



HSRO Sanitary Thermal Disinfection RO Membrane

HSRO sanitary thermal disinfection roll reverse osmosis membrane series is specially developed for medical pure water and other high-purity water systems. It has the characteristics of high desalination rate and large water yield. All of them adopt sanitary rolling method, no filtering dead corner and realize efficient bacterial control. This product meets the FDA CFR title21 hygienic standard.

Brief introduction:

Packaging: all membrane elements are vacuum sealed in polyethylene plastic bags, and sodium bisulfite with a concentration of no more than 1.0% is added as the protective solution. The membrane elements protected by vacuum are finally stored in cartons. All membrane elements shall be subject to 85 °C heat stabilization treatment for one hour before leaving the factory. All modules are delivered with a connection adapter, ATD end cover and corresponding sealing ring.

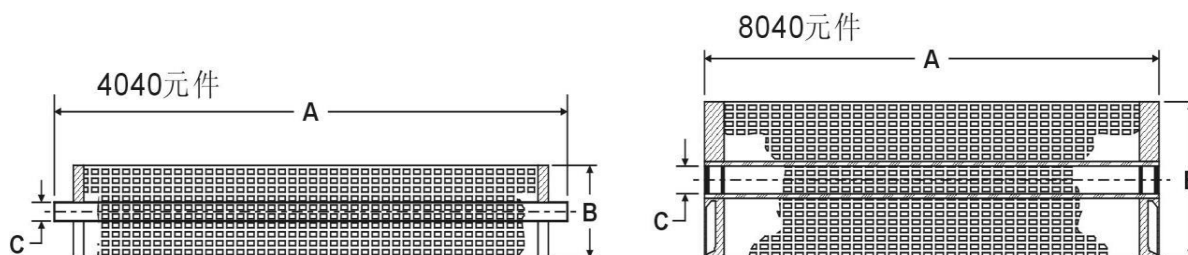
Type	Description	Membrane Parameter*			Working parameter**	
		Capacity GPD/m ³ /d		Salt reject	Pressure Psi(MPa)	Permeate TDS mg/L
		HSRO8040	HSRO4040			
HSRO	thermal disinfection, high salt rejection	8800(33.3)	2200(8.4)	99.7%	180(1.24)	6.6

*Performance test conditions of membrane element: 1500mg / L NaCl aqueous solution, pressure 225psi (1.55Mpa), recovery 15%, 77 ° f (25 °C)

**System application parameter simulation: 500mg / L NaCl aqueous solution, arrangement 2:2:1, average water flux 15gfd (26lmh), recovery 80%, 77 ° f (25 °C), pH = 7

Dimension:

Membrane model	A, inches (mm)	B, inches (mm)	C, inches (mm)	Effective area, ft ² (m ²)
HSRO8040	40.0 (1016)	7.90 (201)	1.125 (28.6) ID	90(8.3)
HSRO4040	40.0 (1016)	3.98 (101)	0.75(1.9) OD	380(35.2)



Operation condition

Max.work pressure: 600 psig (4.14MPa)
 Max free chlorine (PH > 10.5) : < 0.1mg/L
 Max.feed water temp: 113°F (55°C)
 Max. Disinfection temp./pressure: 85/0.17MPa
 Operation PH range: 2.0-10.0
 Chemical cleaning pH range: 1.0-12.0
 Max pressure loss of single membrane shell:60psi (0.41MPa)