

## High Performance Sea Water RO Element.

### Product Description

**Membrane Type:** Cross Linked Fully Aromatic polyamide composite

**Construction :** Spiral wound element

**Application :** Sea Water Application

**Feed Spacer :** 34 mil (0.864 mm) with modified geometry.

Model	Diameter Inches	Active Surface Area Ft <sup>2</sup> (m <sup>2</sup> )	Salt Rejection %	Product Flow rate gpd (l/hr)
HM4040-SWE	4.0"	85 (7.89)	99.5	1700 (268.13)

<b>Test Condition:</b>	<b>Feed Water Pressure</b>	800 psi (56.24 kg/cm <sup>2</sup> )
	<b>Feed Water Temperature</b>	77 °F (25 °C)
	<b>Feed Water Concentration</b>	32000 ppm Softened Tap Water
	<b>Recovery Rate</b>	7 %
	<b>Feed Water pH</b>	6.5 - 7

**NOTES:**

Minimum salt rejection is 99% for HM4040-SWE

Permeate flow for individual element may vary + / - 20%

### Dimensions:



MODEL	A Inches (mm)	B Inches (mm)	C Inches (mm)	WEIGHT lbs (kg)
HM4040-SWE	40 (1016)	4 (101.6)	0.75 (19.10)	10.0 (4.5)

## Operating Limits

<b>Maximum Operating Pressure:</b>	1200 psi (56.24 kg/cm <sup>2</sup> )
<b>Maximum Operating Temperature:</b>	113 °F (45 °C)
<b>Maximum Cleaning Temperature:</b>	104 °F (40 °C)
<b>Feed Water Chlorine Concentration:</b>	Not Detectable
<b>Feed Water pH Range, Continuous Operation:</b>	2-11
<b>Maximum Feed Water SDI (15 Minute Test)</b>	SDI < 5
<b>Maximum Feed Turbidity</b>	NTU < 1
<b>Maximum Feed Flow</b>	16 gpm (3.6 m <sup>3</sup> /hr)
<b>Maximum Pressure Drop for Each Element</b>	15 psi ( 0.10 MPa)

## Operating Information

1. For the recommended design range, please consult the latest HYDRAMEM technical bulletin, design guidelines, or call an application specialist. If the operating limits given in this product information bulletin are not strictly followed, the Limited Warranty will be null and void
2. All elements are wet tested, treated with 1% by weight sodium Meta bisulfate preservative solution, and then vacuum packed in oxygen barrier bags. To prevent biological growth during short term system shutdown, it is recommended that HYDRAMEM elements be immersed in a protective solution containing 500-1000 ppm of sodium Meta bi sulfite dissolved in permeate. Rinse out preservative before use.
3. Permeate from the first hour of operation should be discarded.
4. The customer is fully responsible for the effects of chemicals that are incompatible with the elements. Their use will void Limited Warranty.
5. For element loading, use only the recommended silicon lubricant. The use of petroleum based lubricant or vegetable based oils may damage the element irreversibly.
6. Membranes shows some resistance to short-term attack by chlorine (Hypochlorite). Continuous exposure may damage the membrane and should be avoided

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