

LG Water Solutions

Data Sheet



Brackish Water Reverse Osmosis (RO) Membranes

LG BW 4040 ES



Overview

LG Chem's NanoH₂O™ brackish water RO membranes serve various municipal and industrial applications. LG BWRO, all incorporated with innovative Thin Film Nanocomposite (TFN) technology, is offered in industry standard configuration easily fit into existing or new RO plants. Global clients in more than 50 countries have already experienced LG BWRO and superior quality and performance of the membranes lead to repeat customers.

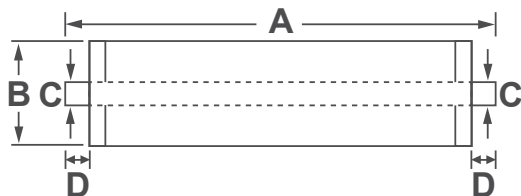
LG BW ES(Energy Saving) membranes offer significant energy savings with good water quality and robustness for RO systems operating with low to medium TDS brackish waters.

Product Specifications

* 4-inch spiral wound membrane

Active Membrane Area ft ² (m ²)	Permeate Flow Rate GPD (m ³ /d)	Minimum Salt Rejection (%)	Stabilized Salt Rejection (%)	Feed Spacer (mil)
85 (7.9)	2,500 (9.5)	99.2	99.5	28

Test Conditions : 2,000ppm NaCl @ 25°C(77°F), 150psi (10.3bar), pH 8, 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)	28 (1.1)	4 (9)

Operating Specifications

For more information and operating guidelines, visit www.LGwatersolutions.com

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

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