

EWS: 070S, 100S, 130S, 190S, 250S, 320S

Commercial Heavy Duty Water System

COMMERCIAL SERIES • WATER SOFTENERS

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



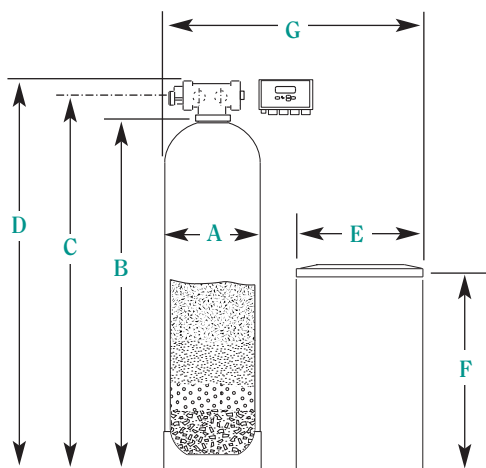
A Marmon Water/Berkshire Hathaway Company

The Science Behind Better Water®

Effective and Efficient Water Softeners

- Electronic Demand Control Module
- Six-Cycle Valve with Easy-Clamp Ring
- Dynamic Brine-Making System
- Counter-Current Brining
- Washed Quartz Underbedding
- Automatic Bypass during Regeneration
- Easy Install Bypass Prevention Kits for Multiple Units
- Fiberglass Reinforced Resin Tank
- Turbine Flow Meter
- Safe 24-Volt Electronics
- Self-Cleaning Upper and Lower Distributors
- High-Density Salt Storage Tank
- Exceptional Flow Rates

DIMENSIONS



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

Model	A	B	C	D	E	F	G			
							Single	Twin	Triplex	Quadplex
EWS070	12.3"	55"	58"	63.75"	17"	38.5"	36"	49"	95"	113"
EWS100, EWS130	17.6"	59.5"	62.5"	68.25"	24"	50.5"	48"	71"	125"	148"
EWS190, EWS250, EWS320	24"	76"	79.8"	85.5"	31"	51"	61"	91"	158"	188"

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



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SPECIFICATIONS

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

Salt Dosage*		EWS070S	EWS100S	EWS130S	EWS190S	EWS250S	EWS320S
		Grains Capacity**					
Grains Capacity at Salt Dosage	4 lbs./cu. ft.	37,000	54,000	72,000	108,000	144,000	180,000
	6 lbs./cu. ft.	50,000	72,000	96,000	144,000	192,000	240,000
	8 lbs./cu. ft.	61,000	84,000	112,000	168,000	224,000	280,000
	10 lbs./cu. ft.	67,000	93,000	124,000	186,000	248,000	310,000
	12 lbs./cu. ft.	71,000	99,000	132,000	198,000	264,000	330,000
Resin Tank Size (in.)		12.3" x 55"	17.6" x 59.5"	17.6" x 59.5"	24" x 76"	24" x 76"	24" x 76"
Resin Quantity (cu. ft.)		2	3	4	6	8	10
Connecting Pipe Size		1"	1"	1"	1"	1"	1"
Optional Adapters ¹		1.5"	1.5"	1.5"	1.5"	1.5"	1.5"
Salt Tank Capacity (lbs.)		340	1000	1000	1,500	1,500	1,500
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
Operating Ambient Temperature Range		35 – 150°F	35 – 150°F	35 – 150°F	35 – 150°F	35 – 150°F	35 – 150°F
Maximum Drain Flow (gpm)		5	7	7	10	10	10
Recharge Water Use (gal.)		108	166	180	286	293	302
Maximum Clear Water Iron ²		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

*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.

¹The optional adapters provide for direct connection of 1.5" copper tube to the 1" service valve.

²Increased 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)							
	5 gpm	10 gpm	15 gpm	20 gpm	25 gpm	30 gpm	35 gpm	40 gpm
EWS070S	2.6 ΔP	6.6 ΔP	11.8 ΔP	18.3 ΔP	26.0 ΔP	34.8 ΔP	–	–
EWS100S	1.3 ΔP	3.8 ΔP	7.3 ΔP	11.8 ΔP	17.4 ΔP	24.1 ΔP	31.8 ΔP	–
EWS130S	1.4 ΔP	4.0 ΔP	7.8 ΔP	12.7 ΔP	18.6 ΔP	25.7 ΔP	33.7 ΔP	–
EWS190S	1.2 ΔP	3.1 ΔP	6.3 ΔP	10.5 ΔP	16.3 ΔP	21.9 ΔP	29.1 ΔP	37.3 ΔP
EWS250S	1.2 ΔP	3.3 ΔP	6.6 ΔP	10.9 ΔP	16.8 ΔP	22.6 ΔP	30.0 ΔP	38.4 ΔP
EWS320S	1.2 ΔP	3.5 ΔP	6.9 ΔP	11.3 ΔP	17.3 ΔP	23.3 ΔP	30.9 ΔP	39.5 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
S Y S T E M S



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