

# EWS: 102S, 132S, 162S, 192S, 252S, 322S

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

COMMERCIAL SERIES • WATER SOFTENER

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



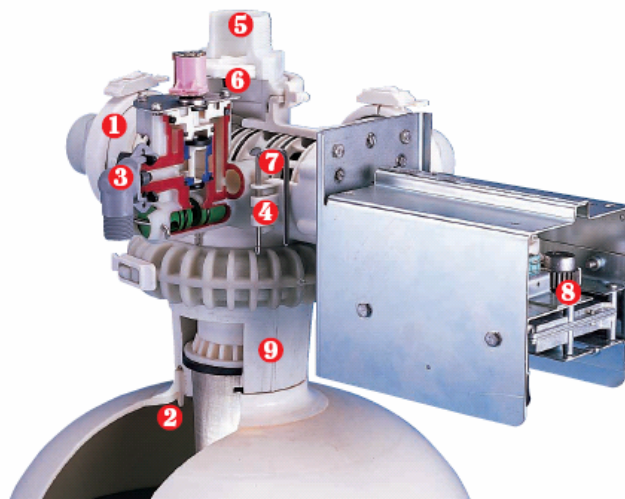
## It's That Good.®

### 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

### 2" Eco Flow-Pack Valve Another EcoWater Innovation

- |   |   |
|---|---|
| ❶ Snap Clamp Rings for Ease of Connecting | ❹ Adjustable Backwash Flow Control  |
| ❷ Screened Top Distributor                | ❺ Full 2" Ported Flow Passage in Valve Housing                              |
| ❸ Brine Make-Up Flow Control              | ❻ High Torque 24 V-DC Motor   |
| ❹ Pin Quick Disconnect Injector Housing   | ❼ Valve Tank Adaptor Allows Easy Access into Tank with Clamp Ring Connector |
| ❺ 2" NPT Union Connections                |   |



ECOWATER  
SYSTEMS®

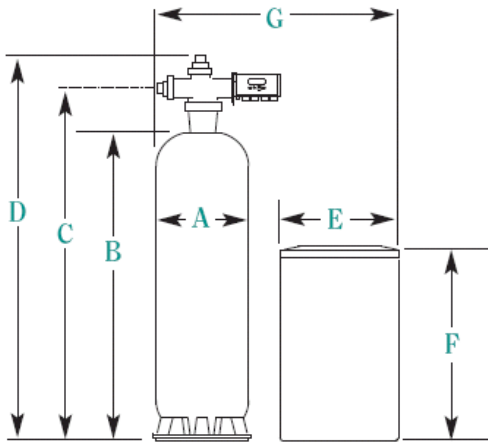


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## DIMENSIONS



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"
EWS162	17"	72"	81"	86.5"	24"	50"	47"
EWS192, EWS252, EWS322	24"	72"	81"	86.5"	31"	51"	60"

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*	EWS102S	EWS132S	EWS162S	EWS192S	EWS252S	EWS322S
		Grains Capacity**					
Grains Capacity at Salt Dosage	4 lbs./cu. ft.	54,000	72,000	90,000	108,000	144,000	180,000
	6 lbs./cu. ft.	72,000	96,000	120,000	144,000	192,000	240,000
	8 lbs./cu. ft.	84,000	112,000	140,000	168,000	224,000	280,000
	10 lbs./cu. ft.	93,000	124,000	155,000	186,000	248,000	310,000
	12 lbs./cu. ft.	99,000	132,000	165,000	198,000	264,000	330,000
Resin Tank Size (in.)		17 x 58	17 x 58	17 x 72	24 x 72	24 x 72	24 x 72
Resin Quantity (cu. ft.)		3	4	5	6	8	10
Connecting Pipe Size		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
Salt Tank Capacity (lbs.)		1000	1000	1000	1500	1500	1500
Operating Pressure		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
Max. Drain Flow (gpm)		7	7	7	12	12	12
Recharge Water Use (gal)		151	166	181	271	302	332
Max. Clear Water Iron		5 ppm	5 ppm	5 ppm	5 ppm	5 ppm	5 ppm

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

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

## 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	–	–

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.



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