# **LG Water Solutions**





#### **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

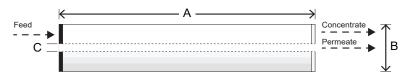
#### **Performance Specifications**

Item	Unit	Value
Permeate Flow Rate	GPD (m³/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  $\pm 15\%$

#### **Dimensions and Weight**



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

## **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 SDI <sub>15</sub>		5.0
Maximum Feed Flow	gpm (m³/h)	75 (17)
Maximum Pressure Drop (ΔP) for Each Element	psi (bar)	15 (1.0)



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