

Marlo CTC Series Water Softeners



Features

Dependable Fully Automatic Controls.

State of the art control design assures top performance and ease of use in one of the industry's most reliable water conditioners.

Fewer Parts Than Comparable Valves.

Fewer parts and minimum number of sealing members ensures reliable, trouble-free performance.

Economy Salt Saving Brine Control.

Precision brining cycle increases salt efficiency and assures minimum water usage during regeneration.

Automatic Bypass During Regeneration.

During regeneration, bypass water is automatically available.

Outstanding Warranty and Product Assurance.

Product materials and workmanship are protected with a written warranty that you can depend on. You will know you have complete product protection even though you may never need it.



For the Laundry

Clothing looks cleaner with reduced fading and fabric wear. Clothing life can be extended by as much as 15%. Soap and detergent consumption can be substantially reduced.

For the Kitchen

Dishes and glasses look cleaner and brighter.

For the Family

Hard water can cause dryness. Skin and hair washed in soft water look and feel better.

For the Home

Water using appliances last longer. Softened water maintains energy efficiency.

Easily Eliminate Hard Water with Marlo CTC Water Softeners

Hard water can be a lot more problematic than you think. It can cause buildup of mineral scale inside your appliances and plumbing. It can block your water supply and cause appliances like dishwashers and washing machines to fail. Hard water stains kitchen and bathroom fixtures and also reduces the effectiveness of soaps and detergents, meaning

that you and your clothing don't get as clean. End the troubles of hard water with a Marlo water conditioner. Our CTC series water softener removes hard minerals from your water leaving it soft, clean and better tasting. Soft water saves you money. Enjoy the benefits of a Marlo water softener. Call and order yours today!

Take a look at the advantages of using a Marlo water softener:

- Soft water improves the efficiency of water based heating systems and hot water systems and can extend the life of your water heater by 50%.
- Use only half the soap in the laundry, bathroom, and kitchen as you normally would with hard water.
- Save money on hair conditioners and shaving cream as you use up to 25% less.
- Extend the lives of dishwashers, washing machines and other water-using appliances by 30%.
- Laundered clothes will be cleaner and last longer.

In the kitchen The Marlo CTC will

- Give you spot-free glassware, dishes and silverware.
- Eliminate hard water stains on sinks and fixtures.
- Extend the life of your appliances and plumbing.

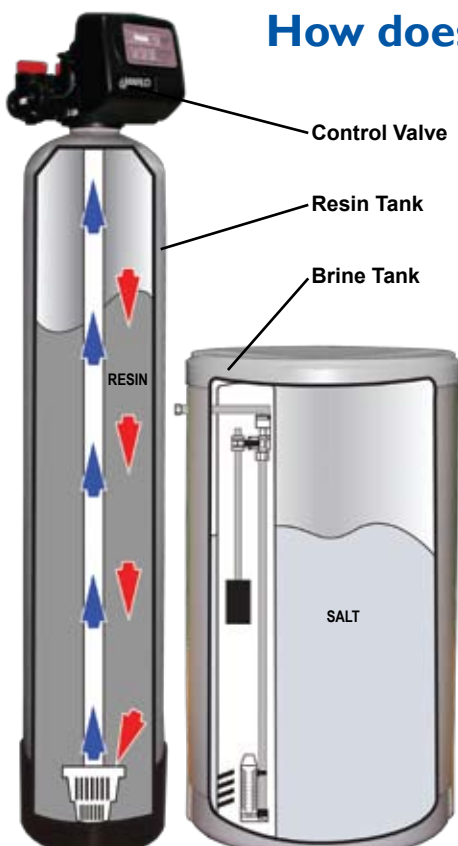
In the bathroom

- Less soap-scum on tubs, tile & sinks.
- Stain-free fixtures.
- Shiny healthier looking hair & softer skin.
- Reduce the amount of soap you use.

In the laundry

- Whites and colors will be more vibrant.
- Reduce laundry detergent usage.
- Extend the life of your washing machine.

How does a Marlo Water Softener Work?



The diagram illustrates the internal components of a Marlo water softener. On the left is a tall vertical tank labeled 'RESIN' containing a bed of resin beads. At the top of this tank is a 'Control Valve'. To the right is a smaller cylindrical tank labeled 'SALT' (the brine tank). Arrows indicate the flow of water from the control valve down through the resin bed. A separate arrow shows brine being drawn from the salt tank into the resin tank for regeneration.

1. The untreated water enters the Control Valve where it is directed into the top of the Resin Tank and passes downward through a bed of resin. The resin will react with Calcium and Magnesium, the hardness minerals, by equally exchanging them for Sodium. When the water reaches the bottom of the tank, it is distributed up through a tube in the center of the tank into the Control Valve and through the outlet port as softened water.
2. When the resin is saturated with mineral (hard water) it must be regenerated. After a backwash step to clean the resin bed, a brine solution is flushed through the resin tank, bathing the resin beads with Sodium which replace the accumulated Calcium and Magnesium (hardness).
3. After brine is drawn into the resin tank, a rinse of just water passes through the bed rinsing the brine off. When the rinse cycles are finished, the resin cleaning process is complete and the bed is re-charged.
4. The Marlo Control Valve will track your water usage and automatically perform the above processes.



CTC SERIES

Automatic Water Conditioners



Specifications

Model Number	Units	CTC-22-K	CTC-30-K	CTC-40-K	CTC-45-K	CTC-60-K	CTC-22-KC	CTC-30-K
Exchange Capacity— Kilograins	MAX	22,836	30,448	38,060	45,672	60,896	22,836	30,448
	MID	19,509	26,012	32,515	39,018	52,024	19,509	26,012
	MIN	14,514	19,352	24,190	29,028	38,704	14,514	19,352
Salt per Regeneration Lbs./Regen	MAX	11.25	15.00	18.75	22.50	30.00	11.25	15.00
	MID	8.00	10.00	13.00	15.00	20.00	8.00	10.00
	MIN	4.00	5.00	6.00	8.00	10.00	4.00	5.00
Max. Service Flow (1)	GPM	16.00	15.00	16.00	17.00	20.00	16.00	15.00
Pipe Size	IN.	1"	1"	1"	1"	1"	1"	1"
In-Out Drain	IN.	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Operating Pressure Max.	PSI	125	125	125	125	125	120	125
Operating Temperature Maximum	DEG F	110	110	110	110	110	110	110
Mineral Tank Size (Dia. x Ht.) (2)	IN.	8x44	9x40	9x48	10x54	12x52	8x35	10x35
Brine Tank (Dia. x Ht.) (3)	IN.	18x33	18x33	18x33	18x40	18x40	—	—
Salt Storage	LBS	375	375	375	375	450	250	250
Resin Volume	CU. FT.	0.75	1.00	1.25	1.50	2.00	0.75	1.00
Electrical (Voltage, Cycle)	120 Volts 60 Hz							
Shipping Weight	LBS	72	86	105	119	137	77	91
Floor Space	IN.	27x18	28x18	28x18	29x16	31x18	13.5x22.5	13.5x22.5
Overall Height	IN.	52	48	56	62	60	42	42
Max Flow to Drain During Regeneration (4)	GPM	1.7	2.2	2.2	2.7	3.2	1.7	2.7
NOTE:								
(1) Pressure drop at 15 psi.								
(2) Pressure vessels are seamless and made of reinforced fiberglass, pressure-tested at 300 psi.								
(3) Brine tanks are fabricated of seamless, rigid, tough, high-impact, non-toxic polyethylene.								
(4) 50 psi inlet pressure.								



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