

ULTRADYN™ FN20-VP-FUS5082

Ultrafiltration Modules

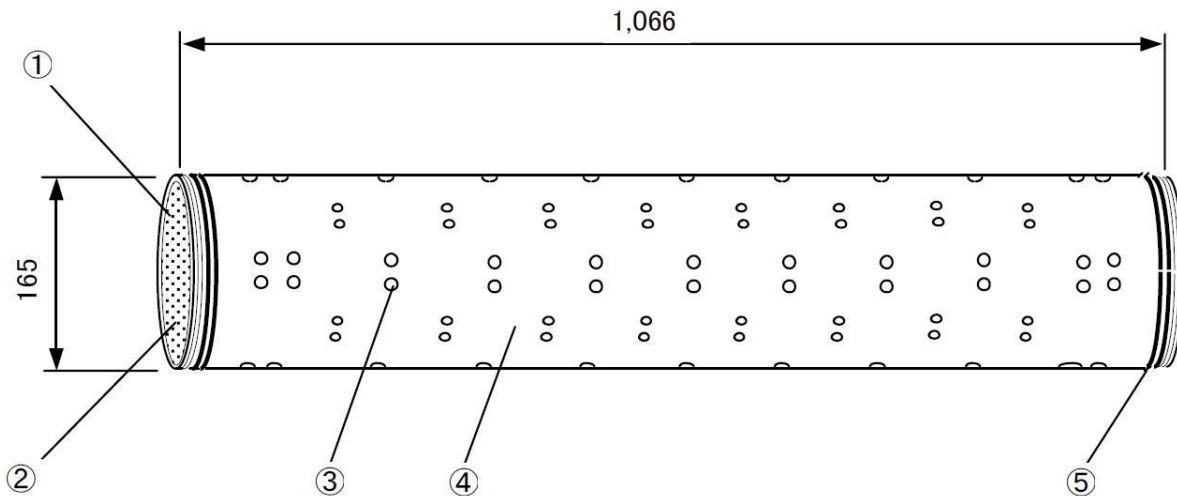
High mechanical strength, backwashable membrane in a wide range of membrane types make ULTRADYN™ hollow fiber modules suitable for all applications requiring a high level of purification and high packing density. ULTRADYN modules are available with polyethersulfone (PES), polyacrylonitrile (PAN) and 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	Polyethersulfone (PES)
Molecular Weight Cut-Off	500,000 Dalton
Hollow Fiber Inner Diameter	0.8 mm

PHYSICAL DIMENSIONS



Item	Description	Material	Quantity
1	Hollow Fiber	Polyethersulfone	-
2	Potting Resin	Polyurethane	-
3	Inner Net	Nylon	1
4	Cartridge Case	Polyvinyl chloride	1
5	O-Ring type WG-36	Ethylene Propylene Rubber (EPM)	4

OPERATING PARAMETERS & MODULE SPECIFICATIONS

Membrane Area	16.0 m ² (172 ft ²)
Standard Water Flux ^a	23.0 m ³ /h (101 gpm)
Shipping Water Flux ^a	18.0 m ³ /h (79 gpm)
Maximum Transmembrane Pressure	3 bar (44 psi)
Maximum Temperature	40°C (104°F)
Applicable pH range	2 ~ 12
Standard Inlet Feed Flow ^c	13.3 m ³ /h (58 gpm)
Operating Weight	23 kg (50.7 lb)
Shipping Weight	16 kg (35 lb)
Standard Preservative	1000 ppm Benzoic acid

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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