



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



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

D-SW440R-EN-013026

Product Data Sheet

# SW 440 R

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

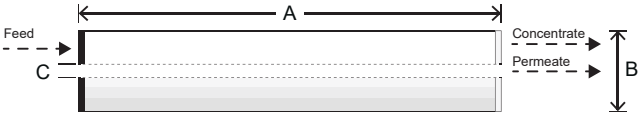
Performance Specifications

| Item                       | Unit       | Value        |
|----------------------------|------------|--------------|
| Permeate Flow Rate         | GPD (m³/d) | 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 ±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 <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)     |

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.

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.

The information and data contained herein are deemed to be accurate and reliable and are offered in good faith, but without guarantee of performance. The Company assumes no liability for results obtained or damages incurred through the application of the information contained

herein. Customer is responsible for determining whether the products and information presented herein are appropriate for the customer's use and for ensuring that customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Specifications subject to change without notice. All rights