**TempControl®**

**Thermostatic Mixing Valve, Cabinet & Piping with Cold Water By-pass, BW Series**

**Specification Submittal**

**Feature Highlights**

- **TempControl thermostatic controller**
  - Check stops
  - Removable/replaceable cartridge
  - Stainless steel piston
  - Thermal motor with Turbulator™

- Volume control shut-off valve

- Bimetal dial thermometer
  - Range 20°-240°F (-7°-116°C)
  - 3 inch (76 mm) face

- Cold water by-pass valve

- Bottom supplies

- Top Outlet

- Cabinet with hinged left hand door & cylinder lock
  - Body, 18 gauge (1.2 mm)
  - Door, 13 gauge (2.4 mm)
  - Fully recessed (standard)
  - White finish (standard)

- Brass pipes, fittings and unions to cabinet limits

- Interior parts in standard rough bronze finish

- **TempControl valves are certified to:**
  - ASME A112.18.1/CSA B125.1
  - CA 116875 (AB 1953)
  - CSA B125.3
  - NSF 372
  - ASSE 1017
  - US S.3874

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**Model Numbers**

<table>
<thead>
<tr>
<th>Models</th>
<th>Inlets</th>
<th>Pipe sizes</th>
<th>Outlets</th>
<th>Bypass</th>
</tr>
</thead>
<tbody>
<tr>
<td>7-200BW*</td>
<td>3/4&quot;</td>
<td>3/4&quot;</td>
<td>3/4&quot;</td>
<td></td>
</tr>
<tr>
<td>7-400BW*</td>
<td>3/4&quot;</td>
<td>1&quot;</td>
<td>3/4&quot;</td>
<td></td>
</tr>
<tr>
<td>7-500BW*</td>
<td>1&quot;</td>
<td>1 1/4&quot;</td>
<td>1&quot;</td>
<td></td>
</tr>
<tr>
<td>7-700BW*</td>
<td>1 1/4&quot;</td>
<td>1 1/2&quot;</td>
<td>1 1/4&quot;</td>
<td></td>
</tr>
</tbody>
</table>

*The 7 Series model numbers above replace the 6 Series.*

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**General Options / Modifications**

Append appropriate -suffix to model number.

- **-V** Vacuum breaker (not shown)

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**Cabinet Modifications only**

Append appropriate -suffix to model number.

- **-M** Surface mounted cabinet
- **-S** Semi-recessed cabinet with 4 inch return flange

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**Finish Options / Modifications**

Append appropriate -suffix to model number.

- **-NI** Rough nickel finish
- **-T** Stainless steel finish (cabinet only)
- **-P** Valves and piping with a polished chrome highlight finish
  - White finish (standard cabinet finish)

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**Warranty**

- 5 years - for commercial installations
Physical Dimensions

<table>
<thead>
<tr>
<th>Model No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>7-200BW</td>
<td>22 3/8&quot; (568mm)</td>
<td>13 3/4&quot; (349mm)</td>
<td>13&quot; (330mm)</td>
<td>8 1/2&quot; (216mm)</td>
<td>4 1/4&quot; (108mm)</td>
<td>11&quot; (279mm)</td>
<td>10 1/4&quot; (260mm)</td>
</tr>
<tr>
<td>7-400BW</td>
<td>22 3/8&quot; (568mm)</td>
<td>13 3/4&quot; (349mm)</td>
<td>13&quot; (330mm)</td>
<td>8 1/2&quot; (216mm)</td>
<td>4 1/4&quot; (108mm)</td>
<td>11&quot; (279mm)</td>
<td>10 1/4&quot; (260mm)</td>
</tr>
<tr>
<td>7-500BW</td>
<td>31&quot; (787mm)</td>
<td>17&quot; (432mm)</td>
<td>14&quot; (356mm)</td>
<td>11&quot; (279mm)</td>
<td>4 3/4&quot; (121mm)</td>
<td>11 1/2&quot; (292mm)</td>
<td>10 1/4&quot; (260mm)</td>
</tr>
<tr>
<td>7-700BW</td>
<td>31&quot; (787mm)</td>
<td>17&quot; (432mm)</td>
<td>14&quot; (356mm)</td>
<td>12&quot; (305mm)</td>
<td>7&quot; (178mm)</td>
<td>11 1/2&quot; (292mm)</td>
<td>10 1/4&quot; (260mm)</td>
</tr>
</tbody>
</table>

Note: Dimension “C” references depth of hole required for recessed cabinet installation.

Flow Rate - gpm (L/min)

<table>
<thead>
<tr>
<th>Valve Model</th>
<th>Min. Flow Rate*</th>
<th>Min. Flow Rate</th>
<th>Pressure Differential - psi (kPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5 psi</td>
<td>10 psi</td>
<td>20 psi</td>
</tr>
<tr>
<td></td>
<td>(34 kPa)</td>
<td>(69 kPa)</td>
<td>(138 kPa)</td>
</tr>
<tr>
<td>7-200BW</td>
<td>0.5 gpm (1.9 L/min)</td>
<td>5 gpm (19 L/min)</td>
<td>7 gpm (27 L/min)</td>
</tr>
<tr>
<td>7-400BW</td>
<td>0.5 gpm (1.9 L/min)</td>
<td>9 gpm (34 L/min)</td>
<td>18 gpm (68 L/min)</td>
</tr>
<tr>
<td>7-500BW</td>
<td>0.5 gpm (1.9 L/min)</td>
<td>13 gpm (49 L/min)</td>
<td>22 gpm (83 L/min)</td>
</tr>
<tr>
<td>7-700BW</td>
<td>0.5 gpm (1.9 L/min)</td>
<td>13 gpm (49 L/min)</td>
<td>25 gpm (95 L/min)</td>
</tr>
</tbody>
</table>

*Minimum flow rate when valve is installed at or near the hot water source with recirculated tempered water and continuously operating circulating pump.