## Main Specifications

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>BLOWER SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Input (Btu/hr)</td>
<td>190,000</td>
</tr>
<tr>
<td>Minimum Input (Btu/hr)</td>
<td>25,000</td>
</tr>
<tr>
<td>Air Inlet Pressure (&quot;w.c.) Max. Input</td>
<td>7.4</td>
</tr>
<tr>
<td>Backpressure (&quot;wc)</td>
<td>1.0</td>
</tr>
<tr>
<td>Weight-less actuator (lbs)</td>
<td>70</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>

*Different fuels require different nozzles and orifices.*

- All information is based on laboratory testing with a tube effective length of 21.6 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)

- **Ignition Zone**
- **Operational Curve**

Input as a percentage from low fire to high fire

Low Fire
25,000 Btu/hr.
(Regardless of Blower)

High Fire:
190,000 Btu/hr (6” w.c. Blower)
235,000 Btu/hr (10” w.c. Blower)
370,000 Btu/hr (Remote Blower)

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Gas Orifice \(\Delta P\) vs. Input
Measured from Tap "B" to Tap "D"

- Natural Gas
- Propane Gas
- Butane Gas

Air Orifice \(\Delta P\) vs. Input @ 3% O\(_2\)
Measured from Tap "A" to Tap "C"

- Natural Gas
- Propane Gas
- Butane Gas

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

- **Ignition Zone**
- **Operational Curve**

Input as a percentage from low fire to high fire

Low Fire
25,000 Btu/hr.
(Regardless of Blower)

High Fire:
190,000 Btu/hr (6” w.c. Blower)
235,000 Btu/hr (10” w.c. Blower)
370,000 Btu/hr (Remote Blower)
**Dimensions & Specifications**

*Dimensions in mm (inches)*

**Remote Blower**

3/4" NPT or BSP Gas Inlet

2" NPT or BSP Air Inlet

86 SQ (3.38)

94.0 (3.70)

348.6 (13.71)

224.6 (8.84)

88.2 (3.47)

130 (5.12)

Tap "A"

Tap "B"

Tap "C"

Tap "D"

Filter/silencer option shown in gray.

Note: See Remote Blower drawing below for Tap locations.

See above drawing for Spark and Flame Rod dimension details.

<table>
<thead>
<tr>
<th>A</th>
<th>B (60Hz)</th>
<th>B (50Hz)</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Pressure Blower</td>
<td>279 (11)</td>
<td>190 (7.5)</td>
<td>232 (9.1)</td>
<td>559 (22)</td>
</tr>
<tr>
<td>High Pressure Blower</td>
<td>319 (12.5)</td>
<td>287 (11.2)</td>
<td>323 (9.1)</td>
<td>629 (24.7)</td>
</tr>
</tbody>
</table>

**View A A**

ø82 (7.16)

45°

4x ø12 (47)

ø150 (5.90)

ø61.5 (2.42)

3/4" NPT or BSP Gas Inlet

94 (3.70)

296 (11.65)

Adapter to tank wall 101.6 (4) Max.