

PRO10-50 HIGH PRESSURE RESISTANCE SPIRAL-WOUND RO MEMBRANE ELEMENT

Performance Characteristics

The chemical property of membrane sheet and structural material of membrane element used for PRO10-50 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. PRO10 membrane is specially designed for the relatively higher content of suspended solids, featuring large flux, under the same conditions, 20% more water can be produced compared with the other high pressure RO membrane element, which is suitable for high concentration material concentration. The wider flow channel is more resistant to pollutants.

Membrane Specifications

Parameters of Membrane Element

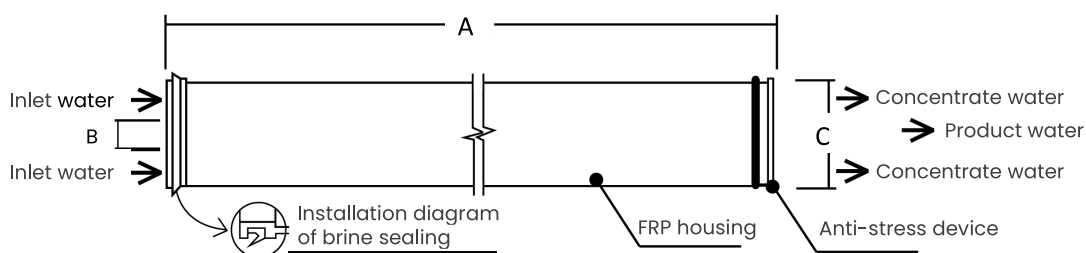
Model	Average Flow Rate gpd(m ³ /d)	Average Salt Rejection %	Test Conditions
PRO10-50	10600 (39.9)	99.0%	1

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

Product model	PRO10-50
Max. operating pressure	1200psi
Typical operating pressure	225psi
Pressure drop of single membrane element	<12psi
Recovery rate	15%
Max. operating temperature	50°C
Max. cleaning temperature	50°C
Continuous working PH range	4.0-11.0
Cleaning PH range	2.0-11.5
Max. allowable residual chlorine	500 ppm-h
Inlet water	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.