NanoH2O™ UHP RO

NanoH2O™ Ultra-High Pressure (UHP) RO membranes are engineered to deliver unmatched performance in the most demanding operational environments.

Delivering exceptional salt rejection, the largest active surface area, and unmatched durability under extreme pressure, it sets a new standard for efficiency and reliability.

Designed to optimize ZLD and MLD systems, it helps reduce energy costs, minimize waste, and enhance sustainability without compromise. Built for sustainability and strength, NanoH2O™ sets the benchmark for performance in challenging applications.



Core Features

Permeate Flow rate	Stabilized Salt Rejection	Active Membrane Area	Maximum Operating Pressure
8,500 GPD (32.2 m³/d)	99.85 %	380 ft² (35.2 m²)	1,740 psi (120 bar)

Performance specifications based on the following test conditions: 32,000 ppm NaCl, 800 psi (55.1 bar), 25 °C, pH 8, recovery 8%.

Largest Active Area in Industry

380 ft² membrane area enabled by advanced manufacturing technology.

Industry's Highest Salt Rejection

Up to 99.85% salt rejection powered by NanoH2O's TFN technology.



Superior Antifouling Resistance

Featuring NanoH2O's low dP spacer.

Robust Mechanical Durability

Unmatched strength under ultra-high pressure powered by NanoH2O's proprietary module design.

Proven Performance that Sets the Benchmark

Rejection Rate (%)



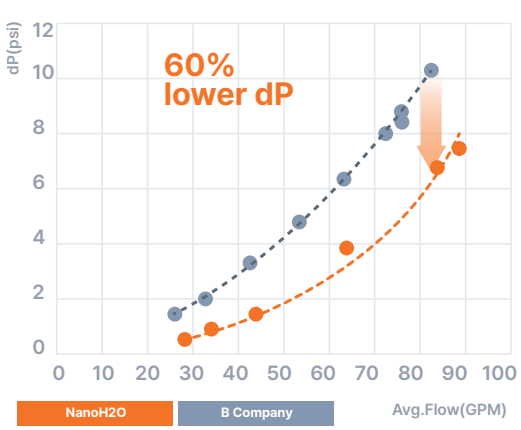
Flux (gfd)



NanoH2O
A Company
B Company

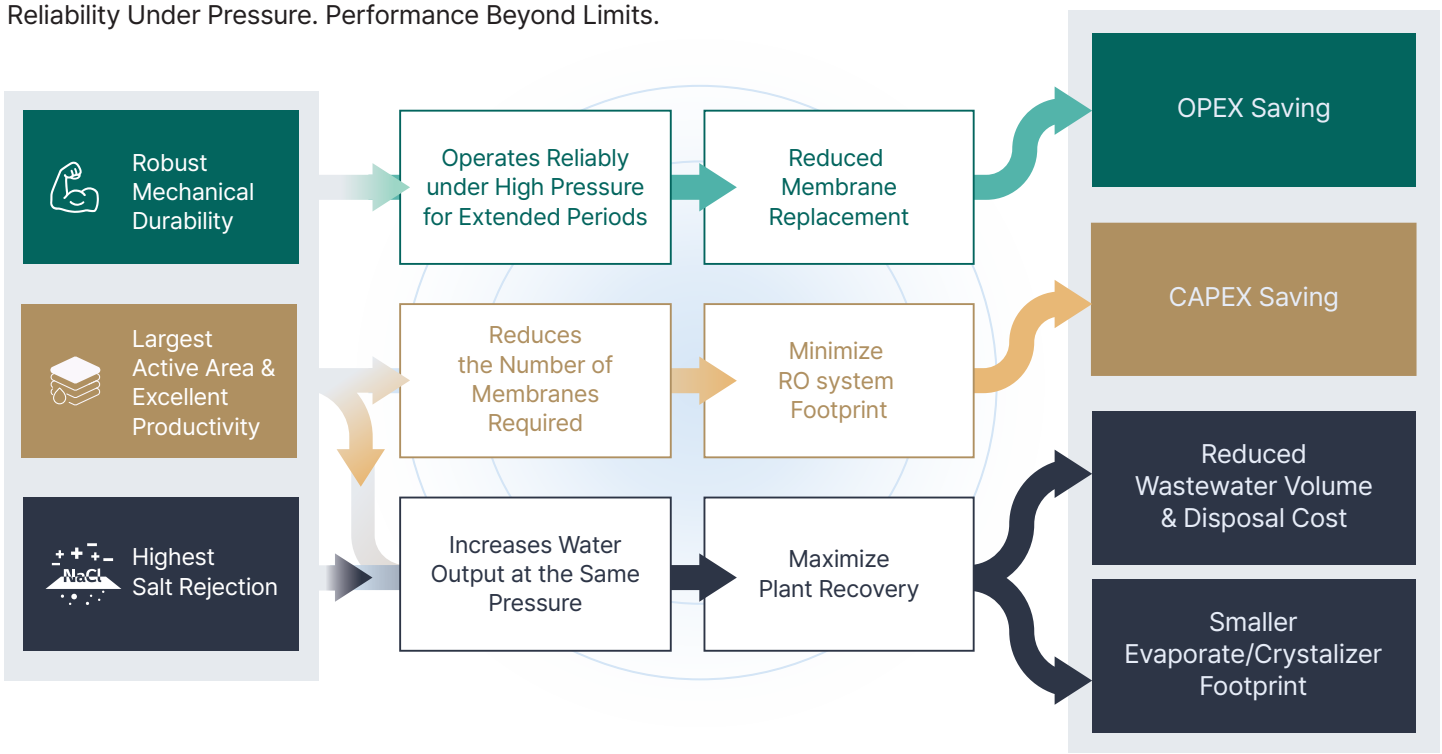
(1) Before Ultra High Pressure Exposure Test Conditions: 800 psi, 32,000 ppm
(2) Ultra High Pressure Operation for 20 Hours Test Conditions: 1,740 psi, 63,000 ppm, 20 hours
(3) After Ultra High Pressure Exposure Test Conditions: 800 psi, 32,000 ppm

Lower Differential Pressure



Value Proposition of NanoH2O™ UHP RO

Reliability Under Pressure. Performance Beyond Limits.



Why Choose NanoH2O™ UHP RO?

Unmatched Durability under Ultra-High Pressure

- Minimal Performance Change after Ultra High Pressure Operation
- Excellent Membrane Compaction Resistance

Industry-Leading Rejection & Flow

- The Best Performance in Both Rejection and Flow
- Maximizing Water Recovery at Ultra-High Pressure

Consistent and Reliable Quality

- Lowest Performance Deviation
- Uniform Product Quality and Reliable Long-Term Performance



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