

# Satin Series

*Residential Water Softeners*



*Highly efficient  
water conditioning  
for the whole home  
through ion exchange*



# Master Water's Satin Series

ion exchange process softens water for the whole home.



Groundwater picks up minerals and dissolved substances from whatever it passes through. Calcium and magnesium are particularly consequential because these minerals make water hard, and affect water function in your home. By conditioning hard water through an ion exchange process, calcium and magnesium are reduced, making the water soft.

Water softening systems utilize a mineral tank to extract the minerals by attracting the positively charged calcium and magnesium ions to a negatively charged media, typically polystyrene beads known as resin. Hard water passes through a mineral tank, leaving the mineral ions bonded to the resin, and soft water is dispensed. When the resin is saturated, a regeneration cycle cleans the mineral tank utilizing a brine solution to release the mineral ion bond from the resin and then flushing the excess brine solution. Once the regeneration cycle is complete the mineral tank is ready to repeat the process.

## Maximize efficiency. Save money.

Soft water is energy efficient, preempting the build up of mineral deposits typically left inside pipes, appliances and fixtures by hard water. Cleaner pipes improve water flow and reduce energy costs. Decreased mineral build-up also optimizes performance and maximizes the lifespan of fixtures and appliances. For the storage-type gas water heater, there is a reduction in the carbon footprint of 14.8% over a fifteen-year water heater service life with softened water compared to 26 gpg (grains per gallon) hard water.\*

*As little as 1/8 inch of hard scale on a water heater element will reduce heating efficiency by 20 percent.*



## Vortech® technology

With the advanced Vortech® distribution system there is now less water to drain, higher service flow and higher efficiency. This bottom-distribution system improves cleaning of the resin bed, reduces discharge, and optimizes the flow path of water through the softener bed.



## Satin Series features:

- Smart Valve Technology
- Vortech® Smart Tank Technology
- Fully adjustable timer settings
- Optional regeneration times can be set to regenerate on demand or at a specific time
- Optional second backwash
- Factory programmed control valve configured for optimized efficiency
- Programmed information permanently stored
- Time/date retention for up to 8 hours during power failure
- Factory support for the life of the unit

## Satin Series benefits:

- Reduces scale and improves flow in pipes, fittings and fixtures
- Reduces additional dissolved substances like ferrous iron, manganese, lead and copper
- Saves money on appliance life, soaps, detergent use, and plumbing expenses
- Highly efficient water optimization requiring low salt usage
- Improves cleaning
- Easy to program and reprogram if/when water conditions change



## Enhanced cleansing.

When water is softened prior to use, temperature can be reduced from hot to cold, and detergents can be reduced up to 50% for laundry and 70% for dishwashers and still achieve the same or better results than when using hard water.\* Soft water dissolves soaps and detergents more completely, boosting lather and rinsing clean as well as saving energy. Soft water makes fabrics feel softer and smell fresher. Clothes look cleaner and brighter with less fading, prolonging garment life. Dishes washed in soft water are left sparkling clean. Bathing in soft water leaves skin smooth and hair shiny and silky.

\* Benefits of Removal of Water Hardness from a Water Supply Research Study conducted in 2009 in conjunction with the Battelle Memorial Institute and funded by the Water Quality Research Foundation.

# Your Clear Choice

Master Water has been the clear choice for healthy water solutions since 1967. We understand water from all aspects that have an effect on our lives – how quality water impacts human well-being, a safer environment, and the best ways to conserve water. All of our products are proudly manufactured in the USA and come with a substantial warranty and a quality team of customer support and service.

## Our Products:

- **Combination units** – offer softening and filtering in one compact unit
- **Filters** – improve the quality of water by neutralizing pH, removing foul odors and taste, sediment and color
- **Membrane technology** – an effective process to filter water without chemicals for a range of dissolved and submicron suspended contaminants
- **Softeners** – eliminate mineral buildup inside pipes, reduce mineral deposits and a number of dissolved substances
- **Ultraviolet disinfection** – an efficient method for water purification without the use of chemical additives. Disinfection destroys pathogens such as E. coli bacteria making water safer to consume.
- **Ozone Technology** – Salt and chemical free solutions to reduce iron, sulfur, turbidity and more. Ozone is the treatment method of choice by water treatment professionals to replace chlorine.

## Satin Series Product Warranty

### YEARS COVERED

	1	5	6	12
<b>Complete System</b>	●			
<b>Complete Control Valve</b>	●	●		
<b>Control Valve Body</b> (excluding internals and electric parts)	●	●	●	
<b>Mineral Tanks and Brine Tanks</b>	●	●	●	●



[www.masterwater.com](http://www.masterwater.com)



Product tested and certified by WQA to meet the requirements of NSF/ANSI 44