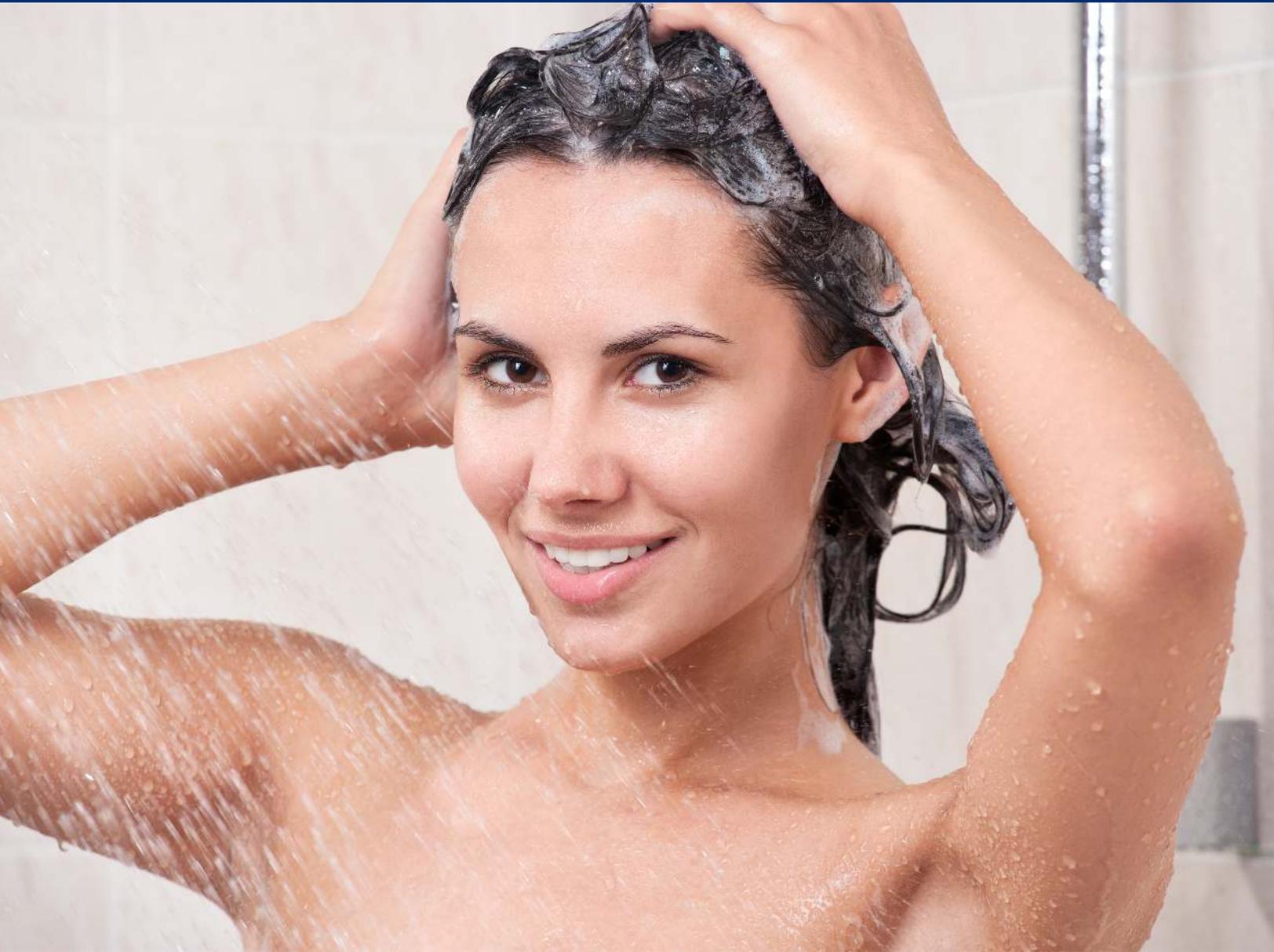


# SOFT-TEC® SCALE CONTROL SYSTEM



Quality through innovation





## Soft-Tec® Scale Control System

The Soft-Tec® Scale Control System prevents scale buildup from forming on fixtures and appliances in your home. The system transforms positively charged calcium ions found in your water into calcium crystals which cannot attach to any kind of surface, resulting in 100% scale control and prevention.

Enjoy dishware that shines, and appliances that last longer and run more efficiently with the Soft-Tec® Scale Control System from Excalibur Water Systems. Available in a Premium, Superior or Econo model.

***The Soft-Tec® Scale Control System does not waste any water, as there is no backwash cycle, saving you money!***



\*excluding carbon filtration consumables



No scale buildup on fixtures and appliances



No electrical power required = no cost to operate



Cut your housecleaning time in half



Save on hot water heating costs



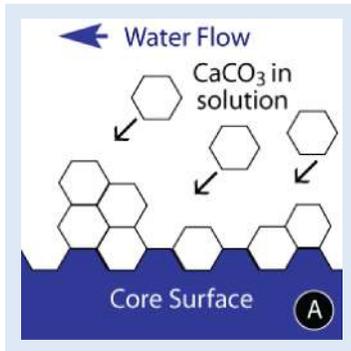
Spotless dishware



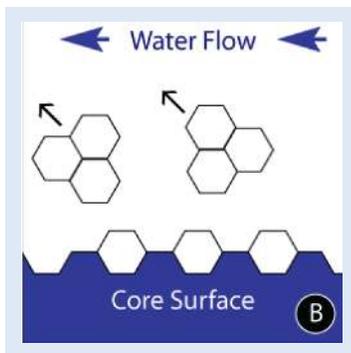
Appliances using water run more efficiently

## Soft-Tec® Scale Control System

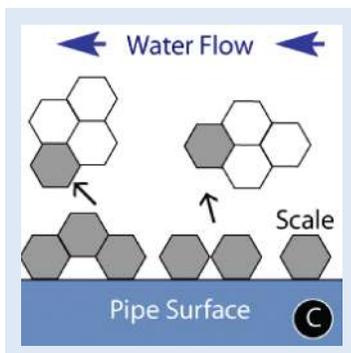
### How Does It Work?



The Soft-Tec® Scale Control System controls harmful dissolved lime from water via "template induced or epitaxial crystallization". The scale control system's media surface accelerates the natural tendency of dissolved lime to crystallize, but does so before lime can deposit on pipes/surfaces further downstream. The composition of the Soft-Tec® Scale Control System media surface mimics that of calcium carbonate crystals, allowing the dissolved lime in hard water to form microscopic hard crystals of "activated lime" on the media surface via the process of "template induced or epitaxial nucleation."



The Soft-Tec® Scale Control System media returns lime to the water as stabilized crystals of "activated lime". Once the microscopic crystals of activated lime grow large enough, they are freed from the Soft-Tec® Scale Control System media surface by shear forces of water flow. This makes room for generation of new activated lime crystals. These activated lime crystals are "stabilized," and will not cause pipe scaling or stubborn lime deposits on surfaces. When the Soft-Tec® Scale Control System media-treated water dries on surfaces, these crystals form a fine, dusty residue that is easily wiped off without cleansers.



The Soft-Tec® Scale Control System media's produce "activated" crystals then remove pre-existing scale and prevent new scale formation. Calcium carbonate in pre-existing scale will slowly "redistribute" itself from the low-surface area of pipe surfaces and plumbing to the high surface area of all the crystals in solution. The trillions of microscopic crystals of activated lime provide an incredibly high total surface area for further epitaxial crystallization. The net result is removal of pre-existing lime scale from plumbing, keeping pipes and appliances lime-free whilst leaving a thin protective surface!

## Water Chemistry Requirements

Hardness: 0 - 75 GPG

Temperature: 36 - 122°F  
(2 - 50°C)

Pressure: 40-100 psi

Iron: 0.0 ppm

Sulphur: 0.0 ppm

Manganese: 0.0 ppm

Phosphate: 0.0 ppm

## New Copper Pipe Installation

When new copper pipe is installed you must wait 60 days prior to install. Because the new copper pipe has the potential of leaching copper into the water until it has a chance to build up a patina. The time required for this varies greatly from a few days to 60 days depending on water chemistry and how much damage was done to the plumbing system by the excessive use of corrosive flux in the soldering process.

## Temperature

The seed crystals that are produced by the media will continue to grow or partially re-dissolve depending on changes of Langelier Saturation Index of the water. Temperature is one of five parameters that are factors in LSI.

## Dishwasher Operation

In the first 90 days make sure your dishwasher drying cycle is turned off and you're using rinse agent to assist in scale control from the hot water tank. Always use phosphate free dishwashing detergent.

## Soft-Tec® Scale Control Testing

Soft-Tec® used the testing protocol of DVGW through an independent laboratory. DVGW is recognized throughout Europe like the National Sanitation Foundation (NSF) in North America. The test was done by running raw 20gpg hardness water at 80°C for continuous 21 days and then water with same properties treated by Soft-Tec® media was ran for 21 days. The comparison of Calcium scale proves the proficiency more than 99%.



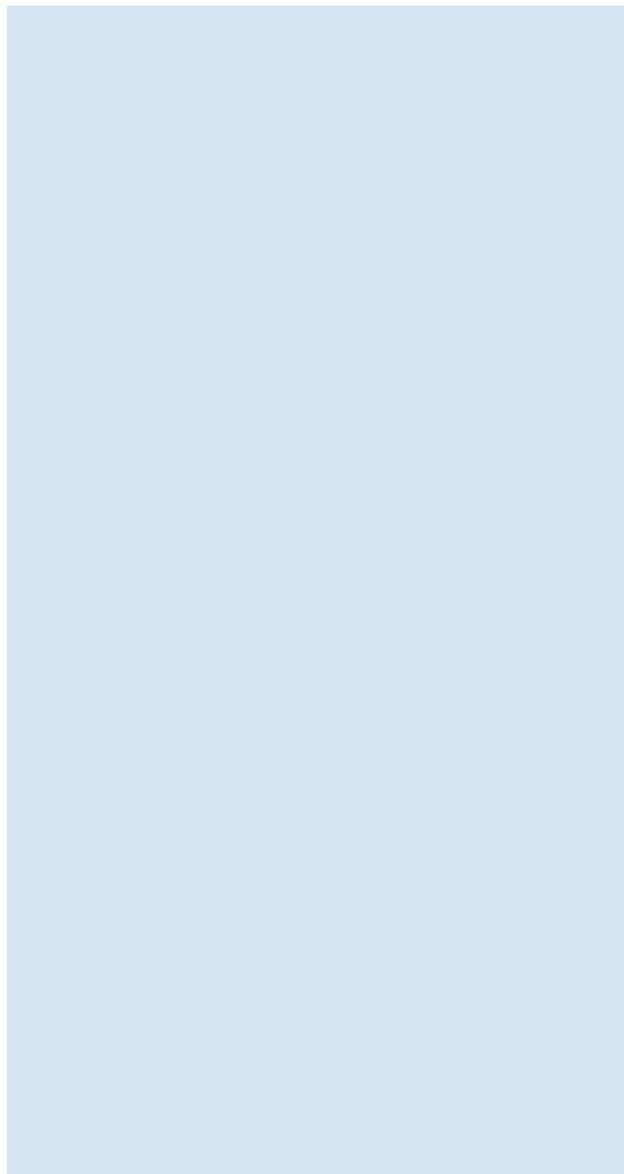
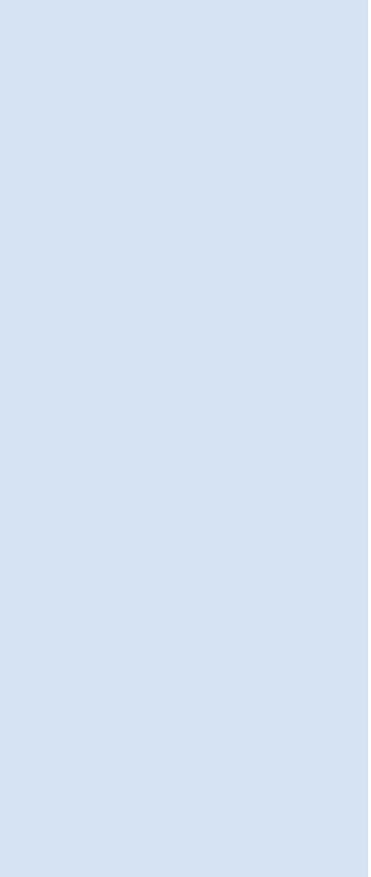
21 Days Soft-Tec® Treated Water



21 Days Raw Water (20gpg)

## Soft-Tec® Benefits

- No additional water, chemicals or salt required
- No electricity cost
- No operating cost
- Essential body nutrients in your water remain intact
- Environmentally friendly, no salt required



## Pretreatment: Filtermax™ Chemical Removal Filter

Excalibur Water Systems requires a Filtermax™ Chemical Removal Filter be used as a form of pretreatment for your Soft-Tec® Scale Control System. Your water may look clean, but all municipal water contains highly toxic chemicals that can lead to negative health effects. A Filtermax™ Chemical Removal Filter will remove these highly toxic chemicals including chlorine, chloramines, THM's, and volatile industrial chemicals from your water supply, providing safe, clean water for you and your family. This pretreatment protects your Soft-Tec® Scale Control System, giving it a longer life.

### Filtermax™ Premium Chemical Removal Filter



Volatile and organic chemicals are easily dissolved in your municipal water supply. The chemicals found in your water can cause serious health issues. The Filtermax™ Premium Chemical Removal Filter from Excalibur Water Systems will take out most volatile and industrial chemicals, providing safe, clean water. This system is backed by a 7 year unlimited warranty.

Part #	Pressure (psi)	Temperature (°F)	L x W x H (in)
EWS POUPCS075	20-125	40-110	9" x 13" x 50"

### Filtermax™ Superior Chemical Removal Filter



Volatile and organic chemicals are easily dissolved in your municipal water supply. The chemicals found in your water can cause serious health issues. The Filtermax™ Superior Chemical Removal Filter from Excalibur Water Systems will take out most volatile and industrial chemicals, providing safe, clean water. This system is backed by a 5 year unlimited warranty.

Part #	Pressure (psi)	Temperature (°F)	L x W x H (in)
EWS POUBCS075	20-125	40-110	9" x 13" x 50"

## Soft-Tec® Scale Control Systems - No water softening salt required

### Soft-Tec® Premium Scale Control System



The Soft-Tec® Premium Scale Control System prevents scale buildup from forming on fixtures and appliances in your home. The system transforms positively charged calcium ions found in your water into calcium crystals which cannot attach to any kind of surface, resulting in 100% scale control and prevention. Your dishware will shine, and appliances using water will run more efficiently. This system handles flow rates up to 10 gallons per minute, and is backed by a 7 year unlimited warranty. For larger systems, please contact Excalibur Water Systems.

Part #	Pressure (psi)	Temperature (°F)	L x W x H (in)
EWS NSP0844	20-125	40-110	9" x 13" x 50"

### Soft-Tec® Superior Scale Control System



The Soft-Tec® Superior Scale Control System prevents scale buildup from forming on fixtures and appliances in your home. The system transforms positively charged calcium ions found in your water into calcium crystals which cannot attach to any kind of surface, resulting in 100% scale control and prevention. Your dishware will shine, and appliances using water will run more efficiently. This system handles flow rates up to 10 gallons per minute, and is backed by a 5 year unlimited warranty. For larger systems, please contact Excalibur Water Systems.

Part #	Pressure (psi)	Temperature (°F)	L x W x H (in)
EWS NSB0844	20-125	40-110	9" x 13" x 50"

### Soft-Tec® Econo Scale Control System



The Soft-Tec® Econo Scale Control System handles flow rates up to 5 gallons per minute, and is backed by a 5 year unlimited warranty (excluding carbon block cartridge consumable). The first stage of this system utilizes a carbon block filter cartridge and the second stage utilizes scale control. For larger systems, please contact Excalibur Water Systems.

Part #	Pressure (psi)	Temperature (°F)	L x W x H (in)
EWS DH20NS	20-85	40-110	22" x 5" x 27"

\*excluding carbon filtration consumables



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