

# U E8040 -PF

Normal grade UF element for RO pretreatment

# CSM®

# LENNTECH

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## SPECIFICATIONS :

General Features  
Permeate flow rate: 14,000 GPD ( 52.9 m<sup>3</sup>/day)  
Molecular Weight Cut Off : 50K-100K (Daltons)  
Effective membrane area: 400 ft<sup>2</sup> (37.2 m<sup>2</sup>)

- 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
- 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: Thin-Film Composite  
Membrane material: Polysulfone (PSF)  
Element configuration: Spiral-Wound, FRP Wrapping

## Dimensions and Weight

| Model Name   | A                       | B                    | C                    | Weight | Part Number       |            |
|--------------|-------------------------|----------------------|----------------------|--------|-------------------|------------|
|              |                         |                      |                      |        | Inter - connector | Brine Seal |
| U E 8040 -PF | 40.0 inch<br>(1,016 mm) | 8.0 inch<br>(201 mm) | 1.12 inch<br>(28 mm) | 15 kg  | 40000308          | 40000309   |



- Each membrane element supplied with one brine seal, one interconnector (coupler) and four o-rings.
- All U E 8040 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 <sup>3</sup> /hr) |
|                  | · Min. Concentrate Flow Rate       | 16 gpm (3.6 m <sup>3</sup> /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 airtight 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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