

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



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

D-BW440ESG2-EN-013026

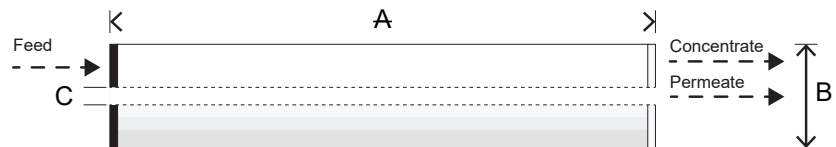
Performance Specifications

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)	
Feed Spacer Thickness, Type	mil	28, low dP	

The specifications outlined above are normalized performances 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. The information and data contained herein are deemed to be accurate and reliable and are offered in good faith, but without guarantee of performance. NanoH2O assumes no liability for results obtained or damages incurred through the application of the information contained

herein. Customer is responsible for determining whether the products and information presented herein are appropriate for the customer's use and for ensuring that customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Specifications subject to change without notice. All rights reserved. © NanoH2O Co., Ltd.

Please visit our website for regional contact information www.nanoh2owater.com