

ULTRADYN™ FE10-FC-FUS0353

Ultrafiltration Modules

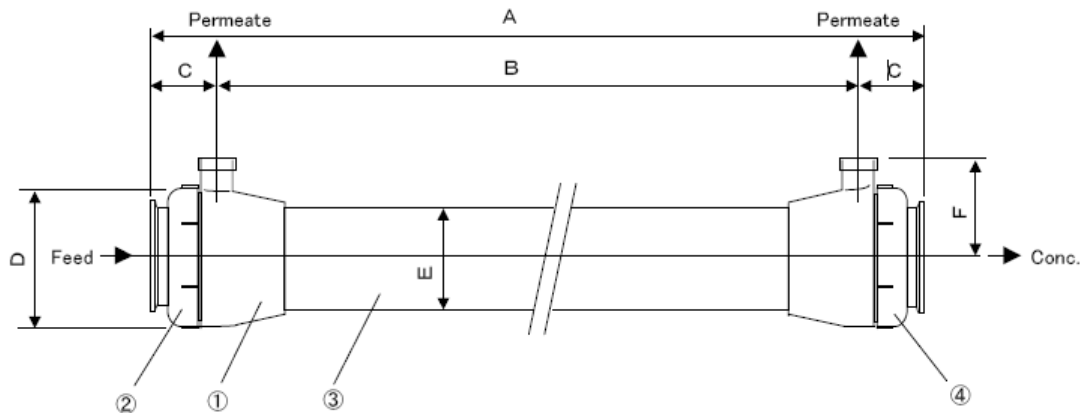
High mechanical strength, backwashable membrane in a wide range of membrane types make ULTRADYN™ hollow fiber modules suitable for all applications requiring a high level of purification and high packing density. ULTRADYN modules are available with polyethersulfone (PES), polyacrylonitrile (PAN) and 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	30,000 Dalton
Hollow Fiber Inner Diameter	0.5 mm

PHYSICAL DIMENSIONS



	A	B	C	D	E	F
Dimension - mm (inches)	1,126 (44.3)	985 (38.8)	70.5 (2.7)	130 (5.1)	89 (3.5)	85 (3.3)

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	-

ACCESSORIES

Item	Description	Material	Quantity
1	Feed/Conc. port joints	Polyvinyl chloride (PVC), TS 40	2
2	Permeate port joints	Polyvinyl chloride (PVC), TS 25	2
3	O-Ring type G-95	Fluoro-rubber (FPM)	2
-	For V-band fitting		-

OPERATING PARAMETERS & MODULE SPECIFICATIONS

Membrane Area	7.8 m ² (83.9 ft ²)
Standard Water Flux^a	4.3 m ³ /h (18.9 gpm)
Shipping Water Flux^a	3.3 m ³ /h (14.5 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	9.0 kg (19.8 lb)
Shipping Weight	3.0 kg (6.6 lb)
Standard Preservative	Pure water (sterilized with 0.005 % w/v sodium hypochlorite)
Feed/Conc. Connectors	V band coupling
Permeate Connectors	25 A

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.

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