



UF Membrane Product Specification (UF05-180)

1. General Description

Model: UF05-180

Manufacturer: Anhui Cooperate Environment Technology Co., Ltd.

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

Application: municipal water, wastewater reuse, RO pretreatment, and industrial process water.

2. Performance Specifications

Item	Specification
Membrane Material	Hydrophilic PVDF
Nominal Pore Size	0.02 μm
Effective Membrane Area	56 m^2
Module Dimensions	$\Phi 180 \times 1919$ mm
Design Flux (20°C)	1.8~2.5 m^3/h per module
Maximum Permeate Flow	6.0 m^3/h per module
Max. Operating Pressure	0.60 MPa
Max. Air Flow	5.1 m^3/h
Max. Backwash Flow	1.8 m^3/h per module
Operating Temperature	1~40 °C
Operating pH Range	2~11
Cleaning pH Range	1~12
Dry Weight	Approx. 32 kg
Wet Weight	Approx. 36 kg
Filtration Mode	Dead-end / cross-flow

3. Product Features

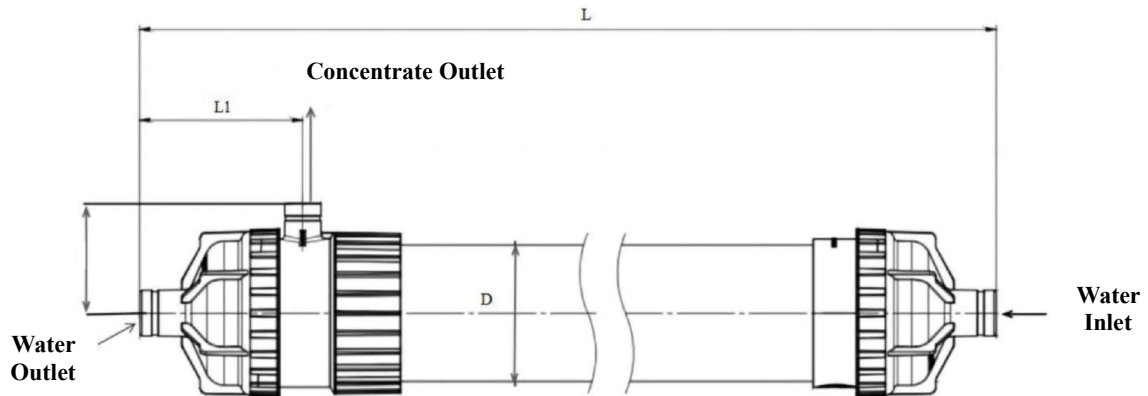
- 0.02 μm absolute: Removes bacteria, viruses, colloids, SDI ≤ 2.5
- High solids tolerance: Handles up to 200 NTU peaks with AS/BW
- Fouling-resistant PVDF: Lower cleaning frequency, longer life
- Strong & durable: Withstands pressure spikes and chemical exposure
- RO-ready: Consistent <0.1 NTU filtrate for reliable RO operation
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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)



UF05-180							
Item	L	L1	L2	D	Inlet	Outlet	Concentrate
(mm)	1919	216	145	180	DN50 Copylin	DN50 Copylin	DN50 Copylin

