

# RD01 BRACKISH WATER REVERSE OSMOSIS MEMBRANE ELEMENT

## Performance Characteristics

RD01 brackish water reverse osmosis membrane is a cost-effective reverse osmosis membrane element. It has the characteristics of stable salt rejection rate, water yield, pollution resistance and easy cleaning, which ensures the long-term stable operation of the system and reduces the operating cost of users. Large flux is the characteristic of this membrane element, which is suitable for the situation that the water quality index is not required to be high and the water demand is large. It is especially suitable for the first-stage of double-level reverse osmosis system, which can greatly reduce the number of membrane elements.

## Membrane Specifications

### Parameters of Membrane Element

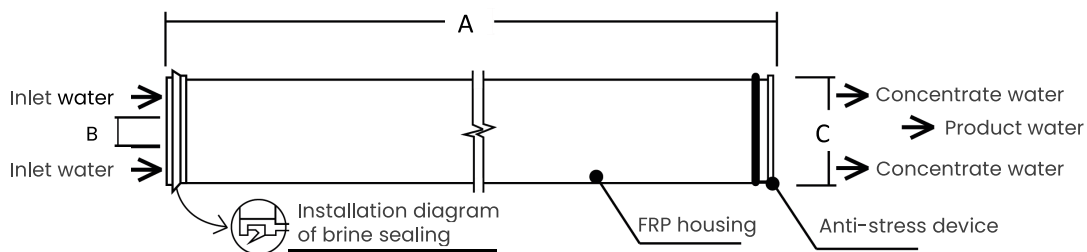
Model	Average Flow Rate gpd(m <sup>3</sup> /d)	Average Salt Rejection %	Test Conditions
RD01	3500 (13.0)	98.5%	1

**Notes:** Average salt rejection is tested after 24 hours operation. Fluctuation range of single membrane flow rate could be  $\pm 25\%$ .

**Test condition 1:** 2,000ppm NaCl solution, 225psi operating pressure, 25°C temperature, pH7, 15% recovery rate.

## Schematic Diagram and Dimensions

Figure 1



Product model	Connector	Diameter, inch (cm)			Weight (KG)
		A	B	C	
4040	Male connector	40.00 (101.6)	0.75 (1.9)	3.9 (9.9)	6

## ↘ Operating Conditions

<b>Product model</b>	RD01
<b>Max. operating pressure</b>	600psi
<b>Typical operating pressure</b>	225psi
<b>Pressure drop of single membrane element</b>	<12psi
<b>Recovery rate</b>	15%
<b>Max. operating temperature</b>	50°C
<b>Max. cleaning temperature</b>	50°C
<b>Continuous working PH range</b>	4.0-11.0
<b>Cleaning PH range</b>	2.0-11.5
<b>Max. allowable residual chlorine</b>	500ppm-h
<b>Inlet water</b>	NTU<1, SDI<5

## ↘ Storage Conditions

- ☑ Before the first use, all membrane elements must be stored under the original packaging conditions.
- ☑ The transport temperature below 0°C may cause irreversible membrane damage, on the contrary, above 30°C may cause membrane degradation and deterioration of the protection solution.
- ☑ Store in a cool, dry condition and the place where is not directly exposed to sunlight. Storage temperature is kept between 0°C to 30°C, and the longest storage time is 6 months.

## ↘ General Information

- ☑ Once wetted, the membrane element must always be wet.
- ☑ The limited warranty we promised will expire due to the fact that the user does not strictly follow the operational restrictions and guidelines set forth in this Code.
- ☑ If the system is in a shut down state for a long time, the membrane element is advised to be placed in the protective solution to prevent the growth of microorganisms.
- ☑ If the user uses incompatible chemicals and lubricants to cause improper influence on the membrane elements, the user shall bear the corresponding responsibilities.
- ☑ The maximum allowable pressure drop of single pressure vessel is 60 psi (4.1bar).
- ☑ At no time can the back pressure be produced on the side of producing water to avoid the occurrence of bad problems.