

Nano:H₂O™



Product Data Sheet

LG SW 440 R G2

Industry-leading seawater RO membrane with balanced salt rejection and productivity

- Benefits of LG Chem SW G2 membrane**
- ▶ **Better permeate quality** without increasing operating pressure
 - ▶ **Lower energy costs** without reducing permeate quality
 - ▶ **Reduced CAPEX and OPEX** for multi-pass SWRO systems

Key Features

- Superior salt rejection
- High boron rejection
- High permeate flow rate

Main Benefits

- A combination of high permeate water quality and energy efficiency

Ideal Applications

- Single and multi-pass SWRO design requiring balanced permeate water quality and energy efficiency

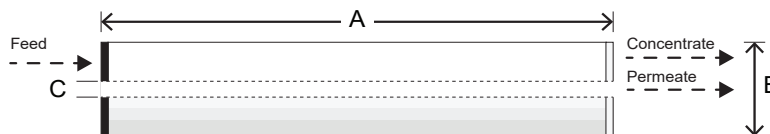
Performance Specifications

Item	Unit	Value
Permeate Flow Rate	GPD (m ³ /day)	9,900 (37.5)
Stabilized Salt Rejection	%	99.88
Minimum Salt Rejection	%	99.75
Stabilized Boron Rejection	%	93
Active Membrane Area	ft ² (m ²)	440 (41)
Feed Spacer Thickness	mil	28

The specifications outlined above are normalized performances based on the following test conditions:

- **Test Conditions:** 32,000 ppm NaCl, 5 ppm Boron, 800 psi (55.1 bar), 25°C (77°F), pH 8, Recovery 8%
- Permeate flow rates for individual elements may vary by ±15%

Dimensions and Weight



Dimensions: mm (in)			Wet Weight: kg (lbs)
A	B	C	
Element Length	Element O.D.	Core Tube I.D.	16 (35)
1,016 (40)	200 (7.9)	28.6 (1.125)	

Operating Specifications

Item	Unit	Value
Maximum Applied Pressure	psi (bar)	1,200 (82.7)
Maximum Chlorine Concentration	ppm	< 0.1
Maximum Operating Temperature	°C (°F)	45 (113)
pH Range, Continuous Operation		2–11
pH Range, Cleaning		2–13
Maximum Feed Water Turbidity	NTU	1.0
Maximum Feed Water SDI ₁₅		5.0
Maximum Feed Flow	gpm (m ³ /h)	75 (17)
Maximum Pressure Drop (ΔP) for Each Element	psi (bar)	15 (1.0)



This product is certified to NSF/ANSI/CAN Standard 61 for drinking water systems

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 Technical Service Bulletins ("TSB") and Technical Applications Bulletins ("TAB") 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. NanoH2O is the Trademark of The LG Water Solutions or an affiliated company of LG Chem. All rights reserved. © LG Chem, Ltd.

Please visit our website for regional contact information www.lgwatersolutions.com