

Clack® 

**WS1EE**

**WATER  
SPECIALIST  
CONTROL  
VALVE**



- Solid state microprocessor with easy access front panel settings
- Service flow rate of 27 gpm, backwash 27 gpm
- 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 cycle times with 6-cycle control delivers controlled backwash, downflow brining/slow rinse, second backwash, fast rinse, refill and downflow service
- Coin Cell Lithium battery back-up with a 8 hour carry over
- Backwash and brining ability to 21" diameter tanks
- Downflow or upflow brining regeneration
- 12-volt output AC Adapter provides safe and easy installation
- Control valve design provides optimum service and backwash rates
- 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" EE Control Specifications

Inlet/Outlet Fittings..... ¾" to 1.5" NPS  
 Cycles ..... up to 6  
 Valve Material ..... Noryl (1) or equivalent  
 Regeneration ..... Downflow

## 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 ..... 40° – 110° F

## METER

Accuracy ..... ± 5%  
 Flow Rate Range..... 0.25 – 27 gpm  
 Gallon Range..... 20 – 1,500,000 gallons  
 Totalizer ..... 1000 - 9,999,000 gallons

## DIMENSIONS & WEIGHT

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

## ELECTRICAL SPECIFICATIONS

### AC Adapter

	<u>U.S.</u>	<u>International</u>
Supply Voltage .....	120V AC.....	230V AC
Supply Frequency .....	60 Hz .....	50 Hz
Output Voltage .....	12V AC.....	12V AC
Output Current .....	500 mA.....	500 mA

## TANK APPLICATIONS

Water Softener ..... 6" – 21" diameter  
 Water Filter (2)..... 6" – 21" diameter

## CYCLES OF OPERATION (Softener Downflow)

	<u>Softener</u>	<u>Filter</u>
Cycle	Range of time in minutes	
1. Backwash 1 <sup>st</sup> (upflow) .....	1-95.....	Backwash 1-95
2. Regenerate Draw/Slow Rinse (downflow) .....	1-180	
3. Backwash 2 <sup>nd</sup> (upflow).....	1-95	
4. Fast Rinse (downflow) .....	1-95.....	Rinse 1-95
5. Regenerant Refill (in service with treated water).....	0.1-99.0 or off	
6. Service (downflow)		

*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

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