



Higher throughput. Lower operational costs. Better evaporator management.

Ecolab® EvaporatorIQ™ is a cohesive evaporator management system that maximizes throughput and minimizes downtime. Using a three-pronged approach, EvaporatorIQ supplements the power of Ecolab's deep-cleaning and scale inhibition solution, Trimeta™ Boost, with a digital monitoring platform that delivers real-time insights into productivity metrics. This deeper visibility empowers ethanol producers to adopt a more proactive and targeted approach to equipment cleaning that helps prevent disruptive shutdowns and reduces downtime.



Why Ecolab EvaporatorIQ™?



Maximize throughput

EvaporatorIQ three-pronged approach (chemical cleaner + scale inhibitor + digital monitoring) helps ethanol producers minimize downtime and maximize throughput. Ethanol producers can act strategically, forecast cleaning needs, and reduce the need to take the entire system offline for hydroblasting.



Manage costs

EvaporatorIQ helps plant managers reduce costs related to high energy expenditure and skilled labor. The digital monitoring tool integrates easily with existing facility equipment, which means no extra expenses for new capital equipment installations and more time and resources for strategic initiatives like expanding their portfolio.



Boost sustainability (and safety)

Less frequent hydroblasting means lower water and energy usage, which translates to meaningful progress toward core sustainability goals. The reduced number of cleanings also contributes to a safer working environment for on-site employees; fewer hydroblastings means less frequent exposure to high-impact equipment.



Drive continuity

EvaporatorIQ centralizes productivity insights and backs up cleaning protocols with hard data, guarding against key facility knowledge literally walking out the door. Instead of relying on institutional memory or ad hoc, rudimentary insights, facility leaders can ensure production continuity through easily digestible data analysis and intuitive dashboards.

A comprehensive cleaning program that delivers results



Ecolab EvaporatorIQ enables a more proactive and productive approach to evaporator maintenance. Instead of reacting to inevitable blockages caused by mineral formations with arbitrary cleaning schedules and frequent hydroblasting, plant managers can leverage targeted cleaning, scale-inhibiting chemistry, and digital insights to address issues before they become a costly, time-wasting problem.

Cleaning solution	Scale inhibition	Digital insights
Ecolab's targeted cleaning solution attacks buildup and mitigates the threat of blockages.	Scale inhibitors from Nalco Water, an Ecolab brand, curb the development of calcium oxalate and magnesium phosphate formations.	Real-time data translates a complex web of production variables into a unified, holistic productivity metric.

>> MORE PROACTIVE MANAGEMENT >>

- Digital monitoring helps plant managers respond faster to production slowdowns and make smarter, more targeted cleaning decisions that minimize downtime and support higher levels of efficiency.
- Plant managers can leverage insights to predict and schedule cleaning based on patterns unique to their equipment.
- Insights are generated from existing facility equipment (sensors, flow meters, etc.) meaning no additional capital equipment is required.
- Users don't need to disrupt facility operations to begin data monitoring, and they can begin leveraging insights almost immediately.

CASE STUDY FOR ESTIMATED ANNUAL SAVINGS

 PRODUCTIVITY	 CIP OPTIMIZATION	 CONTINUITY
44,607 more gallons of ethanol/year	200 fewer CIP manhours/year	~50 fewer CIP events/year
 EFFICIENCY	 TRAINING	TOTAL VALUE DELIVERED
77 fewer hours spent on manual analysis/year	146 fewer hours spent training associates/year	\$103,641/year

July 2023 - November 2023. Because of factors outside of Ecolab's control, such as water conditions and facility cleaning processes, results to be obtained, including but not limited to water and energy savings, cannot be predicted or guaranteed by Ecolab.

Ready to start cleaning smarter?

Contact your Ecolab representative today to learn more.

ecolab.com/ethanol

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