



# SW 400 R G2

Industry-leading seawater RO membrane with balanced salt rejection and productivity

## Key Features

- Superior salt rejection
- High boron rejection
- High permeate flow rate
- Improved fouling resistance due to thicker feed spacer

## Main Benefits

- A combination of high permeate water quality and energy efficiency

## Ideal Applications

- Single and multi-pass SWRO design requiring balanced permeate water quality and energy efficiency

### 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

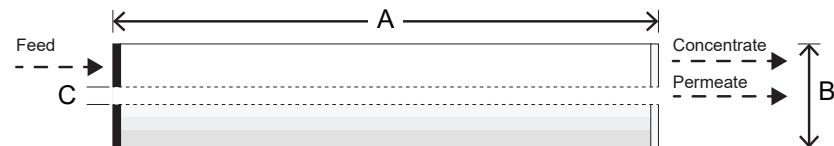
## Performance Specifications

| Item                       | Unit                              | Value        |
|----------------------------|-----------------------------------|--------------|
| Permeate Flow Rate         | GPD (m <sup>3</sup> /d)           | 9,000 (34.1) |
| Stabilized Salt Rejection  | %                                 | 99.88        |
| Minimum Salt Rejection     | %                                 | 99.75        |
| Stabilized Boron Rejection | %                                 | 93           |
| Active Membrane Area       | ft <sup>2</sup> (m <sup>2</sup> ) | 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              |                      |
| Element Length      | Element O.D. | Core Tube I.D. | 16 (35)              |
| 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                          |                         | 2–13         |
| Maximum Feed Water Turbidity                | NTU                     | 1.0          |
| Maximum Feed Water SDI <sub>15</sub>        |                         | 5.0          |
| Maximum Feed Flow                           | gpm (m <sup>3</sup> /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.



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

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