

## HARD WATER PROBLEMS IN WATER TREATMENT

### Reverse Osmosis

**Deposit control** - ScaleBreck will prevent lime scale formation on flanges and locking rings. Without these lime scale deposits, the filter assemblies are much easier to disassemble. Filter membranes do not form scales on the surface. The filter membranes are filled with dirt and particulate matter. The extended life of the membranes is due to the lack of scale accumulation on the surface. No lime scale will form around the edges of the filter assemblies and short circuiting of the filters is prevented.

**Membrane life** - You can expect the membrane life to be extended by as much as 40% or more.

**Permeate volume** - The time period after installation of the membranes to a noticeable decrease in the volume in permeate product is increased by several months.

### Chlorine Injection Pumps

**Pump deposits** - Pumps used to feed chlorine into the treatment stream become full of lime scale and must be cleaned. The **ScaleBreck system** - will keep the scale particles suspended in the fluid and off of the pump surfaces.

### Nitrate / Nitrite Removal

**Resin Bed** - The **ScaleBreck system** will keep calcium carbonate in solution and prevent the calcification of the resin bed. The formation of channels in the bed that lead to ineffective treatment will be eliminated, too.

**Pumps, filters, and sensors** - The **ScaleBreck system** will keep the lime scale deposits suspended in the fluid and off of the equipment surfaces.

**Downstream of removal system** - The **ScaleBreck system** will protect the discharge line free if scale caused by heavy concentrations of calcium carbonate.

### Lime / Soda Ash Treatment

**Mixing Tank** - ScaleBreck will treat the water to be mixed and keep the tank sides and propeller clean of lime scale.

**Slurry Pumps** - By installing ScaleBreck on the suction side of the pumps, it will prevent scale deposition on the pumps.

**Labor and Maintenance Savings** - The amount of money saved in labor and maintenance because of ScaleBreck will pay for the system itself in no time at all.

Your maintenance crew can be utilized elsewhere.

## INSTALL SCALEBRECK ELECTRONIC WATER CONDITIONER

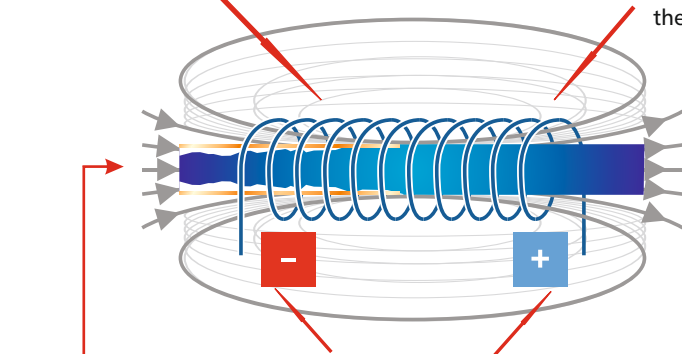


# SCALEBRECK

## ELECTRONIC WATER CONDITIONER

Single cable wrapped around pipe produces a square wave alternating at 1000 to 20000 cycle/sec

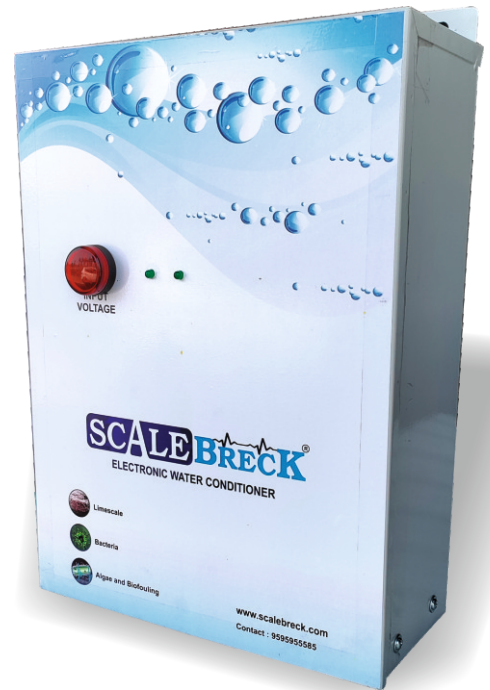
Complex modulated signal field at variable frequency - induces electrical field in the pipe which alter the hard water ions and increases their solubility



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**  
CHEMICALS



**NO**  
MAINTENANCE



**ONE TIME**  
INVESTMENT



**EXCELLENT**  
RETURNS

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

For more information contact us on 9881248812, [info@leanwayenergy.com](mailto:info@leanwayenergy.com) | [www.leanwayenergy.com](http://www.leanwayenergy.com)



**LEANWAY ENERGY PVT LTD**

3rd Floor, Prabhat House, Damle Path,  
Off Law College Road, Pune 411004.  
Maharashtra, INDIA

WE ARE SOCIAL



Agent/Distributor Address

