LG Chem

LG Water Solutions

Data Sheet

Brackish Water
Reverse Osmosis (RO) Membranes
LG BW 4040 R

Overview

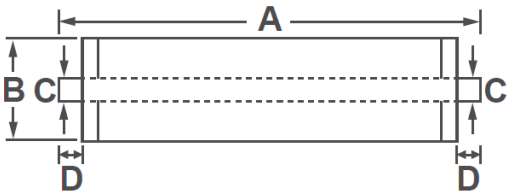
LG Chem's NanoH_2O™ brackish water RO membranes serve various municipal and industrial applications and have been operating in the major utilities around the world. LG BWRO membranes, all incorporated with innovative Thin Film Nanocomposite (TFN) technology, are offered in industry standard configurations and can easily fit into existing and new RO plants.

LG BW R (High Rejection) membranes offer a combination of high rejection, reliability, and durability; suitable for high salinity brackish water and wastewater reuse applications.

Product Specifications

Active Membrane Area, ft² (m²)	Permeate flow rate, GPD (m³/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 [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^3/h)
Max. Pressure drop (ΔP) for each element	15 psi (1.0 bar)

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