

NEW

VariSoft™

Water Softener by VERTEX



Great Feel and Comfort

The water you need for the life you want

The new **Vertex VariSoft™** water softener gives you a better bathing experience, brighter shinier hair, and dishes that sparkle. You will get a noticeable savings on soap and detergents as well as eliminate mineral deposits on faucets, fixtures, bathtubs and sinks. Not only will you protect your water-using appliances from scale buildup, their efficiency and service life will improve.

The On-Demand meter control allows for less regeneration cycles, which reduces water and salt usage. The VariSoft also includes a high efficiency injector that saves even more water.



VERTEX
WATER PRODUCTS



VariSoft

Make Bathing Better!

Soap and shampoo lather better in soft water, so you will rinse cleaner and have a better bathing experience. Your skin will feel softer and your hair will be shinier and feel silky smooth. Especially good for those with sensitive skin.

Wash Cleaner and Save

Softened water makes less soap scum, so your cloths wash cleaner with less rinsing. There is no soap residue to get trapped in the fabric, which can make your clothes feel rough and stiff and reduce their life. Soap and detergent dissolve better so less is needed, which can save you up to 60% of laundry costs.

Stay Spotless

Glasses and dishes come right out of the dishwasher without hard water spots and streaks. Shower doors and bathroom surfaces stay free from mineral deposits and soap scum build-up.

Increase Appliance Life and Performance

Eliminating scale build-up in pipes and fixtures extends the life of all water using appliances – such as dishwashers, washing machines, water heaters and coffee makers. Just a little scale build-up in a water heater can increase fuel costs by 20%.

Use Less Salt and Waste Less Water

The On-Demand meter control with blending valve allows for less regeneration cycles, which reduces water and salt usage. The VariSoft also includes a high efficiency injector that saves even more water.



Features & Benefits:

- Proven reliable – valve tested to 10,000 regeneration cycles (equivalent to over 27 years of continuous use)
- Electronic Meter-Control Works on Demand – Never waste a pound of salt or run out of soft water.
- Specialized, non-corrosive valve uses motorized piston that provides more reliability than rotary valve systems
- Convenient 3-button control with LED display for easy programming and easy-to-read status
- Program memory is not lost if the power fails
- Bypass valve included for ease of softener installation and convenient maintenance
- Proven single piston valve design with over 25 years in the field
- Available with stainless steel jacket

N25 Control Valve

F20 Control Valve



How a Water Softener Works

Softening is a 4-Step Process

1. The water softener tank is filled with small diameter resin beads which are charged with sodium ions. When hard water flows through the resin bed, the beads act like a magnet, attracting the calcium and magnesium ions in the water in exchange for the sodium ions.
2. Eventually the resin beads become saturated with the hardness mineral ions and must be recharged. This regeneration process is conducted by the control valve on the top of the tank. The control valve is the brain of the system.
3. During regeneration, a strong brine solution from the brine tank is flushed through the resin tank, bathing the resin beads in a stream of sodium ions from the salt in the brine. This replaces the calcium and magnesium ions captured by the resin beads.
4. The brine solution carrying the displaced hardness minerals is flushed to the drain with fresh water. The resin beads can be used over again.



Valve and Bypass Features

Metered valve with simple 3 button electronic interface and programming

Noryl bypass valve with integrated meter.

Proven single piston design reduces moving parts and increases efficiency and longevity

Pressure tested over 100,000 cycles from 0-150 psi to ensure reliability for the US market. Valve tested to 10,000 regeneration cycles

New injector design for more efficient brine draw and water savings

Downflow design with standard 33% freeboard

Specially coated meter sensor prevents iron fouling

Salt grid included in every brine tank

Brine safety valve included

8% crosslinked resin standard, 10% available

Low voltage (24v) system eliminates danger of high-voltage shock

Metal bypass wrench included

5 year valve warranty, limited lifetime tank warranty
(For complete warranty details see product warranty statement)



Bypass Valve



Shown with optional stainless steel jackets

How to Choose the Proper Size Softener

Determine the hardness of water (*Water Hardness Test Strips available*), and daily total water usage. Use the equation below to determine the daily softening requirements:

Example

People in household x gallons per person x hardness (grains)

An average person uses 100 gal. per day of water, so a household of four uses 400 gal/day. At 20 grains of hardness per gallon, 8000 grains have to be removed per day. With regeneration every 3-days, the minimum softener capacity should be 24,000 grains (8000 grains/day x 3 days). A 1.0 cu. Ft. softener would be the best choice.

Model Number	V948	V1054	V1252
Applications	small homes apts, condos	average home	luxury homes
Nominal Resin Capacity*	1.0 Cu. Ft.	1.5 cu. Ft.	2.0 Cu. Ft.
Hardness Removal maximum grains	30,000	45,000	60,000
Nominal System Flow @50 psi, 15 psig drop	19.3 gpm	19.3 gpm	20.1 gpm
Softener Tank Size	9"dia. x 48" high	10"dia. x 54"high*	12"dia. x 52" high
Brine Tank Size	15" X 15" 31" high	15" X 15" 31" high	15" X 15" 31" high
Type Control Valve	F20	F20	N25
Pipe Sizes	inlet, 1" mpt drain, 1/2" fpt brine, 3/8" tube	inlet, 1" mpt drain, 1/2" fpt brine, 3/8" tube	inlet, 1" mpt drain, 1/2" fpt brine, 3/8" tube
Bypass with Meter and Blending Valve	included	included	included
Power Supply	24 VAC	24 VAC	24 VAC
Weight, Pounds	85	115	160
Overall Dimensions	H-56", W-25" D-15"	H-62", W-26" D-16"	H-62", W-30" D-18"

Conditions of Use: Water must be microbiologically safe; System pressure, 20 min to 100 max psi; Temp 40 to 100° F

Authorized Dealer

Member
**WATER
QUALITY
ASSOCIATION**



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