CHEM-AQUA™
An NCH Company

Dairy Industry Solutions

Water Conservation and Reuse

Environmental concerns and increasing costs continue to force companies to look for innovative ways to save money. Dairy plants have a unique opportunity to reuse Condensate of Whey or “COW” water for many types of applications including cleaning in place (CIP) and sanitization of process equipment, boiler feedwater, and cooling makeup water. Multiple-effect evaporators and process reverse osmosis systems are used to separate the cow water from the dairy solids. When cow water is blended with an additional water source, the demand for fresh water is significantly reduced. When added to feedwater or makeup water, there is a reduction in the makeup, chemical, and energy requirements associated with operating boiler and cooling systems. Additional control measures must be added to cooling systems to help reduce microbiological growth or slime deposits.

Chem-Aqua helps plants adhere to the U.S. Federal Grade-A Pasteurized Milk Ordinance (PMO) standards for water quality, treatment, and monitoring for different applications.

Cheese

50,000 lbs. / Day

Produces

Raw Milk

500,000 gals. / Day

Generates

COW Water

50,000 gals. / Day
20MM gals. / Year

Customized Water Treatment Solutions

Dairy plants and their water treatment needs are as varied as the products they create. At Chem-Aqua, we offer expert service and a comprehensive set of solutions to meet the challenges of the dairy industry. Our approach is the difference. We create customized water treatment programs tailored to the needs of the individual dairy plant. This approach has led to a documented track record of improving equipment efficiency and decreasing operating costs.

Proven Experience

Chem-Aqua has the proven water treatment experience to help dairies maximize their water efficiencies and protect their valuable systems. We offer a full line of products to meet USDA, FDA, NSF, and CFIA regulations. From steam boilers and cooling towers, to sweet water loops and wastewater plants; we have the experience, products, and equipment to be the one stop shop for all of your water treatment needs.

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Our customized water treatment programs do more than just protect your water systems from the ravages of corrosion, deposits, and microbiological growth. They help maximize the life, efficiency, reliability, and safety of your cooling water and heating systems while keeping energy, water, and maintenance costs to a minimum. Our consultants are supported by a full team of engineers with experience in water treatment programs for the dairy industry.

Reduce Energy & Water Usage

Improve Equipment Efficiency

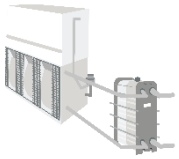
Save Heating BTU's

Reduce Operating & Maintenance Costs

Chem-Aqua Water Treatment Program Benefits

Evaporative Condensers

- Reduce and/or eliminate issues caused by scale, corrosion, and microbiological growth while reducing water consumption
- Custom pretreatment equipment to minimize impurities
- Custom chemical feed and control equipment to maximize control

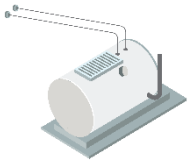


Sweet Water Loops

- Reduce and/or eliminate issues caused by high solids, system downtime, water loss, and microbiological growth
- Custom sand filtration equipment
- Custom chemical feed and control equipment to maximize control

Steam Boilers

- Reduce and/or eliminate issues caused by scale and corrosion while reducing water consumption
- Custom pretreatment equipment to minimize impurities
- Custom chemical feed and control equipment to maximize control



Wastewater

- Reduce costs and solve problems with a customized wastewater treatment program
- Drain maintenance systems to reduce Biological and Chemical Oxygen Demands (BOD and COD)
- A complete line of coagulants, flocculants, metal precipitants, and defoamers to meet every need
- Wastewater analytical services

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