# ImmersoJet Burners

## Model 6” IJ

**Version 2**

### Main Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Blower Type</th>
<th>Maximum Input (Btu/hr)</th>
<th>Minimum Input (Btu/hr)</th>
<th>Air Inlet Pressure (“w.c.”) @Max. Input</th>
<th>Blower Motor Horse Power</th>
<th>Main Gas Pressure (“w.c.”) into regulator</th>
<th>Tube Backpressure (“w.c.”)</th>
<th>Weight-less actuator (lbs)</th>
<th>CO emissions (ppm)</th>
<th>Piping</th>
<th>Flame Detection</th>
<th>Fuel (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10”w.c. Packaged (60Hz)</td>
<td>2,000,000</td>
<td>300,000</td>
<td>9</td>
<td>1.5</td>
<td>Max.</td>
<td>125</td>
<td>2.6</td>
<td>275</td>
<td>&lt;100</td>
<td>N.P.T. or B.S.P.</td>
<td>Natural gas, Propane, Butane</td>
</tr>
<tr>
<td></td>
<td>15”w.c. Packaged (60Hz)</td>
<td>2,500,000</td>
<td>300,000</td>
<td>14</td>
<td>3.0</td>
<td>Min.</td>
<td>125</td>
<td>4</td>
<td>290</td>
<td>&lt;100</td>
<td>Flamerod or U.V. Scanner.</td>
<td>For any other mixed gas, contact Eclipse for orifice sizing.</td>
</tr>
<tr>
<td></td>
<td>Remote Blower</td>
<td>3,600,000</td>
<td>300,000</td>
<td>14</td>
<td>125</td>
<td></td>
<td>21</td>
<td>4</td>
<td>185</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(1) Different fuels require different nozzles and orifices.

- All information is based on laboratory testing with a tube effective length of 50.4 feet. 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 caloric values.
- 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.
Performance Data

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

Input as a percentage from low fire to high fire

% Excess Air

Low Fire
300,000 Btu/hr.
(Regardless of Blower)

High Fire:
2,000,000 Btu/hr (Low Pressure Blower)
2,500,000 Btu/hr (High Pressure w.c. Blower)
3,600,000 Btu/hr (Remote Blower)

Gas Orifice ΔP vs. Input
Measured from Tap "B" to Tap "D"

Air Orifice ΔP vs. Input @ 3% O₂
Measured from Tap "A" to Tap "C"

[Graphs showing pressure drop vs. input for gas and air orifices for different fuels and excess air levels]
Dimensions & Specifications
Dimensions in mm (inches)

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low pressure blower</td>
<td>508mm</td>
<td>330mm</td>
<td>306mm</td>
<td>958mm</td>
</tr>
<tr>
<td></td>
<td>(20.00&quot;)</td>
<td>(12.99&quot;)</td>
<td>(12.04&quot;)</td>
<td>(37.71&quot;)</td>
</tr>
<tr>
<td>High pressure blower</td>
<td>533mm</td>
<td>362mm</td>
<td>320mm</td>
<td>1013mm</td>
</tr>
<tr>
<td></td>
<td>(20.98&quot;)</td>
<td>(14.25&quot;)</td>
<td>(12.60&quot;)</td>
<td>(39.88&quot;)</td>
</tr>
</tbody>
</table>

Note: See Remote Blower drawing below for Tap locations.

Remote Blower

1.5" NPT or BSP Gas Inlet

Tap "C"

4" NPT or BSP Air Inlet

Tap "A"

Tap "B"

126mm (4.96")

342mm (13.46")

211mm (8.31")

676mm (26.61")