LG Chem

LG Water Solutions

Data Sheet

Brackish Water Reverse Osmosis (RO) Membranes

LG BW 400 UES

Ultra Low Energy

Overview

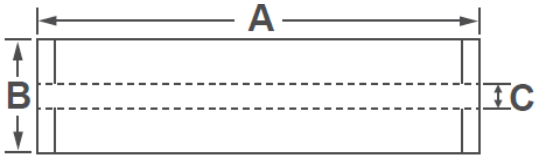
LG Chem's NanoH_2O™ brackish water RO membranes serve various municipal and industrial applications and have been operating in the major utilities around the world. Incorporating innovative Thin Film Nanocomposite (TFN) technology, all LG BWRO membranes provide superior performance along with intrinsic 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, ft² (m²)	Permeate flow rate, GPD (m³/d)	Stabilized Salt Rejection, %	Minimum Salt Rejection, %	Feed Spacer, mil
400 (37)	11,500 (43.5)	99.0	98.0	34

Test Conditions : 2,000 ppm NaCl at 25°C (77°F), 125 psi (8.6 bar), pH 7, Recovery 15%. Permeate flows for individual elements may vary +/-20%.



A, mm (in.)	B, mm (in.)	C, mm (in.)	Weight, kg (lbs.)
1,016 (40)	200 (7.9)	28.6 (1.125)	16 (35)

Operating Specifications

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

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	75 gpm (17 m^3/h)
Max. Pressure drop (ΔP) for each element	15 psi (1.0 bar)

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Contact LG Water Solutions www.lgwatersolutions.com l waterinfo@lgchem.com

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Referential Performance at 500 ppm NaCl

Type	Pressure	Projected performance*
LG BW 400 UES	100 psi (6.89 bar)	11,300 GPD, 99.3%
	110 psi (7.58 bar)	12,500 GPD, 99.4%

Test Conditions : 100/110 psi, 500 ppm NaCl at 25°C (77°F), pH 7, Recovery 15%. All calculated data is obtained from Q+ software.

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NanoH2O™