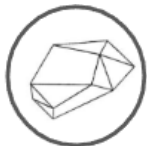




**BrineACT has developed a compact, all-in-one crystallization system that reduces capital and operating costs and ensures the recovery and valorization of value added salts.**



**High Purity Salts**



**Reduce Capex up to 60%**



**Reduce Opex up to 60%**

Available in several sizes to better match your Brine treatment needs, our system can work as a high performance crystallizer as well as an evaporator, in parallel or in series is designed to adapt to the fluctuation of your production.

## System Description



The Brineact ZLD system is designed to treat a large variety of streams from RO, ponds, or untreated brines without complex pretreatments.

- ✓ is available in standard units: from 500lph to 10tph and delivered as a standard skidded system, with a short delivery time.
- ✓ Is designed to resist scaling and minimize corrosion.
- ✓ Produce high quality value added salts.
- ✓ Fully automatic, it requires minimal manpower and can be constantly monitored by remote control.
- ✓ Small footprint, designed with over 90% recycled materials

The product has been designed to comply with the needs of heavy industries and comply with the most stringent environmental regulations.

## Technology

How does BrineACT ZLD WORKS?

Brineact has conceived a new Advanced Forced Circulation Evaporator & Crystallizer to be compact, easy to operate and maintain and with low energy consumption.

Its mechanical energy input and high nucleation rate make it the best solution for applications where we need to optimize the recovery of value added salts.

## Mechanical Vapor Recompression

The system is using the MVR (mechanical vapor recompression) that is the lowest energy consumption evaporation technology available today:



- ✓ Vapor consumption almost zero
- ✓ Cooling water consumption almost zero
- ✓ More compact layout, compared to a multiple effect evaporators

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## Available Models

The equipment is designed for treating high levels of Total Dissolved Solids (TSD) >>6%, the choice of the standard model depends on your Brine specific TDS Content / Boiling Point Elevation.

MODEL	Brine Feed TPh
BA ZLD SS 500	0,5
BA ZLD S 1000	1
BA ZLD M 2000	2
BA ZLD L 4000	4
BA ZLD L 6000	6
BA ZLD XL 8000	8
BA ZLD XL 10000	10

The system is able to guarantee a clean water level of around 20 ppm TDS & low energy consumption

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## Services

Each Industrial production plant has a specific Brine that varies from application to application. There are several technologies in the market that can help you to get value out of your Brine and it is sometimes difficult to define which technology / solution applies to your specific waste.



To help you quickly get a clear picture of your potential of recovering valuable products, reselling value and capex / opex cost of the installation, we have created a new package offer: **Brine ACT Pre-Study**  
Based on your waste water analysis our experts will help to get a quick idea about your real potential !

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## Industrial Applications

The Brineact ZLD targets scenarios where TDS content or brine precipitation exceeds membrane-based technology capabilities – typically above 6% TDS. Ideal for the recovery of high-quality valuable salts, including Nickel sulfate, Sodium chloride, Lithium carbonate, and more.

For more information, please visit our website: [www.brineact.com](http://www.brineact.com)