

**Cooling Towers - ScaleBreck** will control lime scale deposits on the tower fill, sump tank, spray headers, valves, pumps, and pipes.

**ScaleBreck** will control lime scale deposits on heat exchanger tubes, heat exchanger surfaces, heating coils, heating tanks, boiler fire tubes, condensation tank, pumps, pipes and valves.

With the increased cycles of concentration, the savings in water usage will be substantial.

**Prevents Limescale Formation - ScaleBreck** will modify the lime scaleforming ions so they do not adhere teach other or to surfaces anywhere in the cooling tower/HVAC system.

**Reduces Maintenance & Downtime - ScaleBreck** significantly reduces overall cooling tower maintenance and downtime. Adding chemicals, balancing water chemistry and cleaning shutdown is greatly reduced.

**Chemical Reduction - ScaleBreck** significantly reduces the need to use chemicals for the prevention of corrosion and limescale in the cooling tower/HVAC system.

#### Eliminates need for a water softener

SCALE BRECK

**ELECTRONIC WATER** 

CONDITIONER

**Reduces Corrosion - ScaleBreck** allows for increased cycles of concentration which naturally and gently elevates the pH of the recirculating water, thereby rendering the water less corrosive. **ScaleBreck** controls scaling potentials, which lessens troublesome corrosive cell formations of calcium, iron deposits on the metal surfaces.

**Controls Biofilm - ScaleBreck** helps control biofilm formation where bacteria can actively attack all metal surfaces.

**Increases Cycles of Concentration** - By allowing the conductivity levels to go much higher, you will be able raise the cycles of concentration significantly.

**Controls Algae & Bacteria - ScaleBreck** will help control algae and bacteria by eliminating their breeding ground – limescale deposits. The modified calcium crystals and higher COC help to retard algae and biofilm formations.

**Huge Energy Savings** - By removing the lime scale formation, huge energy savings are realized. Just a <sup>1</sup>/<sub>4</sub>"buildup of limescale can increase energy consumption by 40%.

#### **Improves Efficiency**

Extends life of the cooling tower/HVAC equipment

# INSTALL SCALEBRECK ELECTRONIC WATER CONDITIONER

AC APPLICATIONS



# SCALE BRECK ELECTRONIC WATER CONDITIONER





Incoming water containing calcium and other mineral ions in solution

Modulated signal from converter at  $only \pm 12$  Volts DC

Conditioned water can absorb more calcium and dissolve existing scale

## **PRODUCT SPECIFICATIONS**

#### Components

Each model comprises of a Scale Breck unit, signal cable, ties, plugs and clear instructions.

### Materials

Electronics hermetically sealed. Enclosures for indoor use are made of high grade thermoplastic or fabricated as per design. Enclosures for outdoor use are made weatherproof.

### **Controls & Indicators**

All units have indicators showing correct operation, providing power applied and signal coil connected.

## Reliability

Only high quality electronic components are utilized, including a custom designed chip (IC) controlling signal generation processing. Components have a life span of over 20 years.

### Safety

The Scale Breck conforms to electrical safety standards. The electronics are sealed with resin. The output is safe to both personnel and sensitive equipment. There is no electrical contact between pipe and coil. The low output voltage is non-hazardous.

#### Power

Units can be connected to either 110 VAC or 230 VAC 50/60 Hz. Optional: Solar power or 24 Volt direct current.

NO



**NO NO** CHEMICALS MAINTENANCE

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**ONE TIME** INVESTMENT



EXCELLENT RETURNS

- NO OPEN COILS
- NO HANGING WIRES
- NO OBSTRUCTIONS TO THE FLOW
- NO PRESSURE LOSSES.

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