NANOH2O

The World's Only RO Membrane with Breakthrough TFN Technology

Product Data Sheet



SW 440 GR G2

Industry-leading salt rejection seawater RO membrane with excellent energy efficiency

Key Features

- Superior salt rejection
- Superior boron rejection

Main Benefits

- A combination of excellent permeate wate quality and energy efficiency
- Meets high water quality standards with lower system CAPEX requirement

Ideal Applications

- Single-pass SWRO design requiring high permeate water quality

Benefits of NANOH2O SW G2 membrane

- Better permeate quality without increasing operating pressure
- Lower energy costs without reducing permeate quality
- Reduced CAPEX and OPEX for multi-pass SWRO systems

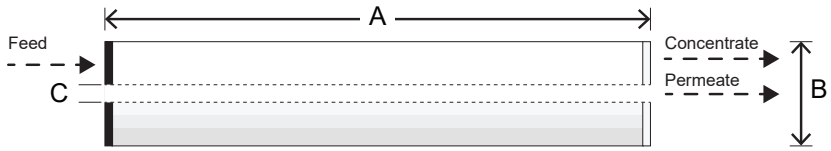
Performance Specifications

Item	Unit	Value
Permeate Flow Rate	GPD (m^3/d)	8,250 (31.2)
Stabilized Salt Rejection	%	99.89
Minimum Salt Rejection	%	99.75
Stabilized Boron Rejection	%	93
Active Membrane Area	ft^2 (m^2)	440 (41)
Feed Spacer Thickness	mil	28

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

- **Test Condition:** 32,000 ppm NaCl, 5 ppm Boron, 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)	1,200 (82.7)
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.

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

D-SW440GRG2-EN-093026

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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