

Nano:H<sub>2</sub>O™



**Key Features**

- Balanced salt rejection and productivity

**Main Benefits**

- A combination of excellent water quality and energy efficiency
- Well-proven and long-lasting reliability

**Ideal Applications**

- Small to medium sized SWRO systems
- Commercial applications

Product Data Sheet

# LG SW 4040 R

High-rejection seawater RO membrane for commercial applications

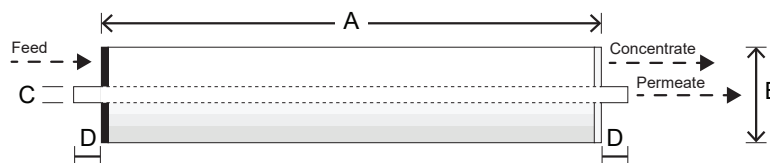
**Performance Specifications**

Specification	Unit	Value
Permeate Flow Rate	GPD (m <sup>3</sup> /day)	1,950 (7.4)
Stabilized Salt Rejection	%	99.7
Minimum Salt Rejection	%	99.5
Active Membrane Area	ft <sup>2</sup> (m <sup>2</sup> )	80 (7.4)
Feed Spacer Thickness	mil	28

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

- **Test Conditions:** 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 ±20%

**Dimensions and Weight**



Dimensions: mm (in)				Wet Weight: kg (lbs)
A	B	C	D	
Element Length	Element Width	Core Tube I.D.	Core Tube Ext.	4.2 (9.3)
1,016 (40)	100 (3.9)	19 (0.75)	29 (1.1)	

All dimensional information is indicative and for reference only. Please contact LG Water Solutions for detailed technical specifications.

**Operating Specifications**

Specification	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 SDI <sub>15</sub>		5.0
Maximum Feed Flow	gpm (m <sup>3</sup> /h)	15 (3.4)
Maximum Pressure Drop (ΔP) for Each Element	psi (bar)	15 (1.0)



This product is certified to NSF/ANSI/CAN Standard 61 for drinking water systems

The Membrane Elements performance is expressly conditioned on Buyer's storing, installing, operating, and maintaining Product in accordance with industry accepted good practices and Seller's written instructions provided in the Seller's Technical Manual, which consists of LG Chem, Ltd Technical Service Bulletins ("TSB") and Technical Applications Bulletins ("TAB") and may be viewed and downloaded at [www.lgwatersolutions.com](http://www.lgwatersolutions.com). The information and data contained herein are deemed to be accurate and reliable and are offered in good faith, but without guarantee of performance. LG Chem assumes no liability for results obtained or damages incurred through the application of the information contained

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