

Seven-bore UF Membrane Module

Product Specification

(UF-219S-55)

1. General Description

Model: UF-219S-55

Manufacturer: Anhui Cooperate Environment Technology Co., Ltd.

Type: Inside-out Pressurized Hollow Fiber Ultrafiltration (UF) Membrane Module

Application: Industrial utility water, industrial wastewater reuse, municipal wastewater reuse, municipal drinking water, RO/NF pretreatment.

2. Performance Specifications

Material	m-PES (PVP Cross-linked IPN)
Number of pores membrane fiber	7
Inner diameters	0.9mm
Outer diameters	3.8±0.2mm
Membrane Area	55m ²
Operation Transmembrane Pressure	0.2-2.0bar
Backwash Transmembrane Pressure	0.3-3.0bar
Operation/Cleaning pH Range	1-11/1-13
Operation Temperature	1-40°C/45°C (Non-consecutive operation)
Operation Flux	60-180L/(m ² *h*bar)
Backwash Flux	200-300L/(m ² *h*bar)
Operation Cycle	20-60min
Soak Time	3-5min
Backwash Time	30-60s
Dosing Backwashing Cycle	12-48h
Free Chlorine Content	Max. 200ppm (200,000ppm*h, pH≥9.5)

3. Product Features

- 0.02um pore size produces high quality filtrate
- Large filtration area and high permeate flux
- Outstanding mechanical durability against breakage
- Excellent chemical resistance
- Typical permeate SDI<3, turbidity <0.1NTU

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)

