# **High Rejection**

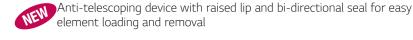
### Seawater Reverse Osmosis (RO) Element LG SW 440 SR



#### Overview

LG NanoH<sub>2</sub>O's thin-film nanocomposite (TFN) membranes lower the cost of desalination 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





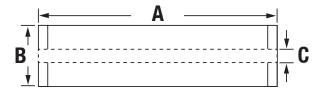
#### **Product Specifications**

Configuration: 8-inch spiral wound

Membrane Polymer: Thin-film nanocomposite (TFN) polyamide

Product Number	Permeate flow	Minimum	Stabilized	Active Membrane	Feed Spacer	Stabilized Boron
	rate	NaCl Rejection	NaCl Rejection	Area	mil	Rejection
	m³/d (gpd)	%	%	m² (ft²)		%
LG SW 440 SR	25 (6,600)	99.7	99.85	41 (440)	28	93

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%.



Part Number	Length A	Element O.D. B	Perm Tube I.D. C	Weight kg (lbs.)
LG SW 440 SR	1,016 mm	200 mm	28.6 mm	16.4
	(40 in.)	(7.9 in.)	(1.125 in.)	(36)

## **Operating Specifications**

#### For more information and operating quidelines, visit www.lg-nanoh2o.com

Max. Applied Pressure:	8.27 MPa (1200 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:	18.0 m³/h (80 GPM)		
Min. Ratio of Concentrate to Permeate Flow for any Element:	5:1		
Max. Pressure Drop ( $\Delta P$ ) for Each Element:	1 bar (15 psi)		

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