



## Seawater RO Membrane PNSW-8040XLE-440

### Description

Puran XLE series seawater RO membrane elements have stable salt rejection rate of 99.7%. 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.

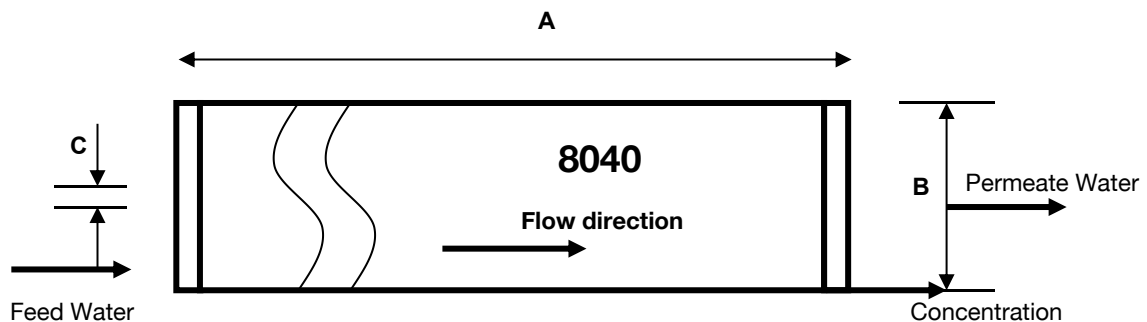
### Features

- 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-8040XLE-440	
Specification	Average rejection rate	99.7%
	Boron rejection rate	90%
	Permeate flow	12100gpd(45.8m <sup>3</sup> /d)
Type	Configuration	Spiral wound
	Outer wrap	Glass Fiber
	Membrane material	Composite Polyamide
	Membrane area	440ft <sup>2</sup> (41m <sup>2</sup> )
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 <sup>3</sup> /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.