NANOH2O

The World's Only RO Membrane with Breakthrough TFN Technology

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

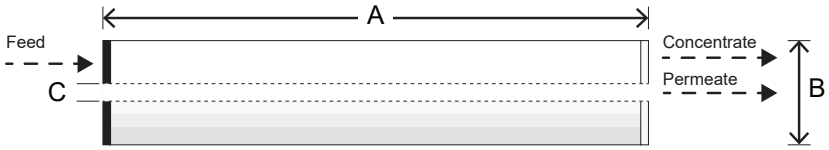
## Performance Specifications

| 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 NanoH2O 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 | | 1–13 |
| 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 NanoH2O Technical Bulletins for more details.

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

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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 www.nanoh2owater.com
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