



CARIBE WATER TECHNOLOGY, INC.

Water Softener System 1”

CWTS 1” Series

Are designed to removed calcium and magnesium ions from incoming water and replace them with soft sodium ions. Our complete system series features the Clack Softener Valve with standard controller for simple operation and efficient regeneration.

Materials of Construction

- Media Tank.....FRP-HDPE lined
- Control Valve.....Clack®
- Media.....Virgin cation resin with gravel support bed
- Distributor Piping.....PVC
- Brine Tank.....Polyethylene

Operating Parameters

- Pressure..... 20-100 psi (1.40-7.03kg/cm)
- Temperature.....35-100°F (2-38°C)
- Electrical.....115/60Hz, single phase
- Inlet/Outlet.....1.0 inch
- Drain.....0.75 inch

Standard Features

- Fully automatic regeneration
- 30,000 to 150,000 grains of hardness removal
- Flow rates up to 25 US gpm
- Durable, high quality exchange cation resin
- Non-corroding fiberglass tank
- Valve constructed of plastic materials
- Standard reliable digital timer
- Tank for brine making & salt storage
- Twin alternating system feature an E-timer



Typical Applications

- Reverse osmosis pretreatment
- Boiler feed water
- Reagent grade laboratory water system
- USP purified water system
- Hemodialysis water system
- Commercial water system

Options Available

- Single, duplex twin alternating or parallel configurations
- Free standing or skid-mounted complete system
- Factory, fully pre-plumbed and pre-wired system
- Custom installations and valve nest to meet facility requirements

1" CWTS Series Single Water Softener @ 25°C

Model Number	Capacity Maximum (Kgr)	Flow Design (US gpm)	Resin Volume (Ft.*)	Backwash Flow (US gpm)	Pressure Drop@Peak (psig)	Salt Per Regen (Lbs.)	Brine Tank Capacity (lbs.)	Media Tank W x H (In.)	Brine Tank W x H (In.)	Shipping Weight (Lbs.)	Space Required W x D x H (In.)
SS-1047-1	30	5	1	2.5	5	10	400	10x47	18x40	150	20x18x57
SS-1242-1	45	7.5	1.5	3	7.5	15	400	12x42	18x40	195	30x18x52
SS-1252-1	60	10	2	4	10	20	400	12x52	18x40	245	30x18x62
SS-1465-1	90	15	3	7	15	30	700	14x65	24x41	350	38x24x75
SS-1665-1	120	20	4	9	20	40	700	16x65	24x41	485	40x24x75
SS-1865-1	150	25	5	10	25	50	700	18x65	24x41	565	42x24x75

1" CWTS Series Duplex Twin Alternating Water Softener @ 25°C (contains two valves, two media tanks, one brine tank)

Model Number	Capacity Maximum (Kgr)	Flow Design (US gpm)	Resin Volume (Ft.*)	Backwash Flow (US gpm)	Pressure Drop@Peak (psig)	Salt Per Regen (Lbs.)	Brine Tank Capacity (lbs.)	Media Tank W x H (In.)	Brine Tank W x H (In.)	Shipping Weight (Lbs.)	Space Required W x D x H (In.)
SS-D-1047-1	30	5	1	2.5	5	10	400	10x47	18x40	300	38x18x57
SS-D-1242-1	45	7.5	1.5	3	7.5	15	400	12x42	18x40	390	42x18x52
SS-D-1252-1	60	10	2	4	10	20	400	12x52	18x40	490	42x18x62
SS-D-1465-1	90	15	3	7	15	30	700	14x65	24x41	650	52x24x75
SS-D-1665-1	120	20	4	9	20	40	700	16x65	24x41	920	56x24x75
SS-D-1865-1	150	25	5	10	25	50	700	18x65	24x41	1080	60x24x75

Note: Values above are listed per tank except for shipping weigh and space requirements. Dimensions and weights are approximate. Parallel and triplex system are available.

Installation Considerations

- For proper service ability, it recommended that there de 18" of space around the entire system. A minimum of 12" is required. The tanks should be installed on a firm, level surface.
- The inlet piping should be sized large enough to provide the required water flow for both service flow and backwashing of the tanks with minimum amount of pressure loss.
- A drain with suitable capability for the backwash flow rate of the tanks is required.
- Isolation valves, pressure gauges and sample ports should be installed on the inlet and outlet piping of each tank.

