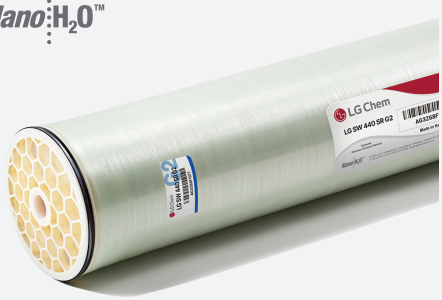
LG Water Solutions

Global 1 Seawater RO — Industry-Leading Salt Rejection SWRO Membrane

LG Chem

Nano H2O™



Product Data Sheet

LG SW 440 SR G2

Industry-leading salt rejection seawater RO membrane delivering the best permeate water quality

Benefits of LG Chem SW G2 membrane
- Better permeate quality without increasing operating pressure
- Lower energy costs without reducing permeate quality
- Reduced CAPEX and OPEX for multi-pass SWRO systems

Key Features
- Highest salt rejection
- Highest boron rejection

Main Benefits
- Best permeate water quality
- Meets high water quality standards with lower system CAPEX requirement

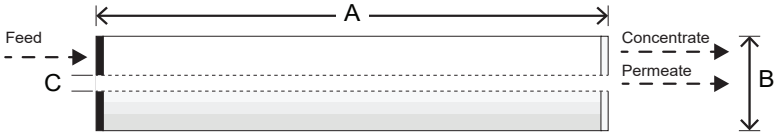
Ideal Applications
- Single-pass SWRO design requiring high permeate water quality

Performance Specifications

Specification	Unit	Value
Permeate Flow Rate	GPD (m³/day)	6,600 (25.0)
Stabilized Salt Rejection	%	99.89
Minimum Salt Rejection	%	99.75
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 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)	

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_{15}		5.0
Maximum Feed Flow	gpm (m³/h)	75 (17)
Maximum Pressure Drop (ΔP) for Each Element	psi (bar)	15 (1.0)

NSF

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

Please visit our website for regional contact information
www.lgwatersolutions.com

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