

HARD WATER PROBLEMS IN BEVERAGE APPLICATION

For purposes of this discussion, non-alcoholic beverages can be categorized into three main types:

1. Carbonated and fruit based drinks; 2. Tea and coffee; 3. Mineral/spring water.

The processes involved may include the mixing of various ingredients, carbonation (if appropriate) and packaging (cartons, bottles). Processing of tea and coffee includes additional processes such as heating, roasting and decaffeination. Ancillary activities may include boilers, bottle cleaning operations, wastewater treatment and blow molding of plastic bottles.

Irrigation system - Lime scale control in spray nozzles, pipes, pumps, and valves.

Reduce the need of chemicals to remove lime scale and biofilm deposits - ScaleBreck will greatly reduce the need of chemicals and agents to remove existing lime scale and biofilm deposits in waterlines and equipment. Acid scrubs are almost nonexistent.

Prolongs use of equipment - ScaleBreck will greatly prolong the life of equipment by reducing the use of chemicals and the wear and tear chemicals cause.

Reduce maintenance costs - ScaleBreck will result in considerable savings in the labor incurred in the cleaning of lime scale and replacing equipment.

Capital equipment last longer - ScaleBreck will save money in replacing misters, foggers, and costly HVAC equipment while making them perform more efficiently – resulting in considerable savings.

Removes lime scale and sludge from waterlines - ScaleBreck will remove lime scale deposits and sludge from the waterlines and prevent it from forming again.

Reduces biofilm and the breeding ground for bacterial growth - ScaleBreck will reduce biofilm by removing lime scale deposits which act as a breeding ground. Biofilm is a complex community of bacteria, fungi and algae encased in an extracellular polysaccharide and other organic contaminants attached to a surface. The chances of infection and other unhealthy situations are reduced.

Improves the performance of water cooled refrigeration equipment - ScaleBreck will allow for refrigeration equipment to work much more efficiently without scale formation.

Improves the performance of water heaters and boilers - ScaleBreck reduces lime scale formation which will increase the thermal efficiency of heaters.

Performance improvements in cooling towers, chillers, and wastewater treatment - ScaleBreck has a wide assortment of benefits in the HVAC and wastewater fields. Ask your representative for more details.

Eliminate lime scale in flow control and spray valves for cleaning and disinfecting wash - ScaleBreck improves the spray valves and flow control in cleaning and disinfecting wash.

Eliminates scale stains from stainless steel and other surfaces - ScaleBreck stops the formation of lime scale and the resulting unsightly stains.

Return on investment within months - Your investment in ScaleBreck is quickly recovered within a few months with the accumulation of the above benefits. Also, huge savings thereafter as ScaleBreck will perform for many years without the need of chemicals or maintenance.

INSTALL SCALEBRECK ELECTRONIC WATER CONDITIONER

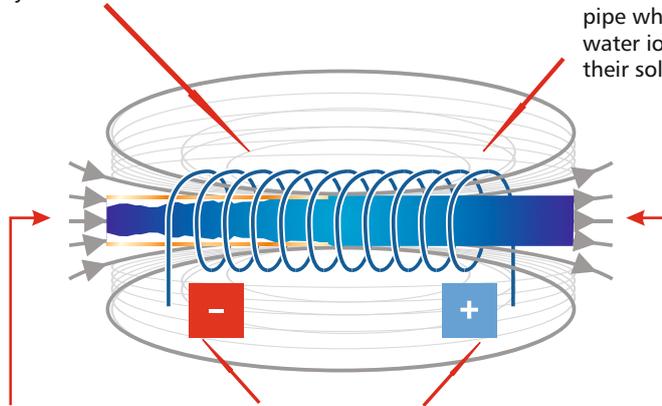


SCALE BRECK

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 ± 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.

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