



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

- Challenging water chemistry which limits RO recovery and efficient water reuse due to high scaling and biofouling potential
- Compliance with discharge regulation due to selective ion concentration limitations such as Sulphates, Silica and others.

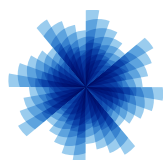
The Solution

IDE's MAXH₂O Desalter - a unique technology that treats and minimizes brine and industrial effluents by eliminating the constraints of water chemistry. By removing sparingly soluble salts out of the water, the MaxH₂O maximizes recovery and process water reuse while complying with discharge regulation.

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, up to osmotic pressure limit (8%-10% TDS)
- **Economical** - Optimized OPEX, by reducing chemical consumption and minimizing ongoing maintenance
- **Selective Salt Removal** - Removal of sparingly soluble salts to comply with discharge regulation
- **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



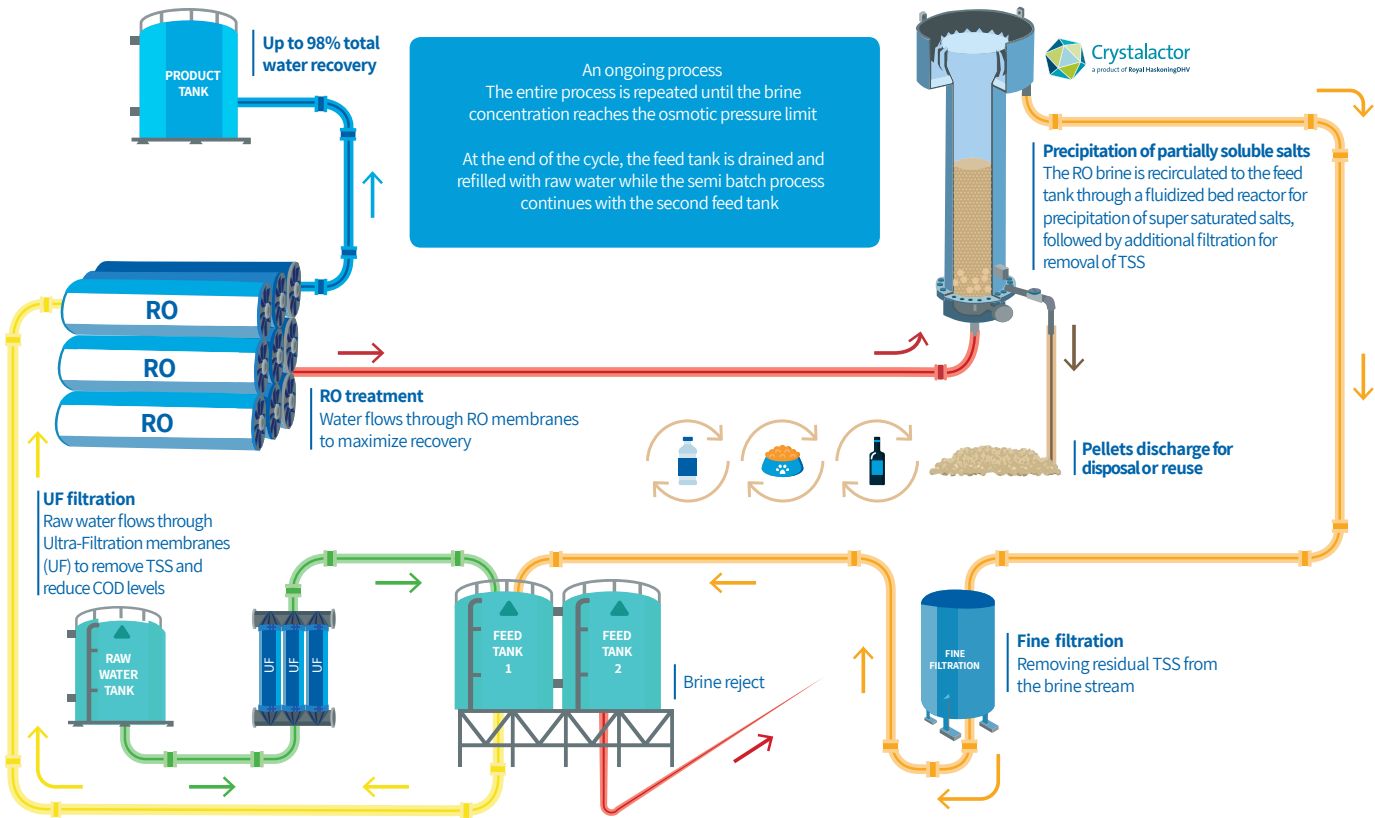
IDE
Technologies

Your
Water
Partners



www.ide-tech.com

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% (Osmotic Pressure)	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
Scaling tendency	Low	High
Chemicals	Low	High
OPEX	Medium	High