

# High Rejection

## Brackish Water Reverse Osmosis (RO) Element

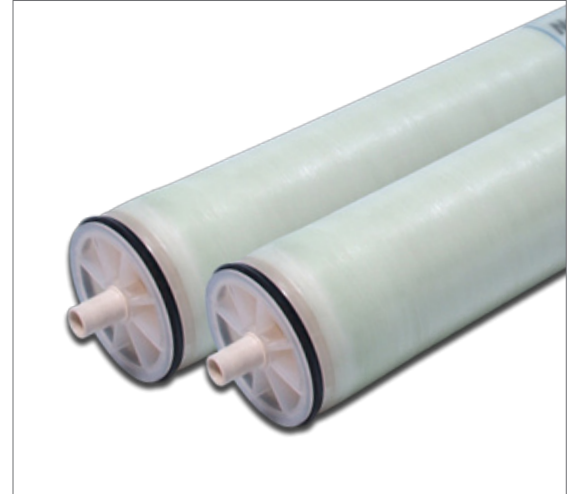
### LG BW 4040 R



### Overview

LG Chem's NanoH<sub>2</sub>O™ 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 technology significantly increases membrane permeability while offering superior salt rejection.

- Matches industry-standard flux and rejection
- Easy to retrofit existing systems

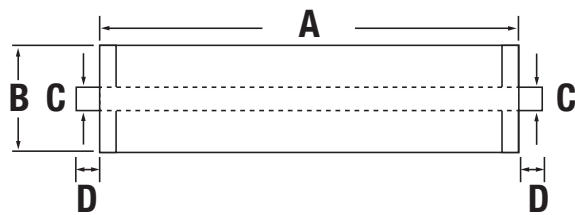


### Product Specifications

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

| Part Number  | Permeate flow rate<br>m <sup>3</sup> /d (gpd) | Minimum NaCl Rejection<br>% | Stabilized NaCl Rejection<br>% | Active Membrane Area<br>m <sup>2</sup> (ft <sup>2</sup> ) | Feed Spacer<br>mil |
|--------------|---|-----------------------------|--------------------------------|---|--------------------|
| LG BW 4040 R | 9.5 (2,500)                                   | 99.3                        | 99.6                           | 7.9 (85)  | 28                 |

Note: The above values are normalized to the following conditions: 2,000 ppm NaCl, 15.5 bar (225 psi), 25°C (77°F), pH 6.5 - 7.0, 15% recovery. Permeate flows for individual elements may vary +/- 20%.



| Part Number  | Length<br>A         | Element<br>O.D.<br>B | Core Tube<br>I.D.<br>C | Core Tube<br>Extension<br>D | Weight<br>kg (lbs.) |
|--------------|---------------------|----------------------|------------------------|-----------------------------|---------------------|
| LG BW 4040 R | 1016 mm<br>(40 in.) | 100 mm<br>(3.9 in.)  | 19 mm<br>(0.75 in.)    | 27 mm<br>(1.05 in.)         | 3.6<br>(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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