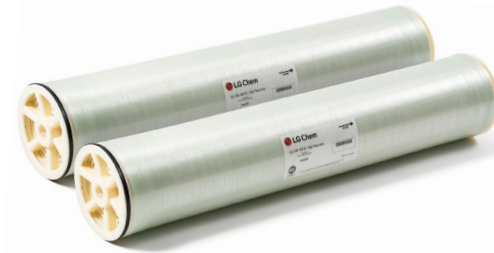


LG Water Solutions

High Rejection



Seawater Reverse Osmosis (RO) Element LG SW 400 R



Overview

LG Chem's thin-film nanocomposite (TFN) membranes lower water treatment costs by improving energy efficiency and productivity. These membranes feature benign nanomaterials incorporated into the thin-film polyamide layer of a composite membrane. This innovative patent-pending technology significantly increases membrane permeability.

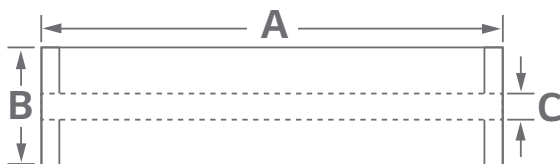
- Industry-standard flux with highest salt rejection
- Standard 8-inch spiral wound element design
- Easy to retrofit existing RO plants
- NSF Standard 61 Certified

Product Specifications

* 8-inch spiral wound membrane

| Flow rate m ³ /d (GPD) | Minimum NaCl rejection (%) | NaCl rejection (%) | Boron rejection (%) | Active area m ² (ft ²) | Feed spacer (mil) |
|--------------------------------------|-------------------------------|-----------------------|------------------------|--|----------------------|
| 34 (9,000) | 99.7 | 99.85 | 93 | 37 (400) | 28 or 34 |

Note: The above values are normalized to the following conditions: 32,000 ppm NaCl, 5 ppm boron, 5.5 MPa (800 psi), 25°C (77°F), pH 8, 8% recovery. Permeate flows for individual elements may vary +/- 15%.



| Length A | Element O.D. B | Perm tube I.D. C | Weight kg (lbs.) |
|----------------------|---------------------|------------------------|---------------------|
| 1,016 mm (40 in.) | 200 mm (7.9 in.) | 28.6 mm (1.125 in.) | 16.4 (36) |

Operating Specifications

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

| | |
|---|-------------------------------|
| Max. Applied pressure: | 82.7 bar (1,200 psig) |
| 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: | 17 m ³ /h (75 GPM) |
| Min. Ratio of concentrate to permeate flow for any element: | 5:1 |
| Max. Pressure drop (ΔP) for each element: | 1.0 bar (15 psi) |

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