

XtremeRO/NF: Enabled by BrineRefine

Extreme Reverse Osmosis/Nanofiltration Brine Concentrator

- Next generation RO/NF: available in 600, 1200, 1800 psi models
- Reduce brine volumes to new levels
- Leverage BrineRefine: automated chemical softening to remove scaling ions upstream
- Reduce costs through total system integration



Minimize Brine Volume

Achieve higher brine concentration by reaching osmotic pressure limits, made possible by removing scaling ions with [BrineRefine](#).

Process Flexibility

Reacts and adjusts to changing chemistry and capacity requirements. Dynamic recovery control when paired with [ScaleSense](#) real-time scaling ion sensors.

Intelligent Automation, System View

Integrated controls for total system performance and monitoring.

Integration

Saltworks integrates with any RO system, tying upstream chemistry adjustments with downstream brine management through optimized processing and controls.

Delivery Models

Saltworks can deliver complete RO-optimized packages or work with engineering companies and RO vendors to deliver a partnered project.

Total Support Operations

Complete packaged delivery and installation options: [remote monitoring](#), 24/7/365 expert assistance, and predictive maintenance.

Maximize Recovery

Shrink Your Brine Volume

Manage Scale Risk

Optimized Total System Design

Operating Specifications

XtremeRO/NF	600	1200	1800
Max Pressure	600 psi ~41 bar	1200 psi ~82 bar	1800 psi ~124 bar
Osmotic Pressure Brine Concentration Limit (mg/L NaCl)	40,000	80,000	130,000
Typical Flux at Peak (LMH)	10-15	10	2
Typical Energy at Peak (kWh/m ³ permeate)	1-3	6	8
X-RO (25 vessels)*	(Varies with TDS)	2,500 m ³ /day ~458 gpm	500 m ³ /day ~91 gpm

*Peak capacity stated without de-rates