Chem LG Chem Data Sheet

LG Water Solutions





Seawater Reverse Osmosis (RO) Membranes

LG SW 440 R G2

Overview

The next generation LG SW G2 membranes have achieved record-breaking salt rejection, improving the product quality up to 45% compared with the conventional technology. With enhanced Thin Film Nanocomposite (TFN) technology, LG SW G2 membranes can significantly reduce the cost of desalination.

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

LG SW G2 Benefits

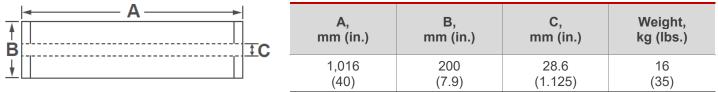
- Improved permeate quality without increasing operating pressure
- Reduced energy cost without sacrificing the permeate quality
- Reduced capital and operation costs for multi-pass SWRO systems

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)	9,900 (37.5)	99.88	99.75	93	28

Test Conditions : 32,000 ppm NaCl, 5 ppm boron at 25°C (77°F), 800 psi (55 bar), pH 8, Recovery 8%.

Permeate flows for individual elements may vary +/-15%.



All dimensional information is indicative and for reference purpose only. Please contact LG Chem for detailed technical specification.

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)

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