xylem

Wastewater solutions for dairy



How do you, as a dairy processor, keep producing wholesome products at an affordable price while responsibly addressing wastewater requirements?

Dairy farms produce millions of tonnes of milk every year to nourish billions of consumers around the world. Global demand for dairy products (milk, cream, cheese, yogurt, butter, etc.) has challenged processors to keep pace and, as production increases, so does the resulting wastewater.

In the past, there were fewer wastewater treatment compliance restrictions. However, over the past 25 years, pretreatment ordinances have limited what can be discharged into sewers and local waterways. Wastewater disposal costs, once a minor operating expense, have risen dramatically, prompting cost-conscious dairy plant managers to take action.

Helping dairies worldwide for over 35 years

Xylem has the technologies and experience to address the challenges faced by dairy processors.

- **Comply with regulatory requirements.** We can help your facility meet effluent discharge regulations.
- **Reduce or eliminate wastewater surcharges**. On-site treatment can lower—even eliminate—surcharges associated with discharging untreated wastewater to your local municipal treatment plant.
- **Reuse water.** High-quality effluent can be reclaimed for use in plant operations.
- **Convert wastewater into green energy.** Valuable biogas can be collected and used to create green energy, lowering on-site energy consumption and costs.
- **Become an environmental steward.** Go beyond basic regulations to become a proactive, environmentally friendly dairy processor.





Wastewater treatment and waste-to-energy solutions for dairies

Dairy processing wastewater is especially suited for Xylem's anaerobic and aerobic treatment technologies. Xylem's BVF® anaerobic reactor, for example, effectively treats dairy production wastewater that contains suspended solids, as well as digests whey and Fat, Oil, And Grease (FOG) concentrations.

Since treatment objectives and the characteristics of dairy wastewater vary depending on the size and location of a plant and the type of product produced, Xylem offers solutions customized to each client's unique requirements.



Success through satisfied customers
Xylem's team has installed over 260 wastewater treatment systems worldwide and has significant experience treating dairy wastewater, including:

- HP Hood
- Lion - Dairy & Drinks
- Richmond Dairy
- Grupo Lala
- Strauss Dairy
- Dairygold Co-operative Society
- Danone
- Saputo Inc.
- Darigold Inc.
- Garelick Farms
- Devondale-Murray Goulburn Co-operative

"One of the best projects I have been involved with."

Mike Kinder, Project Manager, Lion



Anaerobic

- **BVF Reactor** – A proven, low-rate technology that is simple to operate and generates approximately 90 percent less waste sludge than aerobic systems.
- **AnMBR** – A cutting-edge technology that uses a membrane barrier to perform the gas-liquids-solids separation and reactor biomass retention functions.
- **ECSB** – A high-rate technology that can be built within a small footprint.



Aerobic

- **MBR** – An activated sludge technology whereby a submerged physical membrane barrier is used, rather than gravity clarification, to separate liquids and solids.
- **SBR** – An advanced form of activated sludge technology in which all biological process reactions and settling/ clarification take place in the same reactor vessel.

Xylem |'zīləm|

1) the tissue in plants that brings water and nutrients upward from the roots.
2) a leading global water solutions company.

Xylem is a leading global water solutions company dedicated to advancing sustainable impact and empowering the people who make water work every day. Xylem connects diverse capabilities and innovative technologies to provide tailored solutions across the entire water cycle. From moving, treating and measuring water to optimizing and maintaining water systems, Xylem collaborates with customers to solve their most critical challenges. Together, through partnerships with utilities, industrial manufacturers, building operators, and communities, we are building a more water-secure world.

For more information on how Xylem can help you, visit xylem.com.

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