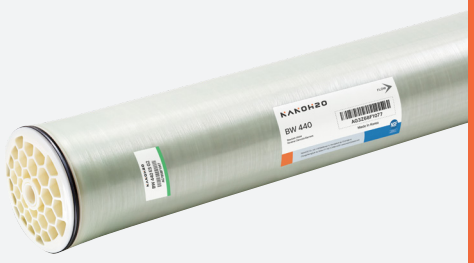
NANOH2O

The World's Only RO Membrane
with Breakthrough TFN Technology

Product Data Sheet



BW 440 ES G2

Next-generation energy saving brackish water RO membrane
with an advanced 28 mil low dP feed spacer technology

Key Features

- Upgrade in flow performance and salt rejection at low feed pressure operations
- Reduced differential pressure and excellent fouling resistance

Main Benefits

- Enhanced water quality with lower energy consumption
- Reduced cleaning frequency, chemical use, membrane replacements
- Reduced energy consumption and total cost of plant ownership

Ideal Applications

- Industrial process water
- Municipal drinking water
- 2nd pass SWRO

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

D-BW440ESG2-EN-093026

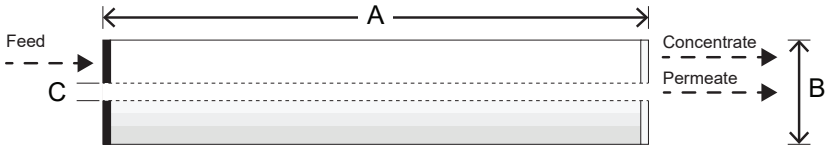
Performance Specifications

Item	Unit	Test Condition A	Test Condition B
Permeate Flow Rate	GPD (m^3/d)	13,500 (51.1)	14,500 (54.9)
Stabilized Salt Rejection	%	99.65	99.70
Minimum Salt Rejection	%	99.5	99.58
Active Membrane Area	ft^2 (m^2)	440 (41)	440 (41)
Feed Spacer Thickness	mil	28, low dP	28, low dP

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

- **Test Condition A:** 2,000 ppm NaCl, 150 psi (10.3 bar) 25°C (77°F), pH 7, Recovery 15%
- **Test Condition B (referential only):** 1,500 ppm NaCl, 150 psi (10.3 bar) 25°C (77°F), pH 7, Recovery 15%
- Permeate flow rates for individual elements may vary by ±20%

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)	600 (41.3)
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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