() LG Chem Data Sheet



Brackish Water Reverse Osmosis (RO) Membranes

LG BW 4040 ES Energy Saving

Overview

LG Chem's NanoH₂OTM brackish water RO membranes serve various municipal and industrial applications and have been operating in the major utilities around the world. Incorporating innovative Thin Film Nanocomposite (TFN) technology, all LG BWRO membranes provide superior performance along with intrinsic anti-fouling property and are suitable for applications where consistent and reliable performance is a must.

LG BW ES membranes offer high permeability at low feed pressure, significantly reducing operating costs: suitable for low to medium salinity brackish water applications.

Product Specifications

Active Membrane	Permeate Flow	Stabilized Salt	Minimum Salt	Feed Spacer,	
Area, ft² (m²)	Rate, GPD (m ³ /d)	Rejection, %	Rejection, %	mil	
85 (7.9)	2,500 (9.5)	99.5	99.2	28	

Test Conditions : 2,000 ppm NaCl at 25°C (77°F), 150 psi (10.3 bar), pH 7, Recovery 15%. Permeate flows for individual elements may vary +/-20%.

A,	B,	C,	D,	Weight
mm (in.)	mm (in.)	mm (in.)	mm (in.)	kg (lbs.)
1,016	100	19	29	4.0
(40)	(3.9)	(0.75)	(1.1)	(8.8)

All dimensional information is indicative and for reference purpose only. Please contact LG Chem for detailed technical specification.

Operating Specifications

For more information and operating guidelines, visit <u>www.lgwatersolutions.com</u>

Max. Applied pressure	600 psi (41 bar)		
Max. Chlorine concentration	< 0.1 ppm		
Max. Operating temperature	45°C (113°F)		
pH Range, Continuous (Cleaning)	2-11 (2-12)		
Max. Feedwater turbidity	1.0 NTU		
Max. Feedwater SDI (15 mins)	5.0		
Max. Feed flow	16 gpm (3.6 m ³ /h)		
Max. Pressure drop (ΔP) for each element	15 psi (1.0 bar)		

The Membrane Elements 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, which consists of LG Chem, Ltd <u>Technical Service Bulletins ("TSB")</u> and <u>Technical Applications Bulletins ("TAB")</u> and may be viewed and downloaded at www.lgwatersolutions.com.

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