Anti-Fouling

Brackish Water Reverse Osmosis (RO) Element

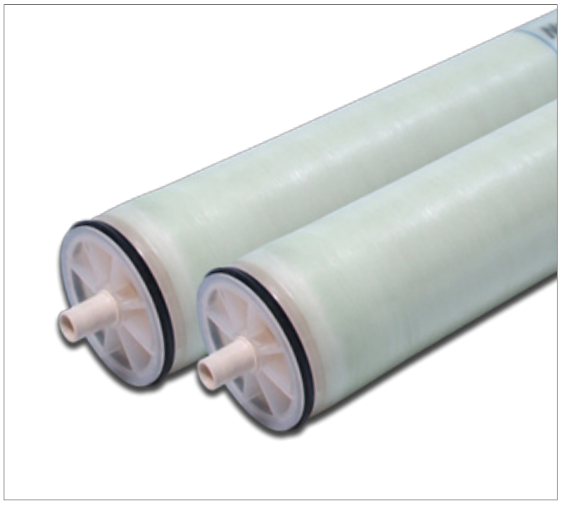
LG BW 4040 AFR

LG Chem

Overview

LG Chem's anti-fouling (AF) brackish water NanoH_2O™ RO membranes feature proprietary chemistry that reduces performance deterioration due to organic and biological fouling. Even with higher-fouling feed water, LG Chem's unique AF formulation maintains membrane stability and performance without compromising the highly permeable nature of the membrane's surface.

- High rejection membrane that delivers superior water quality
- Excellent fouling resistance
- Well suited for low quality feed water across varying operating conditions

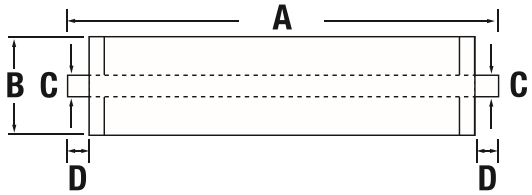


Product Specifications

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 %	Feed Spacer mil
LG BW 4040 AFR	8.7 (2,300)	99.3	99.6	34

Note: The above values are normalized to the following conditions: 2,000 ppm NaCl, 15.5 bar (225 psi), 25°C (77°F), pH 8, 15% recovery. Permeate flows for individual elements may vary +/- 20%.



Part Number	Total Length A	Element O.D. B	Core Tube I.D. C	Core Tube Extension D	Weight kg (lbs.)
LG BW 4040 AFR	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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NanoH_2O

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