

# High Rejection

## Brackish Water Reverse Osmosis (RO) Element

### LG BW 400 R



### Overview

LG NanoH<sub>2</sub>O's brackish water RO membranes lower the cost of desalination 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 offering superior salt rejection.

- Best-in-class flux
- Well suited for low quality feed water or varying operating conditions

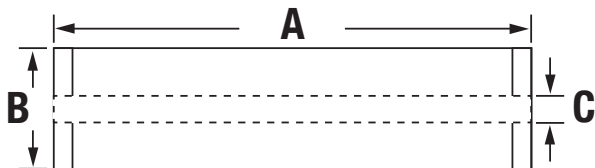


### Product Specifications

Configuration: 8-inch spiral wound  
 Membrane Polymer: Thin-film nanocomposite (TFN) polyamide

Product Number	Permeate flow rate m <sup>3</sup> /d (gpd)	Minimum NaCl Rejection %	Stabilized NaCl Rejection %	Active Membrane Area m <sup>2</sup> (ft <sup>2</sup> )	Feed Spacer mil
LG BW 400 R	39.7 (10,500)	99.5	99.6	37 (400)	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 +/- 15%.



Part Number	Length A	Element O.D. B	Perm Tube I.D. C	Weight kg (lbs.)
LG BW 400 R	1016 mm (40 in.)	200 mm (7.9 in.)	28.6 mm (1.125 in.)	16.4 (36)

### Operating Specifications

For more information and operating guidelines, visit [www.lg-nanoh2o.com](http://www.lg-nanoh2o.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:	19 m <sup>3</sup> /h (85 GPM)
Max. Pressure Drop:	1.0 bar (15 psig)

The information and data contained herein are deemed to be accurate and reliable and are offered in good faith, but without guarantee of performance. LG NanoH<sub>2</sub>O assumes no liability for results obtained or damages incurred through the application of the information contained herein. Customer is responsible for determining whether the products and information presented herein are appropriate for the customer's use and for ensuring that customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Specifications subject to change without notice. LG NanoH<sub>2</sub>O is a wholly owned company of LG Chem, Ltd. All rights reserved. © 2015 LG NanoH<sub>2</sub>O, Inc.

