



RD-S Series (Regular Desalination) Regular Reverse Osmosis Membrane is the cost-effective membrane that specially developed for the Chinese market.

- It has the following features:
- Anti-fouling;
- Easy to be cleaned;
- Ensure a long-term and stable operation;
- Ensure a long-term and stable operation; Stable desalination rate and water yield.





Average Rejection Rate

Max Operating

Temperature

Product Models

Product Models

Membrane Parameters

| and the second s | Ft² (m²) | GPD (m%a) | % 0 | | | | |
|--|-------------------------------|--------------|------------|--|--|--|--|
| RD-S 01 | 85 (7.9) | 2400 (9.1) | 99.50% | | | | |
| RD-S 02 | 90 (8.4) | 2550 (9.7) | 99.50% | | | | |
| RD-S 10 | 375 (34.8) | 10500 (40) | 99.50% | | | | |
| RD-S 20 | 400 (37.2) | 11200 (42.4) | 99.50% | | | | |
| RD-S 30-HR | 440 (40.9) | 13000 (49.2) | 99.60% | | | | |
| Notes: The average desalination rate is tested after 24 hours operation. | | | | | | | |
| Flow fluctuation range of | single membrane could be ±25% | | | | | | |

Average Flow Rate

Pressure Drop of

Single Membrane

Anti-expansion Device

Test Condition: 2000ppm NaCl solution, 225 psi operating pressure, 25°C temperature, pH=7, 15% recovery rate.

Max Operating

Parameters of Membrane Operating and Cleaning

Typical Operating

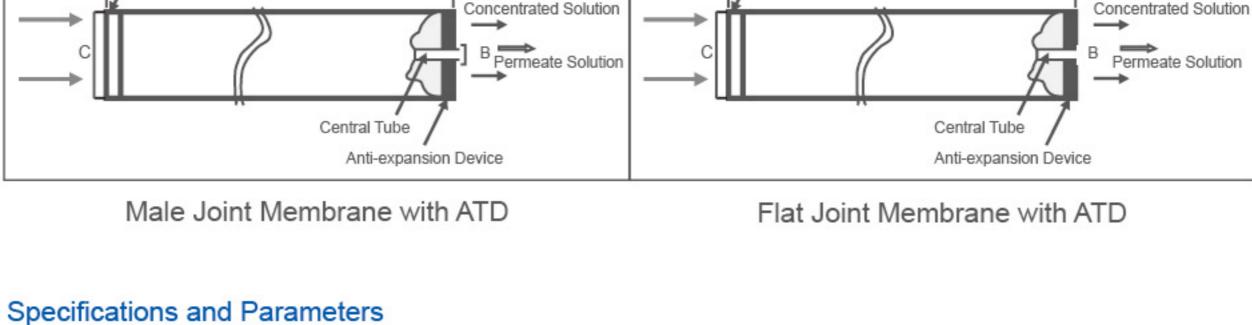
Effective Area

Pressure Pressure

| | | | 33 | | |
|-----------------------------|-----------------------------------|-------------------------|--|-----|-------------------|
| RD-S Series | 600psi | 225psi | <12psi | 15% | 50°C |
| Max Cleaning Temperature | PH Range of Continuous Working | PH Range of Cleaning | Allowable Max Contents of Residual Chlorine | | Inlet Water |
| 50°C | 4.0-11.0 | 2.0-11.5 | 500ppm-h | | NTU <1 SDI < 5 |
| Membrane | Schematics | | | | |



Anti-expansion Device



С

2.4

Diameter Inch(cm)

Joint

Package Weight

(kg)

Recovery Rate



| 2540 | Male Joint | (101.6) | (1.9) | (6.1) | 3 | | | |
|----------------|------------|------------------|-----------------|---------------|----|--|--|--|
| 4040 | Male Joint | 40.00 (101.6) | 0.75 (1.9) | 3.9 (9.9) | 4 | | | |
| 8040 | Flat Joint | 40.00 (101.6) | 1.125 (2.85) | 7.9 (20.1) | 16 | | | |
| Special Notes: | | | | | | | | |

В

0.75

Storage Conditions

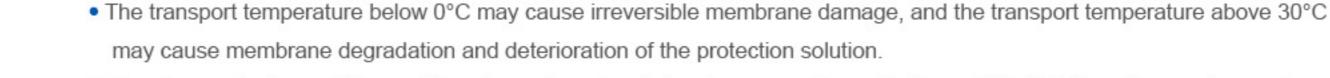
Specifications

Before the first use, all membrane elements must be stored under the original packaging conditions.

Α

40.00

The membrane is best placed in the original packaging and opened before the using of water treatment system.



- Store in a cool, dry condition and the place where is not directly exposed to sunlight or artificial lighting. Storage temperature
- stays at 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.

Opening Membrane Packages

Seal Ring of Concentrated Water

O-ring

Open-type Product Water Adapter

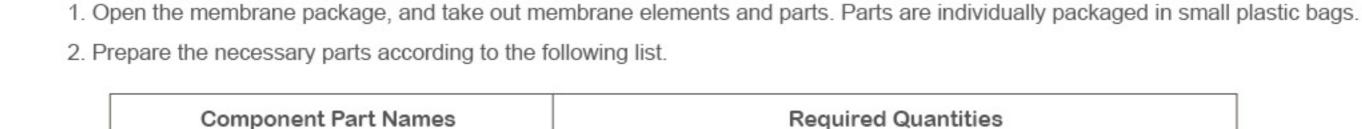
- If the system is in a shut down state for a long time, the membrane element is advised to be placed in the protective solution to prevent the growth of microorganisms.
- It is the user's responsibility if use an incompatible chemical and lubricant, and cause undue influence on the original.
- The maximum allowable pressure drop of single pressure vessel is 60 psi (4.1bar). At no time can the backpressure be produced on the side of producing water to avoid the occurrence of harmful problems.

One Piece for Every Membrane

Four Pieces for Every Membranes

One Piece for Every Pressure Vessel

INSTALLATION METHOD OF MEMBRANES



a. Cut the

package from

the top of the

membrane

element.

2. Prepare the necessary parts according to the following list. **Component Part Names** Required Quantities

Close-type Product Water Adapter One Piece for Every Pressure Vessel Numbers of Membrane Elements- Numbers of Pressure Vessels Product Water Connecting Pipe

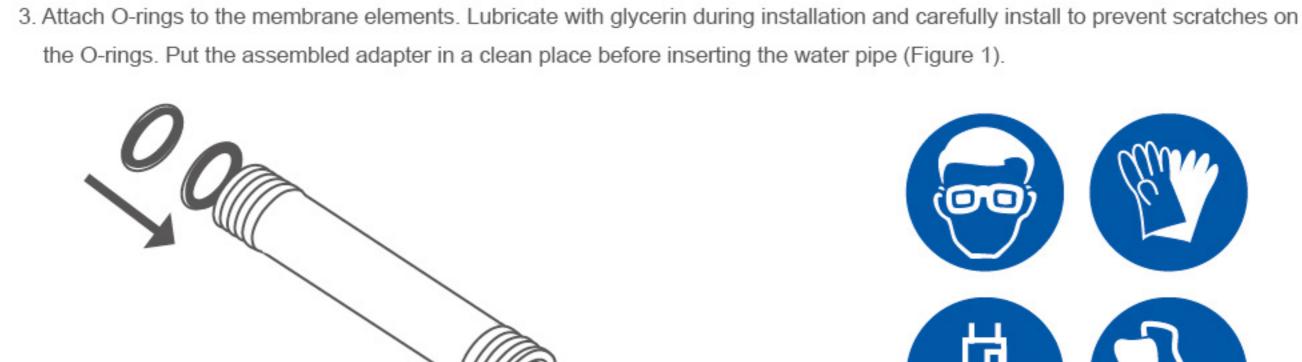
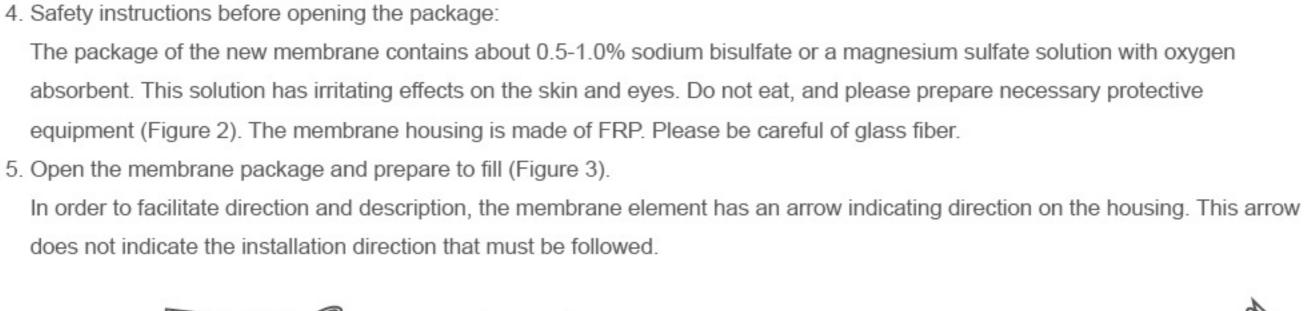


Figure 1 Figure 2



foam cover.

Figure 3

c. Turn the membrane element

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over to make it stands on the

d. Remove the foam

cover on the top and

packing bag.

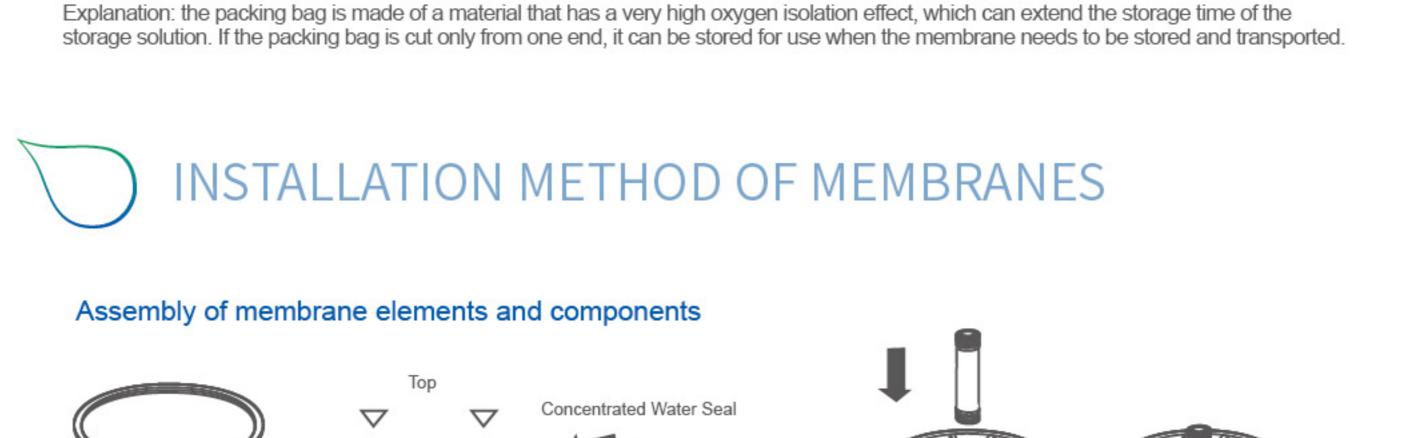
Install the membrane connectors and use lubrication when necessary.

Figure 4

Figure 5

Concentrated Water

Direction



Concentrated Water Seal

b. As shown in the figure, confirm the position Inlet Water and direction of the V-type concentrated Direction water seal (Figure 4). Note: the seal ring must not be installed on the

concentrated water side of each membrane.

1. Install the concentrated water seal

b. Take off the

top of the foam

cover.

packing bag to the

c. Open the inlet of the RO pressure vessel. d. Lubricate the inside of the RO pressure vessel with water and glycerin. About 10 ml of glycerol

a. This work is best done by two people.

3. Membrane Element Filling

- is required for each pressure vessel. If the viscosity of glycerol is high, it can be diluted with water to ensure adequate wetting. Use a mop
- or similar tool to lubricate the entire pressure vessel (Figure 5). e. After lubricating the seal ring of concentrated
 - water and inner wall of the pressure vessel with glycerin, install the membrane approximately 2/3 from the inlet of the pressure vessel (Figure 6). Carefully and smoothly install the membrane, especially the first membrane. Figure 6
- Partially load membrane elements at the fixed place and push the two pressure vessels safely and forcefully to keep them in a straight line and avoid damages to the membrane adapter or the concentrated water seal. g. Repeat the above steps to load the membrane element into the pressure vessel one by one. When the last membrane

element is installed, load the product water adapter provided by the pressure vessel manufacturer and push it into the

f. Install the concentrated water seal as the first membrane. Use a membrane adapter to connect two membranes (Figure 7).

position to ensure that the first loaded membrane has been connected tightly.