



Ultrasil™ MembraneCARE 2.0

OPTIMIZED MEMBRANE CLEANING PROGRAM FOR DAIRY MANUFACTURERS

Ecolab's Ultrasil™ MembraneCARE 2.0 is a proprietary CIP membrane cleaning program, designed for dairy manufacturers producing premium-quality products, that expertly combines alkaline, acid and patent-pending enzyme cleaners, all of which are biodegradable as used. Compared to current industry practices, this next-generation program helps...

- > Reduce dependence on surfactants
- > Increase membrane capacity up to 10%
- > Reduce CIP cycle times up to 15%
- > Lower water usage and energy consumption up to 15%
- > Extend the life of membranes up to 10%*

And, these innovative chemistries are formulated without NPE, Chlorine, EDTA, Nitric Acid and Phosphoric Acid, which minimizes environmental impact.

Onsite service and technical support are customized to help deliver next-level membrane performance.

Technology
+
People
=
OPTIMIZED
MEMBRANES

*Ecolab simulated lifetime study results on file



Ecolab's Ultrasil™ MembraneCARE 2.0 vs Traditional Offerings

	Chlorinated Competitors	Enzyme Competitors	Ultrasil™ MembraneCARE 2.0
Increase membrane capacity up to 10%	X	X	✓
Reduce CIP cycle times up to 15%	X	X	✓
Lower water usage & energy consumption up to 15%	X	X	✓
Extend the life of membranes up to 10%	XX	X	✓
Formulated without NPE, Chlorine, EDTA, Nitric Acid and Phosphoric Acid	X	X ¹	✓
Reduce dependence on surfactants	X	X	✓

¹ Some enzyme programs may not contain these chemistries.

POSITIVELY IMPACTING...



GLOBAL MEMBRANE EXPERTISE

Ecolab is the global leader in membrane cleaning and care. A dedicated team of scientists working at the company's Center of Excellence for Membrane Technology in Monheim, Germany, collaborates with Ecolab R&D and field technicians globally. Together, they develop new chemistries, test them in onsite pilot facilities, and partner with OEMs and customers to ensure successful deployment.

In an effort to ensure ongoing success, tests are conducted at Ecolab membrane service centers across the globe, in which membranes are deconstructed, analyzed and diagnosed to help troubleshoot customer issues.

Because total water management is critical to membrane performance, Ecolab's Nalco Water experts provide analysis and insights around water quality, reuse opportunities, and provide solutions to optimize usage.



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