



AR40-50 ACID-STABLE SPECIAL SEPARATION SPIRAL-WOUND MEMBRANE ELEMENT

> Performance Characteristics

AR40-50 acid-stable special separation spiral-wound membrane element can achieve metal concentration in acidic solutions such as the sulfuric acid with concentration less than 20% and phosphoric acid with concentration less than 30%, which can be used in acidic liquid purification. Such membrane elements can keep high flux in the strong acid conditions and operate stably for over 12 months.

№ Membrane Specifications

Parameters of Membrane Element

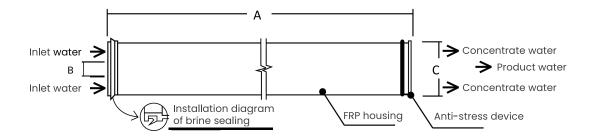
Model	Average Flow Rate gpd(m³/d)	Average Salt Rejection %	Test Conditions
AR40-50	15200 (57.5)	80.0%	1

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 MgSO $_4$ solution, 580psi operating pressure, 25 $^\circ$ C temperature, PH 7, 15% recovery rate

≥ Schematic Diagram and Dimensions

Figure 1



Product model	Connector	Diameter, inch (cm)			Weight (KG)
Product model		Α	В	С	weight (kg)
8040	Flat connector	40.00 (101.6)	1.125 (2.85)	7.9 (20.1)	16





№ Operating Conditions

Product model	AR40-50	
Max. operating pressure	1200psi	
Pressure drop of single membrane element	<8psi	
Recovery rate	15%	
Max. operating temperature	80℃	
Max. cleaning temperature	80℃	
Continuous working PH range	0.0-12.0	
Cleaning PH range	0.0-13.0	
Max. allowable residual chlorine	500ppm-h	
Inlet water	NTU<1, SDI<5	

≥ Storage Conditions

- ☑ Before the first use, all membrane elements must be stored under the original packaging conditions.
- $\ \square$ The transport temperature below $0^{\circ}\mathbb{C}$ may cause irreversible membrane damage, on the contrary, above $30^{\circ}\mathbb{C}$ 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.

अ 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.