

# HSR01-50 PURE SOLVENT SPECIAL SEPARATION NF SPIRAL-WOUND MEMBRANE ELEMENT

## Performance Characteristics

HSR01-50 pure organic solvent-stable nanofiltration membrane element has a wider flow channel and is more suitable for organic solvents with higher viscosity.

HSR01-50 pure organic solvent-stable nanofiltration membrane element is suitable for use in pure organic solvent environment and the solvent is over 95%, as it adopts hydrophobic membrane material. It can work normally for 12 months under the following solvent environment, and can be used for solvent purification, recycling, reducing the difficulty and energy consumption of sewage treatment.

The typical organic solvents are methanol, ethyl alcohol, propyl alcohol, ethanediol, acetonitrile, acetone, ethyl acetate, dichloromethane, normal hexane, tetrahydrofuran, methylpyrrolidone, dimethylformamide, dimethyl adipate, dimethyl sulfoxide and methylbenzene etc.

## Membrane Specifications

### Parameters of Membrane Element

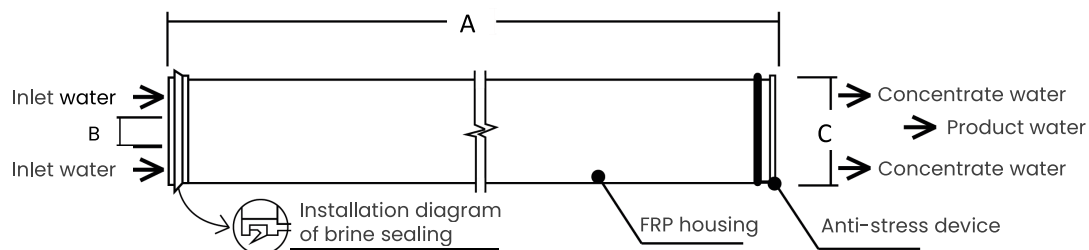
Model	Average Flow Rate gpd(m <sup>3</sup> /d)	Average Salt Rejection %	Test Conditions
HSR01-50	3200 (11.9)	92.0%	1

**Notes:** Average desalination rate will be measured after 24 hours operation. Flow fluctuation range of single membrane could be  $\pm 25\%$ .

**Test condition 1:** 2000ppm of MgSO<sub>4</sub> solution, 580psi of operating pressure, 25°C of temperature, pH=7, 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 Models</b>	HSR01-50
<b>Max Operating Pressure</b>	1200psi
<b>Pressure Drop Of Single Membrane</b>	<22psi
<b>Recovery Rate</b>	15%
<b>Max Operating Temperature</b>	60°C
<b>Max Cleaning Temperature</b>	60°C
<b>Continuous Working PH Range</b>	2-12.0
<b>Cleaning PH Range</b>	1-12.0
<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.