

Clack WS2 System Specifications



VALVE SPECS

Inlet/Outlet Plumbing Connections	2" Female NPT
Valve Material	Epoxy Coated Lead-Free Brass
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	1.5" Female NPT
Brine Line	1" Male NPT Elbow

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

- 2" Top mount control valve suited for commercial/industrial applications
- Epoxy coated lead free brass valve body
- Economical stainless steel optional meter assembly
- Service flow rate of 115 gpm, backwash 80 gpm
- 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 cycle times with 6-cycle control delivers controlled backwash, downflow brining or upflow brining, slow rinse, second backwash, fast rinse, refill and downflow service
- Coin Cell Lithium battery back-up with an 8 hour carry over
- Level VI 15-volt output DC power supply provides safe and easy installation
- Post treated water regenerant refill
- Reliable and proven DC drive
- One piece expanding seal spacer stack assembly
- Linearly reciprocating piston operation

GENERAL SPECIFICATIONS

	120,000	150,000	210,000	300,000	450,000	600,000
Grains Capacity ¹	120,000	150,000	210,000	300,000	450,000	600,000
Grains Capacity ²	96,000	120,000	168,000	240,000	360,000	480,000
Cubic Feet Resin	4	5	7	10	15	20
Resin (Lbs)	200	250	350	500	850	1050
Gravel Under-bed (Lbs)	75	100	150	250	350	500
Service Flow Rate (GPM)*	35	40	60	70	85	105
Overall Height	75"	78"	74"	85"	95"	97"
Floor Space Required with Standard Brine Tank Size	24" x 44"	24" x 46"	24" x 49"	30" x 58"	39" x 73"	50" x 82"

BRINE SYSTEM

	24" x 41"	24" x 50"	24" x 50"	30" x 50"	39" x 48"	50" x 60"
Standard Brine Tank Size	24" x 41"	24" x 50"	24" x 50"	30" x 50"	39" x 48"	50" x 60"
Brine Tank Salt Capacity without Grid	700	850	850	1200	2200	4500
Brine Valve Included	Clack-484	Clack-484	Clack-484	Clack-484	Clack-484	Clack-484
Downflow Injector Color / Draw Rate @ 50 psi (GPM)	15E, 1.0	2A/1.2	2B/1.5	2C/2.2	2D/3.1	2E/4.2

UNITS WITH STANDARD MESH RESIN

	16" x 65"	18" x 65"	21" x 62"	24" x 72"	30" x 72"	36" x 72"
Mineral Tank Size	16" x 65"	18" x 65"	21" x 62"	24" x 72"	30" x 72"	36" x 72"
Backwash Flow (GPM)	7.5	10	13	15	25	35

REGENERATION WATER USAGE³

	282	384	498	606	954	1305
Gallons Used at 9 Lbs / Cubic Feet Salt ³	282	384	498	606	954	1305
Gallons Used at 15 Lbs / Cubic Feet Salt ³	290	394	512	626	984	1345

¹ @ 15 Lbs / ft³ = 30,000 Grains / ft³ resin

² @ 9 Lbs / 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.