LG Water Solutions

Energy-Saving

LG Chem



Brackish Water Reverse Osmosis (RO) Element

LG BW 4040 ES

Overview

LG Chem's NanoH$_2$O™ brackish water RO membranes lower water treatment costs by improving energy efficiency and productivity. These thin-film nanocomposite (TFN) membranes feature benign nanomaterials incorporated into the thin-film polyamide layer of a composite membrane. This innovative patented and patent-pending technology significantly increases membrane permeability while matching best-in-class salt rejection.

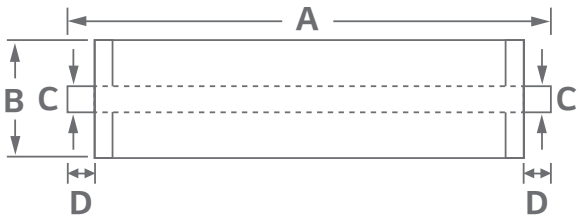
- Superior flux and high salt rejection
- Ideal for low energy applications
- Easy to retrofit existing RO plants

Product Specifications

* 4-inch spiral wound membrane

Flow rate m³/d (GPD)	Minimum NaCl rejection (%)	NaCl rejection (%)	Active area m² (ft²)	Feed spacer (mil)
9.5 (2,500)	99.2	99.5	7.9 (85)	28

Note: The above values are normalized to the following conditions: 2,000 ppm NaCl, 10.3 bar (150 psi), 25°C (77°F), pH 6.5 - 7.0, 15% recovery. Permeate flows for individual elements may vary +/- 20%.



Length A	Element O.D B	Core tube I.D C	Core tube Extension D	Weight kg (lbs.)
1,016 mm (40 in.)	100 mm (3.9 in.)	19 mm (0.75 in.)	27 mm (1.05 in.)	3.6 (8.0)

Operating Specifications

For more information and operating guidelines, visit www.LGwatersolutions.com

Max. Operating pressure:	41 bar (600 psig)
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:	3.6 m³/h (16 GPM)

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NanoH$_2$O™