

# Water Tech

## Anti-Fouling

### Brackish Water Reverse Osmosis (RO) Element LG BW 4040 AFR



#### Overview

LG Chem's anti-fouling (AF) brackish water NanoH<sub>2</sub>O™ 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.

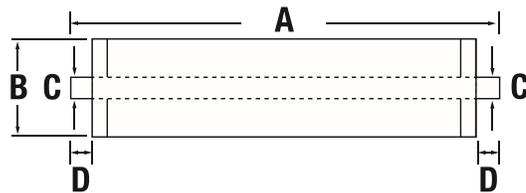
- High rejection membrane that delivers superior water quality
- Excellent fouling resistance
- Well suited for low quality feed water across varying operating conditions

#### Product Specifications

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

Part Number	Permeate flow rate m <sup>3</sup> /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](http://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 <sup>3</sup> /h (16 GPM)

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