



UF Membrane Product Specification (UF03-160)

1. General Description

Model: UF03-160

Manufacturer: Anhui Cooperate Environment Technology Co., Ltd.

Type: Outside-in, Pressurized Hollow Fiber Ultrafiltration (UF) Membrane Module

Application: Drinking water purification, NF/RO pretreatment, municipal & industrial wastewater treatment, reclaimed water reuse projects, food & beverage, pharmaceutical water pretreatment.

2. Performance Specifications

Item	Specification
Membrane Material	PVDF (Hydrophilically Modified)
Nominal Pore Size	0.03 μm
Effective Membrane Area	33 m^2
Module Dimensions	$\Phi 160 \times 1800 \text{ mm}$
Design Flux (20°C)	1.8~2.5 m^3/h per module
Max. Permeate Flow	6.0 m^3/h per module
Max. Operating Pressure	0.60 MPa
Max. Trans-membrane Pressure (TMP)	0.20 MPa
Max. Backwash Pressure	0.25 MPa
Operating Temperature	1~40 °C
Operating pH Range	2~11
Cleaning pH Range	1~12
Dry Weight	Approx. 25 kg
Wet Weight	Approx. 41 kg
Filtration Mode	Dead-end / cross-flow

3. Product Features

- High-Strength PVDF Membrane: Adopts hydrophilically modified PVDF material, featuring excellent chemical stability, acid and alkali resistance, and oxidation resistance, ensuring long service life under complex water quality conditions.
- Superior Anti-Fouling Performance: Outside-in filtration design, easy to clean through backwash and air scour, effectively removing pollutants on the membrane surface and

maintaining stable flux.

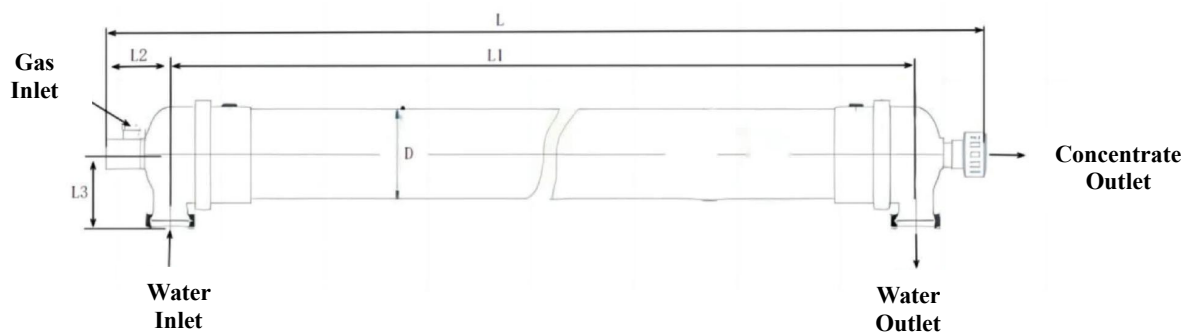
- High Permeability: Stable design flux, low energy consumption, and high treatment efficiency, suitable for large water volume treatment with compact equipment and small footprint.
- Reliable Quality: All modules undergo strict integrity testing before delivery, ensuring no leakage and safe operation in practical applications.
- Flexible Application: Suitable for various scenarios such as drinking water purification, RO pretreatment, and wastewater reuse; compatible with automatic control systems for fully automated operation.

4. Recommended Operating Conditions

- Inlet turbidity: ≤ 20 NTU
- Backwash duration: 30~60 seconds per cycle
- Air scour flow rate: 0.5~1.0 Nm³/h per module
- Chemical enhanced backwash (CEB): Recommended with NaClO, citric acid, NaOH
- Maintenance cleaning: Periodic soaking with NaClO and acid as needed

5. Mechanical & Structural Parameters

- Module shell: UPVC
- Sealing material: Epoxy resin + EPDM
- Connection port: Standard flange / threaded connector (according to assembly)



UF03-160 Dimensional Size									
Item	L	L1	L2	L3	L4	D	Inlet	Outlet	Concentrate
Unit (mm)	1816	1730	1386	172	130	160	DN32	DN32	DN32

