

# Data Sheet



Brackish Water  
Reverse Osmosis (RO) Membranes  
**LG BW 4040 UES**



## Overview

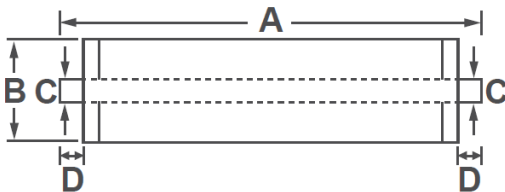
LG Chem's NanoH<sub>2</sub>O™ brackish water RO membranes serve various municipal and industrial applications and have been operating in the major utilities around the world. LG BWRO membranes, all incorporated with innovative Thin Film Nanocomposite (TFN) technology, are offered in industry standard configurations and can easily fit into existing and new RO plants.

LG BW UES (Ultra Energy Saving) 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 [O.D.] mm (in.)	C [O.D.] 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

Max. Applied pressure	600 psi (41 bar)
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	16 gpm (3.6 m <sup>3</sup> /h)
Max. Pressure drop (ΔP) for each element	15 psi (1.0 bar)

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