Capillary Ultrafiltration Module

**HYDRAcap®40**

### Performance†
- Filtrate Flow: 7.7 – 18.9 gpm (1.8 – 4.3 m³/h)
- Filtrate Turbidity: ≤ 0.07 NTU
- Virus removal: ≥ 4 log
- Bacteria removal: ≥ 4 log

### Type
- Configuration: Capillary Ultrafiltration Module
- Membrane Polymer: Hydrophilic Polyethersulfone
- Nominal Membrane Area: 320 ft² (30 m²)
- Fiber Dimensions: ID 0.031” (0.8 mm), OD 0.055” (1.4 mm)
- Pore size: 0.02 micron

### Application Data‡
- Typical Filtrate Flux Range: 35 – 85 gfd (59 – 145 l/m²/h)
- Maximum Applied Feed Pressure: 73 psig (5 bar)
- Maximum Transmembrane Pressure: 20 psig (1.4 bar)
- Maximum Backwash Transmembrane Pressure: 20 psig (1.4 bar)
- Instantaneous Chlorine Tolerance: 100 ppm
- Instantaneous Hydrogen Peroxide Tolerance: 200 ppm
- Maximum Chlorine Exposure: 200,000 ppm-hrs
- Maximum Instantaneous Feed Turbidity: 100 NTU
- Maximum Operating Temperature: 104 °F (40 °C)
- pH Operating Range: 4.0 – 10.0
- Cleaning pH Range: 1.5 – 13.0
- Operating Mode: Inside to Outside Filtration

### Typical Process Conditions
- Backwash Flux: 100 – 150 gfd (170 – 255 l/m²/h)
- Backwash Duration: 30 – 60 seconds
- Backwash Frequency: 20 – 60 minutes
- Chemical Enhanced Backwash Frequency: 0 – 4 times per day
- Chemical Enhanced Backwash Duration: 1 – 30 minutes
- Disinfection Chemicals: NaOCl, H₂O₂, ClO₂ or NH₂Cl
- Cleaning Chemicals: NaOH, HCl, H₂SO₄, or Citric Acid

### Pipe connections

<table>
<thead>
<tr>
<th>A, inches (mm)</th>
<th>B, inches (mm)</th>
<th>C, inches (mm)</th>
<th>Pipe connections</th>
<th>Weight, lbs. (kg) ave.</th>
</tr>
</thead>
<tbody>
<tr>
<td>43 (1092)</td>
<td>46 1/8 (1172)</td>
<td>47 1/4 (1200)</td>
<td>2” Victaulic</td>
<td>63 (28)</td>
</tr>
</tbody>
</table>

### Certifications:
- NSF61, CDPH, and ETV-NSF Verification

* At 68°F (20°C).
** For 15 minutes or less.
† Typical module performance for most feedwaters.
‡ The limitations shown here are for general use. The values may be more conservative for specific projects to ensure the best performance and longest life of the membrane.

Notice: Weight stated is shipping weight including 1L of a 0.95% solution of sodium bisulfite preservative. Hydranautics also offers HYDRAcap®-NON, which is a dummy module with no potting or fiber.

Hydranautics believes the information and data contained herein to be accurate and useful. The information and data are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. Hydranautics assumes no liability for results obtained or damages incurred through the application of the presented information and data. It is the user’s responsibility to determine the appropriateness of Hydranautics’ products for the user’s specific end uses.

1/15/14

Distributed By:

2450 Business Park Dr. Vista, CA 92081 ☎ (760) 727-3711 ☎ (760) 727-4427
@www.appliedmembranes.com ★ sales@appliedmembranes.com