

Data Sheet



**Seawater
Reverse Osmosis (RO) Membranes
LG SW 400 SR G2**

Overview

The next generation LG SW G2 membranes have achieved record-breaking 99.89% 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.

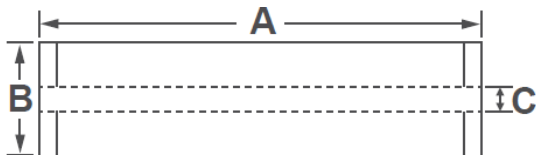
LG SW SR (Super Rejection) membranes offer the highest rejection for the best product water quality; suitable for high salinity seawater applications.

- 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 Area, ft ² (m ²) | Permeate flow rate, GPD (m ³ /d) | Stabilized Salt Rejection, % | Minimum Salt Rejection, % | Boron Rejection, % | Feed Spacer, mil |
|---|---|------------------------------|---------------------------|--------------------|------------------|
| 400 (37) | 6,000 (22.7) | 99.89 | 99.75 | 93 | 28 or 34 |

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

Operating Specifications

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

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|---|-------------------------------|
| 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 ³ /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) |

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