

SCALE BLASTER™

THE WATER SOFTENER ALTERNATIVE

APPLICATIONS

Fruit and Vegetable Processing



Fruit and Vegetable Processing

Processed products for packaged use and food service

Common examples of process fruit products include: fruit juices such as apple, orange, tomato; grading and packing of fresh fruit for market, canned peaches and pears, dried fruits such as apricots, prunes, raisins; wine and fruit purees for food industry use. *Processed vegetable products include:* canned sweet corn, carrots, peas, beans; frozen peas and beans, concentrated tomato paste, vegetable soup, potato chips, french fries, pickled mixed vegetables, dried tomatoes, dried onion flakes, vacuum packed beetroot, etc.

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.

ScaleBlaster 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

You will need to separate solid from liquid waste by screening, sedimentation and flotation, etc.

ScaleBlaster 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. **ScaleBlaster** 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

Storage includes the following: underground storage tanks, bulk storage oil tanks, fuel oil tanks, tanks of food additives, caustics, disinfectants and detergents. **ScaleBlaster** will help reduce the impact of particulate buildup on these storage surfaces, providing control in re-circulating equipment, clean-in-place (CIP) equipment, tank cleaning equipment, storage tanks, feed lines, pumps and valves.

Environmental concerns/reduced water consumption/energy savings/reduced chemical, detergent and formula consumption

Ensure thorough cleaning of equipment to maintain high standards of hygiene and compliance with food safety regulations. Remnants of processed foods have virtually no ability to adhere to surfaces and remain behind when scale and Biofilm provide no pits or cavitations and no biological settling on those surfaces. Energy savings will result as heat transfer will work more efficiently. **ScaleBlaster** will aid in the reuse of wastewater with little effects from clogged sprayer, nozzles, pumps and valves. Detergent and formula consumption will be decreased substantially.



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