

## SSoft Redox Benefits

- Chemical Free Scale Prevention
- Low Maintenance, No Salt bags,
- No Wastewater, completely self contained
- Retain beneficial minerals for health
- Improves efficiency of water using appliances
- Enhanced water for plants or gardens
- Enhance water for wastewater treatment systems



The Natural choice for water conditioning

- Low maintenance
- No chemicals
- Small profile



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## SSoft Redox



The

'Natural Choice'





# SSoft Redox - upflow conditioning in Stainless Steel vessel with filtration

## SSoft Redox is incorporates the latest in Physical Water Treatment technology.



The end result is a proven system that works as an alternative to ion exchange water softeners when combined with EMF conditioners such as Vulcan, Dreamwater or Sanitron

### Features

#### Stage #1: Redox media made of zinc/copper:

- removes 99% heavy metals
- Neutralizes chlorine
- Removes iron and Sulfur
- Transforms dissolved hardness minerals into undissolved micro-particles.
- Acts as a bacteriostat

#### Stage #2: Scale Stop media in upflow

- Polymer spheres causing Template Assisted Crystallization (TAC)
- Transforms dissolved CaCO<sub>3</sub> to a crystalline form thus isolating hardness from the water chemistry and anything the water contacts
- **Extremely efficient - only 5 seconds** contact time regardless of hardness level. Conventional softeners require 90 seconds
- Media not consumed by reactions

#### Stage #3: Big Blue Bag Vessel x 1 micron nominal filter

- Lasts 10 times compared to cartridge filters
- Inexpensive to replace

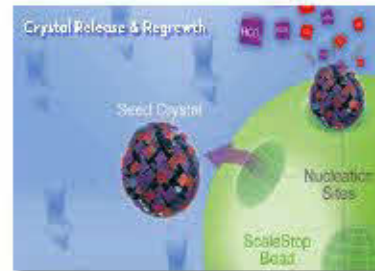
#### Stage #4: Big Blue Housing with Dual Gradient 25-1 micron filtration cartridge

### Redox Media (specific zinc/copper)

- Redox is short for oxidation-reduction, which is a chemical reaction where electrons are transferred between molecules.
- This can precipitate oxidation or other chemical reactions. In some cases, such as free chlorine, this transfer results in the formation of benign substances, such as chloride
- copper, lead, mercury, and other heavy metals react to the media's surface effectively being removed from the water supply. **Redox media** effectively removes 98% of heavy metals
- **Redox media's** control microorganisms and reduce lime scale.
- **Iron Redox** turns iron and sulfur into filterable solids

### Scale Stop

**Template Assisted Crystallization (TAC)** in essence causes CaCO<sub>3</sub> (hardness) upon contact with Scale Stop media, to change into avalanche of sub-microscopic hardness crystals that form on the bead surfaces that then break



away, creating **seed crystals** in the flowing water. The now **free-floating seed hardness crystals** continue to **transform hardness** into additional dissolved hardness crystals which do not react to sur-

faces or create scale.

This crystallization of the hardness minerals means that they are now unavailable to build scale downstream on the surfaces of just about anything subject to scaling, even when the conditions would otherwise favor it. They are, to put it simply, otherwise occupied.

One of the interesting but fundamental side benefits of this TAC process is the release of carbon dioxide into solution.

The CO<sub>2</sub> then reacts with the water to form carbonic acid, The benefit is that the equilibrium of the water chemistry shifts to a state that slightly favors dissolving existing scale. The extent of this depends on the overall water chemistry. This benefit is greatly enhanced when SSoft Redox is combined with effective EMF conditioners like the Vulcan or Dreamwater.

### Applications

Alternative to water softener, Dechlorination, Heavy Metal Removal, Descaler, Whole House

### Foodservice

Coffee & tea brewers, Boiler based steamers, Steam tables, Espresso Machines, Mist Cooling Systems

### Residential

Water Heater, Dishwasher, Laundry, Bath & Shower

### Commercial/Industrial

Car Washes, Evaporative Cooling, Hotels, Boilers

### Maintenance

Yearly maintenance to change filters and top up Redox media

**No chemicals—no water wastage**