

OD10-440 SEAWATER DESALINATION MEMBRANE ELEMENT

Performance Characteristics

OD10-440 is a kind of standard membrane element self-independently developed, with the world highest standards of pressure bearing, which has the characteristics of large flux, high removal rate of sodium chloride and boron. It can be widely used in the fields of seawater desalination and brackish water desalination. It is one of seawater desalination membrane elements with the lowest energy consumption in the world at present. The area of 440ft² minimizes the operating cost of the system.

Membrane Specifications

Parameters of Membrane Element

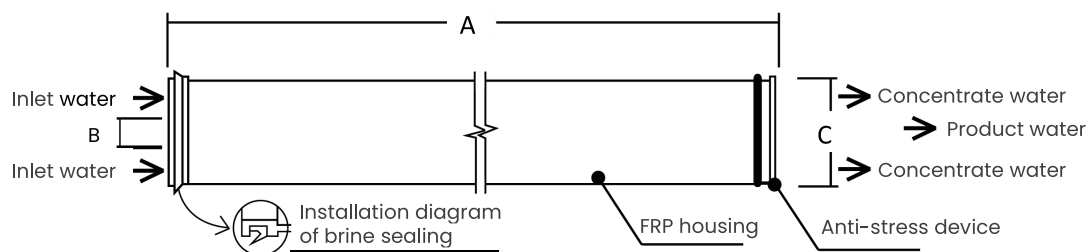
Model	Average Flow Rate gpd(m ³ /d)	Average Salt Rejection %	Test Conditions
OD10-440	8300 (31.4)	99.8%	1

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

Test condition 1: 32000ppm NaCl solution, 800psi operating pressure, 25°C temperature, pH7, 8% 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	OD10-440
Max. operating pressure	1200psi
Typical operating pressure	800psi
Pressure drop of single membrane element	<20psi
Max. operating temperature	50°C
Max. cleaning temperature	50°C
Continuous working PH range	2.0-11.0
Cleaning PH range	1.0-12.0
Inlet water	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.