>
<td>75 (34)</td>
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</tr>
<tr>
<td>CO Emissions (ppm)</td>
<td>&lt;100</td>
<td>&lt;100</td>
<td>&lt;100</td>
<td></td>
</tr>
<tr>
<td>Piping</td>
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<td>NPT or BSP</td>
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<td></td>
</tr>
<tr>
<td>Flame Detection</td>
<td></td>
<td>Flamerod or UV Scanner</td>
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<td></td>
</tr>
<tr>
<td>Fuel$^1$</td>
<td></td>
<td>Natural Gas, Propane, Butane</td>
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<td></td>
</tr>
<tr>
<td>Approvals</td>
<td></td>
<td><a href="#">ImmersoJet Burners</a></td>
<td></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)

Low Fire:
100,000 BTU/hr (29.31 kW)
(Regardless of Blower)

High Fire:
830,000 BTU/hr (243.25 kW) (6” w.c. Blower)
1,000,000 BTU/hr (293.07 kW) (10” w.c. Blower)
1,800,000 BTU/hr (527.53 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”
**Dimensions & Specifications**

**Dimensions in mm (Inches)**

Note: See Remote Blower drawing below for Tap locations.

### View AA

- Ø270 (10.6)
- Ø110.5 (4.4)
- Ø238 (9.4)
- 8x Ø12 (0.5)
- 8x45°
- 22.5°

### Remote Blower

See above drawing for Spark and Flame Rod dimension details.