CSM 8" MEMBRANES

UE8040-PF



Normal grade UF element for RO pretreatment

SPECIFICATIONS:

General Features

Permeate flow rate: 14,000 GPD (52.9 m³/day)

Molecular Weight Cut Off: 50K-100K (Daltons)

Effective membrane area: 400 ft² (37.2 m²)

- 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:

Thin-Film Composite

Membrane material:

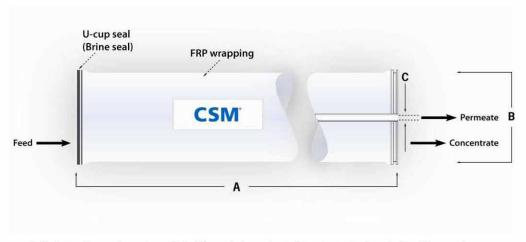
Polysulfone (PSF)

Element configuration:

Spiral-Wound, FRP Wrapping

Dimensions and Weight

					Part N	umber
Model Name	A	В	С	Weight	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 m³/hr)	
	· Max. Operating Temperature	113 °F (45 °C)	
	Operating pH Range	2.0-11.0	
	· CIP pH Range	1.0-13.0	
	· Max.Turbidity	I.0 NTU	
	· Max. SDI (15 min)	5.0	
Design Guidelines for Various	· Surface Water (SDI < 5)	10–15 gfd	
Water Sources	· Softened Water (SDI < 3)	15-20 gfd	
	RO permeate (SDI < I)	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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