

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



## **Key Features**

- · Balanced salt rejection and productivity
- High boron rejection

## **Main Benefits**

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

#### **Ideal Applications**

• Single and multi-pass desalination plant design

## Product Data Sheet

# LG SW 440 R

Seawater RO membrane with balanced salt rejection, productivity, and long-lasting reliability

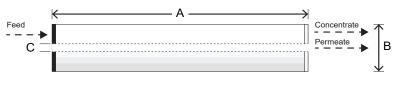
## Performance Specifications

Specification	Unit	Value
Permeate Flow Rate	GPD (m <sup>3</sup> /day)	9,900 (37.5)
Stabilized Salt Rejection	%	99.85
Minimum Salt Rejection	%	99.7
Stabilized Boron Rejection	%	93
Active Membrane Area	ft² (m²)	440 (41)
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 ±15%

#### **Dimensions and Weight**



	Dimensions: mm (in)		Wet Weight: kg (lbs)
А	В	С	
Element Length	Element O.D.	Core Tube I.D.	16 (35)
1,016 (40)	200 (7.9)	28.6 (1.125)	

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 SDI15		5.0
Maximum Feed Flow	gpm (m <sup>3</sup> /h)	75 (17)
Maximum Pressure Drop ( $\Delta P$ ) for Each Element	psi (bar)	15 (1.0)

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