Features & Benefits

- Beckett HeatManager™ dynamic temperature reset
- Energy saving through circulator-off delay
- Priority override for domestic hot water
- Freeze resistance
- 2N1 self checking sensor w/ Low Water Cut-off
- Cycle history diagnostic information
- Reduce inventory through universal design
- Backlit LCD screen with programming touch pad
- Built-in power disconnect switch (optional)
- Oil and gas offerings available
- Cold-Start compatible

Description

The Beckett AquaSmart™ is a patent-pending, advanced boiler control designed for use on residential and light commercial boiler systems. The control includes a backlit LCD digital display with touch pad to easily program temperature limits, differentials, and other advanced options. The AquaSmart™ also has memory storage of system history for help with diagnostics and troubleshooting. All models include the option of enabling Beckett HeatManager™ dynamic temperature reset that, when selected, provides up to 20% fuel consumption savings.

Example of LCD display screen

The HeatManager™ contains a Department of Energy (DOE) 2012 compliant load-matching energy saving algorithm. This feature saves fuel by dynamically changing the temperature high operating limit to the minimum temperature necessary to meet the heating demand. The qualified service technician can adjust the HeatManager™ algorithm to align comfort and energy savings.

Ordering Information: Contact Customer Service at 1-800-645-2876

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>7600A0001U</td>
<td>AquaSmart Boiler Temperature Control - 120Vac - Oil with Temperature ONLY Sensor</td>
</tr>
<tr>
<td>7600B0001U</td>
<td>AquaSmart Boiler Temperature Control - 120Vac - Gas with Temperature ONLY Sensor</td>
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<tr>
<td>7600A000LU</td>
<td>AquaSmart Boiler Temperature Control - 120Vac - Oil LESS Sensor</td>
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<tr>
<td>7600B000LU</td>
<td>AquaSmart Boiler Temperature Control - 120Vac - Gas LESS Sensor</td>
</tr>
<tr>
<td>76002N1S01U</td>
<td>AquaSmart 2N1 Temperature &amp; LWCO Sensor Package - 1-1/2&quot; Insulation Depth and 1-5/8&quot; Insertion Depth</td>
</tr>
<tr>
<td>76002N1S02U</td>
<td>AquaSmart 2N1 Temperature &amp; LWCO Sensor Package - 3-1/2&quot; Insulation Depth and 1-5/8&quot; Insertion Depth</td>
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<tr>
<td>76002N1S05U</td>
<td>AquaSmart 2N1 Temperature &amp; LWCO Sensor Package - 4-3/4&quot; Insulation Depth and 1-5/8&quot; Insertion Depth</td>
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<tr>
<td>76002N1S06U</td>
<td>AquaSmart 2N1 Temperature &amp; LWCO Sensor Package - 1-1/2&quot; Insulation Depth and 7/8&quot; Insertion Depth</td>
</tr>
<tr>
<td>7600RMU</td>
<td>48” AquaSmart Remote Mount Kit</td>
</tr>
<tr>
<td>7600TSU</td>
<td>Replacement Temperature Only Sensor Unit Pack</td>
</tr>
</tbody>
</table>

* All 2N1 Sensor Packages includes sensor, clamp and ground wire
**Electrical Ratings**

- **Input Voltage:** 120 Vac - 50/60 Hz.
- **Input Current:** 0.1 A + B1 + C1 + ZC
- **Max Input Current:** 20A (Reduce to 15A if optional power switch is used)
- **24 Vac thermostat anticipator current:** 0.1 Amp.
- **Burner Current Rating (B1):**
  - 7600A: 7.4 A at 120 Vac FLA; 44.4 A inrush LRA.
  - 7600B: 1.25 A at 24 Vac; 30 VA (total load).
- **Circulator Current Rating (C1):**
  - 7.4 A at 120 V ac FLA; 44.4 A inrush LRA.
- **Zone Control Current Rating (ZC):**
  - 7.4 A at 120 Vac FLA; 44.4 A inrush LRA.

**Temperature Ranges and Differentials**

- **High Limit Setting Range:** 100 to 240°F (37 to 115°C)
- **High Limit Differential Range:** 5 to 45°F (2 to 25°C)
- **Low Limit Setting Range:** 100 to 220°F (37 to 104°C)
- **Low Limit Differential Range:** 10 to 45°F (5 to 25°C)
- **Factory Range Stops available - consult factory**

**Environmental Ratings**

- **Storage Temperature:** -40 to +150° F (-40 to +65° C)
- **Operating Temperature:** -4 to +150° F (-20 to +65° C)
- **7600B at 50Hz:** -4 to +140° F (-20 to +60° C)
- **Relative Humidity:** 5 to 85% RH, non-condensing and non-crystallizing

**Approvals:** Underwriters Laboratories Listed to UL353, UL1998 for U.S. and Canada, CSA C22.2 No. 24