LG Chem™

Product Data Sheet

SW 440 GR

Seawater RO membrane with excellent salt rejection and proven, long-lasting reliability

Key Features

- Excellent salt rejection with competitive energy consumption
- Excellent boron rejection

Main Benefits

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

Ideal Applications

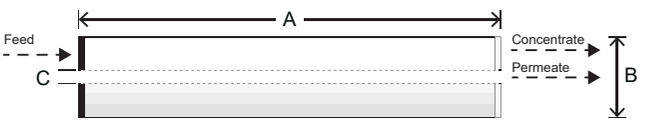
- Single and multi-pass desalination plant design

Performance Specifications

Item	Unit	Value
Permeate Flow Rate	GPD (m^3/d)	8,250 (31.2)
Stabilized Salt Rejection	%	99.85
Minimum Salt Rejection	%	99.7
Stabilized Boron Rejection	%	93
Active Membrane Area	ft^2 (m^2)	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)
A	B	C	16 (35)
Element Length	Element O.D.	Core Tube I.D.	
1,016 (40)	200 (7.9)	28.6 (1.125)	

All dimensional information is indicative and for reference only. Please contact The Company 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 (m^3/h)	75 (17)
Maximum Pressure Drop (ΔP) for Each Element	psi (bar)	15 (1.0)

These operating specifications are for general use. For specific applications, operation at more conservative values may ensure better performance and extended membrane life. See The Company Technical Bulletins for more details.

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

D-SW440GR-EN-013026

The product performance is expressly conditioned on Buyer's storing, installing, operating, and maintaining Product in accordance with industry accepted good practices and Seller's written instructions provided in the Seller's Technical Manual may be viewed and downloaded at The Company web.

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