

Nelsen Water Solutions Composite 1.5" System Specifications



VALVE SPECS

Inlet/Outlet Plumbing Connections	1.5" Female NPT
Valve Material	Glass Filled Composite
Regeneration	Downflow
Operating Pressures - Min/Max	20 psi/125 psi
Operating Temperatures - Min/Max	40°/110° F

DIMENSIONS

Distributor Pilot	1.5" NPS
Drain Line	1" Male NPT
Brine Line	1/2" Poly Tube Compression

CYCLES - FACTORY SETTINGS

1 - Backwash 1st	8 min
2 - Regenerant Draw/Slow Rinse	60 min
3 - Backwash 2nd	8 min
4 - Fast Rinse	8 min
5 - Regenerant Refill Pre or Post	.1 - 99 min
6 - Service	

FEATURES

- 1.5" top mount control valve suited for mid-size commercial/industrial applications
- Glass filled composite valve body
- Economical plastic optional meter assembly
- Progressive flow built-in for up to 4 systems, Clack system controller not required
- Service alarm - time, volume or both
- Scrolling dealer name and contact number
- Service flow rate of 60 GPM, backwash 43 GPM
- Upflow/downflow brining field convertible
- Pre or post treated water regenerant refill
- Front panel display for time of day, days until next regeneration, volume remaining, current flow rate, and total volume used (Totalizer)
- Coin cell lithium battery backup for the time of day up to 8 hours
- 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 deliver controlled backwash, downflow brining or upflow brining, slow rinse, second backwash, fast rinse, refill, and downflow service
- Level VI 15-volt output DC power supply provides safe and easy installation
- Days override feature; 1 – 28 days available
- One piece expanding seal spacer stack assembly
- Linearly reciprocating piston operation

GENERAL SPECIFICATIONS

Grains Capacity ¹	120,000	150,000	210,000	300,000
Grains Capacity ²	96,000	120,000	168,000	240,000
Cubic Feet Resin	4	5	7	10
Pounds Resin	200	250	350	500
Gravel Under-bed (Lbs)	75	100	150	250
Service Flow Rate (GPM)*	35	40	45	50
Overall Height	75"	78"	74"	85"
Floor Space Required with Standard Brine Tank Size	24" x 44"	24" x 46"	24" x 49"	30" x 58"

BRINE SYSTEM

Standard Brine Tank Size	24" x 41"	24" x 50"	24" x 50"	30" x 50"
Brine Tank Salt Capacity without Grid	700	850	850	1200
Brine Valve Included	Clack-484	Clack-484	Clack-484	Clack-484
Injector Color / Draw Rate @ 50 psi (GPM)	Blue/1.0	Yellow/1.3	Green/1.8	Orange/2.2

UNITS WITH STANDARD MESH RESIN

Mineral Tank Size	16" x 65"	18" x 65"	21" x 62"	24" x 72"
Backwash Flow with Basket Distributor	7.5	10	13	15

REGENERATION WATER USAGE

Gallons Used @ 9 Lbs / Cubic Feet Salt ³	282	384	498	606
Gallons Used @ 15 Lbs / Cubic Feet Salt ³	290	394	512	626

¹ @ 15lbs/ft³ = 30,000 grains/ft³ resin

² @ 9lbs/ft³ = 24,000 grains/ft³ resin

³ When using pre-programmed cycle times

* Note - due to varying water conditions, water pressures and assembly materials the service flow rate should be used only as a guideline.