





Seawater Reverse Osmosis (RO) Membranes

LG SW 440 SR 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 SR (Super Rejection) membranes offer the highest rejection for the best product water quality; suitable for 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 <sup>2</sup> (m <sup>2</sup> )	Rate, GPD (m <sup>3</sup> /d)	Rejection, %	Rejection, %	Rejection, %	mil
440 (41)	6,600 (25.0)	99.89	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%.

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

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

## **Operating Specifications**

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

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 <sup>3</sup> /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 Membrane Elements performance is expressly conditioned on Buyer's storing, installing, operating, and maintaining Product in accordance with industry-accepted good practices and Seller's written instructions provided in the Seller's Technical Manual, which consists of LG Chem, Ltd <u>Technical Service Bulletins ("TSB")</u> and <u>Technical Applications Bulletins ("TAB")</u> and may be viewed and downloaded at www.lgwatersolutions.com.

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. NanoH<sub>2</sub>O is the Trademark of The LG Water Solutions or an affiliated company of LG Chem. All rights reserved. © LG Chem, Ltd.



Headquarter: 54/18 Bui Quang La, Ward 12, Go Vap District, HCMC, Viet Nam Office: 12 DHT10B, Dong Hung Thuan Ward, District 12, HCMC, Viet Nam Phone: (028) 6258 5368 - (028) 6291 9568 Email: info@atswatertechnology.com Website: www.atswatertechnology.com