LG Water Solutions







Key Features

- · Superior salt rejection
- Superior boron rejection

Main Benefits

- · A combination of excellent permeate water quality and energy efficiency
- · Meets high water quality standards with lower system CAPEX requirement

Ideal Applications

• Single-pass SWRO design requiring high permeate water quality

Product Data Sheet

.G SW 440 GR G2

Industry-leading salt rejection seawater RO membrane with excellent energy efficiency

SW G2 membrane

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

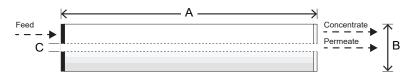
Performance Specifications

Item	Unit	Value
Permeate Flow Rate	GPD (m³/day)	8,250 (31.2)
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 (55.1 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 ₁₅		5.0
Maximum Feed Flow	gpm (m³/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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