

# Data Sheet



**Brackish Water  
Reverse Osmosis (RO) Membranes**

**LG BW 4040 R**  
High Rejection

## Overview

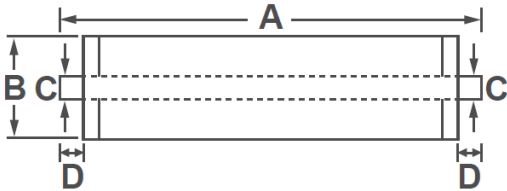
LG Chem's NanoH<sub>2</sub>O™ brackish water RO membranes serve various municipal and industrial applications and have been operating in the major utilities around the world. Incorporating innovative Thin Film Nanocomposite (TFN) technology, all LG BWRO membranes provide superior performance along with intrinsic anti-fouling property and are suitable for applications where consistent and reliable performance is a must.

LG BW R membranes offer a combination of high rejection and reliability: suitable for high salinity brackish water and wastewater reuse applications.

## Product Specifications

| Active Membrane Area, ft <sup>2</sup> (m <sup>2</sup> ) | Permeate Flow Rate, GPD (m <sup>3</sup> /d) | Stabilized Salt Rejection, % | Minimum Salt Rejection, % | Feed Spacer, mil |
|---|---|------------------------------|---------------------------|------------------|
| 85 (7.9)  | 2,500 (9.5)                                 | 99.6                         | 99.3                      | 28               |

Test Conditions : 2,000 ppm NaCl at 25°C (77°F), 225 psi (15.5 bar), pH 7, Recovery 15%.  
Permeate flows for individual elements may vary +/-20%.



| A, mm (in.) | B, mm (in.) | C, mm (in.) | D, mm (in.) | Weight kg (lbs.) |
|-------------|-------------|-------------|-------------|------------------|
| 1,016 (40)  | 100 (3.9)   | 19 (0.75)   | 29 (1.1)    | 4.0 (8.8)        |

## Operating Specifications

|   |                                |
|---|--------------------------------|
| <b>Max. Applied pressure</b>                    | 600 psi (41 bar)               |
| <b>Max. Chlorine concentration</b>              | < 0.1 ppm                      |
| <b>Max. Operating temperature</b>               | 45°C (113°F)                   |
| <b>pH Range, Continuous (Cleaning)</b>          | 2-11 (2-12)                    |
| <b>Max. Feedwater turbidity</b>                 | 1.0 NTU                        |
| <b>Max. Feedwater SDI (15 mins)</b>             | 5.0                            |
| <b>Max. Feed flow</b>                           | 16 gpm (3.6 m <sup>3</sup> /h) |
| <b>Max. Pressure drop (ΔP) for each element</b> | 15 psi (1.0 bar)               |

The Membrane Elements performance is expressly conditioned on Buyer's storing, installing, operating, and maintaining Product in accordance with industry-accepted good practices and Seller's written instructions provided in the Seller's Technical Manual, which consists of LG Chem, Ltd [Technical Service Bulletins \("TSB"\)](#) and [Technical Applications Bulletins \("TAB"\)](#) and may be viewed and downloaded at [www.lgwatersolutions.com](http://www.lgwatersolutions.com).

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