



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

**LG BW 4040 UES**  
Ultra Low Energy



## Overview

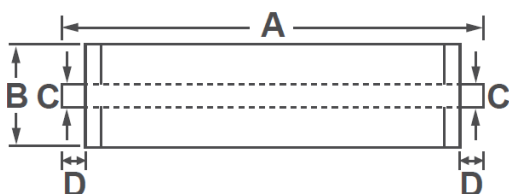
LG Chem's NanoH<sub>2</sub>O™ brackish water RO membranes serve various municipal and industrial applications and have been operating in the major utilities around the world. Incorporating innovative Thin Film Nanocomposite (TFN) technology, all LG BWRO membranes provide superior performance along with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

LG BW UES membranes offer high permeability at ultra-low feed pressure, significantly reducing operating costs: suitable for low salinity brackish water 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)	2,700 (10.2)	99.0	98.0	28

Test Conditions : 500 ppm NaCl at 25°C (77°F), 100 psi (6.9 bar), pH 7, Recovery 15%.  
Permeate flows for individual elements will vary with no less than 85% of the specified datasheet flow.



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)

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