



**CALCIUM
DISSOLVER & BUILD-UP PREVENTER**



Calcium Deposit



3-months with CalcAway



6-months with CalcAway

- * **Removes Mineral Deposits**
- * **Stops Staining and Pitting**
- * **Improves Water Clarity**
- * **Water Feel Softer and Cleaner**
- * **Improves Soap Efficiency**
- * **Improves Water Quality**
- * **Works with All Fresh Water**
- * **Laundry is Softer**
- * **Reduces Water Spotting**
- * **Maintenance Free**

Guaranteed to Last 1-Full Year

Water naturally has many minerals. These minerals crystallize and form on the surfaces of plumbing, fixtures, heaters and water tanks.

This process is increased with the addition of calcium in existing water. CalcAway physically changes the molecular structure of water with a “**electromagnetic**” field producing “ionized” water molecules.

Ionized water has greater solvency to wash and clean existing plumbing. Ionized water is cleaner, feels softer, smoother and silky to the touch.

Ionization to condition water has been available for over 40-years throughout Europe and Asia. During the last 20-years, many agencies and companies have adopted this technology including the Federal Trade Commission; (F.T.C.); US Department of Energy, (D.O.E.); US Department of Commerce, (D.O.C.); American Chemistry Society; American Society of Heating and Air Conditioning Engineers; Amoco; Standard Oil and many more.

One of the most common choices of conditioning water has been with salt softeners through the use of chemicals. Salt-systems have been questioned in recent years due to their high levels of sodium deposits accumulated in the water supply. Excessive salt consumption has been linked to high blood pressure and circulatory problems. Throughout the United States, the use of salt-systems is becoming restricted due to back-washing salt brine.

CalcAway is an inexpensive and dependable solution to excessive **CALCIUM** buildup.



**AquaSmarter & CalcAway
Solutions for a Healthier World**

Tel/Fax: (506) 2665-0896 Mobile: (506) 8720-7771 / (506) 8322-7483

www.CalcAway.ws / operations@AquaSmarter.com

“An informed shopper prefers AquaSmarter”

Calcium is the #1 cause of Gall Bladder (kidney) Stones.
<http://www.urologychannel.com/kidneystones/index.shtml>



CalcAway is not designed to remove Calcium in the water but to “Prevent it from accumulating” in the intestinal track which forms small pebbles that become too large to pass through the urinary track. The Hospitals in Costa Rica are treating an epidemic number of Patients suffering from this condition.

This information describes how by "charging" water that contains excessive Calcium, will not allow the Calcium Molecule to stick or accumulate in the digestive and urinary track.

You can find supportive information at: <http://www.urologychannel.com/kidneystones/index.shtml>
Calcium Stones: Approximately 85% of stones are composed predominantly of calcium compounds. The most common cause of calcium stone production is excess calcium in the urine (hypercalciuria). Excess calcium is normally removed from the blood by the kidneys and excreted in the urine. In hypercalciuria, excess calcium builds up in the kidneys and urine, where it combines with other waste products to form stones. Low levels of citrate, high levels of oxalate and uric acid, and inadequate urinary volume may also cause calcium stone formation.

Some Facts on the Effects of Drinking Magnetized Water:

<http://www.doctorshealthsupply.com/Newsletters/Magnetics-April.htm>

Used in Russian clinics to relieve pain, reduce swelling and for the removal and prevention of kidney stones.

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I hope this information has been Informative and Helpful.



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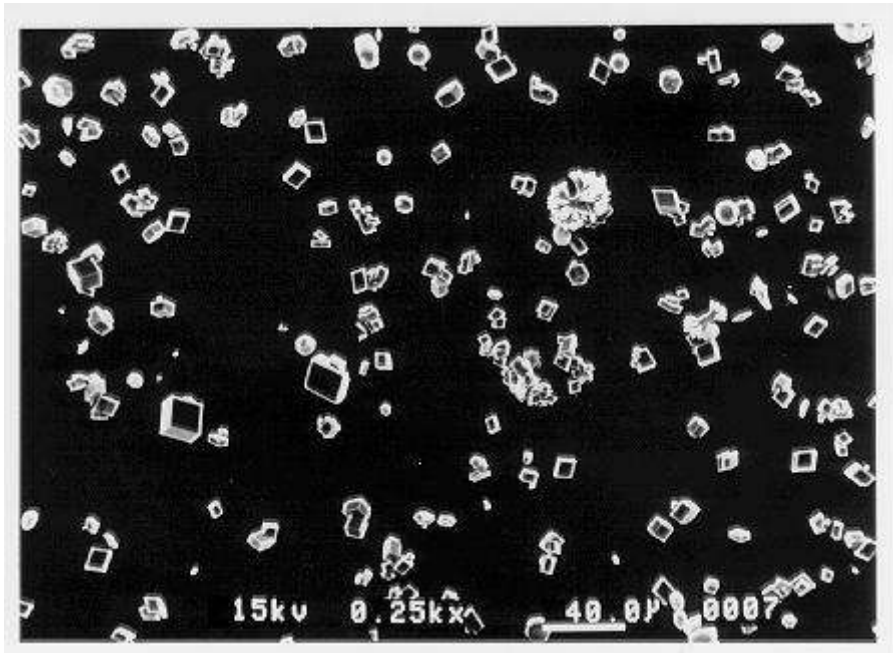
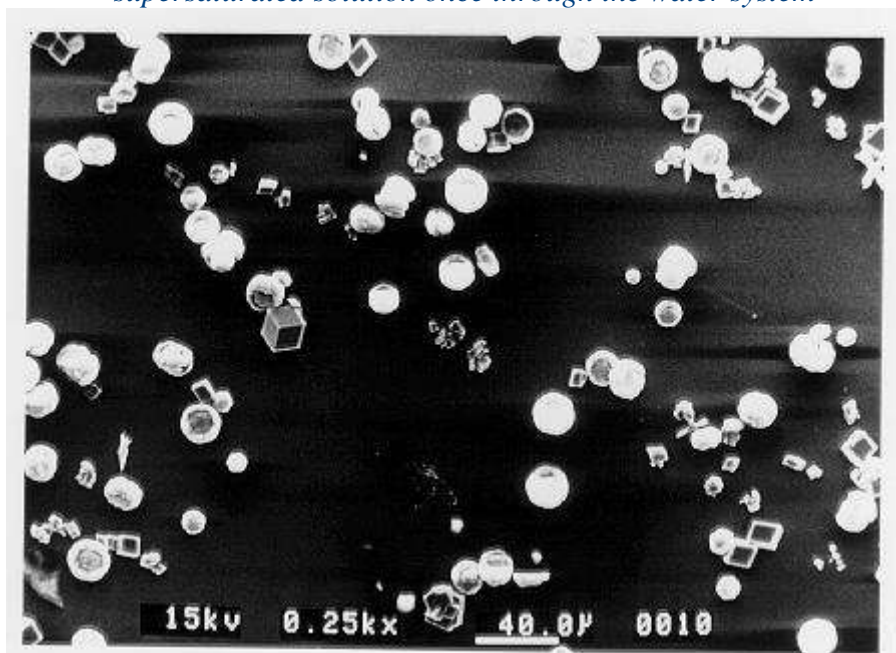


Figure 1 Sediment CaCO₃ scale produced from high-purity supersaturated solution once through the water system



*Figure 2 Sediment scale formed from the same solution after placing the flow path into the CalcAway field.
These effects were apparent with a flow velocity through the field.*

DESCALING....

Approximately 85% of the United States experiences hard water. Water hardness is a common quality of water which contains dissolved compounds of calcium and magnesium and, sometimes, other divalent and trivalent metallic elements. Hardness prevents soap from lathering by causing the development of an insoluble curd precipitate in the water. Another problem associated with hard water is scale.



What is Scale?

Scale is a coating or precipitate deposited on surfaces that are in contact with hard water. Water that contains carbonates or bicarbonates of calcium or magnesium are especially likely to cause scale. When water is heated or evaporation takes place, scale minerals precipitate layers of rocklike deposits inside pipes, water heaters, equipment, and on fixtures and glassware. While most common scale is a result of calcium carbonate, other combinations of ions commonly found in water offer a variety of scale.

Common Evidence of Scale

Scale is most visually evident as hard white to off white deposits which build-up in faucets, shower heads and drains. Scale leaves deposits on dishes, glassware, sinks, countertops and on vehicles that were just washed. Most scale formations are hard and very difficult to clean. Visual references also include fixtures such as toilets, bath tubs, showers and appliances like coffee and ice makers. Swimming pools and spas can experience scale build up on tile and pump equipment. Cooling towers have tremendous scale problems that cause that industry alone a billion dollars a year to remove. Evaporative coolers, boilers, car washes, irrigation systems, processing equipment, paper pulp mills all experience scale problems. Unfortunately, because scale forms a "coating" it can significantly effect thermo transfer and reduce the flow of fluids. The increase of fuel cost due to scale build-up is astronomical.

COMBATING HARD WATER AND ITS EFFECTS

There are four basic technologies available to control the effects of hard water.

Ion-Exchange - Water softening by ion-exchange removes calcium and magnesium ions and replaces them, usually, with salt. Ion-exchange systems require a tank filled with exchange resins, a mechanism to regenerate the resins and a tank to store salt brine used for regeneration. Ion-exchange water softeners combat the effects of hard water by removing the calcium and magnesium nutrients.

Phosphates - Polyphosphates are used as a sequestering agent to control iron and hardness, and as coating agents to control corrosion by formation of a thin passive film on metal surfaces. Polyphosphate crystals are placed inside a filter housing; as water flows through the filter the polyphosphate crystals slowly dissolve and are thereby introduced into the water stream. In essence, polyphosphates bind calcium and magnesium in solution where they are less likely to precipitate and form calcite. Phosphates are preferred food for bacteria which offer greater potential for bacteria growth. Polyphosphate crystals must be regularly replaced as they dissolve into solution.

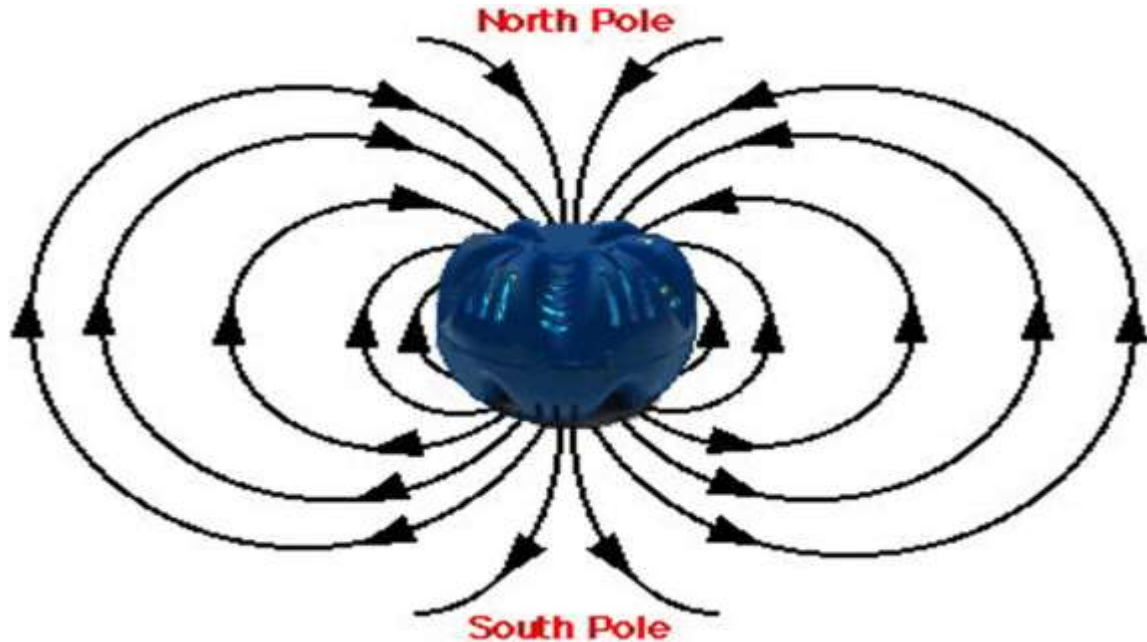
Hydro-Magnetic Field - Of all the products available today in the water industry, none is more controversial than that of magnetic devices. The fact is, a hydro magnetic field uses a fixed energy field which, under controlled conditions, effect the crystal structure of calcium. Controlled conditions is the key factor to the effectiveness of the hydro magnetic field. Pipe size, flow rates and levels of hardness may effect the hydro magnetic fields ability to perform if not properly sized.

Historically, the performance of a hydro magnetic field have been ultimately reliant on controlled conditions, such as flow rate; their energy levels and power fields are fixed. Unfortunately, improper sizing has happened more than once, and when coupled with false claims from the manufacturers and dealers, bad word of mouth spreads. The truth is however, a hydro magnetic field has been used widely, and successfully, in the Soviet states and parts of Europe for many decades both in residential applications and in industrial/marine applications. Many manufacturers claim to have thousands of satisfied customers.

Electronic Conditioning - Electronic water conditioning is a relatively new technology which evolved from the use of magnetic fields in water improvement. The advent of these systems introduce both variable energy and frequency changes. Electronic treatment is based on the principal of creating an oscillating field of energy with the use of low frequency radio or square waves. As water passes through a

pipe delivering variable frequencies and energy levels, a physical change in the preferred crystal structure of calcium and magnesium occurs changing the crystalline structure of aragonite rather than the random crystalline structure of calcite. Aragonite is a form of calcite crystallizing that stays in solution and does not adhere to surfaces. This action stops any further build-up of scale and because the solubility of the water is increased, existing scale is taken back into the water and gradually removed. Generally, the hydro magnetic field is less than 8000gauss.

Hydro magnetic field's precise energy and frequency fields are required in order for the electronic water conditioners to work.



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