ImmersoJet
Burners
Model 6” IJ
Version 2.20

Main Specifications

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>BL勋ER SIZE</th>
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<tbody>
<tr>
<td>Blower Type</td>
<td>10&quot;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>Blower Motor Horse Power</td>
<td>1.5</td>
</tr>
<tr>
<td>Main Gas Pressure (&quot;w.c.) into regulator</td>
<td>Max. 125</td>
</tr>
<tr>
<td></td>
<td>Min. 14</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>
</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.

For any other mixed gas, contact Eclipse for orifice sizing.
Performance Data

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

% Excess Air

0 25% 50% 75%

Input as a percentage from low fire to high fire

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"

Pressure Drop ("wc)

0 2 4 6 8 10 12 14 16 18

Input x1000 Btu/hr.

Nat. Gas
Propane
Butane

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

Pressure Drop ("wc")

0 1 2 3 4 5 6 7 8 9

Input x1000 Btu/hr.

Nat. Gas
Propane
Butane

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)
Dimensions & Specifications
Dimensions in mm (inches)

<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>508mm (20.00&quot;)</td>
<td>330mm (12.99&quot;)</td>
<td>306mm (12.04&quot;)</td>
<td>958mm (37.71&quot;)</td>
</tr>
<tr>
<td>High pressure blower</td>
<td>533mm (20.98&quot;)</td>
<td>362mm (14.25&quot;)</td>
<td>320mm (12.60&quot;)</td>
<td>1013mm (39.88&quot;)</td>
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</tbody>
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Remote Blower

Note: See Remote Blower drawing below for Tap locations.