Thermal Modules for outdoor installation.
The Robur AY00-119 Heater is designed for outdoor installation requiring no protection from adverse weather conditions. An individual module offers a nominal heating output of 110,900 BTU/h with hot water supply temperatures up to 185 °F. The modular heater links are mounted on steel rails and are mechanically and electrically pre-assembled by Robur to operate as one integrated system.

**Heating**

- Forcible draft, atmospheric combustion chamber for outdoor installation.
- Pre-mixed burner with electronic ignition.
- Highest possible outdoor combustion efficiency - G.U.E. 86%.

**Heating Capacity** From 110,900 to 554,500 BTU/h with multiple units.

**Main Applications** Hot water production up to 185 °F for heating and/or sanitary use.

**Main Advantages** Boiler for outdoor installation with ambient operating temperature down to -20 °F, complete with pump and burner activation control to assist with freeze protection.

**Additional Advantages**
- Single Phase Power.
- Easy coupling with other Robur heating and cooling units.
- Easy operation through a single optional Direct Digital Controller (DDC) for heating control and staging. DDC can control up to 16 individual units on a common water loop circuit.
- Flexible heating and staging thanks to the independent operation of each unit.
- Easy Maintenance.

**Control and safety devices**
- Flue temperature limit switch (manual reset).
- High temperature limit switch (auto reset).
- Safety relief valve.
- Differential air pressure switch.
- Ignition control box.
- Dual gas valve.
- Hot water flow switch.

**Use** Heating

**Technical characteristics**

- Flue temperature limit switch (manual reset).

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GA Line AY Series

**PERFORMANCE RATINGS - HEATING**

<table>
<thead>
<tr>
<th>Model</th>
<th>Heating Capacity (BTU/h)</th>
<th>Gas Input (BTU/h)</th>
<th>Ambient Operating Temperature (°F)</th>
<th>Hot Water Temperature (°F)</th>
<th>Nominal Hot Water Flow (GPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AY00-119</td>
<td>110,900</td>
<td>129,000</td>
<td>-20.6 -20</td>
<td>165</td>
<td>8.81</td>
</tr>
<tr>
<td>AY00-238</td>
<td>221,800</td>
<td>258,000</td>
<td>-20 -20</td>
<td>167 -167</td>
<td>15.6 -26.4</td>
</tr>
<tr>
<td>AY00-357</td>
<td>332,700</td>
<td>387,000</td>
<td>-20 -20</td>
<td>167 -167</td>
<td>26.4 -35.2</td>
</tr>
<tr>
<td>AY00-476</td>
<td>443,600</td>
<td>516,000</td>
<td>-20 -20</td>
<td>167 -167</td>
<td>35.2 -44.0</td>
</tr>
<tr>
<td>AY00-595</td>
<td>554,500</td>
<td>645,000</td>
<td>-20 -20</td>
<td>167 -167</td>
<td>44.0 -53.0</td>
</tr>
</tbody>
</table>

**ELECTRICAL RATINGS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Required Voltage (V)</th>
<th>Operating Consumption (kW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AY00-119</td>
<td>208-230</td>
<td>0.076</td>
</tr>
<tr>
<td>AY00-238</td>
<td>0.152</td>
<td>0.228</td>
</tr>
<tr>
<td>AY00-357</td>
<td>0.294</td>
<td>0.360</td>
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<tr>
<td>AY00-476</td>
<td>0.380</td>
<td>0.390</td>
</tr>
<tr>
<td>AY00-595</td>
<td>0.390</td>
<td>0.390</td>
</tr>
</tbody>
</table>

**PHYSICAL DATA**

<table>
<thead>
<tr>
<th>Model</th>
<th>Pressure Drop (Feet of Head / PSI)</th>
<th>Operating Weight (Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AY00-119</td>
<td>8.3 / 3.6</td>
<td>220</td>
</tr>
<tr>
<td>AY00-238</td>
<td>(8.97 / 3.92)</td>
<td>738</td>
</tr>
<tr>
<td>AY00-357</td>
<td></td>
<td>1,047</td>
</tr>
<tr>
<td>AY00-476</td>
<td></td>
<td>1,318</td>
</tr>
<tr>
<td>AY00-595</td>
<td></td>
<td>1,708</td>
</tr>
</tbody>
</table>

**AY Dimensions**

AY119 Hydronic System: Typical Installation Arrangement
(External Components not included with Robur Unit)

1. Antivibration flexible hoses
2. Pressure gauge
3. Flow regulating valve
4. Water filter
5. Shut-off valve
6. Circulating water pump
7. Expansion tank
8. DDC (optional from Robur)

Due to continuous product innovation and development, Robur reserves the right to change product specifications without prior notice.