

# Nano H<sub>2</sub>O"



### Key Features

- High permeate flow rate
- Best-in-class salt rejection for Energysaving SWRO membranes
- Improved fouling resistance due to thicker feed spacer

#### **Main Benefits**

- · Improved system productivity
- Reduced feed pressure and energy consumption
- Well-proven and long-lasting reliability

#### **Ideal Applications**

• Multi-pass desalination plant design

This product is certified to

As the exclusive producer of the breakthrough Thin-Film Nanocomposite

(TFN) technology, LG Chem's NanoH2O<sup>™</sup> seawater and brackish water RO membranes leverage this proprietary innovation to enhance

membrane performance

NSF/ANSI/CAN Standard 61 for drinking water systems

## Product Data Sheet

**LG SW 400 ES** 

Energy-saving seawater RO membrane with proven, long-lasting

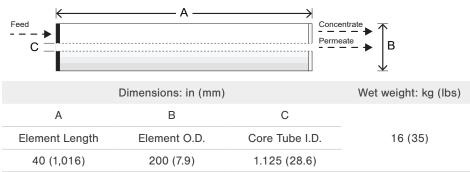
## Performance Specifications

Specification	Unit	Test condition A	Test condition B
Permeate Flow Rate	GPD (m <sup>3</sup> /d)	6,800 (25.7)	13,700 (51.9)
Stabilized Salt Rejection	%	99.6	99.8
Minimum Salt Rejection	%	99.3	99.6
Stabilized Boron Rejection	%	81	89
Active Membrane Area	ft² (m²)	400 (37)	
Feed Spacer Thickness	mil	34	

The specifications outlined above are normalized performances based on the following test conditions:

- Test Condition A: 32,000 ppm NaCl, 5 ppm Boron, 600 psi (41.3 bar), 25°C (77°F), pH 8, Recovery 8%
  - Permeate flow rates for individual elements may vary by  $\pm 20\%$
- Test Condition B (referential only): 32,000 ppm NaCl, 5 ppm Boron, 800 psi (55.1 bar), 25°C (77°F), pH 8, Recovery 8%
  - Permeate flow rates for individual elements may vary by  $\pm 15\%$

#### **Dimensions and Weight**





**Operating Specifications** 

Item	Unit	Value
Maximum Applied Pressure	psi (bar)	1,200 (82.7)
Maximum Chlorine Concentration	ppm	< 0.1
Maximum Operating Temperature	°C (°F)	45 (113)
pH Range, Continuous Operation		2-11
pH Range, Cleaning		2-13
Maximum Feed Water Turbidity	NTU	1.0
Maximum Feed Water SDI15		5.0
Maximum Feed Flow	gpm (m <sup>3</sup> /h)	75 (17)
Maximum Pressure Drop (ΔP) for Each Element	psi (bar)	15 (1.0)

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