



HARD WATER PROBLEMS IN SUGAR MILL

INSTALL SCALEBRECK ELECTRONIC WATER CONDITIONER

Malting process - Grain can be processed in many different ways depending on the type of raw material and the end product. Malting is a biological process which uses water to extract the maltose. The malting process involves wetting the grain and allowing germination to take place. This converts insoluble starch contained in the seed into a soluble and fermentable form (maltose). The germinated seeds are coarsely ground to produce grist from which the maltose is extracted by hot water solution. The residue is known as brewer's waste which can be sold as animal feed.

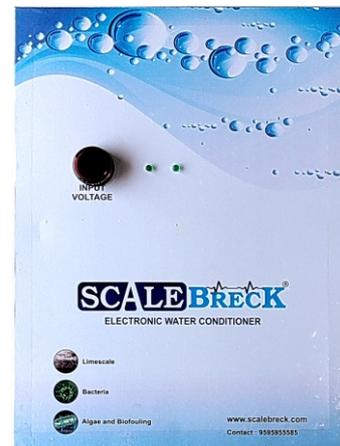
Water supply and wastewater management - Mills require water for cleaning purposes and for use in boilers. This may be obtained from municipal sources, or abstraction from rivers or boreholes. A major source of wastewater within grain mills is cleaning water. Pollution may arise from: high alkalinity, depending on the type of cleaning materials used; solvent and oils used in equipment operation; oils, fats or molasses which may be used in blended products.

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

Condensers, Chillers, Air Handlers, Hot Water Heaters and Boilers - 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.

Equipment that will benefit - Boilers, heat exchangers, rollers, transfer lines, pumps, valves, condensers and cooling towers will all save a ton of money by operating more efficiently with the ScaleBreck System.

Energy Savings - The cleanliness of the lines and equipment affects the pumping efficiency and therefore the total cost of the energy. Less energy used in the plant means more energy that can be sold for power.

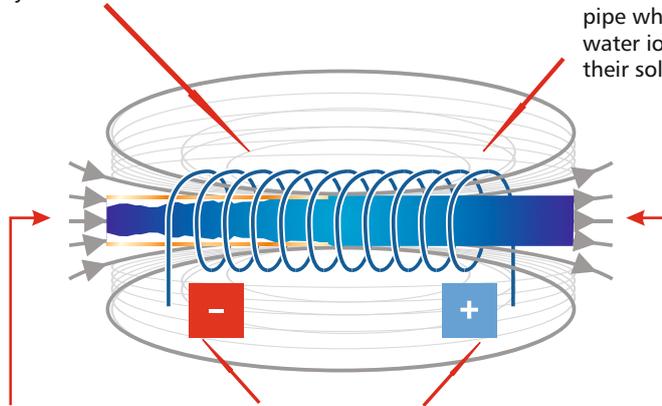


SCALE BRECK

ELECTRONIC WATER CONDITIONER

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

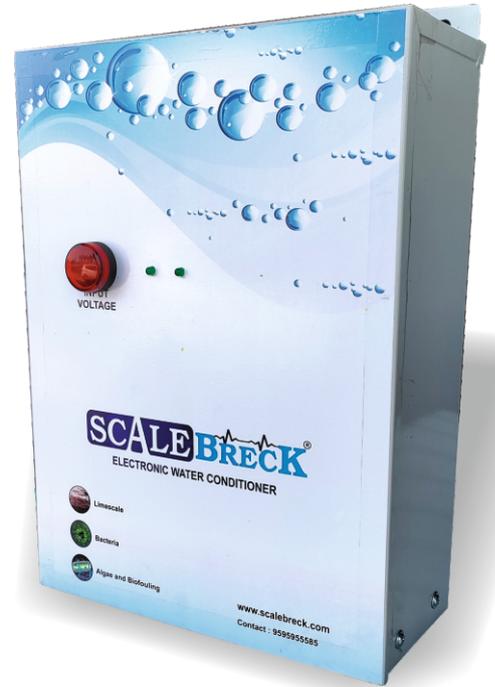
Complex modulated signal field at variable frequency - induces electrical field in the pipe which alter the hard water ions and increases their solubility



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.

For more information contact us on 9881248812, info@leanwayenergy.com | www.leanwayenergy.com



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



Agent/Distributor Address