Dairy PT Series
Ultrafiltration – Superior Protein Retention

The Dairy PT Series of polyethersulfone ultrafiltration membrane elements are characterized by a 5,000 molecular weight cut-off. These elements are typically used for protein concentration up to 30% solids from milk, whey and gelatin, when protein retention is key.

The elements feature a Durasan* patented outer-wrap, a selection of feed spacers, and polysulfone parts.

The Dairy PT elements comply with:

- FDA Regulations relevant sections of 21CFR
- EU Framework 1935/2004/EC

Table 1: Element Specification

<table>
<thead>
<tr>
<th>Membrane</th>
<th>P-Series, Polyethersulfone</th>
</tr>
</thead>
</table>

Table 2: Dimensions and Weight

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions, inches (cm)</th>
<th>Boxed Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
<td>B²</td>
</tr>
<tr>
<td>DAIRY PT3838C30</td>
<td>38.0 (96.5)</td>
<td>0.833 (2.12)</td>
</tr>
<tr>
<td>DAIRY PT6338C30</td>
<td>38.0 (96.5)</td>
<td>1.138 (2.89)</td>
</tr>
<tr>
<td>DAIRY PT8038C30</td>
<td>38.0 (96.5)</td>
<td>1.125 (2.86)</td>
</tr>
</tbody>
</table>

1 These elements are bagged dry before shipping.
2 Internal diameter unless specified OD (outside diameter).
3 The element diameter (dimension C) is designed for optimum performance in GE Water & Process Technologies pressure vessels. Other pressure vessel dimension and tolerance may result in excessive bypass and loss of capacity.

Table 3: Operating and CIP parameters

- Typical operating Pressure: 80-135 psi (555 – 931 kPa)
- Typical Operating Flux: 5 – 20 GFD (8 – 34 LMH)
- Maximum Operating Pressure: 200psi (1,379kPa)
- Maximum Temperature: Continuous Operation: 122°F (50°C)
  Clean-In-Place (CIP): 122°F (50°C)
- Clean Water Flux (CWF)²: 47 GFD (80 LMH) @ 30psi and 50°C
- pH range: Continuous Operation: 2.0-10.0
  Clean-In-Place (CIP): 2.0-11.5
- Maximum Pressure Drop: Over an element: 15psi (103kPa)
  Per housing: 60psi (414kPa)
- Chlorine Tolerance: 5,000 ppm days