

Nano:H<sub>2</sub>O™



## Product Data Sheet

# LG SW 400 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
- Improved fouling resistance due to thicker feed spacer

### 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

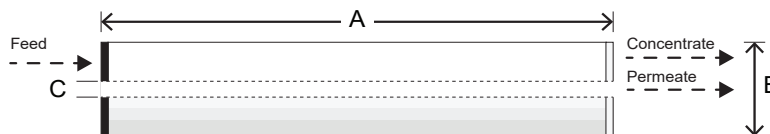
### Performance Specifications

Item	Unit	Value
Permeate Flow Rate	GPD (m <sup>3</sup> /day)	9,000 (34.1)
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> )	400 (37)
Feed Spacer Thickness	mil	34

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 <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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