

Anti-Scale Conditioning Systems

Conditioned water makes a difference you can see, feel and taste.



New **Green** Technology

- No Salt
- No Electricity
- No Backwash
- No Drain
- Low Maintenance
- Easy Install
- Eco-friendly

SP3 RESIN TANK Anti-Scale Media

Technologically advanced Filtersorb SP3 Saltless Anti-Scale Media is an innovative solution that prevents all of the negative effects of calcium and magnesium, while allowing the positive health benefits to remain.

The system is maintenance free, chemical free, salt free and does not require costly regeneration and backwashing.

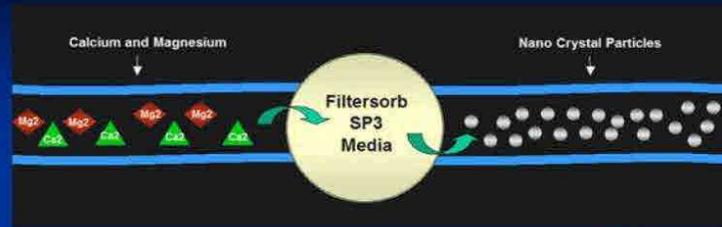
FILTRONX



FILTRATION SYSTEM Sediment + Carbon

The filtration component of the SP3 system provides protection for the catalytic media as well as improves taste through every tap in the home by removing chlorine and other chemicals.

The Filtersorb SP3 De-scaling Process



Phase 1: Filtersorb SP3 catalytic media accelerates the transformation of the calcium and magnesium minerals out of the water solution into harmless "Nano" sized Crystal particles.

Phase 2: As the calcium crystals flow through the piping systems and equipment, the nano structure of the crystals dissolve additional calcium removing any preexisting calcium deposits.

Phase 3: After the old calcium deposits are removed the Filtersorb SP3 forms a smooth 3 to 5 micron thick corrosion prevention layer on existing pipes and equipment.

Residential Applications:

- Drinking Water
- Home Appliances
- Laundry Machines
- RO Membranes
- Swamp Coolers
- Boiler, Water Heater
- Dish Washers
- Ice Makers
- Coffee Makers
- Air Conditioners

Commercial Applications:

- RO pre-treatment
- Manufacturing
- Breweries
- Processing Plants
- Restaurants
- Hospital/Medical
- Hotels, Cruise lines
- Car/Truck/Bus wash
- Cooling Towers
- Steam Presses



Filtration systems are highly efficient. They improve taste, odor, color, and feel of water. A variety of different filter medias exist to target an application's specific contaminants. Let us custom design a filter system to your water needs today.

Water makes up a significant part of the human body. Our health can be directly connected to water in many ways. City water quality can fluctuate. Filter systems offer additional security and peace of mind.

Save money by eliminating those trips to the water store. Stop lifting heavy bottles. Be more environmentally-friendly by creating less plastic waste.

Filtersorb SP3 Saltless Anti-Scale Media Development

Our environmental safe Filtersorb SP3 saltless anti-scale media was initially developed by Watch Water Germany to serve as an alternative to commercial softeners used for scale control. Because commercial softeners discharge sodium into waste water supplies during the regeneration process, many of our European companies were faced with expensive discharge government permits and needed a cost effective alternative.

Another reason for the development of the Filtersorb SP saltless anti-scale media was to address the heightened concern by European health and research agencies that through the usage of residential softeners in second and third world countries, calcium and magnesium were being removed from home water supplies and causing serious health problems due to the lack of these vital minerals and the excess of sodium in the drinking water.

The Filtersorb SP3 saltless anti-scale media developed by CWG Group addresses both of these concerns and is a major breakthrough in the anti-scaling water treatment market for both commercial and residential applications and has proven to be a successful alternative to commercial and residential softeners.

A variety of system options available. Call for details.

Watts E-Treat® Water Conditioning Systems Using No-Salt Technology

Good for the environment. Good for the planet. Good for you!

Conventional water softeners are generally considered the most effective and practical way to reduce water hardness and prevent scale formation in pipes and plumbing fixtures. Water softeners, however, require salt to regenerate, and

they must be backwashed periodically to rinse and refresh the ion exchange resin. Brine water discharge and the need to conserve water have challenged this conventional technology, and new methods to provide scale-free water are being considered.

Introducing The Environmentally Friendly Solution To Water Quality Improvement Problems!



Model # ETREATWCS



NO
SALT!

NO
WASTED
WATER!

NO
SCALE!*

NO
CHLORINE!

NO
ELECTRICITY!

With E-Treat® water conditioning systems, there's no salt, no backwash, no scale, no chlorine and no electricity!

Here's how it works:

Step #1 (Main Tank)

Water enters the system and flows down through a two cubic foot bed of coconut shell activated carbon. This initial water treatment process improves water quality by reducing bad tastes, foul odors, chlorine and organic substances through adsorption.

Step #2 (Inner Tank & Contact Chamber)

During this process, water flows upward through the inner tank where treatment for scale prevention is provided using our highly effective, anti-scale media. This unique material transforms calcium *ions* into Calcium *crystals*, which are stable and cannot attach to pipes, surfaces, hardware or heat exchanger components. The crystals are so small they are easily rinsed away by the water flow!

With E-Treat®, there is no scale on plumbing fixtures, no costly repairs to hot water heaters due to scale, no salt, no brine tank and no electrical control valve. The installation is easy because only a simple "in and out" valve is required.

* Performance testing proves E-Treat® anti-scale systems virtually eliminate new scale formation and aids in the removal of existing scale. Results may vary, however, and performance is based on water hardness levels, flow rate and other factors.



Calcium scale in pipes and plumbing equipment results in high energy costs and may lead to expensive repairs to appliances, such as hot water heaters, ice machines, coffee makers and dishwashers. Scale can also be a source for bacteria to grow, which may become a health concern in drinking water applications.

On the other hand, Calcium is important to human health, and supplements are recommended if Calcium is reduced or totally void in one's diet.



Anti-Scale Media



Installation

E-Treat® water conditioning systems are typically installed where water enters the house for whole house water treatment. Pipe connections are 1".

Media And Carbon Replacement

E-Treat® water conditioning systems with anti-scale media are designed to provide whole house water conditioning for up to five years, based on hardness and chlorine levels before the anti-scale media must be replaced.

We recommend replacement of the activated carbon every two years, for optimum performance. A dome hole is provided for this extraction.

Our trained water quality improvement dealer in your area can complete the media and carbon replacement procedure.

Specifications (Model # ETREATWCS)

Maximum flow rate	12 gallons per minute
Maximum temperature	120°F (60°C)
Minimum temperature	40°F (4°C)
Maximum hardness	Sizing is based on maximum hardness of 25 grains per gallon.
pH range	6 to 9
Pressure	Maximum pressure is 125 psi; 8.75 bar (minimum pressure is 20 psi 1.4 bar).
Tank sizes	Outer tank is 13" x 65". Inner tank is 9" x 30" (outer tank is black).
Flow pattern	In the outer tank the flow is downward. In the inner tank the flow is up-flow.
Certification	Anti-scale media is NSF Standard 61 Certified for material safety.
By-Pass Valve	By-pass valve is included.
Capacity	System comes with 2 cu. ft. of coconut shell carbon and 4 liters of anti-scale media.

NOTE: Do not use where water is microbiologically unsafe or with water of unknown quality without adequate disinfection before or after the unit. System must be maintained according to manufacturer's instructions. Pre-treatment for sediment, Iron, Hydrogen Sulfide, Manganese, hydrocarbons and copper may be required depending on conditions. Install systems in new homes with copper pipe after six weeks of water use.



Scale and Hardness Protection with
Template Assisted Crystallization.

The Superior Water Softener Alternative.

Introduction

For years, water softeners have been virtually the only means of treating hard water. Other alternatives including magnets, electromagnets, RF devices and catalysts have been available but haven't proved to be effective.

Technology Breakthrough

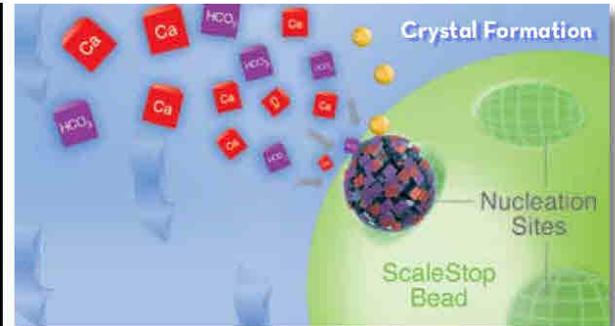
A recent development, Template Assisted Crystallization (TAC) has produced the first effective chemical-free scale prevention method. Based on TAC technology, **nextScaleStop** converts hardness minerals into harmless, inactive microscopic crystals.

Tested and Proven

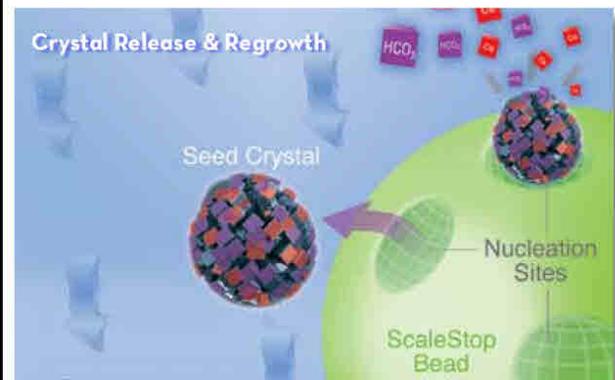
Tested by an independent laboratory against the international protocol for scale prevention, **nextScaleStop** achieved a 99.6% effectiveness rating - the only technology to do so and far more effective than any other water softener alternative. Proven in over 6 years of successful use in homes and businesses.

Benefits

- Protection from scale throughout the house.
- No salt, chemicals or electricity required.
- Long lasting media-not consumed by the reactions.
- Preserves beneficial mineral content.
- No slimy soft-water feel.



Atomic sized nucleation sites on the surface of small polymer beads convert dissolved hardness into microscopic crystals.



Once the crystals grow to a certain size they are released from the bead. The crystals in solution keep the hardness out of the water so that it can't form scale or interfere with soap.



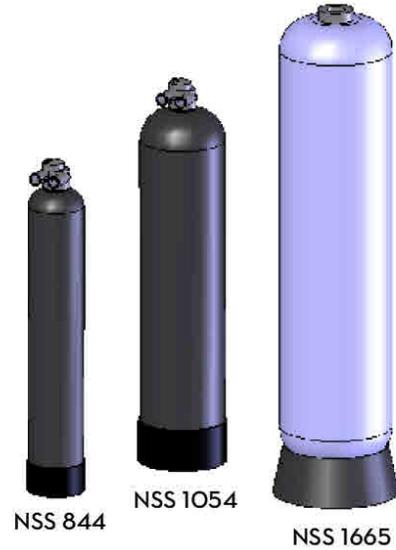
Crystal photo taken with a Scanning Electron Microscope.

next-ScaleStop Systems

System	Maximum Service Flow
NSS 744R	10 gpm
NSS 844R	12 gpm
NSS 948R	16 gpm
NSS 1054R	20 gpm
NSS 1252R	30 gpm
NSS 1465R	50 gpm
NSS 1665R	75 gpm

Water Chemistry & Limitations

- pH 6.5 to 8.5
- Hardness, max. 75 grains (1300 ppm CaCO₃)
- Temperature 41 to 140° F (5-60° C)
- Chlorine <3ppm
- Iron 0.3 mg/l
- Manganese 0.05 mg/l
- Copper 1.3 mg/l
- Oil & H₂S Remove prior to **next-ScaleStop**.
- Polyphosphates Remove prior to **next-ScaleStop**.



Regulatory Approvals



nextScaleStop is tested and certified by the Water Quality Association to NSF/ANSI Standard 61.

nextTM filtration technologies inc.

Distributed By:

FILTERSORB SP3 ANTI-SCALE MEDIA

The "Green" Water Conditioning Process

CWG USA understands the importance of being environmentally responsible and is committed to developing water treatment processes that will help solve environmental challenges. The Filtersorb SP3 water conditioning system is a maintenance free, chemical free, salt free "green" water conditioning process. Unlike other conditioners, Filtersorb SP3 does not release harmful minerals or chemicals into our water system, does not waste excessive amounts of water, reduces energy consumption, and preserves beneficial minerals.

- Does not release harmful minerals or chemicals into our water system
- Does not waste excessive amounts of water
- Reduces energy consumption
- Preserves beneficial minerals

How the Filtersorb SP3 System Works

The "classical" water-softening unit operates on the basis of ion exchange; exchanging calcium and magnesium ions in water with an equivalent amount of sodium (Salt). When a water softener is used, the result is not only soft water, but also increased sodium content in the water supply. Additionally, these softening units require water for backwashing and common Brine water "salt water" for regeneration.



Filtersorb SP3 is a catalytic media that prevents the formation of scale and eliminates existing scale by accelerating the transformation of the calcium and magnesium minerals into harmless "Nano" crystal particles. As these nano crystal particles flow through plumbing systems, they do not attach to pipes, fixtures, valves, or heating elements; the result is 99% scale prevention without adding harmful minerals or chemicals into our environment.

Contact our office to learn more about CWG Filtersorb SP3 and how you can benefit from this revolutionary "green" advanced water conditioner.