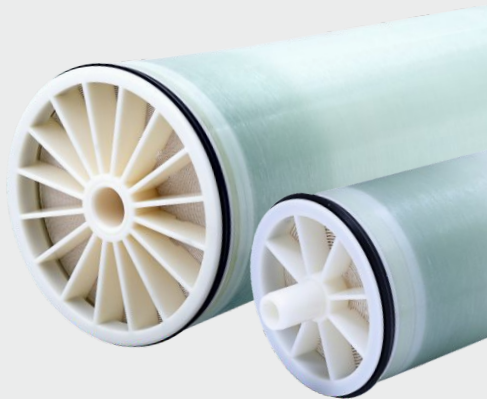




Product Highlights

- 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

- Small industrial & commercial drinking water treatment plant requiring energy efficiency & moderate permeate water quality

Notes

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

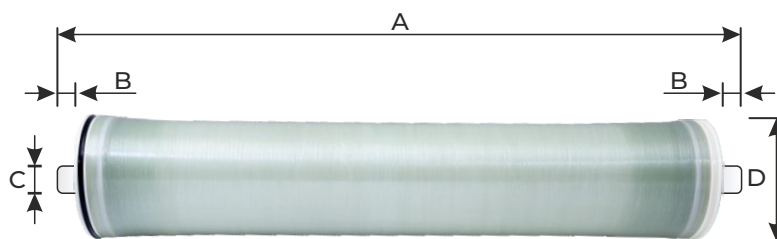
*At the Inlet of this membrane $< 5 \mu\text{m}$ Filter should be Provided to prevent blockage of membrane by large particles in Feed Water.

Product Data Sheet

Polymex LP 4021

RO Membrane Module

Polymex LP 4021 RO membranes are manufactured specifically for commercial RO Plants by adjusting the formula and process conditions of the supporting layer and thin film composite layer. This process alter membrane density and properties. Compared with the traditional brackish water RO membrane, they provide provides 99% rejection rate, at a 33% lower operating pressure. The application of these RO membrane elements reduce the RO system's energy consumption by 1/3, without compromising product water quality.



Product Dimensions

Model	Length A inch (mm)	Length B Inch(mm)	Length C Inch(mm)	Length D Inch(mm)
LP 4021	21.0"(533)	1.04"(26.5)	0.75"(19.1)	3.9"(99)

Performance Specifications

FLOW GPD(m^3/d)	REJECTION STABLE (%)	REJECTION (%) MINIMUM	Area $\text{ft}^2 (\text{m}^2)$	Feed Spacer (mil)
1000 (3.8)	99.00	98.50	36 (3.34)	28

Testing Conditions

Operating Pressure	150psi (10.6 Kg/cm ²)
Tested at	1500ppm NaCL
Temperature	25°C
pH	8.0 $\pm$ 0.5
Recovery rate at	15%

Operating & Cleaning Limits

• Maximum Operating Pressure	600 psi (41 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(SDI15)	5.0
• Free Chlorine Tolerance	< 0.1 ppm

Note : Each membrane element may have $\pm 15\%$ variation of permeate flow.