



## UF Membrane Product Specification (UF01-160)

### 1. General Description

Model: UF01-160

Manufacturer: Anhui Cooperate Environment Technology Co., Ltd.

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

Application: Drinking water purification, RO pre-treatment, reuse water projects, municipal & industrial wastewater treatment, etc.

### 2. Performance Specifications

Item	Specification
Membrane Material	PVDF (reinforced hollow fiber)
Nominal Pore Size	0.03 $\mu\text{m}$
Effective Membrane Area	40 $\text{m}^2$
Module Dimensions	$\Phi 160 \times 1800$ mm
Design Flux (20°C)	1.8~2.5 $\text{m}^3/\text{h}$ per module
Maximum Permeate Flow	6.0 $\text{m}^3/\text{h}$ 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. 16 kg
Wet Weight	Approx. 20 kg
Filtration Mode	Dead-end / cross-flow

### 3. Product Features

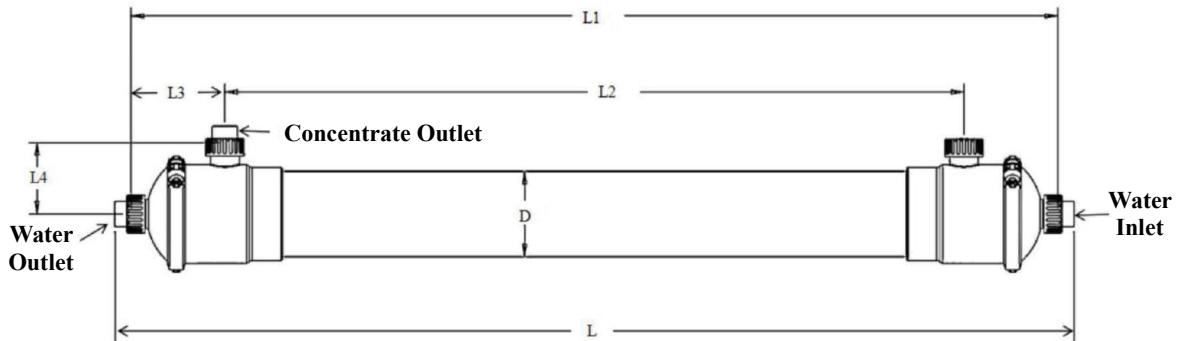
- High-strength PVDF hollow fiber with excellent oxidation and chemical resistance
- Stable permeability and strong anti-fouling performance
- High packing density, compact structure, small footprint
- Suitable for long-term continuous operation
- Fully tested before delivery for integrity and performance

#### 4. Recommended Operating Conditions

- Inlet turbidity:  $\leq 20$  NTU
- Backwash duration: 30~60 seconds per cycle
- Air scour flow rate: 0.5~1.0 Nm<sup>3</sup>/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)



UF01-160 Dimensional Size									
Item	L	L1	L2	L3	L4	D	Inlet	Outlet	Concentrate
Unit (mm)	1816	1730	1386	172	130	160	DN32	DN32	DN32

