



# MAXH<sub>2</sub>O Desalter for Brine Minimization and Effluent Treatment

The MAXH<sub>2</sub>O Desalter is a state of the art RO solution which includes an integrated salt precipitation cycle for high recovery applications. The MAXH<sub>2</sub>O 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

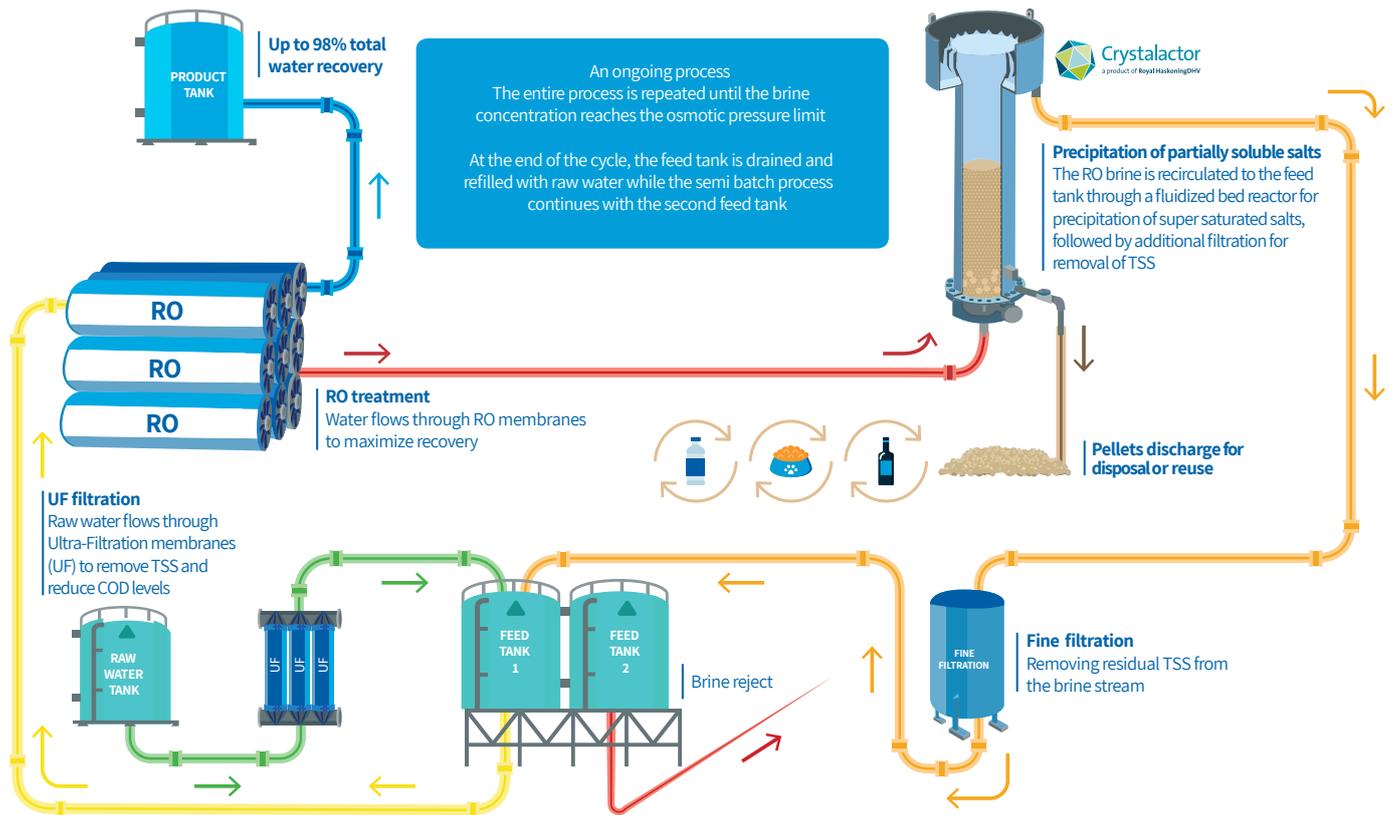
IDE's MAXH<sub>2</sub>O Desalter - a unique technology that treats and minimizes brine and industrial effluents by eliminating the constraints of water chemistry. By removing sparingly soluble salts out of the water, the MaxH<sub>2</sub>O maximizes recovery and process water reuse while complying with discharge regulation.

## Why choose MAXH<sub>2</sub>O Desalter?

If you need to minimize brine and industrial effluents with high scaling tendency and low to moderate salinity, the MAXH<sub>2</sub>O Desalter is the perfect solution for you.

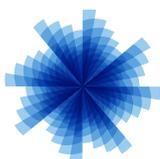
- **High Recovery Rates** - Industry's highest, up to osmotic pressure limit (8%-10% TDS)
- **Economical** - Optimized OPEX, by reducing chemical consumption and minimizing ongoing maintenance
- **Selective Salt Removal** - Removal of sparingly soluble salts to comply with discharge regulation
- **Reliable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

# MAXH<sub>2</sub>O Desalter at a Glance



## Performance Comparison

	MAXH <sub>2</sub> O Desalter	Alternative Solutions
<b>Pretreatment stages</b>	Minimal	Intensive
<b>RO Stages</b>	1	Typically 2-3
<b>Total recovery</b>	Up to 98% (Osmotic Pressure)	Typically 50-80%
<b>Recovery limiting factor</b>	Osmotic pressure	Water chemistry
<b>Bio-fouling tendency</b>	High resistivity to bio-fouling due to changing salinities	Higher risk of bio-fouling
<b>Scaling tendency</b>	Low	High
<b>Chemicals</b>	Low	High
<b>OPEX</b>	Medium	High



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