• Solid state microprocessor with easy access front panel settings
• Three modes of operation; meter immediate, meter delayed, or time clock delayed
• Double backwash feature offers optimum regeneration, cleaning ability, and efficiency
• Capable of 36 pre-programmed regeneration cycles based on control valve setting
• Days override feature; 1 – 28 days available
• Backwash and brining ability to 21” diameter tanks
• Downflow/upflow regeneration
• Stores system configuration and operation data in nonvolatile memory
• Coin Cell Lithium battery back-up with an 8 hour carry over
• 12-volt output AC Adapter provides safe and easy installation
• Control valve design provides optimum service and backwash rates
• Pre or Post treated water regenerant refill
• Patented one piece expanding seal spacer stack assembly U.S. Patent 6,402,944
• Patented linearly reciprocating piston operation U.S. Patent 6,444,127
• Reliable and proven DC drive
**Water Specialist 1” Control Specifications**

<table>
<thead>
<tr>
<th>Inlet/Outlet Fittings</th>
<th>¾” to 1.5” NPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cycles</td>
<td>up to 6</td>
</tr>
<tr>
<td>Valve Material</td>
<td>Noryl (1) or equivalent</td>
</tr>
<tr>
<td>Regeneration</td>
<td>downflow/upflow</td>
</tr>
</tbody>
</table>

**FLOW RATES**

- Service @15 psi drop (includes bypass and meter) .......... 27 gpm
- Backwash @ 25 psi drop (includes bypass) ...................... 27 gpm
- Cv Service ............................................. 7.0
- Cv Backwash ............................................ 5.4

**OPERATING PRESSURES**

- Minimum/Maximum ........................................ 20 psi – 125 psi

**OPERATING TEMPERATURES**

- Minimum/Maximum ........................................ 40º – 110º F

**METER**

- Accuracy .................................................. ± 5%
- Flow Rate Range ....................................... 0.25 – 27 gpm
- Gallon Range ............................................. 20 – 50,000 gallons
- Totalizer .................................................. 1000 - 9,999,000 gallons

**DIMENSIONS & WEIGHT**

- Distributor Pilot ........................................ 1.050” OD Pipe (¾” NPS)
- Drain Line ............................................... ¾” or 1” NPT
- Brine Line .................................................. ⅜” or ½” OD Poly Tube
- Mounting Base .......................................... 2 ½” - 8 NPSM
- Height From Top Of Tank ............................ 7 ¾”
- Weight ..................................................... 4.5 lbs.

**ELECTRICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>AC Adapter</th>
<th>U.S.</th>
<th>International</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Voltage</td>
<td>120V AC</td>
<td>230V AC</td>
</tr>
<tr>
<td>Supply Frequency</td>
<td>60 Hz</td>
<td>50 Hz</td>
</tr>
<tr>
<td>Output Voltage</td>
<td>12V AC</td>
<td>12V AC</td>
</tr>
<tr>
<td>Output Current</td>
<td>500 mA</td>
<td>500 mA</td>
</tr>
</tbody>
</table>

**TANK APPLICATIONS**

- Water Softener ........................................ 6” – 21” diameter
- Water Filter (2) ....................................... 6” – 21” diameter

**CYCLES OF OPERATION (Softener Downflow)**

<table>
<thead>
<tr>
<th>Cycle</th>
<th>Range of times minutes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Backwash 1st (upflow)</td>
<td>6 - 12</td>
</tr>
<tr>
<td>2. Regenerate Draw/Slow Rinse (downflow)</td>
<td>45 - 75</td>
</tr>
<tr>
<td>3. Backwash 2nd (upflow)</td>
<td>3 - 12</td>
</tr>
<tr>
<td>4. Fast Rinse (downflow)</td>
<td>3 - 8</td>
</tr>
<tr>
<td>5. Regenerant Refill (in service with treated water)</td>
<td>As Programmed</td>
</tr>
<tr>
<td>6. Service (downflow)</td>
<td></td>
</tr>
</tbody>
</table>

**Options:** Backwash Filter, Bypass, Weather Cover

Compatible with the following typical concentration of regenerants or chemicals: Sodium chloride, potassium permanganate, sodium bisulfite, chlorine and chloramines

1. Noryl is a trademark of Sabic Innovative Plastics IP B.V. Company
2. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area