



# SW 440 SR G2

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

## Key Features

- Highest salt rejection
- Highest boron rejection

## 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 NANO H2O 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

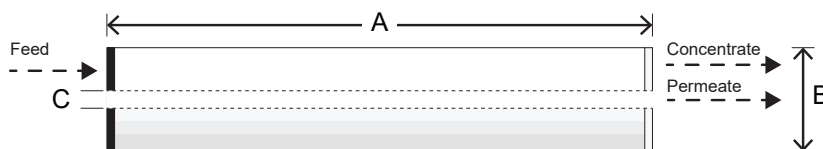
## Performance Specifications

| Item                       | Unit                              | Value        |
|----------------------------|-----------------------------------|--------------|
| Permeate Flow Rate         | GPD (m <sup>3</sup> /d)           | 6,600 (25.0) |
| Stabilized Salt Rejection  | %                                 | 99.89        |
| Minimum Salt Rejection     | %                                 | 99.75        |
| Stabilized Boron Rejection | %                                 | 93           |
| Active Membrane Area       | ft <sup>2</sup> (m <sup>2</sup> ) | 440 (41)     |
| Feed Spacer Thickness      | mil                               | 28           |

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 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 <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.



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