

Energy-Saving Brackish Water Reverse Osmosis (RO) Element LG BW 4040 ES



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 and patent-pending technology significantly increases membrane permeability while matching best-in-class salt rejection.

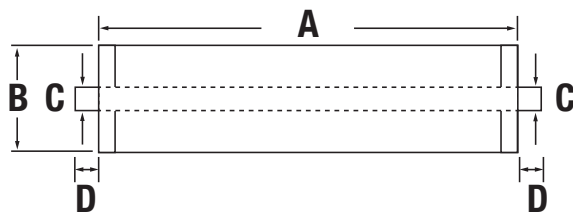
- Superior flux and high salt rejection
- Ideal for low energy applications
- Easy to retrofit existing RO plants

Product Specifications

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 ES	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%.



Part Number	Length A	Element O.D. B	Core Tube I.D. C	Core Tube Extension D	Weight kg (lbs.)
LG BW 4040 ES	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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LG Twin Towers • 128 Yeoui-daero, Yeongdeungpo-gu • Seoul, 150-721 • Republic of Korea
Tel: +82 2 3773 7265 • Fax: +82 2 3773 8798 • www.LGwatersolutions.com

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