NANOH2O

The World's Only RO Membrane with Breakthrough TFN Technology

Product Data Sheet



# SW 400 SR G2

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

## Key Features

- Highest salt rejection
- Highest boron rejection
- Improved fouling resistance due to thicker feed spacer

## 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

**Benefits of NANOH2O 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

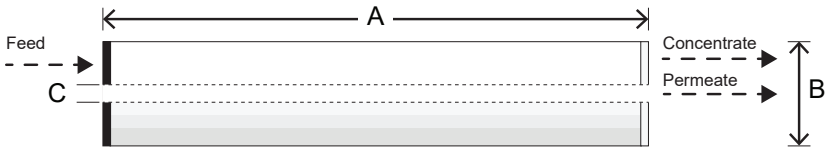
## Performance Specifications

| Item | Unit | Value |
|---|---|---|
| Permeate Flow Rate | GPD ($m^3$/d) | 6,000 (22.7) |
| Stabilized Salt Rejection | % | 99.89 |
| Minimum Salt Rejection | % | 99.75 |
| Stabilized Boron Rejection | % | 93 |
| Active Membrane Area | $ft^2$ ($m^2$) | 400 (37) |
| Feed Spacer Thickness | mil | 34 |

The specifications outlined above are normalized performances based on the following test conditions:

- **Test Condition:** 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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