



**MEMBRANE ELEMENT**

**PMSW-4040HR**

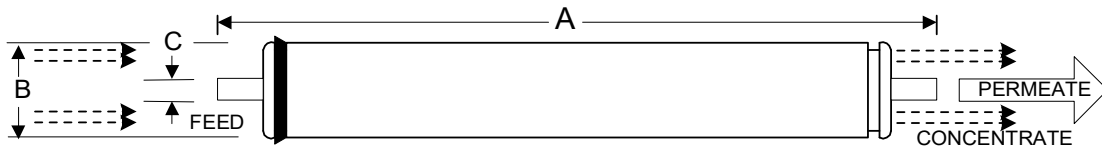
**Standard Sewater RO Element – High Rejection**

**SPECIFICATIONS AND PRODUCT DESCRIPTION**

|                            |                               |
|----------------------------|-------------------------------|
| Configuration:             | Spiral Wound                  |
| Membrane Polymer:          | Polyamide Thin-Film Composite |
| Active Area:               | 80 ft <sup>2</sup>            |
| Feed Spacer Thickness:     | 28 mil (0.711mm)              |
| Permeate Flow:             | 1,900 gpd                     |
| Stabilized Salt Rejection: | 99.7%                         |

The stated performance is based on the following conditions:

32,000 ppm NaCl  
 5 ppm Boron  
 800 psig (5.5 MPa) Applied Pressure  
 77°F (25°C) Operating Temperature  
 10% Permeate Recovery  
 pH 6.5 – 7.0



| A, inches (mm) | B, inches (mm) | C, inches (mm) | Weight, lbs. (kg) |
|----------------|----------------|----------------|-------------------|
| 40.0 (1016)    | 3.9 (99)       | 0.75 (19)      | 8 (3.6)           |

**OPERATING DATA**

|  |                                |
|--|--------------------------------|
| Maximum Applied Pressure:                                      | 1,200 psig (8.27 MPa)          |
| Free Chlorine Tolerance:                                       | < 0.1 ppm                      |
| Maximum Operating Temperature:                                 | 113°F (45°C)                   |
| Continuous pH Range (Cleaning):                                | 2 – 11 (1 – 13)                |
| Maximum Feedwater Turbidity:                                   | 1.0 NTU                        |
| Maximum Feedwater SDI <sub>15</sub> :                          | 5.0                            |
| Maximum Pressure Drop for Each Element:                        | 15 psig (0.10 MPa)             |
| Maximum Feed Flow:   | 16 gpm (3.6 m <sup>3</sup> /h) |
| Minimum Ratio of Concentrate to Permeate Flow for any Element: | 5:1                            |

**NOTICE:** Permeate flow for individual membrane elements may vary by ±15% from the nominal specified value. Elements are supplied with a brine seal, interconnector, and O-rings in sealed polyethylene packaging. Use only glycerin or silicone-based lubricants for seals and O-rings. Static permeate back pressure must be always avoided.

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