

Dyvar®

Improve your brine
processing performance
with Dyvar® technology



Dyvar® is Salttech's advanced technology for evaporation and crystallization, designed to handle complex brines more efficiently than conventional methods.

The Dyvar® employs advanced flash evaporation cyclones. The brine is heated in a separate heat exchanger, keeping the heating and evaporation surfaces completely separated to prevent precipitation effects.

Our unique cyclones, combined with the high fluid velocities in the brine recirculation loop, enable the concentration of complex brines to the highest degree.

With Dynamic Vapor Recovery, Dyvar® recycles the heat produced internally, reducing energy consumption. It can push brines beyond the crystallization point, enabling the selective recovery of salts through fractional or complete crystallization.

Dyvar® enables high water recovery as part of Minimal Liquid Discharge (MLD) or Zero Liquid Discharge (ZLD) strategies, while drastically reducing common issues like corrosion, scaling, and clogging, giving you a reliable and cost-efficient brine treatment system.



Curious about Dyvar®?
Scan the QR code to learn more.

Why choose Dyvar®?

- Evaporation and Crystallization in a single step.** Combines concentration and (fractional) crystallization into one compact, integrated process step. Ideal for treating complex, high-TDS brines.
- Engineered for challenging brines.** Thoughtfully designed and constructed with carefully selected materials to withstand corrosive brines with extreme pH levels, high organic content, and salinity up to 220,000 mg/L TDS.
- Selective salt recovery.** Enables fractional crystallization for the targeted separation of valuable salts and raw materials, supporting circular and sustainable resource strategies.
- Fully electric, plug-and-play design.** Modular and rapidly deployable. Lowest operating costs in its class.

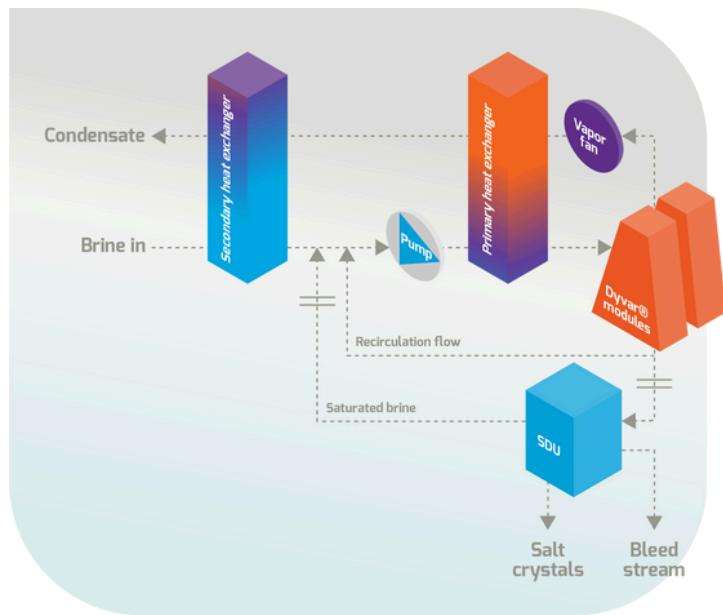


Figure 1: Process flow diagram Dyvar®

Where Dyvar® makes the difference

- **Oil & Gas:** Treat produced and flowback water to recover fresh water and valuable minerals.
- **Dairy Industry:** Treatment of RO and ED concentrates and mixed brines to reclaim water and reduce disposal costs.
- **Mining** (Lithium, Copper, Coal): Extend pond lifetime and recover water. Enable mineral refining and water recovery in processes like lithium extraction.
- **Landfill Leachate:** Concentration of RO brines to reduce disposal costs.
- **Digestate** (Semi-Dry): Lower OPEX by concentration of decanter centrates or brines.
- **Process Industry Brines:** Treatment of RO, ED, and mixed brines, including chemical mother liquors, to recover water and valuable minerals.



Ready to solve your brine challenge?

Whether you are dealing with produced water, leachate, or complex industrial brines, our Dyvar® technology is built to deliver results. Contact our team to explore how we can support your process with efficient, scalable treatment solutions.

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Let's solve your brine challenge together.