## Capillary Ultrafiltration Module

### HYDRAcap® MAX 80

<table>
<thead>
<tr>
<th>Performance</th>
<th>Filtrate Flow:</th>
<th>15.7 – 51.0 gpm (3.6 – 11.6 m³/h)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Filtrate Turbidity:</td>
<td>≤ 0.10 NTU</td>
</tr>
<tr>
<td></td>
<td>Bacteria removal:</td>
<td>≥ 4 log</td>
</tr>
</tbody>
</table>

### Type

- **Configuration:** Capillary Ultrafiltration Module
- **Membrane Polymer:** TIPS PVDF
- **Nominal Membrane Area:** 1130 ft² (105 m²)
- **Fiber Dimensions:** ID 0.024" (0.6 mm), OD 0.047" (1.2 mm)
- **Pore size:** 0.08 micron

### Application Data

- **Typical Filtrate Flux Range:** 20 – 65 gfd (34 – 110 l/m²/h)
- **Maximum Applied Feed Pressure:** 73 psig (5.0 bar)³
- **Maximum Transmembrane Pressure:** 30 psig (2.0 bar)
- **Instantaneous Chlorine Tolerance:** 5000 ppm⁴
- **Maximum Chlorine Exposure:** 1,000,000 ppm-hrs
- **Maximum Feed Turbidity:** 300 NTU⁵
- **Maximum Operating Temperature:** 104 °F (40 °C)
- **pH Operating Range:** 2.0 – 11.0
- **Cleaning pH Range:** 1.0 – 13.0
- **Operating Mode:** Outside to Inside Filtration
- **Dead End or Cross flow mode**

### Typical Process Conditions

- **Air Scour Rate:** 7.3 – 9.1 acfm (12.3 – 15.4 m³/h)
- **Air Scour Duration:** 120 – 240 seconds
- **Air Scour Frequency:** Once every 20 – 60 minutes
- **Maintenance Clean Frequency:** 1 – 3 times per day
- **Maintenance Clean Duration:** 20 – 30 minutes
- **Disinfection Chemicals:** NaOCl, ClO₂ or NH₂Cl
- **Cleaning Chemicals:** NaOH, HCl, H₂SO₄ or Citric Acid

### Physical Dimensions

<table>
<thead>
<tr>
<th>A, inches (mm)</th>
<th>B, inches (mm)</th>
<th>C, inches (mm)</th>
<th>Pipe connections</th>
<th>Dry Weight</th>
<th>Wet Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>92.15 (2340.6)</td>
<td>83.11 (2110.9)</td>
<td>87.90 (2232.7)</td>
<td>2” Victaulic</td>
<td>135 lbs (62 kg)</td>
<td>260 lbs (118 kg)</td>
</tr>
</tbody>
</table>

### Certifications:

- NSF61, NSF419 (US LT2ESWTR – Public Drinking Water Compliance)

### Notice:

- Hydranautics also offers HYDRAcap® MAX 80 NON, which is a dummy module with no potting or fiber.
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