Chem LG Chem Data Sheet

LG Water Solutions



Seawater Reverse Osmosis (RO) Membranes



LG SW 440 GR

Overview

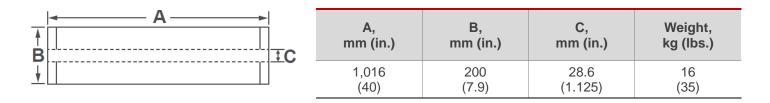
LG Chem's NanoH₂O[™] seawater RO membranes, incorporated with innovative Thin Film Nanocomposite (TFN) technology, reduce the cost of desalination while delivering superior water quality. Our seawater RO membranes provide industry leading salt rejection and produce 20% more flow than membranes manufactured with conventional technologies. We continue to leverage the technological advantages of our seawater RO membranes to expand our market share accruing more than 1,000 Million Liter per Day (MLD) projects backlog for the last two years.

LG SW GR (Great Rejection) membranes offer a combination of high rejection and low energy requirements to reduce the total cost of desalination; suitable for high salinity seawater applications.

Product Specifications

Active Membrane	Permeate flow	Stabilized Salt	Minimum Salt	Boron	Feed Spacer,
Area, ft ² (m ²)	rate, GPD (m³/d)	Rejection, %	Rejection, %	Rejection, %	mil
440 (41)	8,250 (31.2)	99.85	99.7	93	28

Test Conditions : 32,000 ppm NaCl at 25°C (77°F), 800 psi (55 bar), pH 8, Recovery 8%. Permeate flows for individual elements may vary +/-15%.



Operating Specifications

Max. Applied pressure	1,200 psi (82.7 bar)	
Max. Chlorine concentration	< 0.1 ppm	
Max. Operating temperature	45°C (113°F)	
pH Range, Continuous (Cleaning)	2-11 (2-13)	
Max. Feedwater turbidity	1.0 NTU	
Max. Feedwater SDI (15 mins)	5.0	
Max. Feed flow	75 gpm (17 m ³ /h)	
Min. Ratio of concentrate to permeate flow for any element	5 : 1	
Max. Pressure drop (ΔP) for each element	15 psi (1.0 bar)	

The information and data contained herein are deemed to be accurate and reliable and are offered in good faith, but without guarantee of performance. LG Chem assumes no liability for results obtained or damages incurred through the application of the information contained herein. Customer is responsible for determining whether the products and information presented herein are appropriate for the customer's use and for ensuring that customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Specifications subject to change without notice. NanoH₂O is the Trademark of The LG Water Solutions or an affiliated company of LG Chem. All rights reserved. C LG Chem, Ltd.



