

**Industrial Reverse Osmosis Membranes(RO Membranes)**

**Sea Water (High Pressure High Salinity)**

**SW1-4040**

The Runmo® SW1-4040 membrane elements are spiral wound, composite polyamide membrane elements for sea water treatment. These membranes are characterized by a high operating feed pressure, normally is 800psi(5.5MPa) and result in higher salt rejection rate(especially Boron<B> rejection≥90%), above 99.6%. These membranes are designed for sea water and high concentration of brackish water treatment applications(NaCl≤40,000ppm, Salt content≤40,000us/cm), such as the seawater desalination, the treatment of high salinity waters for various industry.....

Model	Active Membrane	Average Permeate	Stable Rejection	Min. Rejection
SW1-4040	85ft <sup>2</sup> (7.9m <sup>2</sup> )	1,000gpd (4m <sup>3</sup> /d)	99.7%	99.6%

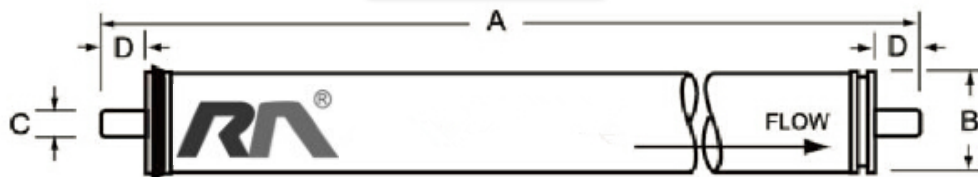
Testing Conditions	Testing Pressure	800psi (5.5MPa)	Temperature of Testing Solution	25°C
	Concentration of Testing Solution (NaCl)	32,000ppm	pH Value of Testing Solution	7.5
	Recovery Rate of Single Element	8%		

Operation Limits & conditions	Max. Feed Water Flow	16gpm (3.6m <sup>3</sup> /h)
	Max. Working Pressure	1,200psi (8.3MPa)
	Max. Feed Water Temperature	45°C
	Max. Feed Water SDI <sub>15</sub>	< 5
	pH Range of Feed Water During Continuous Operation	3~10
	pH Range of Feed Water During Chemical Cleaning	1~13
	Residual Chlorine Concentration of Feed Water	< 0.1ppm
	Max. Pressure Drop of Single Element	15psi (0.1MPa)
	Max.Turbidity NTU	1.0

**Size of Membrane Element**

1.0 inch=25.4mm

4" x 40"



A	B	C	D
1016 mm (40 inches)	99.7 mm (3.9 inches)	19.1mm (0.75 inches)	26.7 mm (1.05 inches)



**MEMBRANE TECH**

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