

# PRO20-50 HIGH PRESSURE RESISTANCE SPIRAL-WOUND RO MEMBRANE ELEMENT

## Performance Characteristics

The chemical property of membrane sheet and structural material of membrane element used for PRO20-50 high pressure resistance RO membrane elements that are suitable for the application of terminal waste water treatment, such as continuing to reduce the COD and total dissolved solids of second-level and third-level waste water treatment. PRO20 membrane is specially designed for the relatively higher content of suspended solids, which is also suitable for high concentration material concentration. The higher desalination effect makes the water production effect even better and the wider flow channel is more resistant to pollutants.

## Membrane Specifications

### Parameters of Membrane Element

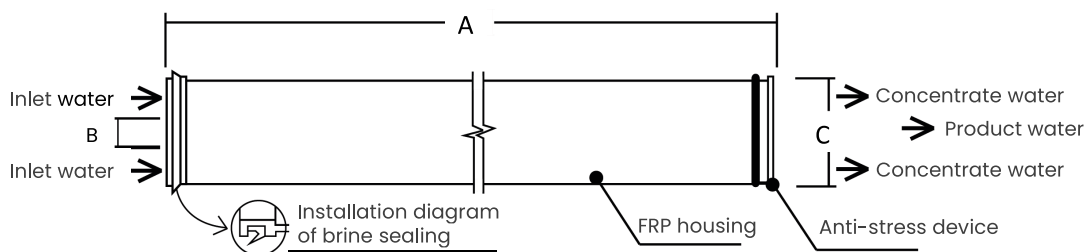
Model	Average Flow Rate gpd(m <sup>3</sup> /d)	Average Salt Rejection %	Test Conditions
PRO 20-50	7200 (27.0)	99.5%	1

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

**Test condition 1:** 2,000ppm NaCl solution, 225 psi 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	
8040	Flat connector	40.00 (101.6)	1.125 (2.85)	7.9 (20.1)	16

## Operating Conditions

<b>Product model</b>	PRO20-50
<b>Max. operating pressure</b>	1200psi
<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>	500 ppm-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.