

INDUSTRIAL WATER SOFTENERS



WATER SOFTENERS WITH COMPOSITE TANKS

SWT Water Softeners with COMPOSITE TANKS, Aquamatic Diaphragm Valves, Time Initiated Backwash

Part Number	Flow Rate Superior GPM (LPM)	Flow Rate Standard GPM (LPM)	Flow Rate Peak GPM (LPM)	Flow Rate @ 5 PSI Drop GPM (LPM)	Capacity @ 6 lb/cu.ft. Grains	Capacity @ 15 lb/cu.ft. Grains	Resin Quantity Cu.Ft. (Liters)	Bed Surface Area Sq. Ft.	Backwash Rate GPM (LPM)	Tank Size Inches	Brine Tank Size Inches	Diaphragm Valve Size
WCC15P-2472	18 (68)	31 (117)	90 (341)	65 (246)	202,500	292,500	9 (255)	3.1	16 (61)	24 x 72	24 x 72	1.5" Composite
WCC20P-2472	18 (68)	31 (117)	90 (341)	125 (473)	202,500	292,500	9 (255)	3.1	16 (61)	24 x 72	24 x 72	2" Composite
WCC15C-3072	28 (106)	50 (189)	70 (265)	50 (189)	315,000	455,000	14 (396)	4.9	25 (95)	30 x 72	30 x 42	1.5" Cast Iron
WCC15P-3072	28 (106)	50 (189)	100 (379)	65 (246)	315,000	455,000	14 (396)	4.9	25 (95)	30 x 72	30 x 42	1.5" Composite
WCC20C-3072	28 (106)	50 (189)	135 (511)	80 (303)	315,000	455,000	14 (396)	4.9	25 (95)	30 x 72	30 x 42	2" Cast Iron
WCC20P-3072	28 (106)	50 (189)	140 (530)	125 (473)	315,000	455,000	14 (396)	4.9	25 (95)	30 x 72	30 x 42	2" Composite
WCC20C-3672	40 (151)	70 (265)	135 (511)	80 (303)	450,000	650,000	20 (566)	7.0	35 (132)	36 x 72	30 x 60	2" Cast Iron
WCC20P-3672	40 (151)	70 (265)	200 (757)	125 (473)	450,000	650,000	20 (566)	7.0	35 (132)	36 x 72	30 x 60	2" Composite
WCC25C-3672	40 (151)	70 (265)	200 (757)	115 (435)	450,000	650,000	20 (566)	7.0	35 (132)	36 x 72	30 x 60	2.5" Cast Iron
WCC30C-3672	40 (151)	70 (265)	200 (757)	200 (757)	450,000	650,000	20 (566)	7.0	35 (132)	36 x 72	30 x 60	3" Cast Iron
WCC30P-3672	40 (151)	70 (265)	200 (757)	280 (1060)	450,000	650,000	20 (566)	7.0	35 (132)	36 x 72	30 x 60	3" Composite
WCC20P-4272	50 (189)	90 (341)	180 (681)	130 (492)	562,500	812,500	25 (708)	9.6	48 (182)	42 x 72	39 x 48	2" Composite
WCC25C-4272	50 (189)	90 (341)	200 (757)	120 (454)	562,500	812,500	25 (708)	9.6	48 (182)	42 x 72	39 x 48	2.5" Cast Iron
WCC30C-4272	50 (189)	90 (341)	250 (946)	190 (719)	562,500	812,500	25 (708)	9.6	48 (182)	42 x 72	39 x 48	3" Cast Iron
WCC30P-4272	50 (189)	90 (341)	250 (946)	280 (1060)	562,500	812,500	25 (708)	9.6	48 (182)	42 x 72	39 x 48	3" Composite
WCC20P-4872	65 (246)	115 (435)	180 (681)	130 (492)	720,000	1,040,000	32 (906)	12.6	63 (238)	48 x 72	50 x 60	2" Composite
WCC25C-4872	65 (246)	115 (435)	200 (757)	120 (454)	720,000	1,040,000	32 (906)	12.6	63 (238)	48 x 72	50 x 60	2.5" Cast Iron
WCC30C-4872	65 (246)	115 (435)	320 (1211)	210 (795)	720,000	1,040,000	32 (906)	12.6	63 (238)	48 x 72	50 x 60	3" Cast Iron
WCC30P-4872	65 (246)	115 (435)	320 (1211)	300 (1136)	720,000	1,040,000	32 (906)	12.6	63 (238)	48 x 72	50 x 60	3" Composite
WCC30C-6367	80 (303)	135 (511)	330 (1438)	210 (795)	855,000	1,235,000	38 (1076)	19.6	98 (371)	63 x 67	60 x 60	3" Cast Iron
WCC30P-6367	80 (303)	135 (511)	380 (1438)	310 (1173)	855,000	1,235,000	38 (1076)	19.6	98 (371)	63 x 67	60 x 60	3" Composite
WCC40C-6367	80 (303)	135 (511)	380 (1438)	420 (1590)	855,000	1,235,000	38 (1076)	19.6	98 (371)	63 x 67	60 x 60	4" Cast Iron
WCC30C-6387	140 (530)	245 (927)	330 (1438)	210 (795)	1,575,000	2,275,000	70 (1982)	23.8	119 (450)	63 x 87	60 x 60	3" Cast Iron
WCC30P-6387	140 (530)	245 (927)	440 (1666)	310 (1173)	1,575,000	2,275,000	70 (1982)	23.8	119 (450)	63 x 87	60 x 60	3" Composite
WCC40C-6387	140 (530)	245 (927)	600 (2271)	440 (1666)	1,575,000	2,275,000	70 (1982)	23.8	119 (450)	63 x 87	60 x 60	4" Cast Iron

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 EFFECTIVE
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System is unassembled (for shipping purposes) and includes all necessary valves, tank, grades of media, underbedding, internal distributors/strainers, drain line flow controls, and the clock/timer/stager assembly mounted into a control box. External piping is not included. Customer may want to consider system additions of pressure gauges, sample cocks, vacuum breakers, flex connectors, bypass valves, shut-offs, etc.

Cast Iron Valve available connections: (FPT: 1.5 inch, 2 inch, 2.5 inch, 3 inch); (Flanged: 3 inch, 4 inch, 6 inch)

Plastic Valve available connections: (MPT: 1.5 inch); (Male Spigot Weld: 1.5 inch, 2 inch); (Female Socket Weld: 2 inch); (Flanged: 2 inch, 3 inch)

Recommended Service Flow Rates/Ranges are based on the cu.ft. of the tank/filter bed. Slower flow rate per cu.ft. = Better Filtration

- 2 gpm/cu.ft. = Superior Softening (less than 0.15 grain (3 ppm) of hardness leakage) with less than 2 psi drop
- 3.5 to 5 gpm/cu.ft. = Commercial Grade Softening (up to 1 grain (17 ppm) of hardness leakage) with less than 5 psi drop
- 5 to 10 gpm/cu.ft. = Utility Softening
- Peak flow rates are based on 10 gpm/cu.ft. or greater than 12 psi loss, whichever occurs first.

System Flow Rates as listed are based on pressure drop curves of less than 2 psi drop through the service valves.

Backwash Rates for proper bed cleaning are best achieved at 3.8 gpm/cu.ft at 60°F. However, adjustments in the backwash rate may be necessary for different water temperatures. Also allow backwash variations for valve sizes, pipe sizes, pump sizes, water availability, and unique applications.

Backwash Rates allow 50% bed expansion at 60°F.

Valve Sizes and Tank Size Pairings for special flow rates and backwash rates may be substituted at customer request or are application dependent.

Operating Pressure: 150 psi (10 bar)

Maximum Temperature: 140°F (60°C)

Capacity based on 23 grains (400 ppm) of hardness as CaCO₃ at 2 to 4 gpm/cu.ft. (2 to 1 CaCO₃ to Mg ratio).

Hardness Leakage of less than 3 ppm (0.2 grains) at 6 lb. NaCl, and less than 1 ppm (0.1 grains) at 12 lb. NaCl. Total bed hardness capacity includes a 5% safety factor.