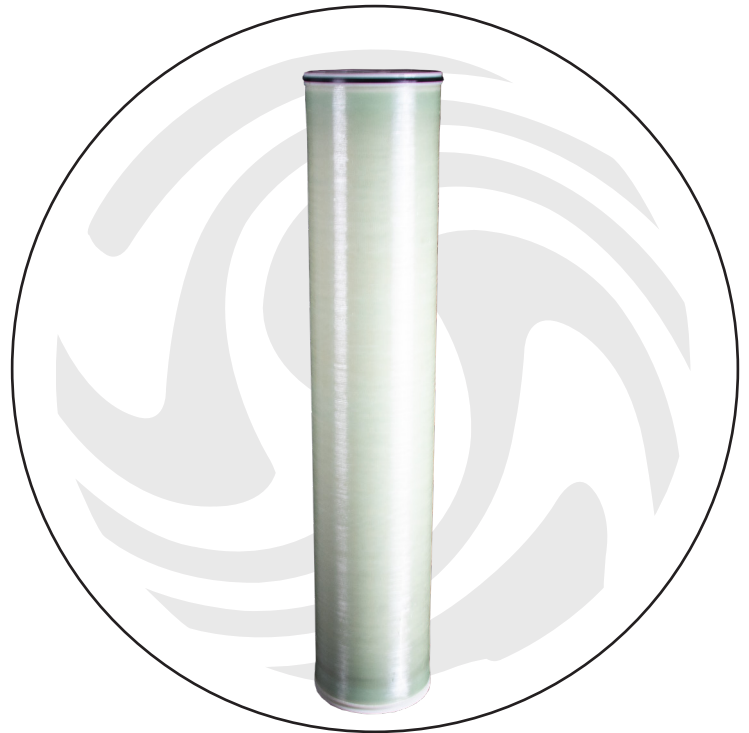


HIGH PRODUCTION

A specialised solution for RO seawater desalination applications. With an impressive average rejection rate up to 99.8%, the ERO-SW membrane ensures a thorough reduction in dissolved solids and salts, delivering purified water of exceptional quality. The anti-fouling layer on SPECTRUM SW Membranes ensures prolonged operational efficiency.

Precision-engineered, this membrane employs advanced permeable technology to effectively remove dissolved solids, separating feed water into purified water and concentrated salts. It is meticulously crafted to meet the stringent demands of desalination processes, providing reliability and efficiency. Improve your seawater treatment system with the precise performance of the SPECTRUM ERO-SW membrane!



FEATURES & BENEFITS



- Average rejection rate of 99.4 to 99.8% for dissolved solids
- Designed to deliver higher permeate flow rates in lower-pressure applications
- Specifically designed to excel in the challenges posed by seawater desalination
- Anti-fouling layer ensures prolonged operational efficiency

MATERIALS OF CONSTRUCTION



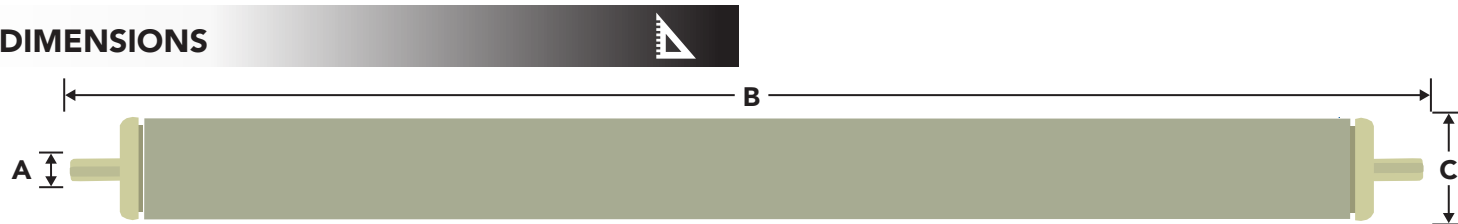
| | |
|----------------------|----------------------------------|
| Permeate Tube: | ABS |
| Feed Channel Spacer: | Polypropylene |
| Membrane: | Polyamide Thin-Film Composite |
| Permeate Collection | |
| Material: | Polyethylene Terephthalate (PET) |
| Anti-Telescoping | |
| Device (ATD): | ABS |
| Outer Wrap: | Fibreglass |
| Brine Seal: | Buna-N |
| Interconnector: | ABS |
| Interconnector | |
| O-rings: | Buna-N |

TECHNICAL DATA



| | | |
|--|------|-------------|
| Maximum Operating Temperature (°C) | | 4 - 45 |
| Maximum Operating Pressure (bar) | | 69 |
| Minimum Operating Pressure (bar) | | 55 |
| Maximum Feed Flow Rate (lpm) | 2.5" | 22 |
| | 4" | 60 |
| | 8" | 280 |
| Minimum Feed Flow Rate (lpm) | 2.5" | 6 |
| | 4" | 15 |
| | 8" | 85 |
| Maximum Recommended Recovery (%) | | 10 |
| pH Range, Continuous Operation | | 2 - 11 |
| pH Range, Short Term Cleaning | | 1 - 13 |
| Maximum Feed Silt Density Index | | 5 |
| Chlorine Tolerance (Total Exposure 2000 mg/l - hours) (mg/l) | | <0.1 |
| Maximum Feedwater Turbidity | | <1 NTU |
| Maximum Feedwater Quality (TDS) | | 50,000 mg/l |
| Recommended Shelf Life | | 2 years |

DIMENSIONS



| Product | Dimensions (") | | | Active Area ft ² (m ²) |
|----------------|----------------|----|------|---|
| | A | B | C | |
| ERO-SW-2521 | 0.75 | 21 | 2.4 | 10 (0.9) |
| ERO-SW-2540 | 0.75 | 40 | 2.4 | 26 (2.4) |
| ERO-SW-4021 | 0.75 | 21 | 3.9 | 29 (2.7) |
| ERO-SW-4040 | 0.75 | 40 | 3.9 | 90 (8.3) |
| ERO-SW-8040-HF | 1.125 | 40 | 7.95 | 400 (37.2) |

PERFORMANCE



FLOW RATE



| Code | LPH (m ³ /day) | Operating Pressure bar (psi) | | Avg Rejection % |
|----------------|---------------------------|------------------------------|----------|-----------------|
| ERO-SW-2521 | 34 (0.8) | @ | 55 (800) | 99.4 |
| ERO-SW-2540 | 100 (2.4) | @ | 55 (800) | 99.4 |
| ERO-SW-4021 | 104 (2.5) | @ | 55 (800) | 99.4 |
| ERO-SW-4040 | 300 (7.2) | @ | 55 (800) | 99.8 |
| ERO-SW-8040-HF | 1417 (34) | @ | 55 (800) | 99.8 |

Testing Criteria:

Permeate flow and rejection based on feedwater of 32000ppm NaCl, 8% recovery (2540, 4040, 8040-HF); 4% recovery (2521, 4021) and 25°C at the specified applied pressure.

Minimum salt rejection 99.5% (4040, 8040-HF). Minimum salt rejection 99% (2521, 2540, 4021).

Permeate flows for individual membranes may vary ±20%

ORDERING GUIDE



| Code | Length (") |
|--------|---------------------------------|
| ERO-SW | 2521, 2540, 4021, 4040, 8040-HF |

e.g. ERO-SW-2521

PRODUCT RANGE



The below products have often been associated with this product.



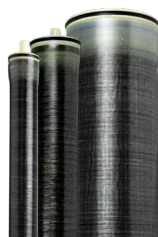
ERO

High production,
lower pressure



SRO

High rejection



PRO

Pure water at
lowest pressure