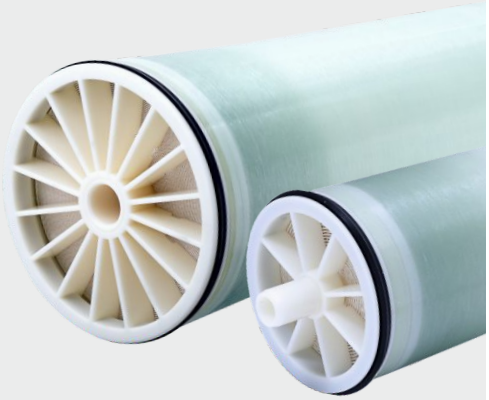
Polymex RO, UF
& NF Membranes



Product Highlights

- Significantly lower membranes system's operating pressure and power consumption.
- Cost-effective.

Key Features

- Low energy consumption
- High salt rejection
- High permeate flow rate
- Improved fouling resistance due to thicker feed spacer

Main Benefits

- A combination of high permeate water quality and energy efficiency

Ideal Applications

- Single and large capacity commercial SW desalination system requiring energy efficiency & moderate permeate water quality like semiconductors, electronics, textiles etc.

Notes

- Permeate flow for individual elements may vary ±15 percent from the value specified
- Active membrane area guaranteed ±4%.
- Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending upon the feedwater characteristics & Operating conditions.

*At the Inlet of this membrane <5 µm Filter should be Provided to prevent blockage of membrane by large particles in Feed Water.

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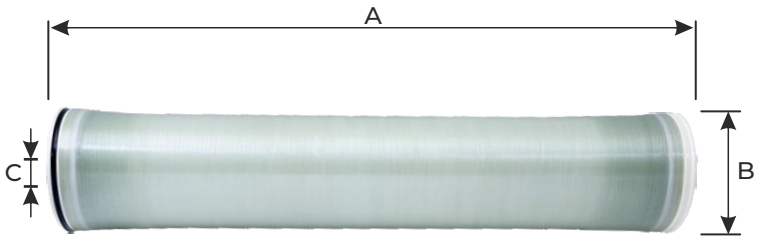
Product Data Sheet

Polymex SW EFR 400 / 34

RO Membrane Module

Polymex SW EFR 400 / 34 series are high-end **extra fouling resistant** RO membranes featuring a thick, dense, flawless, thin film supporting layer with high compression resistance, thick and dense flawless thin film layer. They have good wear and chemical degradation resistance. The membrane element does not need postprocessing during manufacturing. It tolerates a wide range of pH, which enables more efficient and thorough cleaning using regular acid and base, therefore it has high cleaning efficiency. The membrane system can operate long term under lower pressure due to thorough cleaning. Consequently the membrane performs better during its service life. It can significantly reduce operation costs, and bring the best long-term economy to the seawater desalination system.



Product Dimensions

Model	Length A inch (mm)	Length B Inch(mm)	Length C Inch(mm)
SW EFR 400 / 34	40.0"(1016)	7.9"(201)	1. 12"(28.5)

Performance Specifications

FLOW GPD(m^3/d)	REJECTION STABLE (%) BORON	REJECTION (%) STABLE NaCl	REJECTION (%) MINIMUM NaCl	Area ft^2 (m^2)	Feed Spacer (mil)
7500 (28.4)	93.00	99.80	99.70	400 (37.16)	34

Testing Conditions

Operating Pressure	800psi (55 Kg/cm^2)
Tested at	32000ppm NaCL / 5-8 ppm Boron
Temperature	25°C
pH	8.0 ± 0.5
Recovery rate at	8% ± 1%

Operating & Cleaning Limits

· Maximum Operating Pressure	1200 psi (83 Kg/cm^2)
· Maximum Operating Temperature	45°C (113°F)
· Maximum Element Pressure Drop	15 psi (1 Kg/cm^2)
· pH Range Continuous Operation	2-11
· pH Range Short-Term Cleaning	1-13
· Maximum Feed SDI(SDI_{15})	5.0
· Free Chlorine Tolerance	< 0.1 ppm

Note : Each membrane element may have ± 15% variation of permeate flow.