**WS1.5 EI**

- 1.5" top mount control valve suited for mid-size commercial/industrial applications
- Lead free brass valve body
- Economical optional meter
- Service flow rate of 227 lpm, backwash 189 lpm
- Solid state microprocessor with easy access front panel settings
- Front panel display for time of day, days until next regeneration, volume remaining, current flow rate and total volume used (Totalizer)
- Four methods to initiate regeneration; meter immediate, meter delayed, time clock delayed or pressure differential
- Optional double backwash feature offers optimum regeneration, cleaning ability and efficiency
- Fully adjustable 6-cycle control delivers controlled backwash, downflow brining/slow rinse, second backwash, fast rinse, refill and downflow service
- 12-volt output AC Adapter provides safe and easy installation
- Treated water regenerant refill
- 24 hour clock
- Reliable and proven DC drive
Water Specialist 1.5” EI Control Specifications

Inlet/Outlet (1) ................................................................. 1.5” FPT
Cycles ................................................................. up to 6
Valve Material ......................................................... Lead free brass
Regeneration ......................................................... downflow

FLOW RATES
Service @ 15 psi/1 bar drop (includes meter) .................. 60 gpm (227 lpm)
Backwash @ 25 psi/1.7 bar drop .............................. 50 gpm (189 lpm)

OPERATING PRESSURES
Minimum/Maximum ...................................................... 20 - 125 psi (1.4 - 8.6 bar)

OPERATING TEMPERATURES
Minimum/Maximum ...................................................... 40° - 110° F (4° - 43° C)

METER
Accuracy ........................................................................ ± 5%
Flow Rate Range ......................................................... 0.5 - 60 GPM (2 - 227 lpm)
Volume Range .............................................................. 1,000 to 500,000 m³
Totalizer ........................................................................ 0.001 – 9,999,000 m³

DIMENSIONS & WEIGHT
Distributor Pilot
- Valve bodies with female 1.5” NPT Inlet & Outlet .......... 1.90” OD (1.5” NPS)
- Valve bodies with female 1.5” BSPT Inlet & Outlet ....... 50 mm OD
Drain Line (2) .............................................................. 1.25” FPT
Brine Line ....................................................................... ¾” FPT
Adapters Available ....................................................... ½” OD Poly Tube
Mounting Base .............................................................. 4" - 8 UN
Height From Top Of Tank ............................................ 7.6” (191 mm)
Shipping Weight With Meter ......................................... 21 lbs. (9.5 kg)

ELECTRICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>U.S.</th>
<th>International</th>
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</thead>
<tbody>
<tr>
<td>Supply Voltage ....................... 120V AC</td>
<td>230V AC</td>
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<tr>
<td>Supply Frequency ..................... 60 Hz</td>
<td>50 Hz</td>
</tr>
<tr>
<td>Output Voltage ........................ 12V AC</td>
<td>12V AC</td>
</tr>
<tr>
<td>Output Current ......................... 500 mA</td>
<td>500 mA</td>
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</tbody>
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TANK APPLICATIONS
- Water Softener ....................................................... 12” - 24” Diameter
- Water Filter (3) ..................................................... 12” - 30” Diameter

CYCLES OF OPERATION

Cycle Range of times minutes
1. Backwash 1st (upflow) ................................. 1 - 20 or off
2. Regenerate Draw/Slow Fines (downflow) ......... 1 - 99 or off
3. Backwash 2nd (upflow) ................................. 1 - 20 or off
4. Fast Rinse (downflow) ................................. 1 - 20 or off
5. Regenerant Refill (in service with treated water) 0.1 - 99.9 or off
6. Service (downflow)

Options: Backwash Filter, Weather Cover
Compatible with the following typical concentrations of regenerants or chemicals: Sodium chloride, potassium chloride, potassium permanganate, sodium bisulfite, chlorine and chloramines

1. Eco Distributor Pilot
2. Casting comes with a 1.25” FPT drain connection. An adapter is provided to accept existing WS1 drain line flow controls up to 25 gpm.
3. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area/407 lpm per m² of bed area