

EWS: 102S, 132S, 162S, 192S, 252S, 322S, 362S, 452S, 602S

Commercial Heavy Duty Water System with 2" Eco Flow-Pack Valve

COMMERCIAL SERIES • WATER SOFTENERS

All systems are available in single, duplex, triplex, and quadplex operation.



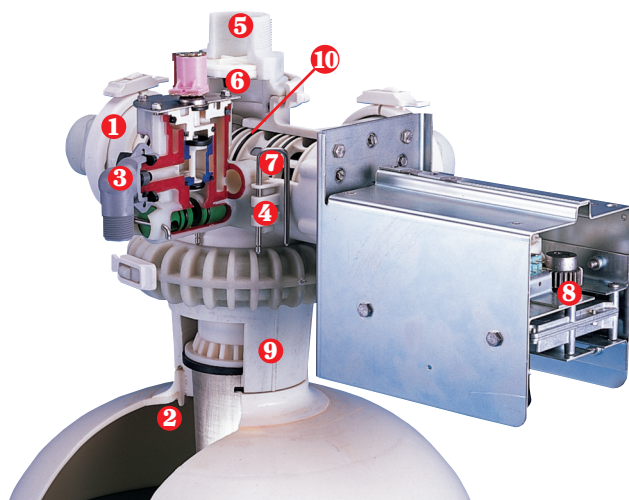
Clean water.
Green future.™

Effective and Efficient Water Softeners

- Innovative 2" Eco Flow-Pack™ Valve
- Fully Programmable
- Electronic Demand Control Module
- Selectable for Parallel, Parallel Delayed, Alternating, and Peak Flow Demand
- Dynamic Brine-Making System
- Counter-Current Brining
- Washed Quartz Underbedding
- Turbine Flow Meter
- Safe 24-Volt Electronics
- Self-Cleaning Upper and Lower Distributors
- High-Density Salt Storage Tank
- Exceptional Flow Rates
- Self-Diagnostic Capabilities (E.A.S.E.)
- Non-Volatile Memory
- Lockout Feature to Prevent Unauthorized Changes
- Water Totalizer to Keep Track of Volume History
- NSF 61 Certified Resin Tank

2" Eco Flow-Pack Valve Another EcoWater Innovation

- | | |
|---|---|
| 1 Snap Clamp Rings for Ease of Connecting | 6 Adjustable Backwash Flow Control |
| 2 Screened Top Distributor | 7 Full 2" Ported Flow Passage in Valve Housing |
| 3 Brine Make-Up Flow Control | 8 High Torque 24 V-DC Motor |
| 4 Pin Quick Disconnect Injector Housing | 9 Valve Tank Adaptor Allows Easy Access into Tank with Clamp Ring Connector |
| 5 2" NPT Union Connections | 10 High-Strength Non-Corrosive Piston |



Designed, Engineered &
Assembled in the U.S.A.



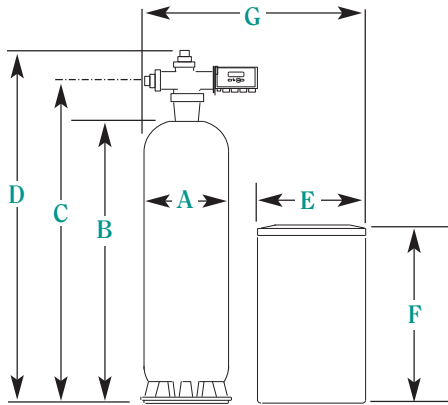
Resin Tanks Certified
to NSF/ANSI 61



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DIMENSIONS



Duplex = 1 Brine Tank
 Triplex = 2 Brine Tanks
 Quadplex = 2 Brine Tanks

Model	A Resin Tank Diameter	B Resin Tank Height	C Inlet- Outlet Height	D Overall Height	E Brine Tank Diameter	F Brine Tank Height	G Single
EWS102S, EWS132S	17"	58"	67"	72.5"	24"	50"	41"
EWS162S	17"	72"	81"	86.5"	24"	50"	47"
EWS192S, EWS252S, EWS322S	24"	72"	81"	86.5"	31"	51"	60"
EWS362, EWS452	30"	72"	88"	93.5"	31"	51"	66"
EWS602	36"	72"	88.5"	94"	39"	48"	80"

Note: Dimensions for duplex, triplex, and quadplex are calculated using the number of brine tanks listed above.

SPECIFICATIONS

All systems are available in single, duplex, triplex, and quadplex operation.

	Salt Dosage ¹	EWS102S	EWS132S	EWS162S	EWS192S	EWS252S	EWS322S	EWS362S	EWS452S	EWS602S
		Grains Capacity ²								
Grains Capacity at Salt Dosage	4 lbs./cu. ft.	54,000	72,000	90,000	108,000	144,000	180,000	216,000	270,000	360,000
	6 lbs./cu. ft.	72,000	96,000	120,000	144,000	192,000	240,000	288,000	360,000	480,000
	8 lbs./cu. ft.	84,000	112,000	140,000	168,000	224,000	280,000	336,000	420,000	560,000
	10 lbs./cu. ft.	93,000	124,000	155,000	186,000	248,000	310,000	372,000	465,000	620,000
	12 lbs./cu. ft.	99,000	132,000	165,000	198,000	264,000	330,000	396,000	495,000	660,000
Resin Tank Size (in.)		17 x 58	17 x 58	17 x 72	24 x 72	24 x 72	24 x 72	30 x 72	30 x 72	36 x 72
Resin Quantity (cu. ft.)		3	4	5	6	8	10	12	15	20
Connecting Pipe Size		2" NPT	2" NPT	2" NPT	2" NPT	2" NPT	2" NPT	2" NPT	2" NPT	2" NPT
Salt Tank Size (in.)		24 x 50	24 x 50	24 x 50	31 x 51	31 x 51	31 x 51	31 x 51	31 x 51	39 x 48
Salt Tank Capacity (lbs.)		1000	1000	1000	1500	1500	1500	1500	1500	2500
Operating Pressure		30 – 125 psi	30 – 125 psi	30 – 125 psi	30 – 125 psi	30 – 125 psi	30 – 125 psi	30 – 125 psi	30 – 125 psi	30 – 125 psi
Operating Temperature		35 – 100°F	35 – 100°F	35 – 100°F	35 – 100°F	35 – 100°F	35 – 100°F	35 – 100°F	35 – 100°F	35 – 100°F
Max. Drain Flow (gpm)		7	7	7	12	12	12	24	24	32
Recharge Water Use (gal.)		151	166	181	271	302	332	543	588	784
Max. Clear Water Iron ³		20 ppm	20 ppm	20 ppm	20 ppm	20 ppm	20 ppm	20 ppm	20 ppm	20 ppm
Electrical Rating		24V / 60 Hz	24V / 60 Hz	24V / 60 Hz	24V / 60 Hz	24V / 60 Hz	24V / 60 Hz	24V / 60 Hz	24V / 60 Hz	24V / 60 Hz

¹Salt dosages can be set to maintain desired efficiencies or changed to auto adjusting, salt-efficient demand, or boiler operation. See manual for details.

²Grains capacity is for counter-current regeneration sizing purposes. The actual capacity could be 5% – 10% greater than shown for each salt dosage.

³Increased amounts of clear water iron (Ferrous) can reduce softening efficiency and capacity. Periodic use of a resin bed cleaner may be necessary. Iron removal will be dependant on water conditions (i.e., pH, hardness, content type of iron, etc.)

OPERATIONAL FLOWS *

Model	Flow Rate (GPM) and Pressure (PSI) Loss (ΔP)											
	10 gpm	20 gpm	30 gpm	40 gpm	50 gpm	60 gpm	70 gpm	80 gpm	90 gpm	100 gpm	110 gpm	120 gpm
EWS102S	1.5 ΔP	3.5 ΔP	6 ΔP	9 ΔP	12.5 ΔP	16.5 ΔP	–	–	–	–	–	–
EWS132S	2 ΔP	4.5 ΔP	7.5 ΔP	11 ΔP	15.5 ΔP	20 ΔP	25 ΔP	–	–	–	–	–
EWS162S	2.5 ΔP	5 ΔP	9 ΔP	13 ΔP	18 ΔP	23 ΔP	29 ΔP	35 ΔP	–	–	–	–
EWS192S	1 ΔP	2 ΔP	4 ΔP	6.5 ΔP	9 ΔP	12 ΔP	15 ΔP	19 ΔP	23 ΔP	–	–	–
EWS252S	1 ΔP	2.5 ΔP	4.5 ΔP	7 ΔP	9.5 ΔP	12.5 ΔP	16 ΔP	20 ΔP	24 ΔP	28 ΔP	–	–
EWS322S	1 ΔP	3 ΔP	5 ΔP	7.5 ΔP	10.5 ΔP	14 ΔP	18 ΔP	22 ΔP	26 ΔP	31 ΔP	–	–
EWS362S	–	2 ΔP	3.5 ΔP	5.5 ΔP	7.5 ΔP	10 ΔP	13 ΔP	16 ΔP	20 ΔP	23 ΔP	27 ΔP	31 ΔP
EWS452S	–	2.5 ΔP	4 ΔP	6 ΔP	8 ΔP	11 ΔP	14 ΔP	17 ΔP	21 ΔP	25 ΔP	29 ΔP	33 ΔP
EWS602S	–	–	3 ΔP	5 ΔP	7 ΔP	9 ΔP	12 ΔP	15 ΔP	18 ΔP	21 ΔP	25 ΔP	29 ΔP

Key:

- System design flow rates
- For intermittent use only
- Not for use on these flow rates

*Data obtained from tests run by the University of Minnesota St. Anthony Falls Engineering Lab and is based on a non-fouled filter.

All specifications listed are for SINGLE unit operation.

The EcoWater Commercial Series Heavy Duty Water Softener is subject to a limited warranty that may give you specific rights. A copy of the warranty is printed in the installation manual. Please read the warranty carefully before installing or using an EcoWater water softener.

ECOWATER
SYSTEMS®



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