UF Membrane
Specifications

Models & Specifications:

PES/PVDF Membrane	Pressure Resistance	Tensile Strength
Tubular support hollow fibre membrane	≤ 6.0 kg/㎠	≤1,000KN

PES (Standard Type) Membrane

- The most general type. Suitable for fields that don't need high tensile force or water processing

PES (Reinforced Type) Membrane

- Includes a 3-strand support made of 36 minute strings. Suitable for fields that need tensile force

PVDF (Standard & Braided Type)

- Standard Type: Suitable for certain fields that need excellent chemical resistance
  Braided Type: Suitable for fields that need chemical resistance, pressure resistance, and high tensile force

PES and PVDF's properties of matter:

- PES was approved by FDA as a heat-resistant transparent material, and can be used in food, medical supplies, supplies for children, etc.

Polyether Sulfone (PES)

Molecular weight	Approximately 50,000
Long-term heat resistance	180 ~ 200°C
Creep resistance, chemical resistance	

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Q-Tec

Polyether Sulfone (PES)

Molecular weight	Approximately 300,000
Long-term heat resistance	Approximately 150°C
Excellent chemical resistance and durability	
Excellent mechanical properties	
Uses Zenon, Asai-Kasei, etc.	

Specifications

Description	Model	PHF -220	PHF -420	PHF -440A	PHF -440B	PHF -650	PHF -840
Membrane Property	Filtration Type	Outside-in					
	Nominal Pore Size(㎛)	0.2					
	Outer Surface Area (m2)	3.7	7.5	10	15	28	35
	Inside Diameter(mm)	0.36	0.36	0.6	0.6	0.6	0.6
	Outside Diameter(mm)	0.57	0.57	0.9	0.9	0.9	0.9
Module Specification Material	Length(inch)	20	20	40	40	50	40
	Diameter(inch)	2	4	4	4	6	8
	Membrane	PES (poly ether sulfone) / PS (poly sulfone)					
	Housing	Acrylic/ STS304	PVC	PVC	PVC	PVC	PVC
	Potting	PU (Poly urethane)					
Performance	Design FLUX(e/m2hr)	80~240					
	Design Capacity(m3/hr)	0.3~0.9	0.6~1.8	0.8~2.4	1.2~3.6	2.2~6.6	2.8~8.4
	Allowable Pressure(Kgf/cm2)	< 3					
	Allowable Temperature(°C)	< 45					
	pH	3~12					

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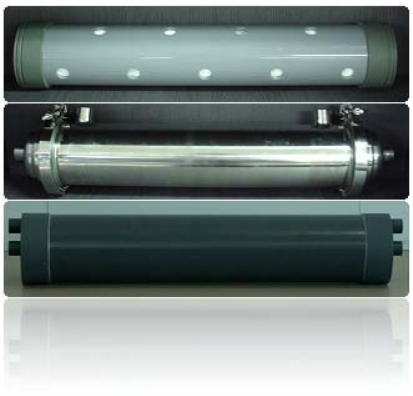
Types

1. Housing Type : purification plant, gray-water and main filter



2. Cartridge Type :

Underground water, a drink, spring water manufacturing process and main filter

Applicable areas

Waste & foul water treatment	Domestic animals' waste water treatment	Heavy water treatment
Super-pure production pre-treatment Wastewater recycle treatment Combined septic tank treatment Town wastewater treatment	Yellow soil treatment for wastewater and turbid water Cooling water treatment Restaurant wastewater treatment	Treatment of drinking water and usable water in buildings Drinking mineral water treatment Treatment for wastewater reclamation and reusing systems
Pre-treatment for desalinated sea water Leachate treatment Industrial water Swimming pool water treatment	Water service treatment Water purification treatment for lakes and rivers Water treatment for organic industry and wastewater Remove bacteria from ground water	