Overview

LG Chem's thin-film nanocomposite (TFN) membranes lower water treatment costs by improving energy efficiency and productivity. LG Chem's line of NanoH $_2O^{\text{TM}}$ RO membranes features benign nanomaterials incorporated into the thin-film polyamide layer of a composite membrane. This innovative patented technology significantly increases membrane permeability while matching best-in-class salt rejection.

"ES": Energy-Saving Membranes

• Well suited for low temperature seawater or two-pass systems

"GR", "SR", "R": High Rejection Membranes

· Well suited for high quality permeate requirements or reducing size of second pass

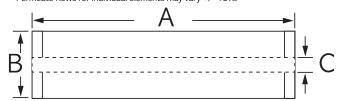
Product Specifications

Configuration: 8-inch spiral wound Membrane Polymer: Thin-film nanocomposite (TFN) polyamide



^{*400} square-foot elements available with either 28 or 34 mil feed spacer

Note: The above values are normalized to the following conditions: 32000 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	O.D.	I.D.	Weight
A	B	C	kg (lbs.)
1016 mm	200 mm	28.6 mm	16.4
(40 in.)	(7.9 in.)	(1.125 in.)	(36)



Operating Specifications

For more information and operating guidelines, visit www.LGwatersolutions.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 (2-12)
Max. Feedwater Turbidity:	1.0 NTU
Max. Feedwater SDI (15 mins):	5.0
Max. Pressure Drop (Δ P) for Each Element :	0.7 bar (10 psi)
pH Range, Continuous (Cleaning): Max. Feedwater Turbidity: Max. Feedwater SDI (15 mins):	2-11 (2-12) 1.0 NTU 5.0

