



# SAY GOODBYE TO HARD WATER!

## WATER SOFTENER APPLICATIONS

- Residential
- Commercial and Industrial
- Healthcare and Laboratories
- Food and Beverage Production



**1** SAND FILTER

**2** CARBON FILTER

**3** SOFTENER

## What is a Water Softener?

A water softener combats hard water issues like scale buildup and reduced detergent effectiveness through ion exchange. It replaces harmful minerals like calcium and magnesium with sodium ions, resulting in soft water that protects plumbing, extends appliance life, and improves soap efficiency. Regular maintenance, including salt replenishment, is essential for optimal performance.

## FEATURES

- **Ion Exchange Process:** This key function involves swapping calcium and magnesium ions for sodium or potassium ions, effectively softening the water.
- **Resin Beads:** Vital for the ion exchange process, these beads allow minerals to bind during water flow and require regular regeneration.
- **Regeneration Cycle:** An automated system flushes out minerals from the resin bed, rejuvenating the system for ongoing efficiency.
- **Control Valve:** This component manages water flow and monitors usage, adjusting the regeneration frequency according to actual consumption.
- **Brine Tank:** This tank stores the salt solution needed for the ion exchange regeneration process and works alongside the mineral tank.

## SIGNS YOU NEED A WATER SOFTENER



DULL LINENS &  
CLOTHING



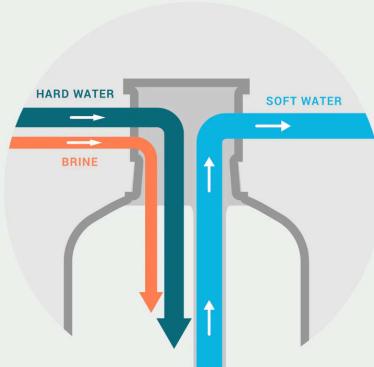
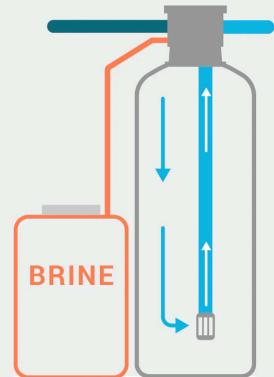
SCALE BUILD UP ON  
FACETS



BAD TASTE IN THE  
WATER



STAINS ON DISH WARE &  
GRASS WARE



WORKING PRINCIPLE



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