

Beverage Bottling and Canning



Beverage Bottling and Canning Applications

The process of mixing ingredients with water to produce a finished product.

It is assumed that ingredients are simply mixed and receive little or no onsite processing. Once mixed, the drink is usually carbonated and then canned. The canning procedure is typically fully-automated and comprises the following:

Preformed and printed cans that have no lid are put onto a conveyor; the product is poured into the can, and the lid is put on and fixed in place.

- Water Use And Product Contamination Canning operations use large amounts of water. Water treatment like activated carbon filtration is used, but extra care must be exercised to make sure the treatment process does not introduce contaminants such as cleaning agents into the water. With ScaleBreck, chemical cleaning agents for storage surfaces, delivery tubes and piping and process equipment is cut down substantially.
- Wastewater Discharge – ScaleBreck keeps parts and can washing equipment working efficiently with little or no lime scale buildup and allows the detergent formula to use less detergent to do the same job. This detergent will also be more easily removed from the process and end-product.
- Wastewater from the food process may be high in sugar content and may also be impacted by food coloring formulas. Fruit juices in untreated wastewater increase the

Chemical Oxygen Demand, solids and acidity and could also contain pesticide residue. Cleaning agents such as sodium hydroxide and detergents are typically used in Clean-in-Place process or in batches. Cleaning agents discharged with wastewater are typically alkaline and contain surfactants. Due to the large volume of water treated, some systems may require the discharge of concentrated blow down. High salt content is in this wastewater stream - not safe for our environment.

- ScaleBreck will greatly reduce or eliminate the lime scale and Biofilm that build up from the water used in these processes, and reducing the opportunities for particulates from other fluids involved in the processes to further build up on.
- ScaleBreck will keep fill nozzles from clogging – lessening the occurrence of inconsistent fill, reducing spills, overfills and the need for cleaning them up as well as reducing process downtime to clear the fill nozzles.
- Energy use ScaleBreck will allow the boiler to heat water more quickly and efficiently, using less energy, requiring less time to reach proper operating conditions while using less chemicals.
- The main energy consumption on canning lines is friction caused by moving parts. ScaleBreck will lower energy using by improving their operating efficiency.



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Automotive Industry



Automotive Industry Applications

• Automotive Steel / Sheet Stock For Body Panels

The ScaleBreck system will control the lime scale deposits on the nozzles, pipes, and pumps. In addition, the ScaleBreck system will help keep the water lubricant mixture well mixed when dispersed into the water.

• Steel / Iron Foundry

The ScaleBreck system controls lime scale deposits in the cooling water for the cooling of the molds. The production rates are governed by temperature controls.

• Aluminum Foundry

Aluminum is much less tolerant of water temperature variations. The cooling process is very critical. The ScaleBreck system will control lime scale deposits in the cooling waters for the cooling of the molds. The production rates are dependent on the temperature controls.

• Machine Tool Coolants

Coolants are a mixture of lubricants and water. These lubricants can become

contaminated with bacteria and cause problems in the systems which, in turn, can result in an “off-grade” product. The calcium ions in the water can form lime scale that will clog pipes, spray nozzles, orifices, journals, passage ways, flutes, and other surfaces needing to be both cooled and lubricated. The ScaleBreck system can cut costs of man hours and tooling while keeping the quality control at a high level of performance.

• Energy Savings

With better lubricant action by using the ScaleBreck system, there will be less waste heat to be dissipated and less lime scale on the heat exchange surfaces. This will result in lower coolant pumping costs.

• Environmental Issues

Environmental issues and the “going green” movement in the world today is more important of an issue that ever before. ScaleBreck is the ideal environmental product while saving your plant a ton of money at the same time.



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Aluminum Industry



Aluminum Industry

- **Wastewater Transfer Lines**

ScaleBreck will control lime scale deposits in the pipelines.

- **Cooling Process**

ScaleBreck will control lime scale deposits in cooling tower and in cooling water transfer pipes.

- **Dust Control & Electrostatic precipitators**

ScaleBreck will control lime scale deposits on precipitator plates and water nozzles.

- **Rolling Plants**

Cooling water & Flush Impurities - ScaleBreck will allow for the removal of lime scale deposits, Biofilm, and bacteria control in pipelines and roller channels.

- **Rolling Stock**

ScaleBreck will control lime scale deposits in the cooling systems and radiators of trucks, locomotives and generators.

- **Equipment affected by lime scale deposits**

ScaleBreck will control lime scale deposits in boilers, heat exchangers, rollers, transfer lines, pumps, valves, rollers, condensers and cooling towers.



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Beer and Wine Manufacturing



Beer and Wine Manufacturing Applications

• Water for Cleaning and Sanitizing

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

Reduce the need of chemicals to remove lime scale and biofilm deposits

• 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 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

• Improves the performance of water cooled refrigeration equipment to work much more efficiently without scale formation.

• Improves the performance of water heaters and boilers by reducing lime scale formation which will increase the thermal efficiency of heaters.

Performance improvements in cooling towers, chillers, wastewater treatment

Eliminate lime scale in flow control and spray valves for cleaning and disinfecting wash

Eliminates scale stains from stainless steel and other surfaces

Return on investment within months



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Chemical Industry



Chemical Industry

Indian industry spends crores of rupees each year to control and remove limescale build-up in industrial spray driers, reactors, pumps, heat exchangers, mixers, blenders, chemical sewers, scales, sensors, valves, coaters, drumming liners, lagoons, fractionators, stills, evaporative coolers, boilers, chillers, and other water-fed equipment.

The problems limescale formation can cause are:

- Reduced efficiency of heat exchangers
- Accelerated stress fatiguing of metal
- Increased flow resistance of circuits
- Accelerated corrosion

• Chemical Reduction

ScaleBreck can significantly reduce the need to use chemicals for the prevention of corrosion and scale. No more handling storage of hazardous chemicals.

• Reduces Corrosion

ScaleBreck allows for increased cycles of concentration which naturally and gently elevates the pH of the re-circulating 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.

• Improves Efficiency

ScaleBreck keeps heat transfer surfaces free from scale allowing systems to operate under optimal design conditions.

• Prevents Scale Accumulation

ScaleBreck will modify the scale-forming ions so they do not adhere to each other, the pipe walls, tubes, jets and heat transfer surfaces.

• Reduces Maintenance and Downtime

ScaleBreck will significantly reduce overall maintenance and downtime. Adding chemicals, balancing water chemistry and cleaning shutdowns will be greatly reduced.

• Controls Algae and Bacteria

ScaleBreck helps control algae and bacteria by eliminating their breeding ground limescale deposits. The modified calcium crystals and higher cycles of concentration help to retard algae and biofilm formations.

• Huge Energy Savings

The primary energy savings are a result of a decrease in energy consumption in heating or cooling applications. These savings are associated with the removal of scale formation. Just a 1/4" of scale buildup can increase energy consumption 40%.

• Removes Existing Scale

Any existing scale within the system is removed within weeks and never returns. Contact us for more information on how we can prove this to you when ScaleBreck is installed.

• Extends Life of Capital Equipment

ScaleBreck will extend equipment life dramatically, maximizing the return on capital investment.

• Decrease Operating Costs

ScaleBreck allows you to significantly lower your cost of operation by using less chemicals and less water, as well as reducing labor costs.

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Fruit and Vegetable Processing



Fruit and Vegetable Processing

Process and Potable Water

Sources of process and potable water need treatment many times before and during processing in order to avoid the effects of colloid and particulate buildup on the process equipment and throughout the piping and fluid delivery systems.

Large volumes of water are needed for washing raw materials, factory cleaning purposes, and in the transport of material within the factory. Pollutants in wastewater include detergents, pesticides, suspended solids, dissolved solids, nutrients and microbes. Seasonality of production can place heavy demands on treatment/disposal systems during the peak seasons.

ScaleBreck can allow for reduced use of detergents for cleaning and make other liquid formulas used in processing work more efficiently by reducing the amounts needed for their purposes. Our product will also ensure reduced maintenance needs throughout the process and allow for the highest quality end-product possible.

Processing and Post Processing

ScaleBreck will keep particulates in suspension, flowing through and out of the process system, instead of adhering to piping and equipment, which provides a habitat for Biofilm, bacteria and odor. This causes equipment degradation and shortened lifecycle. This may be an issue with health regulation compliances.

Refrigerants

Fruit and vegetable processing plants have large cold storage facilities. The release of ammonia into the atmosphere, due to leaks into the atmosphere is a health and safety concern. ScaleBreck will help maintain plumbing, piping, cooling, heat exchangers and all HVAC systems to work efficiently. This will avoid bio corrosive conditions which will lead to leaking.

Storage

ScaleBreck will help reduce the impact of particulate buildup on these storage surfaces, providing control in re-circulating equipment, clean-in-place (CIP) equipment, and tank cleaning equipment, storage tanks, feed lines, pumps and valves.



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Glass Finishing Applications



Glass Finishing Applications

Flat glass production and other types of glass production

Flat glass is manufactured by melting sand together with other inorganic ingredients and then forming the molten material into a flat sheet. The most common type of flat glass that is produced uses a soda-lime method with the main ingredient being silica and other constituents including soda ash, limestone, dolomite and cullet, or broken glass recycled in the process. The manufacturing steps include batching, or the mixture of raw materials; melting, forming; annealing (in order to remove internal stresses); grinding and polishing (to obtain flat and parallel surface); washing and cooling.

By using the ScaleBreck system, you can remove silica, lime, metals, oils, acids, abrasives and pollutants used in the production and finishing processes much easier. There will be an enhanced end-product quality, reduced production costs, as well as protection of your process equipment investment. Additional filtration systems will aid further in the management of the wastewater stream and effluent discharge issues.

Water supply and wastewater management

Sources of process and potable water - municipal, abstraction wells, boreholes (the quality of water is important and thus pretreatment may be required depending upon initial quality and intended use), large volumes of water needed for cooling and production purposes.

Main wastewater sources from glass finishing processes - washing, quenching, grinding, polishing, direct contact with glass. Some processes may include machine cutting, alkali washing, acid polishing, and acid etching.

Major pollutants of concern: suspended solids, oil, pH, BOD5, total phosphorus, temperature, fluorides and lead. Main wastewater sources from glass wool production: heating and curing.

Colored glass production may produce wastewater streams contaminated with heavy metals, i.e. vanadium, chromium and barium/lead, etc.

The ScaleBreck system can solve these problems, enhance the production process, save natural resources and improve your bottom line.



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Casting and Machining



Casting and Machining

• Aluminum foundry

Of the metals, aluminum is less tolerant of water temperature variations. Therefore, cooling is most critical. The **ScaleBreck** system controls deposit in the cooling waters for the cooling of the molds. Production rates are dependent upon temperature controls.

• Aluminum machining

The ScaleBreck system will extend the tooling life and help control the difficult machining tasks.

• Sheet Stock

The ScaleBreck system will control lime scale deposits on the nozzles, pipes and pumps. In addition, our system will keep the substance well mixed with the lubricant dispersed in the water.

• Steel / Iron foundry

The ScaleBreck system controls lime scale deposits in the cooling waters for the cooling of the molds. Production rates are dependent by temperature controls.

• Machine shops

The ScaleBreck system will descale and keep it removed while extending the service life of the tooling in all these processes.

• Machine tool coolants

Coolants are a mixture of lubricants and water. These lubricants can become contaminated with bacteria and will cause problems in the systems - which in turn can cause an "off-grade" product. Lime scale deposits will clog pipes, spray nozzles, orifices, passage ways, journals, flutes and other surfaces that need to be lubricated and cooled. The ScaleBreck system will control this.

• Energy savings

There will be a better lubricant action with the ScaleBreck system. This will result in less waste heat to be dissipated, and less lime scale formation on heat exchange surfaces will result in lower coolant pumping costs.



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Irrigation Applications



Irrigation Applications

Main Benefits

- Dissolves and removes existing limescale
- Prevents new limescale from forming in irrigation systems
- Reduces corrosion
- Controls algae & bacteria levels

Environmental and Financial Benefits

- Cuts down on usage of electricity
- Saves water
- Decreases or eliminates chemical usage
- Less wear and tear on pumps and other equipment
- Lowers the need for chemical safety precautions, storage and disposal
- Improves efficiency of machinery and appliances

Additional Benefits

- Non-intrusive and easy to install - no plumbing required
- Never requires maintenance
- Operates 24/7 with minimal power usage

Specific Agricultural Benefits

- Keeps spray nozzles, pipes, misting heads and drip lines scale free
- Promotes healthier plant growth and greater moisture penetration
- Protects equipment that comes in touch with water
- No need to cut into or drill into existing pipework
- Eliminates acid usage in the orchard for irrigation/overhead cooling systems and saves on-going cost of chemicals.



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Paint Manufacturing Applications



Paint Manufacturing Applications

Grinding and compounding

ScaleBreck lime scale deposit remover will maintain associated dryers, condensers and boilers in paint manufacturing environments automatically.

Pigmentation blending

ScaleBreck will allow for denser compounding, the rollers are kept cool, and there will be easier twin-cone interfacing.

Absorption qualities

ScaleBreck allows for water surface tensions to relax and tinting is faster and more complete.

Adhesive/cohesive

ScaleBreck will allow for bonding characteristics to be enhanced.

Polymers

With ScaleBreck, flow patterns in transfer liners will be easier and there will be less blockage and back flushing will be much easier.

Overall Equipment

ScaleBreck will allow for boilers, heat exchangers, rollers, transfer lines, pumps, valves, meters, scales, twin-cone blenders, filling equipment, dying vats, reactors, condensers, cooling towers and dye compounders to all be much more efficient without lime scale deposits.

Heavy fluids will clog up pumps.

ScaleBreck keeps the solids from depositing on pump impellers and casings - reducing maintenance and down-time. Pumping energy costs will rise as the pumps become clogged. ScaleBreck will keep the lines clean and the energy cost down.

Lime scale deposits on boilers, heat exchangers and cooling towers effect the process of energy efficiency and are costly to the company in both maintenance and chemical treatment. ScaleBreck will control lime scale deposits and add to the profitability of the operation.



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Petrochemical Manufacturing Industry Applications



Petrochemical Manufacturing Industry Applications

• Spray dryers

Lime scale deposit control in nozzles and transfer line will be handled by the ScaleBreck.

• Reactors

Lime scale deposit control in water jackets that maintain temperatures in reactors.

• Pumps

Lime scale deposit control to prevent packing and volute failure due to abrasion and occlusion.

• Heat Exchangers

Lime scale deposit control in fluids on both the product side and the fluid side.

• Mixer / Blenders

Lime scale deposit in feed lines, on paddles, liners and jackets will be under control.

• Chemical sewers

Lime scale deposit control in flocking tanks, dosing tanks, pumps and transfer lines will be handled by the ScaleBreck system.

• Scales

Lime scale deposit control by ScaleBreck in liquid scales, which are metering devices.

• Sensors

Lime scale deposit control to prevent optics from becoming fouled and feed lines becoming clogged.

• Valves

Lime scale deposit to prevent both automatic and manual valves from getting frozen or blocked, thus causing eventual leaking.

• Coaters

Lime scale deposit control in coating bath tanks and on the spray nozzles.

• Drumming lines

Lime scale deposit control in packaging equipment pumps, valves, and metering devices.

• Lagoons

Lime scale deposit control in pretreatment aerators, pumps, valves and pipelines.

• Fractionators

Lime scale deposit control in columns used to remove various elements at varied temperatures, viscosities, and specific gravities. The deposits are controlled that plug the bubble caps on the trays.

• Stills

Lime scale deposit control in coils that are used for stilling and distilling will be handled by ScaleBreck.

• Tank trucks

Lime scale deposit control in the Clean - in - Place facilities.

• Plant Equipment

Boilers, heat exchangers, air compressors, vacuum pumps, air pollution control equipment, transfer lines, pumps, valves, condensers and cooling towers will all benefit from the ScaleBreck system.

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Pharmaceutical Manufacturing



Pharmaceutical Manufacturing Applications

• Grinding and compounding

ScaleBreck will control lime scale deposits on the dryers, condensers and boilers in pharmaceutical manufacturing environments.

• Pigmentation blending

ScaleBreck will allow for denser compounding, rollers are kept cool and there is easier twin-cone interfacing.

• Absorption qualities

Surface tensions of the water are relaxed with ScaleBreck and tinting is faster and more complete.

• Adhesive/cohesive

Bonding characteristics are enhanced by using the ScaleBreck system.

• Polymers

By using ScaleBreck, flow patterns in transfer lines are easier and there are fewer blockages and back flushing will be much easier.

• Reverse osmosis systems

Control lime scale deposits, clogging and flow restrictions by using ScaleBreck.

• Equipment

• Lime scale deposit formation is a problem in your boilers, heat exchangers, rollers, transfer lines, pumps, valves, meters, scales, twin-cone blenders, filling equipment, dying vats, reactors, condensers, and cooling towers.

• Pharmaceutical manufacturing involves a multitude of tanks, pipes and pumps that connect a variety of mixers and reaction vessels.

• Clogged pipelines and filters are expected and the process must be halted to clean the lines.

ScaleBreck will keep the lines clean and the process running with no downtime. Heavy fluids clog pumps. ScaleBreck will keep the solids from depositing on pump impellers and casings - reducing maintenance and downtime.



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Pulp and Paper Manufacturing



Pulp and Paper Manufacturing Applications

• Pulp

Lime scale deposits in grinding pumps and slurry lines; in caustic mixers and blending lines, pumps and controls will no longer be a problem. Also in mixing and fermentation tanks, lines, valves, and pumps.

The ScaleBreck system will also work in mother liquor lines, exchangers, valves, pumps and controls.

• Paper Stock

Lime scale deposits in roller dryers, blenders, compounders, pumps, transfer lines, air pollution control washers and steam feed systems to dryers will all be controlled by the ScaleBreck system.

• Coaters

Lime scale deposit control on rollers from coating towers, spray headers, pumps, transfer lines, control valves, gauges, metering and chemical sewer controls will all take place under ScaleBreck's chemical-free operation.

• Co-generation

Lime scale deposits in boilers, condensers, cooling towers, pumps, taps, feed controls, blow down treatment, and stack emission control equipment will be removed by 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.



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Sugar Mill



Sugar Mill Applications

• 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 deposit 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.



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Textile Manufacturing



Textile Manufacturing

Water hardness greatly effects on textile dyeing, washing and finishing section. In washing section hard water make the yarn stiff and scratchy. Hard water contains tiny mineral particles and these particles mix with soap turn into like small pieces of rock. Iron containing hard water creates reddish yellow color on washed fabrics. Imperfect soil removal from fabric lessens the colors intensity; an unpleasant odor may be developed. Insoluble soap scum and dirt on the fabrics or yarn lead to yellowish color and uneven dyeing.

• Equipment cooling

ScaleBreck will aid in reducing lime scale deposits in cooling water channels and the cooling tower fill, pipes, tanks, pumps and valves.

• Equipment that will benefit from ScaleBreck:

- Boilers
- Heat Exchangers
- Rollers
- Transfer Lines
- Pumps
- Valves
- Meters

- Oil Separators
- Combers
- Spinners
- Weaving Equipment
- Dyeing equipment
- Dryers
- Condensers
- Dye compounders
- Cooling towers

• Maintenance Free

The ScaleBreck water conditioning system requires no maintenance, thus eliminating maintenance costs.

• Environmentally Friendly

There are no harmful chemicals or salts which dispose chlorides into the environment.

• Space Efficiency

The unit takes up little space. Simply mount the ScaleBreck water conditioner on your incoming pipes and you are good to go. Commercial building may be susceptible to problems with hard water, but you now have an effective solution to prevent it. Contact us today to learn more about our expansive line of commercial models.



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Wastewater Treatment



Wastewater Treatment

• Polymer Systems

Potential reduction of polymer usage and increased dewatering capabilities.

• Lime or Soda Ash Treatment

Soda ash is the most commonly used treatment for a low pH reading in a wastewater stream. It is inexpensive, safe and able to be released without EPA concern. Soda ash is raw, uninhibited scale, by nature. Slurry pumps used to push the lime slurry into the water stream are subject to lime scale buildup.

The ScaleBreck System placed on the suction side of the pumps will prevent scale deposition on the pumps.

• Sensors & Instrumentation

The ScaleBreck System benefits sensors, probes and control valves. Calcium particles remain suspended in solution and will not leave deposits on vital measuring equipment.

• Clarifiers

ScaleBreck forms soft sludge instead of hard lime scale for decreased cleaning frequency and easier removal.

• Chlorine Injection Lines / Pump Deposits

The ScaleBreck System will keep scale particles suspended in solution and off of the pump surfaces.

• Mixing Tank

The ScaleBreck System can treat the water to be mixed and will keep the tank sides and propeller clear of lime scale buildup.

• Sodium Bisulfite Line

ScaleBreck will prevent calcium coming out of solution and plugging up the sodium bisulfite lines used to remove chlorine and control pH levels.

• Sodium Hypochlorite Line

ScaleBreck will remove limescale formation in the chemical feed lines and allow for optimal flow rates throughout the disinfection system from the injector to the contact basin.

• Effluent System

The ScaleBreck System will protect the discharge line, keeping it free of lime scale caused by heavy concentrations of the calcium carbonate.

• Resin Bed Calcification

The ScaleBreck System will keep the calcium carbonate ions in solution, preventing the calcification of the resin bed and the formation of channels in the bed that lead to ineffective treatment.

• Environmental Issues

Environmental issues and the “going green” movement in the World today is a more important of an issue than ever before. ScaleBreck is the ideal environmental product.

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