

SW4040HR

Sea Water Desalination RO Membrane Elements – SW Series

Product Presentation

SW Series is used for sea water desalination. It can improve permeate flow by optimizing membrane element structure. It has the features of high rejection rate, stable performance, low operating cost and small equipment investment. It can be used to obtain qualified drinking water from seawater.

Application

- Seawater desalination.
- Concentration of high-concentration materials, for example: pharmaceuticals materials, food and beverage materials, etc.

Product Performance

Model	Stable Rejection Rate(%)	Permeate Flow GPD(m ³ /d)	Active Membrane Area ft ² (m ²)	Feed Spacer Thickness mil
SW4040HR	99.8	1600(6.1)	90(8.4)	28

- Operating pressure 800 psi (5.52 MPa) 32000 mg/L NaCl solution Temperature at 25°C pH 8 Recovery rate at 8%
- Each membrane element may have ±20% variation of permeate flow.
- Minimum salt rejection 99.7%

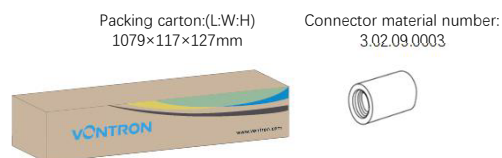
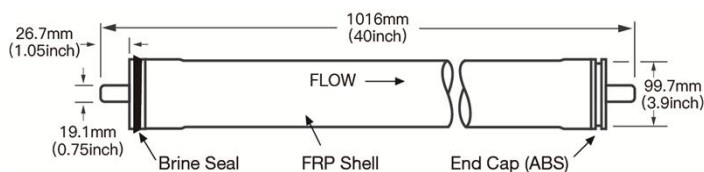
Operating Conditions & Limits

Maximum operating pressure psi(MPa)	1200(8.28)
Maximum feedwater temperature °C	45
Maximum inlet flow rate m ³ /h	3.6
Maximum concentration of free chlorine mg/L	0.1
Maximum pressure drop per element psi(MPa)	15(0.1)
Allowed pH range for feedwater in operation	2-11
Allowed pH range for chemical cleaning	1-13
Maximum feedwater flow SDI15	5

Important information

- Before the membrane element leaves the factory, The dry membrane element has no preservation solution, The wet membrane element has 1.0% sodium bisulfite (in winter, add 10% of propylene glycol antifreeze) as the preservation solution for storage treatment and use vacuum packaging.
- Dry membrane elements should always be maintained wet after Soaking; when wet membrane elements are not used for a long time, preservation solution is needed to soak the elements.
- When the membrane element is used for the first time, it is recommended to flush it first for 15-25 minutes at low pressure (not suitable for soaking or soaking overnight), and then flush it for 60-90 minutes at high pressure (the water flow should not be less than 50% of the system design water flow).
- The permeate water and concentrated water within the first hour of the initial operation of the membrane element should all be discharged.
- The operating limits and operational guidelines given in this technical information are part of the limitations of the three-year warranty on the membrane element.
- The addition of any chemicals that may affect the membrane element during storage and operation is prohibited, and Vontron Technology will not be liable for any consequences arising from the use of such chemicals.
- Please refer to the Product Manual for details on installation, commissioning, storage, and transportation of membrane elements.

Dimensions and Packaging



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