Energy-Saving

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



Overview

LG Chem's NanoH $_2O^{TM}$ 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



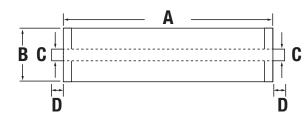
Product Specifications

Configuration: 4-inch spiral wound

Membrane Polymer: Thin-film nanocomposite (TFN) polyamide

Part Number	Permeate flow rate m³/d (gpd)	Minimum NaCl Rejection %	Stabilized NaCl Rejection %	Active Membrane Area m² (ft²)	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	100 mm	19 mm	27 mm	3.6
	(40 in.)	(3.9 in.)	(0.75 in.)	(1.05 in.)	(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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