



- Service flow 106 lpm (6.36 m³/h) (28 gpm), backwash flow 57 lpm (3.40 m³/h) (15 gpm) with meter and bypass installed
- Solid state microprocessor with easy access front panel settings
- Four methods to initiate regeneration; meter immediate, meter delayed, time clock delayed or pressure differential
- Program in ppm, French degrees, German degrees, or cubic meters
- Fully programmable regeneration cycle sequence (maximum 9)
- Programmable regeneration cycle times
- 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 a 24 hour carry over
- 12-volt output AC Adapter provides safe and easy installation
- Control valve design provides optimum service and backwash rates
- Soft/treated water regeneration
- Pre or Post soft/treated water regenerant refill
- Low salt alarm
- 24-hour clock
- 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" CI Twin Alternating Specifications

Inlet/Outlet Fittings.....	¾" to 1.5" NPS
Cycles	up to 9
Valve Material	Noryl (1) or equivalent
Regeneration	downflow/upflow
FLOW RATES	
Service @ 15 psi/1 bar drop (includes bypass and meter).....	106 lpm (6.36 m ³ /h) (28 gpm)
Backwash @ 25 psi/1.7 bar drop (includes bypass).....	57 lpm (3.40 m ³ /h) (15 gpm)
Cv Service	7.28
Cv Backwash	2.96
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.....	0.95 - 102 lpm
Volume Range	0.02 - 5,700 m ³
Totalizer	1 m ³ - 99,999 m ³
DIMENSIONS & WEIGHT	
Distributor Pilot	1.050" OD Pipe (¾" NPS)
Drain Line	¾" or 1" NPT
Brine Line	¾" or ½" OD Poly Tube Compression
Mounting Base.....	2 ½" - 8 NPSM
Height From Top Of Tank.....	7 ¾" (187 mm)
Weight	16 lbs (7.25 kg)
ELECTRICAL SPECIFICATIONS	
	AC Adapter
	U.S. International
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	
Choose up to nine regeneration cycles, in any order, with a wide range of available values:	
Cycle	Range of values
Backwash.....	1 - 120 minutes
Rinse.....	1 - 120 minutes
Pause (service).....	1 - 480 minutes
Brine (co-current).....	1 - 180 minutes
Brine (counter-current).....	1 - 180 minutes
Refill (softener).....	0.05 - 95.00 Kg
Refill (filter)	0.05 - 95.00 Liters

Options: Backwash Filter, Bypass, Weather Cover

Compatible with the following typical concentrations 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/407 lpm per square meter of bed area



- Service flow 106 lpm (6.36 m³/h) (28 gpm), backwash flow 57 lpm (3.40 m³/h) (15 gpm) with meter and bypass installed
- 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), and Tank in Service Indication
- 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
- Treated/Soft water post fill and regeneration cycles
- 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 drives

Water Specialist 1" EI Twin Alternating Specifications

Inlet/Outlet Fittings.....	3/4" to 1.5" NPS	
Cycles	up to 6	
Valve Material	Noryl (1) or equivalent	
Regeneration	downflow	
FLOW RATES		
Service @15 psi/1 bar drop (includes bypass and meter).....	106 lpm (6.36 m ³ /h) (28 gpm)	
Backwash @ 25 psi/1.7 bar drop (includes bypass).....	57 lpm (3.40 m ³ /h) (15 gpm)	
Cv Service	7.28	
Cv Backwash	2.96	
OPERATING PRESSURES		
Minimum/Maximum	1.4 - 8.6 bar (20 psi - 125 psi)	
OPERATING TEMPERATURES		
Minimum/Maximum	4° - 43°C (40° - 110° F)	
METER		
Accuracy	± 5%	
Flow Rate Range.....	0.95 - 102 lpm	
Gallon Range.....	0.02 - 5,700 m ³	
Totalizer	0.001 - 9,999,000 m ³	
DIMENSIONS & WEIGHT		
Distributor Pilot.....	1.050" OD Pipe (3/4" NPS)	
Drain Line	3/4" or 1" Male NPT	
Brine Line	3/8" or 1/2" OD Poly Tube Compression	
Mounting Base.....	2 1/2" - 8 NPSM	
Height From Top Of Tank.....	187 mm (7 3/8")	
Weight	7.25 kg (16 lbs.)	
ELECTRICAL SPECIFICATIONS		
	AC Adapter	
	<u>International</u>	
Supply Voltage	230V AC	
Supply Frequency.....	50 Hz	
Output Voltage	12V AC	
Output Current.....	500 mA	
TANK APPLICATIONS		
Water Softener	6" - 21" diameter	
Water Filter (2).....	6" - 16" diameter	
CYCLES OF OPERATION (Softener / Filter Downflow)		
	<u>Softener</u>	<u>Filter</u>
Cycle	Range of time in minutes	
1. Backwash 1 st	1-95 or off	Backwash 1-95 or off
2. Regenerate Draw/Slow Rinse	1-180 or off	
3. Backwash 2 nd	1-95 or off	
4. Fast Rinse	1-95 or off	Rinse 1-95 or off
5. Regenerant Refill	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

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