

U E 4040-PF

Normal grade UF element for RO pretreatment

CSM®

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SPECIFICATIONS :

General Features

Permeate flow rate: 3,500 GPD (13.2 m³/day)
Molecular Weight Cut Off : 50-100K (Daltons)
Effective membrane area: 75 ft² (7.0 m²)

- The stated product performance is based on data taken after 30 minutes of operation at the following test conditions:
 - Concentration: pure water
 - Pressure: 20 psig
 - 77 °F (25 °C)
- Permeate flow rate for each element may vary but will be no more than 20%.
- All elements are vacuum sealed in a polyethylene bag containing 1.0% SBS (sodium bisulfite) solution and individually packaged in a cardboard box.

Membrane type: Homogenous Asymmetric Flat Sheet
Membrane material: Polysulfone (PSF)
Element configuration: Spiral-Wound, Taping

Dimensions

Model Name	A	B	C	D	E	Part Number	
						Inter - connector	Brine Seal
U E40 40-PF	40.0 inch (1,016 mm)	4.0 inch (102 mm)	0.75 inch (19.1 mm)	1.05 inch (26.7 mm)	1.05 inch (26.7 mm)	40000305	40000306



- Each membrane element supplied with one brine seal, one interconnector (coupler) and four o-rings.
- All U E4040 elements fit nominal 4.0 inch (102 mm) I.D. pressure vessels.

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APPLICATION DATA:

Operating Limits

· Max. Pressure Drop / Element	15 psi (0.1 MPa)
· Max. Pressure Drop / 240" Vessel	60 psi (0.41 Mpa)
· Max. Operating Pressure	400 psi (2.78 MPa)
· Max. Feed Flow Rate	18 gpm (4.0 m ³ /hr)
· Min. Concentrate Flow Rate	4 gpm (0.91 m ³ /hr)
· Max. Operating Temperature	113 °F (45 °C)
· Operating pH Range	2.0–11.0
· CIP pH Range	1.0–13.0
· Max. Turbidity	1.0 NTU
· Max. SDI (15 min)	5.0

Design Guidelines for Various Water Sources

· Surface Water (SDI < 5)	10–15 gfd
· Softened Water (SDI < 3)	15–20 gfd
· RO permeate (SDI < 1)	21–30 gfd

GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature (7–32°C; 40–95°F) and should not be stored in direct sunlight. If the polyethylene bag is damaged, a new preservative solution (sodium bisulfite) must be added and air-tight sealed to prevent drying and biological growth.
- Permeate from the first hour of operation should be discarded to flush out the preservative solution.
- Elements should be immersed in a preservative solution during storage, shipping and system shutdowns to prevent biological growth and freezing. The standard storage solution contains 1% by weight sodium bisulfite or sodium metabisulfite (food grade). For short term storage (i.e. one week or less) 1% by weight sodium metabisulfite solution is adequate for preventing biological growth.
- Keep elements moist at all times after initial wetting.
- Avoid excessive pressure and flow spikes.
- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.

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