

Nano:H₂O™



Product Data Sheet

LG SW 440 GR G2

Industry-leading salt rejection seawater RO membrane with excellent energy efficiency

- 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
- Superior boron rejection

Main Benefits

- A combination of excellent permeate water quality and energy efficiency
- Meets high water quality standards with lower system CAPEX requirement

Ideal Applications

- Single-pass SWRO design requiring high permeate water quality

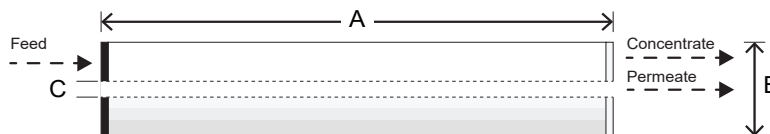
Performance Specifications

Specification	Unit	Value
Permeate Flow Rate	GPD (m ³ /day)	8,250 (31.2)
Stabilized Salt Rejection	%	99.89
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)	

All dimensional information is indicative and for reference only. Please contact LG Water Solutions for detailed technical specifications.

Operating Specifications

Specification	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)

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

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