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 data based on 60 Hz.

**ImmersoJet**

**Burners**

*Model IJ-6*

*Version 2*

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Blower Type</th>
<th>Blower Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Low Pressure Packaged Blower (60 Hz)</td>
<td>High Pressure Packaged Blower (60 Hz)</td>
</tr>
<tr>
<td>Maximum Input BTU/hr (kW)</td>
<td>2,000,000 (586,1)</td>
<td>2,500,000 (732,7)</td>
</tr>
<tr>
<td>Minimum Input BTU/hr (kW)</td>
<td>300,000 (87,9)</td>
<td>300,000 (87,9)</td>
</tr>
<tr>
<td>Air Inlet Pressure &quot;w.c. (mbar) @ Max Input Air pressure at burner inlet (Tap &quot;A&quot;)</td>
<td>9 (22,4)</td>
<td>14.4 (35,8)</td>
</tr>
<tr>
<td>Blower Motor Hp (kW)</td>
<td>1.5 (1,1)</td>
<td>3.0 (2,2)</td>
</tr>
<tr>
<td>Main Gas Pressure Supplied to Regulator &quot;w.c. (mbar)</td>
<td>14 - 125 (34,8 - 311)</td>
<td>21 - 125 (52 - 311)</td>
</tr>
<tr>
<td>Backpressure &quot;w.c. (mbar)</td>
<td>2.6 (6,5)</td>
<td>4 (9,9)</td>
</tr>
<tr>
<td>Weight lbs (kg)</td>
<td>275 (125)</td>
<td>290 (131)</td>
</tr>
<tr>
<td>CO Emissions (ppm)</td>
<td>&lt;100</td>
<td>&lt;100</td>
</tr>
<tr>
<td>Piping</td>
<td>NPT or BSP</td>
<td></td>
</tr>
<tr>
<td>Flame Detection</td>
<td>Flamerod or UV Scanner</td>
<td></td>
</tr>
<tr>
<td>Fuel¹</td>
<td>Natural Gas, Propane, Butane</td>
<td></td>
</tr>
</tbody>
</table>

*For any other mixed gas, contact Eclipse.*
Performance Graphs

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

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”
**Dimensions & Specifications**

Dimensions in mm (Inches)

---

**View AA**

- **Spark Rod**: 8xØ12 (0.47)
- **Flame Rod**: Ø328 (12.91), 8xØ12 (0.47)
- **Filter/silencer option shown in gray**

---

**Remote Blower**

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

---

**Technical Details**

<table>
<thead>
<tr>
<th></th>
<th>A (60 Hz)</th>
<th>B (50 Hz)</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Pressure Blower</td>
<td>508 (20.00)</td>
<td>330 (12.99)</td>
<td>306 (12.04)</td>
<td>958 (37.71)</td>
</tr>
<tr>
<td>High Pressure Blower</td>
<td>533 (20.98)</td>
<td>362 (14.25)</td>
<td>320 (12.60)</td>
<td>1013 (39.88)</td>
</tr>
</tbody>
</table>

---

*Note: See Remote Blower drawing below for Tap locations.*

---

*See above drawing for Spark and Flame Rod dimension details.*

---

Eclipse ImmersoJet IJ-6, V2, Data 330-6, 11/9/2009