• 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
• 36 selectable pre-programmed regeneration cycles
• Days override feature; 1 – 28 days available
• Backwash and brining ability to 22” 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
• Treated water regenerant refill
• Reliable and proven DC drive
# Water Specialist 1" Control Specifications

**Inlet/Outlet Fittings**
- Size: \( \frac{3}{4} " \) to 1.25" NPS

**Cycles**
- Up to 6

**Valve Material**
- Noryl (1) or equivalent

**Regeneration**
- Downflow/upflow

## 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 Range**: 1000 - 9,999,000 gallons

## DIMENSIONS & WEIGHT
- **Distributor Pilot**: 1.050" OD Pipe (\( \frac{3}{4} " \) NPS)
- **Drain Line**: \( \frac{3}{4} " \) or 1" NPT
- **Brine Line**: \( \frac{7}{8} " \) or \( \frac{1}{2} " \) OD Poly Tube
- **Mounting Base**: 2 1/2" - 8 NPSM
- **Height From Top Of Tank**: 7 3/8"
- **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" – 22" diameter
- **Water Filter (2)**: 6" – 22" 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 chloride, potassium permanganate, sodium bisulfite, chlorine and chloramines

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1. Noryl is a trademark of General Electric
2. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area