

Nano:H₂O™



Product Data Sheet

LG SW 400 R

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

Key Features

- Balanced salt rejection and productivity
- High boron rejection
- Improved fouling resistance due to thicker feed spacer

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

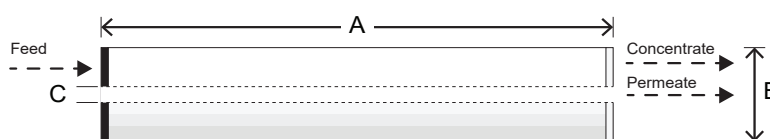
Performance Specifications

Item	Unit	Value
Permeate Flow Rate	GPD (m ³ /day)	9,000 (34.1)
Stabilized Salt Rejection	%	99.85
Minimum Salt Rejection	%	99.7
Stabilized Boron Rejection	%	93
Active Membrane Area	ft ² (m ²)	400 (37)
Feed Spacer Thickness	mil	34

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)
A	B	C	
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 ₁₅		5.0
Maximum Feed Flow	gpm (m ³ /h)	75 (17)
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

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