SUPER-COR® Ultrafiltration Modules

Ultrafiltration Multitube Modules for Juice Processing

**PRODUCT DESCRIPTION**

- **Membrane Material:** PVDF
- **Membrane Type:** Ultrafiltration
- **Molecular Weight Cutoff**:
  - HFM-180: 100,000 Daltons
  - HFM-513: 500,000 Daltons
- **Configuration:** Nineteen (19) ½” diameter tubules in a polysulfone shell
- **Applications:** Juice processing
- **Options:**
  - HFM-180 membrane for light juices
  - HFM-513 for all juices

* The nominal separation range and retention characteristics of the membranes are highly dependent upon the nature of the liquid being processed and on several other operating parameters. This information should, therefore, be used as a guide only

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Model</th>
<th>Membrane Area ft² (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0712010</td>
<td>SUPER-COR® 3010-HFM-180</td>
<td>24 (2.2)</td>
</tr>
<tr>
<td>0712070</td>
<td>SUPER-COR® 3010-HFM-513</td>
<td>24 (2.2)</td>
</tr>
</tbody>
</table>

**OPERATING AND DESIGN INFORMATION**

- **Maximum Operating Pressure:** 90 psi @ 120°F (6.2 bar @ 49°C)
- **Minimum Outlet Pressure:** 10 psi (0.7 bar)
- **Maximum Permeate Pressure:** 3 psi (0.2 bar)
- **Typical Feed Side Pressure Drop Per Module:** 4-5 psi (0.27-0.35 bar)
- **Maximum Feed Side Pressure Drop Per Module:** 5 psi @ 120°F (0.35 bar @ 49 °C)
- **Maximum Operating Temperature at pH 8:**
  - Continuous 120°F (49°C)
  - Short term 130°F (54°C)
- **Allowable pH Range at 120°F (49°C):**
  - Continuous 2.0 – 10.0
  - Short term 1.5 – 10.5
- **Maximum Chlorine (cleaning):** 200 ppm @ pH 10-10.5, 120°F (49°C)

*Consult KSS Process Technology Group for specific applications.

**NOMINAL DIMENSIONS**

- 1” Sanitary
- 120” (3048 mm)
- 3” Sanitary
- 115” (2921 mm)
- 6” (152 mm) Ø
- 3.6” (91mm) Ø
Service and Ongoing Technical Support:
Koch Separation Solutions (KSS) has an experienced staff of professionals available to assist end-users and OEM’s for optimization of existing systems and support with the development of new applications.

KSS Capability
KSS is the leader in crossflow membrane technology, manufacturing reverse osmosis, nanofiltration, microfiltration, and ultrafiltration membranes and membrane systems. The industries we serve include food, dairy, beverage, automotive, water and wastewater, chemical, and general manufacturing. KSS adds value by providing top quality membrane products and by sharing our experience in the design and supply of thousands of crossflow membrane systems worldwide.

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