Capillary Ultrafiltration Module

### HYDRAcap® MAX 40

**Performance**

- Filtrate Flow: 7.5 – 24.4 gpm (1.7 – 5.5 m²/h)
- Filtrate Turbidity: ≤ 0.10 NTU
- Bacteria removal: ≥ 4 log

**Type**

- Configuration: Capillary Ultrafiltration Module
- Membrane Polymer: TIPS PVDF
- Nominal Membrane Area: 560 ft² (52 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)
- Maximum Transmembrane Pressure: 30 psig (2.0 bar)
- Instantaneous Chlorine Tolerance: 5000 ppm
- Maximum Chlorine Exposure: 1,000,000 ppm-hrs
- Maximum Feed Turbidity: 300 NTU
- 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

**Certifications:** NSF61, NSF419 (US LT2ESWTR – Public Drinking Water Compliance)

1. Typical module performance for most feedwaters.
2. 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.
3. At ≤20°C. 58psi (4 bar) between 21 - 30°C. 44 psi (3 bar) between 31 – 40°C.
4. For 60 minutes or less.
5. Higher values can be treated. Consult Hydranautics’ technical staff.

Notice: Hydranautics also offers HYDRAcap® MAX 40-NON, which is a dummy module with no potting or fiber.

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