

## Smart Water Plus Twin Alternating Softeners

Hard water can be much 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 Smart Water Pluswater conditioner. Our SWPTA series water softener is a meter initiated twin-alternating softener that provides a continuous supply of softened water with no down time for regeneration. The SWPTA series offers a robust and efficient solution for reducing mineral scale, soap usage, and energy consumption in their plumbing and other water-using equipment.

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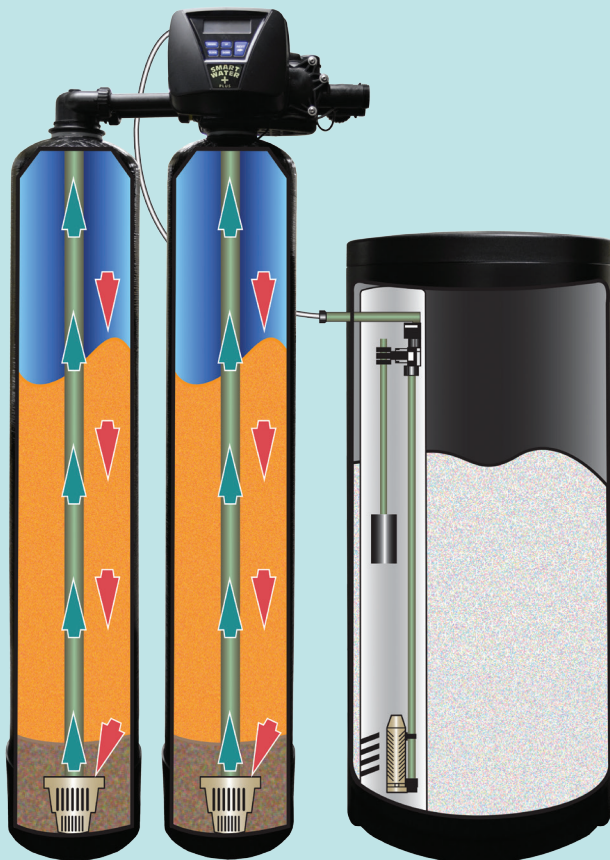
Water Treatment, Inc.

## The Advantages of a Smart Water Plus 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.
- ♦ Counter-current regeneration means ultimate efficiency with less waste than most systems.
- ♦ Save money on hair conditioners and shaving cream by using up to 25% less product.
- ♦ Extend the lives of dishwashers, washing machines and other water-using appliances by 30%.
- ♦ Laundered clothes will be cleaner and last longer.



## How does a Twin Alternating Softener Work?



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 Control Valve will perform the above processes, track your water usage for you, and automatically put the second resin tank into service while the other regenerates.

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