

ULTRADYN™ FE10-FC-FUY03A1

Ultrafiltration Modules

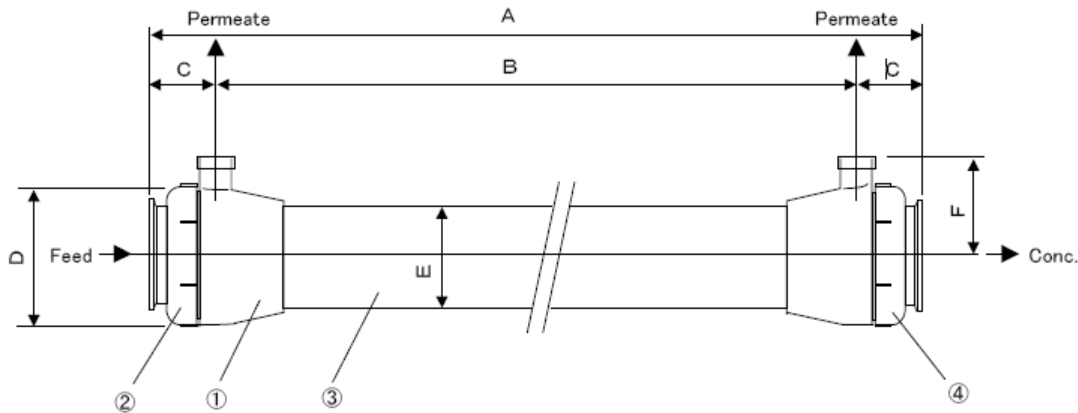
High mechanical strength, backwashable membrane in a wide range of membrane types make ULTRADYN™ hollow fiber modules suitable for all applications requiring a high level of purification and high packing density. ULTRADYN modules are available with polyethersulfone (PES), polyacrylonitrile (PAN) and 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 pure water filtration, pharmaceuticals, electronics, and surface water treatment.

MEMBRANE CHARACTERISTICS

Membrane Chemistry	Polyacrylonitrile (PAN)
Molecular Weight Cut-Off	30,000 Dalton
Hollow Fiber Inner Diameter	1.0 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	4.2 m ² (45 ft ²)
Standard Water Flux ^a	1.3 m ³ /h (5.7 gpm)
Shipping Water Flux ^a	0.9 m ³ /h (3.9 gpm)
Maximum Feed Inlet Pressure ^b	6 bar (87 psi)
Maximum Transmembrane Pressure	3 bar (44 psi)
Maximum Temperature	45°C (113°F)
Applicable pH range	2 ~ 11
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	1000 ppm Benzoic acid
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

MICRODYN-NADIR 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 MICRODYN-NADIR to customize a product that satisfies your specific requirements.

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