

ULTRADYN™ FS10-FC-FUS1582

Ultrafiltration Modules

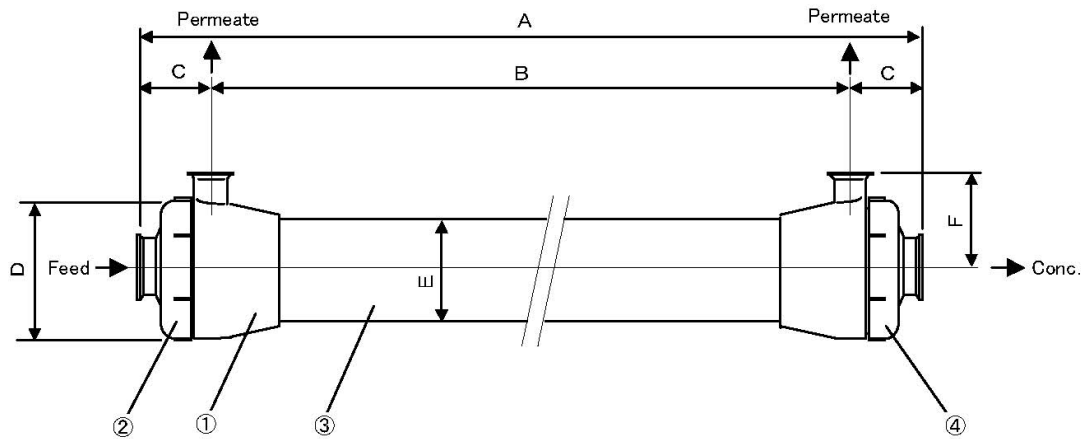
High mechanical strength, backwashable membrane in a wide range of membrane types make ULTRADYN™ hollow fiber modules suitable for all applications requiring a high level of purification and high packing density. ULTRADYN modules are available with polyethersulfone (PES), polyacrylonitrile (PAN) and cellulose tri-acetate (CTA) hollow fiber membrane types and in configurations that can be sterilized with hot water up to 98 °C, eliminating bacterial growth and preventing fouling.

ULTRADYN modules are available with a hollow fiber inner diameter range from 0.5 to 1.4 mm, and module size range from 0.1 m² to 17 m². ULTRADYN hollow fiber modules have proven particularly successful in applications such as wine filtration, pure water filtration, pharmaceuticals, electronics, and surface water treatment.

MEMBRANE CHARACTERISTICS

| | |
|------------------------------------|------------------------|
| Membrane Chemistry | Polyethersulfone (PES) |
| Molecular Weight Cut-Off | 150,000 Dalton |
| Hollow Fiber Inner Diameter | 0.8 mm |

PHYSICAL DIMENSIONS



| | A | B | C | D | E | F |
|--------------------------------|--------------|------------|----------|-----------|----------|-----------|
| Dimension - mm (inches) | 1,129 (44.5) | 985 (38.8) | 72 (2.8) | 130 (5.1) | 89 (3.5) | 100 (3.9) |

| Item | Description | Material | Quantity |
|------|-------------------|---------------------|----------|
| 1 | Nozzle cap | Polysulfone | 2 |
| 2 | Cap | Polysulfone | 2 |
| 3 | Case | Polysulfone | 1 |
| 4 | O-Ring type WG-21 | Fluoro-rubber (FPM) | 2 |
| - | Potting Resin | Epoxy Resin | - |

OPERATING PARAMETERS & MODULE SPECIFICATIONS

| | |
|--|--|
| Membrane Area | 5.0 m ² (53.8 ft ²) |
| Standard Water Flux^a | 5.3 m ³ /h (23 gpm) |
| Shipping Water Flux^a | 4.0 m ³ /h (17.6 gpm) |
| Maximum Feed Inlet Pressure^b | 6 bar (87 psi) |
| Maximum Transmembrane Pressure | 3 bar (44 psi) |
| Maximum Temperature | 98°C (208°F) |
| Applicable pH range | 1 - 13 |
| Standard Inlet Feed Flow^c | 3.8 m ³ /h (16.7 gpm) |
| Operating Weight | 8.5 kg (18.7 lb) |
| Shipping Weight | 2.5 kg (5.5 lb) |
| Standard Preservative | Pure water (heat sterilized) |
| Feed/Conc. Connectors | 2S Ferrule |
| Permeate Connectors | 1S Ferrule |

a Initial water flux by dead end filtration with pure water under TMP 0.1 MPa at 25°C.

b Standard condition is adjusted to 1 m/sec feed velocity. The optimum velocity is different for each application.

c This value is applicable at 25°C.

d Maximum pressures depend on operating temperature. See instruction manual for further information.

* DAICEN Membrane Systems Ltd. is the manufacturer of the ULTRADYN modules and markets and distributes them under the registered trademark MOLSEP®.

CUSTOMIZABLE SPECIALTY ELEMENTS

MANN+HUMMEL Water & Fluid Solutions offers a full range of membranes and element designs for challenging water and process applications. Technologies include low-fouling RO, submerged UF, continuous high temperature, ultra-high pressure, unique sanitary designs and more. Contact us to customize a product that satisfies your specific requirements.

Contact

Europe

Germany: +49 611 962 6001
 Italy: +39 0721 1796201
 info@microdyn-nadir.com

Americas

USA: +1 805 964 8003
 sales.mnus@microdyn-nadir.com

Asia

Singapore: +65 6457 7533
 China: +86 10 8413 9860
 waterchina@mann-hummel.com