

UE8040-ES6

PES UF element for fractionation process

SPECIFICATIONS:

General Features	Permeate flow rate:	7,200 GPD (27.2 m ³ /day)
	Molecular Weight Cut Off:	10,000 (Daltons)
	Effective membrane area:	400 ft ² (37.2 m ²)

1. 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)**
- **pH 6.5–7.0**

2. Permeate flow rate for each element may vary but will be no more than 20%.

3. 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:	Polyethersulfone (PES)
Element configuration:	Spiral-Wound, FRP Wrapping

Dimensions and Weight

Model Name	A	B	C	Weight	Part Number	
					Inter-connector	Brine Seal
UE8040-PF	40.0 inch (1,016 mm)	8.0 inch (201 mm)	1.12 inch (28 mm)	15 kg	40000308	40000309



1. Each membrane element supplied with one brine seal, one interconnector (coupler) and four o-rings.
2. All UE8040 elements fit nominal 8.0 inch (201 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	600 psi (4.14 MPa)
· Max. Feed Flow Rate	75 gpm (17.0 m ³ /hr)
· Min. Concentrate Flow Rate	16 gpm (3.6 m ³ /hr)
· Max. Operating Temperature	140 °F (60 °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
· Max. Chlorine Concentration	< 10 mg/L

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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