

Overview

LG Chem's line of NanoH₂O™ RO membranes features benign nanomaterials incorporated into the thin-film polyamide layer of a composite membrane that improve the membrane's energy efficiency and productivity. The full line of anti-fouling brackish water RO membranes also features proprietary chemistry that inhibits the adsorption of biological and organic materials while maintaining membrane stability and performance.

"ES" : Energy-Saving Membranes

- Well suited for low saline water or municipal potable water

"R" : High Rejection Membranes

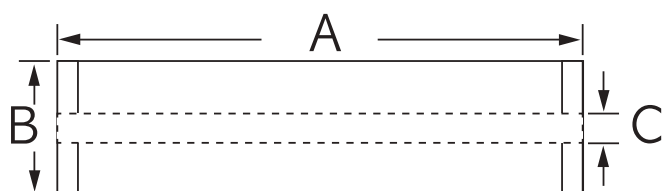
- Well suited for high quality permeate requirements or reducing size of second pass



Product Specifications

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

Test Conditions	Product number	Flow Rate m ³ /d (GPD)	Minimum NaCl Rejection (%)	Stabilized NaCl Rejection (%)	Active area m ² (ft ²)	Feed Spacer Mil
<ul style="list-style-type: none"> • 10.3 bar (150 psi) • 25°C (77°F) • pH 8 • 15% recovery • 2,000 ppm NaCl 	LG BW 400 ES	39.7 (10,500)	99.5	99.6	37 (400)	34
	LG BW 440 ES	43.7 (11,550)	99.5	99.6	41 (440)	28
<ul style="list-style-type: none"> • 15.5 bar (225 psi) • 25°C (77°F) • pH 8 • 15% recovery • 2,000 ppm NaCl 	LG BW 400 R	39.7 (10,500)	99.5	99.6	37 (400)	34
	LG BW 440 R	43.7 (11,550)	99.5	99.6	41 (440)	28



Length A	Element O.D. B	Perm Tube I.D. C	Weight kg (lbs.)
1016 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 :	4.14 MPa (600psi)
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 (ΔP) for Each Element :	0.7 bar (10 psi)

