

Thin-film evaporation

Innovative thin-film evaporator technology tailored to your application ensures optimal raw material recovery from any liquids.

United Skills of
KREMSMUELLER 



Learn more:
krm.news/thin-film

Thin-film evaporator technologies

At Kremmüller, we design distillation, evaporation, and drying systems built to enable advanced separation for resource recovery and reuse. From concept to completion, you have one dedicated contact ensuring seamless execution.

Your process is unique, and your equipment should be too: Every thin-film evaporator we build is a one of a kind solution. Whether you require special materials, unique rotor configurations, or precise control of residence time and temperature, we design your system from the first idea to the final bolt with absolute precision. Every detail is tailored to your application, ensuring efficient separation and reliable performance even with complex or sensitive mixtures, so your equipment becomes a perfect fit for your production goals.

Utilized across industrial sectors

- Fiber and pulp industry
- Beverage and food industry
- Environmental technology
- Sugar and starch industry
- Chemical industry
- Polymer industry
- Resin industry
- Petrochemical sector

Convincing advantages

01

Maximum efficiency in thermal separation of sludges and liquids

03

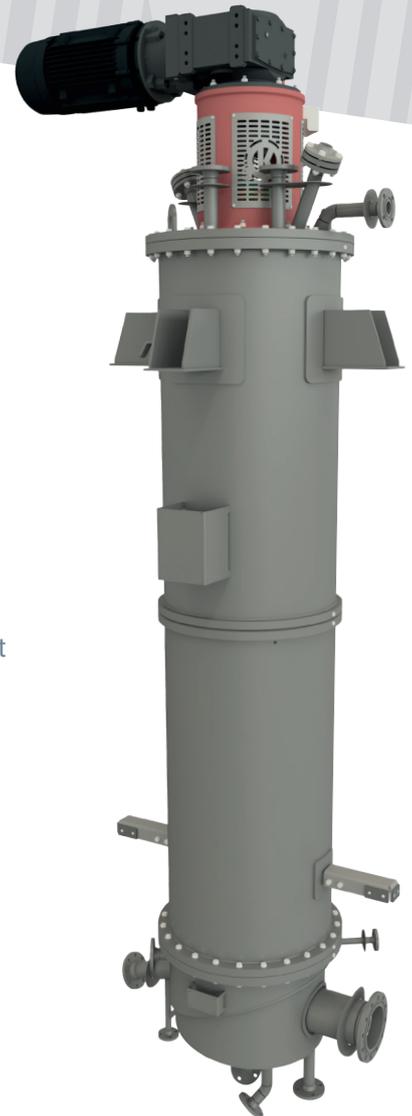
Preservation of sensitive ingredients through short path evaporation

02

Nearly zero discharge of liquid waste streams

04

Cost savings on disposal and reduced environmental impact

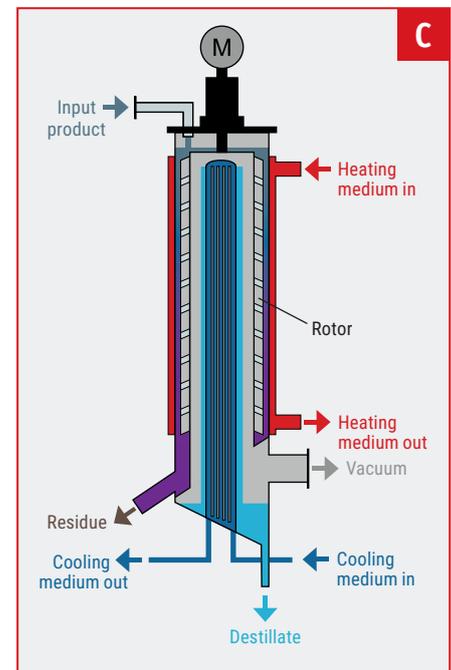
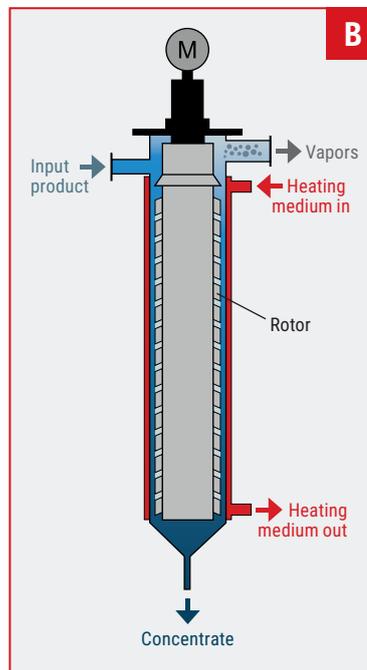
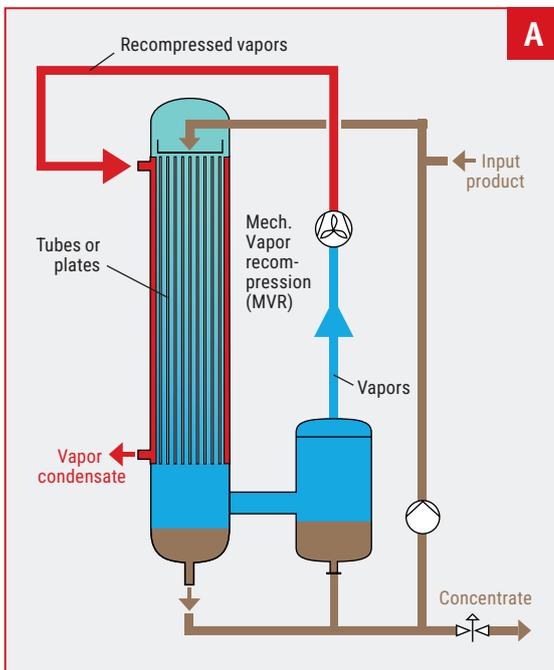


Kremsmüller Test Center:

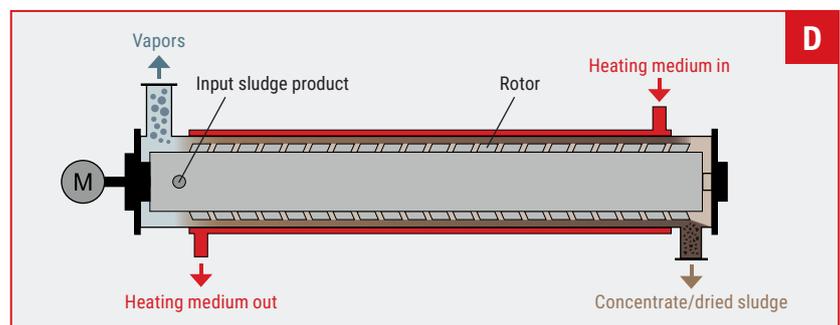
An initial feasibility study often begins in our miniplants, with scale-up carried out in our pilot plants. We can replicate the entire evaporation and drying process, starting from pre-evaporation with falling-film and thin-film evaporators, thin-film dryers and/or short-path distillation.

Products	Surface	Heating temperature	Operating pressure	Application areas
LIQUIFILM – Evaporation plant with thermal or mechanical vapour recompression (TVR/MVR)	up to 5.000 m ²	up to ~200 °C	up to 10 mbar	Starch solutions, Solvent recovery, Black liquor, Milk, Caprolactam
LIQUIVAP – Thin-film evaporator vertical	0,1 up to 60 m ²	up to 500 °C	up to 1 mbar	Polymers, Waxes, Isocyanates, Tall oil, Fatty acids, Oils, Sorbitol, Glycols, Silicone oils
LIQUIMOL – Shortpath evaporator / molecular distillation	0,1 up to 60 m ²	up to 450 °C	up to 0,001 mbar	Vitamins, Isocyanates, Fatty acids, Bio diesel, Lactic acid, Monoglycerides
LIQUIDRY (V/H) – Thin-film dryer vertical and horizontal	0,1 up to 120 m ²	up to 500 °C	up to 50 mbar	Municipal and industrial sludge, Brine solutions, Lecithin, Glycerin, Acids, Suspensions and pastes

Functional principles of our technologies



- A** LIQUIFILM
- B** LIQUIVAP
- C** LIQUIMOL
- D** LIQUIDRY (H)



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Idea	Plan	Build	Maintain	Next

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