

Nano:H<sub>2</sub>O™



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

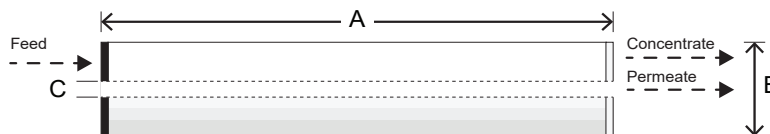
**Performance Specifications**

Specification	Unit	Value
Permeate Flow Rate	GPD (m <sup>3</sup> /day)	9,900 (37.5)
Stabilized Salt Rejection	%	99.88
Minimum Salt Rejection	%	99.75
Stabilized Boron Rejection	%	93
Active Membrane Area	ft <sup>2</sup> (m <sup>2</sup> )	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 <sub>15</sub>		5.0
Maximum Feed Flow	gpm (m <sup>3</sup> /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

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