NANOH2O

The World's Only RO Membrane with Breakthrough TFN Technology

Product Data Sheet



UHP RO

Ultra-high pressure RO membrane with industry-leading performance

Key Features

- Industry's highest salt rejection
- Industry's largest active membrane area delivering the highest permeate flow rate
- Robust mechanical durability under ultrahigh pressure operation (up to 120 bar or 1,740 psi)
- Excellent fouling resistance

Main Benefits

- Maximized water recovery
- Reduced wastewater volume and disposal costs
- Reduced energy consumption and operating costs
- Reduced evaporator/crystallizer footprint and capital costs for ZLD/MLD applications
- Longer membrane lifetime

Ideal Applications

- Industrial wastewater treatment
- Landfill leachate treatment
- Brine recovery
- ZLD/MLD

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This product is certified to NSF/ANSI/CAN Standard 61 for drinking water systems

D-UHPRO-EN-093026

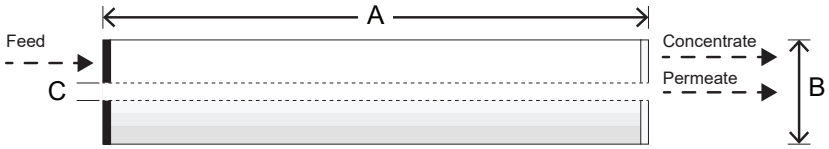
Performance Specifications

Item	Unit	Value
Permeate Flow Rate	GPD (m^3/d)	8,500 (32.2)
Stabilized Salt Rejection	%	99.85
Minimum Salt Rejection	%	99.7
Active Membrane Area	ft^2 (m^2)	380 (35)
Feed Spacer Thickness	mil	34, low dP

The specifications outlined above are normalized performances based on the following test conditions:

- **Test Conditions**: 32,000 ppm NaCl, 800 psi (55.1 bar), 25°C (77°F), pH 8, Recovery 8%
- Permeate flow rates for individual elements may vary by -15%

Dimensions and Weight



Dimensions: mm (in)			Wet Weight: kg (lbs)
A	B	C	16 (35)
Element Length	Element O.D.	Core Tube I.D.	
1,016 (40)	200 (7.9)	28.6 (1.125)	

All dimensional information is indicative and for reference only. Please contact NanoH2O for detailed technical specifications.

Operating Specifications

Specification	Unit	Value
Maximum Applied Pressure	psi (bar)	1,740 (120)
Maximum Chlorine Concentration	ppm	< 0.1
Maximum Operating Temperature	°C (°F)	45 (113)
pH Range, Continuous Operation		2–11
pH Range, Cleaning		1–13
Maximum Feed Water Turbidity	NTU	1.0
Maximum Feed Water SDI_{15}		5.0
Maximum Feed Flow	gpm (m^3/h)	75 (17)
Maximum Pressure Drop (ΔP) for Each Element	psi (bar)	15 (1.0)

These operating specifications are for general use. For specific applications, operation at more conservative values may ensure better performance and extended membrane life. See NanoH2O Technical Bulletins for more details.

The product performance is expressly conditioned on Buyer's storing, installing, operating, and maintaining Product in accordance with industry accepted good practices and Seller's written instructions provided in the Seller's Technical Manual may be viewed and downloaded at www.nanoh2owater.com
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