

UFF160 Hollow Fiber UF Membrane Module

1. Product Overview

UFF160 capillary hollow fiber membrane is high polymer material, which will not have any phase change. Modified PVDF material, which is adopted on this product, has good permeable rate, good mechanical properties, good chemical resistance and pollution resistance. MWCO is 200K Dalton, membrane ID/OD is 0.8mm/1.3mm, filtering type is outside-in.

2. Applications

- Drinking water treatment of tap water, surface water, well water and river water;
- Pretreatment of RO;
- Treatment, recycle and reuse of industrial waste water.

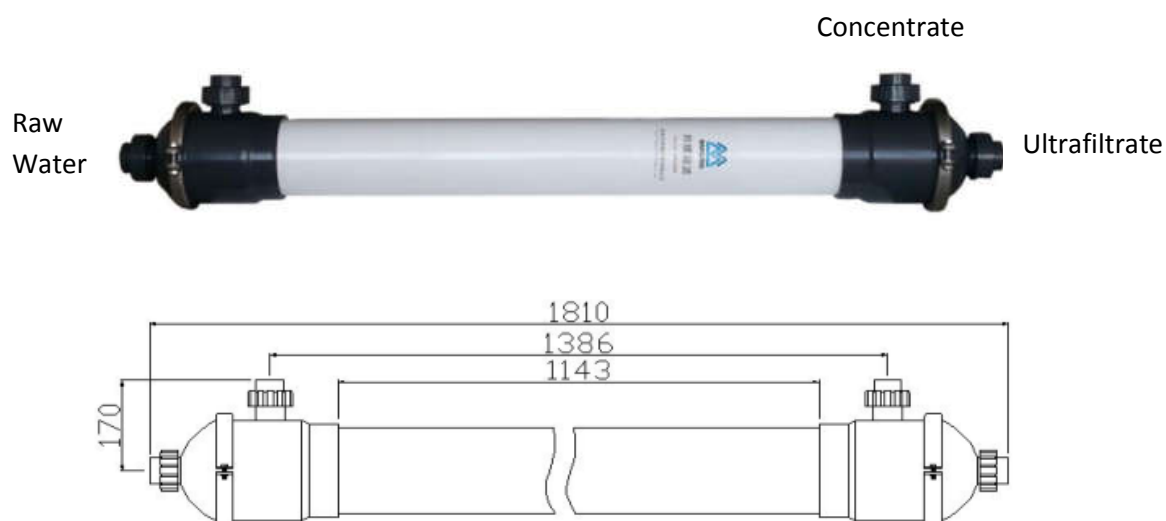
3. Filtration Performance

This product is proven to have below filtering effects according to the service conditions of different water sources:

Ingredient	Effect
SS, Particles > 1μm	Removal Rate ≥ 99%
SDI	≤ 3
Bacteria, Viruses	> 4 log
Turbidity	< 1NTU
TOC	Removal Rate: 0-25%

*Above data is obtained under the condition that feeding water turbidity is < 25NTU.

4. Product Parameters



● Technical Parameters:

Filtering Type	Outside-in
Membrane Material	Modified PVDF
MWCO	200K Dalton
Membrane Area	40m ²
Membrane ID/OD	0.8mm/1.3mm
Dimensions	Φ160mm*1810mm
Connector Size	DN40 Union Joint

● Application Data:

Pure Water Flux	8,000L/H (0.15MPa, 25℃)
Designed Flux	40-120L/m ² .hr (0.15MPa, 25℃)
Suggested Working Pressure	≤ 0.2MPa
Maximum Transmembrane Pressure	0.15MPa
Maximum Backwashing Pressure	0.15MPa
Air Washing Volume	0.1-0.15N m ³ /m ² .hr
Air Washing Pressure	≤ 0.1MPa
Maximum Working Temperature	45℃
PH Range	Working: 4-10; Washing: 2-12
Operating Mode	Cross Flow

● Feeding Water Requirements:

Before feeding water, a security filter < 50μm should be set to prevent blockage caused by large particles in raw water.

Turbidity	≤ 25NTU
Oil & Grease	≤ 2mg/L
SS	≤ 20mg/L
Total Iron	≤ 1mg/L
Continuous Residual Chlorine	≤ 5ppm
COD	Suggested ≤ 500mg/L

*Material of UF membrane is polymer organic plastic, there must not be any organic solvents in raw water.

- Operating Parameters:

Backwashing Flow Rate	100-150L/m ² .hr
Backwashing Frequency	Every 30-60min.
Backwashing Duration	30-60s
CEB Frequency	0-4 times per day
CEB Duration	5-10min.
CIP Frequency	Every 1-3 months
<u>Washing Chemicals:</u>	
Sterilization	15ppm Sodium Hypochlorite
Organic Pollution Washing	0.2% Sodium Hypochlorite + 0.1% Sodium Hydroxide
Inorganic Pollution Washing	1-2% Citric Acid/0.2% Hydrochloric Acid

- Component Material:

Component	Material
Membrane	Modified PVDF
Sealing	Epoxy Resins
Housing	UPVC