

Xelect ULP4040 is a cutting-edge Reverse Osmosis (RO) Membrane Element, ideal for processing municipal and groundwater with salt content below 1500 ppm. Perfect for a range of uses, including home water systems, industrial applications, and food production, it offers superior water quality at reduced pressures, enhancing system efficiency and energy savings. This makes it an excellent choice for various applications seeking reliable and cost-effective water purification solutions.

Application: Suitable for desalinating municipal and groundwater with a salt content below 1500ppm. This versatile membrane is perfect for use in residential water systems, pure water manufacturing, industrial processes, food production, and more.

Features: Exceptional rejection capabilities with minimal operational pressure.

Specifications and Parameters

| Model | Active Membrane Area ft ² (m ²) | Permeate Flow GPD (T/D) | Stable Rejection Rate (%) |
|---------|---|----------------------------|------------------------------|
| ULP4040 | 85 (7.9) | 2600 (9.8) | 99.3 |

Standard Test Condition:

| Concentration of Solution (NaCl) | Temperature (°C) | pH Value | Operating Pressure psi (MPa) | Recovery Rate (%) |
|-------------------------------------|---------------------|----------|---------------------------------|----------------------|
| 1500 ppm | 25 | 7.5 - 8 | 150(1.03) | 15 |

Notes: The permeate flow of single membrane element may vary within $\pm 15\%$

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) |