



MAXH₂O Desalter for Brine Minimization and Effluent Treatment

The MAXH₂O Desalter is a state of the art RO solution which includes an integrated salt precipitation cycle for high recovery applications. The MAXH₂O Desalter process allows pushing the RO water treatment ability to its limit, while overcoming the challenging limitation of membrane scaling and fouling, while achieving the industry's highest recovery rates.

The Challenge

One of the greatest challenges facing the water industry is handling the brine or industrial effluents that are byproducts of other water treatment processes or industrial facilities. These water types are characterized by challenging water chemistry which limits the ability to reach high recoveries due to the risk of scaling and fouling.

The Solution

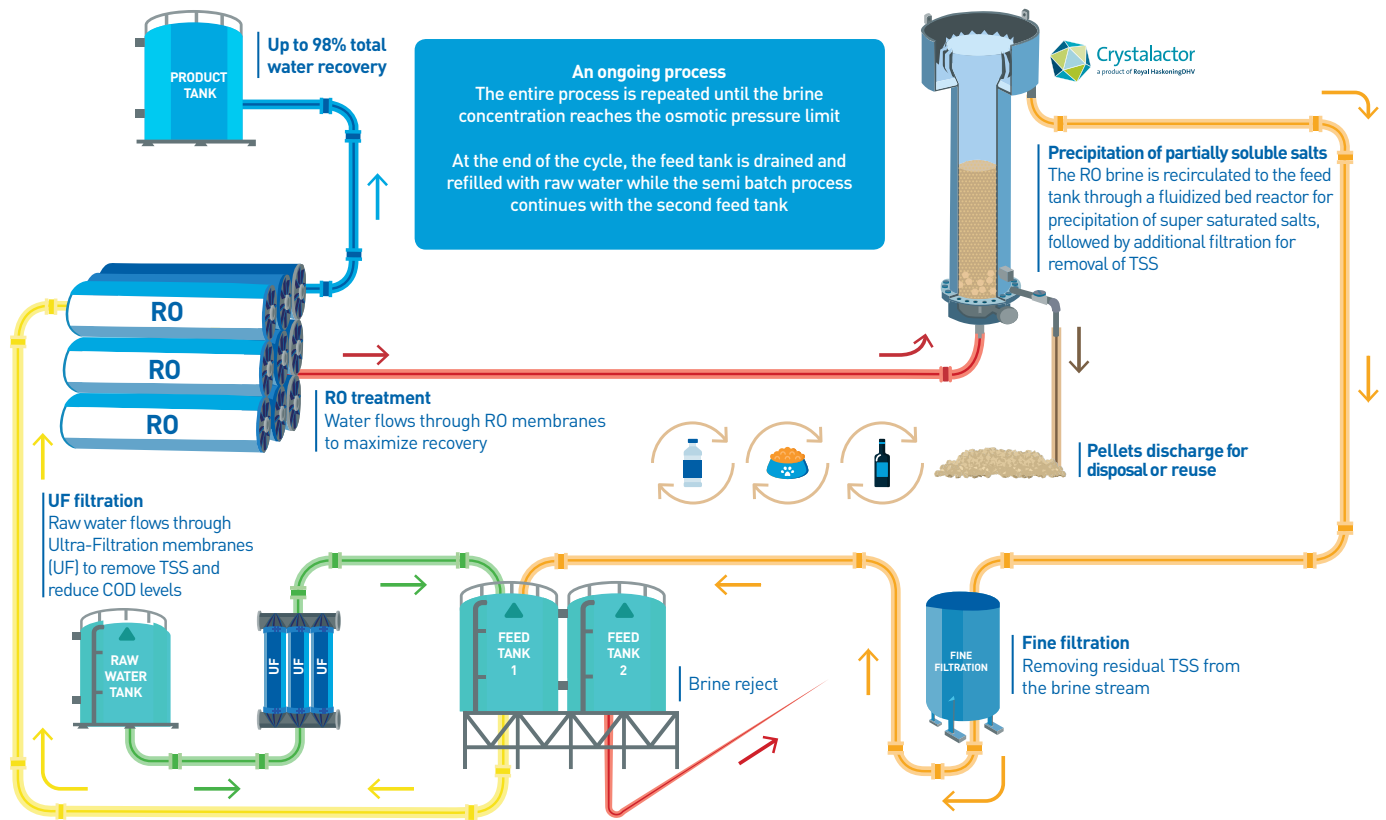
IDE offers the MAXH₂O Desalter, a unique technology that minimizes the brine and industrial effluents volume by eliminating the constraints of water chemistry, thus maximizing the mechanical potential of the RO process and achieving the industry's highest recovery rates.

Why choose MAXH₂O Desalter?

If you need to minimize brine and industrial effluents with high scaling tendency and low to moderate salinity, the MAXH₂O Desalter is the perfect solution for you.

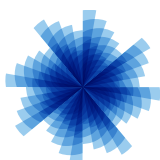
- **High recovery rates** - Industry's highest, of up to 98%
- **Economical** - Optimized OPEX, by reducing chemical consumption and minimizing ongoing maintenance
- **Adjustable** - Can be designed into new brackish & wastewater plants or retrofitted into existing water treatment facilities.
- **Reliable & Robust** - Allows continuous operation and avoids biofouling and scaling
- **Flexible** - Tolerates variable feed water qualities, concentrations and flows
- **High quality product** - Meets environmental regulations for discharge or reuse

MAXH₂O Desalter at a Glance



Performance Comparison

	MAXH ₂ O Desalter	Alternative Solutions
Pretreatment stages	Minimal	Intensive
RO Stages	1	Typically 2-3
Total recovery	Up to 98%	Typically 50-80%
Recovery limiting factor	Osmotic pressure	Water chemistry
Bio-fouling tendency	High resistivity to bio-fouling due to changing salinities	Higher risk of bio-fouling
Feed water TDS	Low quantities with High solid content	High quantities with Low solid content
Chemicals	Low	High
OPEX	Medium	High



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Technologies

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