# Eclipse ImmersoJet

## Burners

*Model 6” IJ*

*Version 2*

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**Main Specifications**

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>BLOWER SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Blower Type</strong></td>
<td>10”w.c. Packaged (60Hz)</td>
</tr>
<tr>
<td>Maximum Input (Btu/hr)</td>
<td>2,000,000</td>
</tr>
<tr>
<td>Minimum Input (Btu/hr)</td>
<td>300,000</td>
</tr>
<tr>
<td>Air Inlet Pressure (&quot;w.c.) @Max. Input</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>- Air pressure at burner inlet (Tap &quot;A&quot;)</td>
</tr>
<tr>
<td>Blower Motor Horse Power</td>
<td>1.5</td>
</tr>
<tr>
<td>Main Gas Pressure (&quot;w.c.) into regulator</td>
<td>Max.</td>
</tr>
<tr>
<td></td>
<td>Min.</td>
</tr>
<tr>
<td>Tube Backpressure (&quot;w.c.)</td>
<td>2.6</td>
</tr>
<tr>
<td>Weight-less actuator (lbs)</td>
<td>275</td>
</tr>
<tr>
<td>CO emissions (ppm)</td>
<td>&lt;100</td>
</tr>
<tr>
<td>Piping</td>
<td>N.P.T. or B.S.P.</td>
</tr>
<tr>
<td>Flame Detection</td>
<td>Flamerod or U.V. Scanner.</td>
</tr>
<tr>
<td>Fuel (1)</td>
<td>Natural gas, Propane, Butane</td>
</tr>
<tr>
<td></td>
<td><em>For any other mixed gas, contact Eclipse for orifice sizing.</em></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 $\Delta P$ vs. Input
Measured from Tap "B" to Tap "D"

Air Orifice $\Delta P$ vs. Input @ 3% O2
Measured from Tap "A" to Tap "C"

Performance Data

Ignition Zone

Operational Curve

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 $\Delta P$ vs. Input
Measured from Tap "B" to Tap "D"

Air Orifice $\Delta P$ vs. Input @ 3% O2
Measured from Tap "A" to Tap "C"

Input vs. % Excess Air

Input x1000 Btu/hr.

Pressure Drop ("wc")
Dimensions & Specifications
Dimensions in mm (inches)

Remote Blower

1.5" NPT or BSP Gas Inlet

4" NPT or BSP Air Inlet

Tap "C"

Tap "A"

Tap "D"

Tap "B"

See above drawing for Spark and Flame Rod dimension details.

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