

# SCW20 ULTRAPURE WATER REVERSE OSMOSIS MEMBRANE ELEMENT

## Performance Characteristics

SCW20 ultrapure water membrane element has advantages of high salt rejection rate, high anti-pollution ability, high removal rate of elements such as boron, silicon and germanium and low dissolution rate of TOC, thus reducing the processing pressure of subsequent systems and improving the service life and effects. The chemical cleaning cycle of this membrane is long, but the outlet water quality is stable, which is especially suitable for the pretreatment of the electronic grade ultrapure water EDI system as it can effectively control the TOC contents.

## Membrane Specifications

### Parameters of Membrane Element

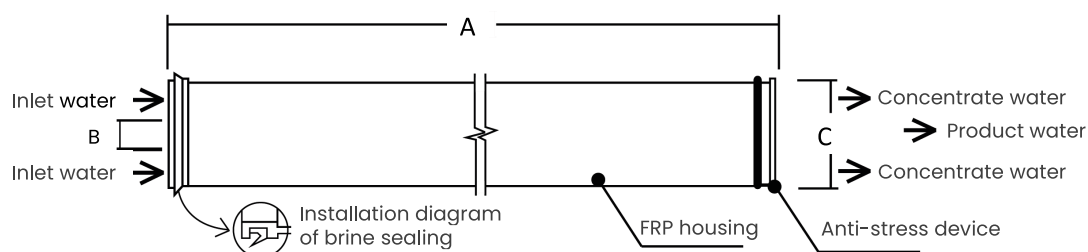
Model	Average Flow Rate gpd(m <sup>3</sup> /d)	Average Salt Rejection %	Test Conditions
SCW20	10700 (40.1)	99.6%	1

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

**Test condition 1:** 2,000ppm NaCl solution, 225psi 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	SCW20
Max. operating pressure	600psi
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	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.
- ☑ 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.