



UF Membrane Product Specification (UF04-165)

1. General Description

Model: UF04-165

Manufacturer: Anhui Cooperate Environment Technology Co., Ltd.

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

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

2. Performance Specifications

Item	Specification
Membrane Material	PVDF (Hydrophilically Modified)
Nominal Pore Size	0.03 μm
Effective Membrane Area	50 m^2
Module Dimensions	$\Phi 165 \times 2418 \text{ mm}$
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. 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. 30 kg
Wet Weight	Approx. 60 kg
Filtration Mode	Dead-end / cross-flow

3. Product Features

- High Flux: 50 m^2 area, high permeability PVDF
- High Strength: Resistant to breakage, long service life
- High Turbidity Resistance: Direct treatment up to 200 NTU with AS/BW
- Low Chemical Usage: Effective cleaning with standard chemicals
- RO-Ready: Produces <0.1 NTU filtrate, ideal for RO pretreatment



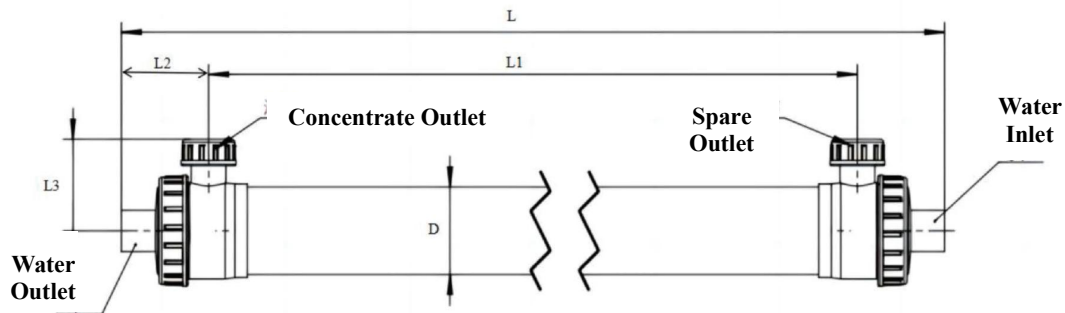
COOPERATE

4. Recommended Operating Conditions

- Inlet turbidity: ≤ 50 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)



UF04-165								
Item	L	L1	L2	L3	D	Inlet	Outlet	Concentrate
(MM)	2418	1988	215	164.5	165	PVC quick coupler	PVC quick coupler	DN40

