

High Rejection

Brackish Water Reverse Osmosis (RO) Element

LG BW 4040 R



Overview

LG Chem's NanoH₂O™ 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 technology significantly increases membrane permeability while offering superior salt rejection.

- Matches industry-standard flux and rejection
- Easy to retrofit existing systems

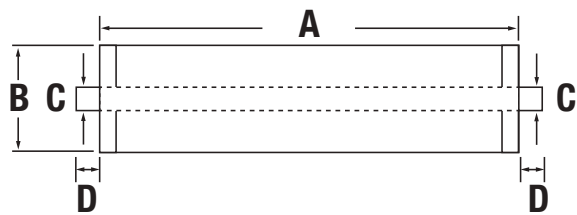


Product Specifications

Configuration: 4-inch spiral wound
 Membrane Polymer: Thin-film nanocomposite (TFN) polyamide

Part Number	Permeate flow rate m ³ /d (gpd)	Minimum NaCl Rejection %	Stabilized NaCl Rejection %	Active Membrane Area m ² (ft ²)	Feed Spacer mil
LG BW 4040 R	9.5 (2,500)	99.3	99.6	7.9 (85)	28

Note: The above values are normalized to the following conditions: 2,000 ppm NaCl, 15.5 bar (225 psi), 25°C (77°F), pH 6.5 - 7.0, 15% recovery. Permeate flows for individual elements may vary +/- 20%.



Part Number	Length A	Element O.D. B	Core Tube I.D. C	Core Tube Extension D	Weight kg (lbs.)
LG BW 4040 R	1016 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 m ³ /h (16 GPM)

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