



# SW 400 ES

Energy-saving seawater RO membrane with proven, long-lasting reliability

## Key Features

- High permeate flow rate
- Best-in-class salt rejection for Energy saving SWRO membranes
- Improved fouling resistance due to thicker feed spacer

## Main Benefits

- Improved system productivity
- Reduced feed pressure and energy consumption
- Well-proven and long-lasting reliability

## Ideal Applications

- Multi-pass desalination plant design

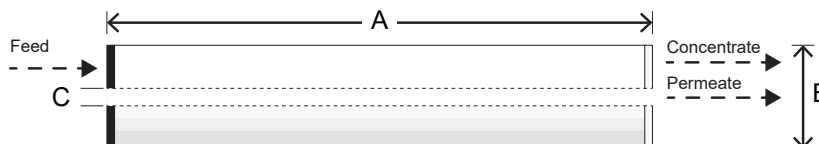
## Performance Specifications

Item	Unit	Test condition A	Test condition B
Permeate Flow Rate	GPD (m <sup>3</sup> /d)	6,800 (25.7)	13,700 (51.9)
Stabilized Salt Rejection	%	99.6	99.8
Minimum Salt Rejection	%	99.3	99.6
Stabilized Boron Rejection	%	81	89
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 A:** 32,000 ppm NaCl, 5 ppm Boron, 600 psi (41.3 bar), 25°C (77°F), pH 8, Recovery 8%
- Permeate flow rates for individual elements may vary by ±20%
- **Test Condition B (referential only):** 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		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

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](http://www.nanoh2owater.com). The information and data contained herein are deemed to be accurate and reliable and are offered in good faith, but without guarantee of performance. NanoH2O 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 reserved. © NanoH2O Co., Ltd.

Please visit our website for regional contact information  
[www.nanoh2owater.com](http://www.nanoh2owater.com)