

PURAN



Seawater RO Membrane PNSW-440-HR

Description

Puran HR series seawater RO membrane elements have high salt rejection rate of 99.8%. It can be used for seawater desalination, desalination of brackish water with high concentration, boiler replenishment water in power plants, wastewater reuse, concentration and recovery of high value-added substances such as food and pharmaceuticals, etc.

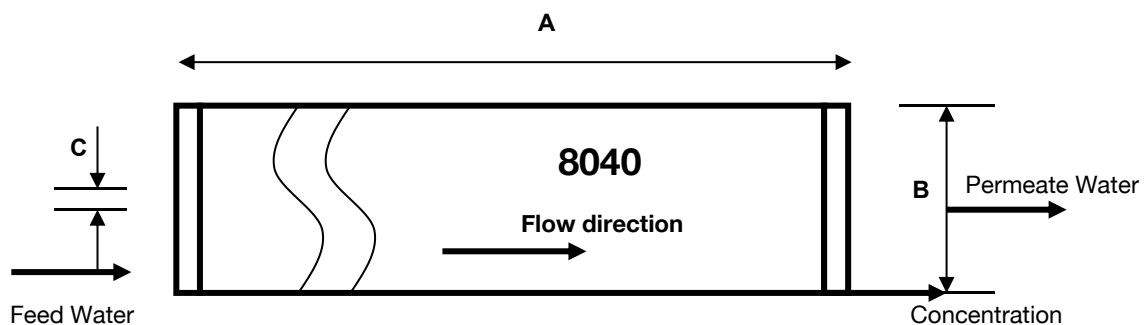
Features

- Seawater membrane sheet
- High salt rejection rate
- Stable performance with long life.

Typical Applications

- Seawater desalination.
- Wastewater treatment.
- Salty water reuse.

Dimension



Sizes - inch (mm)

A	B	C
40(1016)	8(200)	1.125(29)

Technical Parameters

Model	PNSW-440-HR	
Specification	Average rejection rate	99.8%
	Min. rejection rate	99.7%
	Boron rejection rate	90%
	Permeate flow	8250gpd(32m ³ /d)
Type	Configuration	Spiral wound
	Outer wrap	Glass Fiber
	Membrane material	Composite Polyamide
	Membrane area	440ft ² (41m ²)
Application limits	Maximum applied pressure	1200psi (8.28MPa)
	Maximum chlorine concentration	0.1 ppm
	Maximum operating temperature	113 °F (45°C)
	Feedwater pH range continuous working	2.0 - 10.0
	Maximum feedwater turbidity	1.0 NTU
	Maximum feedwater SDI (15 mins)	5.0
	Maximum feed flow	85GPM (19.0m ³ /h)
	Maximum pressure drop for each element	13psi(0.09MPa)

* The limitations shown here are for general use. Operating at more conservative values for specific projects may ensure the best performance and longest life of the membrane.

Test Condition

The stated performance is for the initial data taken after 30 minutes of operation, based on the following test conditions:

- 32000 ppm NaCl solution
- 800psi (55.2bar) applied pressure
- 77°F (25°C) operating temperature
- 7-8 pH range
- 8% permeate recovery

Note

Permeate flow for individual elements may vary +15% or -15%. All membrane elements are supplied with a brine seal, interconnector, and o-rings. Elements are enclosed in a sealed polyethylene bag containing less than 1.0% sodium meta-bisulphate solution and 10% propylene glycol, and then packaged in a cardboard box.