

Xelect XLP 4040, an Extreme Low Pressure Reverse Osmosis (RO) Membrane Element, is specifically designed to meet the water filtration demands of both commercial and industrial settings. It excels in applications that need effective desalination and purification, including sectors like agriculture and household water filtration systems. Renowned for its dimensions, the membrane spans 4 inches by 40 inches and is celebrated for its exceptional performance and longevity. Operating at low pressure, it stands out as an energy-efficient option for water treatment, capable of removing contaminants at high rates to deliver clean and safe water for a variety of purposes.

Application: It is suitable for desalinating municipal and groundwater with a salt concentration of less than 1000 ppm. This makes it broadly applicable in the production of pure water and various related industries.

Features: With its extremely low operating pressure advantage, it can enhance economic efficiency by saving energy.

Specifications and Parameters

Model	Active Membrane Area ft ² (m ²)	Permeate Flow GPD (T/D)	Stable Rejection Rate (%)
XLP4040	85 (7.9)	2400 (9.1)	99.2

Standard Test Condition:

Concentration of Solution (NaCl)	Temperature (°C)	pH Value	Operating Pressure psi (MPa)	Recovery Rate (%)
500 ppm	25	7.5 - 8	100(0.69)	15

Notes: The permeate flow of single membrane element may vary within ± 15%

Operating Limits and Conditions of Membrane Element:

Max. Working Pressure	600 psi (4.14 MPa)
Max. Feed Water Temperature	45°C
Max. Feed Water Flow	17.0 m ³ /h , 3.6 m ³ /h (4040)
Max. Feed Water SDI	5.0
Free Chlorine Concentration of Feed Water	0.1 mg/L
pH Range of Feed Water during Continuous Operation	2 - 11
pH Range of Feed Water Chemical Cleaning	1 - 13
Max. Pressure Drop of Single Membrane Element	15 psi (0.1 MPa)