

APPLIED® FILTERS

TWIN ALTERNATING WATER SOFTENERS

Model No.*	Media Volume (Cu. Ft.)		Flow Rate** (GPM)		Backwash Flow** (GPM)	Fleck Valve Head	Tank Size (2 Tanks) (Dia"×H")	Brine Tank Size (Dia"×H")	In/Out Conn. (In.)
	Per Tank	Total	5gpm/ft. ²	15gpm/ft. ²					
W-S744ST	0.4	0.8	1	4	1.5	9000	7 × 44	18 × 33	¾
W-S844ST	0.5	1.0	2	5	2	9000	8 × 44	18 × 33	¾
W-S940ST	0.7	1.4	2	6	2	9000	9 × 40	18 × 40	1
W-S1040ST	1.0	2.0	2	7	3	9000	10 × 40	18 × 40	1
W-S1054ST	1.5	3.0	2	7	3	9000	10 × 54	18 × 40	1
W-S1252ST	2.0	4.0	4	12	4	9000	12 × 52	18 × 40	1
W-S1354ST	2.5	5.0	4	14	5	9000	13 × 54	18 × 40	1
W-S1465ST	3.0	6.0	5	16	6	9000	14 × 65	24 × 41	1
W-S1665ST	4.0	8.0	7	21	7	9000	16 × 65	24 × 41	1
W-S2162ST	8.0	16.0	13	36	12	9500	21 × 62	30 × 48	1.5
W-S2472ST	10.0	20.0	15	47	15	9500	24 × 72	39 × 48	1.5
W-S3072ST	15.0	30.0	24	74	25	2900 (2)	30 × 72	39 × 48	2
W-S3672ST	20.0	40.0	35	106	35	3150 (2)	36 × 72	39 × 60	2
W-S4272ST	30.0	60.0	48	144	48	3150 (2)	42 × 72	42 × 60	2
W-S4872ST	40.0	80.0	60	188	60	3900 (2)	48 × 72	60 × 60	3

Notes:

- * Please add the appropriate voltage code to the end of the model no. when ordering. 110v/60Hz = 116, 220v/60Hz = 216, 220v/50Hz = 215 *Example: W-S744ST-116*
- ** 5 gpm per sq. ft. of media is the best design condition for filtration. For relatively clean water, you may go up to design criteria of 15 gpm per sq. ft. Backwash flow rate based on 25 psi pressure drop.
- *** Stainless Steel Jacket available for 9-16" Diameter. To order add "-J" to the end of the part number.

Sizing and Selection Information

Step 1: Calculate Total Hardness as GPG

Usually chemical analyses report calcium (Ca) and magnesium (Mg) in terms of parts per million (ppm) as calcium carbonate (CaCO₃). However, in some cases, the analysis is reported in terms of the elements themselves. If this is the case, proceed as follows:

Calcium (as Ca) _____ × 2.50 = _____ ppm Ca as CaCO₃. **(A)**
 Magnesium (as Mg) _____ × 4.10 = _____ ppm Mg as CaCO₃. **(B)**
 A _____ + B _____ = _____ Total Hardness PPM as CaCO₃

Total Hardness PPM as CaCO₃ _____ ÷ 17.1 = _____ GPG as CaCO₃.

Step 2: Calculate Cubic Feet of Resin Required

_____ Gallons per Day × _____ Total Hardness (GPG) = _____ Grains per Day

_____ Grains per Day ÷ 30,000 = _____ Cubic Feet of Resin Required

Select the appropriate softener based on the volume of resin. When between sizes, it is recommended to select the next size up.

Note: Above calculations are based on daily regeneration and maximum resin capacity. Regeneration based on 15 lbs. of salt per cubic foot of resin.



System shown with Optional Skid Mounting & Control Panel.



Distributed By:

Global Filter Corporation

1712 Woodcrest St. NE., Cedar Rapids, IA 52402

Toll Free: 877-603-1003 • Fax: 319-743-0220

<http://www.globalfiltercorp.com>

EM® APPLIED MEMBRANES INC.® APPLIED®
 are trademarks of APPLIED MEMBRANES, INC. © 2003 Applied Membranes, Inc