

Sulzer's EvapCare™-F technology boosts efficiency and product integrity in distillation plants

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Sulzer Chemtech has launched EvapCare-F, an advanced iteration of its proven falling film evaporator technology, backed by over 1'000 references. This next-generation solution has been re-engineered to enhance high-performance separation while reducing energy use and preserving product quality. The novel technology helps industrial plants decarbonize while cutting production interruptions by up to 50% and delivering superior heat transfer.

Used in combination with distillation or as a standalone unit, falling film evaporators are essential for handling heat-sensitive substances in sectors such as fine chemicals, pharmaceuticals, and bio-based materials. However, as demand for more sustainable operations and products increases, existing evaporation systems often fall short, especially in terms of energy recovery, process stability, and product degradation.

The EvapCare-F technology meets these challenges head-on. Developed to support both traditional and electrified distillation systems, including Sulzer's own VoltaSplit™, the unit uses an advanced liquid distribution system to form a stable, uniform film across every evaporator tube. This innovation enables faster evaporation with minimal thermal stress, ensuring better product quality and higher yields, even under vacuum.

Maximizing value through efficiency

The novel technology offers impressive performance benefits, including up to 50% fewer production interruptions thanks to reduced fouling and scaling, and over 40% lower heat consumption in multi-effect setups. It can also offer shorter residence times and superior heat transfer, reducing the risk of product degradation.

“With EvapCare, our customers can modernize their separation processes for today’s sustainability and performance demands,” said Ilja Mikenberg, Sulzer’s Global Head of Process Solutions. “It’s a versatile, future-ready technology that combines decades of Sulzer experience with innovative design.”

Built for plug-and-play integration into new or existing plants, and suitable for large-scale operations, particularly in vacuum applications, EvapCare-F is engineered to meet the needs of demanding applications across industries. Whether used in petrochemicals, pharmaceuticals, flavors and fragrances, or wastewater treatment, it helps facilities enhance performance, reduce energy consumption, and maintain exceptional product quality.

Image caption:**Image 1:** EvapCare Unit Integrated with Distillation Column

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About Sulzer

Sulzer is a global leader in critical applications for core infrastructure and processes for large essential industries around the world. We ensure the security, quality and durability of critical goods and services by supporting energy security, natural resource management and efficiencies in process industries. This in turn supports the transition to a circular economy. Our integrated solutions add significant value by enabling energy efficiency, carbon emissions and pollution reduction, and process efficiency improvements. Customers benefit from our commitment to innovation, performance and quality through our responsive network of 160 world-class manufacturing facilities and service centers across the globe. Sulzer has been headquartered in Winterthur, Switzerland, since 1834. In 2024, our 13'500 employees delivered revenues of CHF 3.5 billion. Our shares are traded on the SIX Swiss Exchange (SIX: SUN).

www.sulzer.com

The Chemtech division is the global market leader in innovative mass transfer, static mixing and polymer solutions for chemicals, petrochemicals, refining and LNG. We are steering the way in ecological solutions such as bio-based chemicals, polymers and fuels, recycling technologies for textiles and plastic as well as carbon capture and utilization/storage, contributing to a circular and sustainable economy. Our product offering ranges from process components to complete process plants and technology licensing.

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