



UFP90 Series

4" PVC Hollow Fiber Ultrafiltration Membrane Module

Description

Hongtek UFP90 Series Hollow Fiber PVC Ultrafiltration Membrane Module are made of modified PVC (polyvinyl chloride) hollow fiber ultrafiltration membrane, which has the characteristics of large flux, high strength, acid and alkali resistance, and drug resistance washing. The membrane module housing is made of UPVC material and is subjected to a pressure more than 1MPa.

Hollow fiber PVC UF membrane modules can be used in cross-flow filtration or dead end filtration operation. Contaminants can be removed through regular physical and chemical cleaning to ensure long-term stable operation of the membrane system. PVC ultrafiltration membrane module is widely used in industrial filtration and reverse osmosis pretreatment systems.



Specification

Module	UFP90
Element size	Ø90×1190mm
Membrane material	PVC
Active membrane area	4.8m²
ID/OD of hollow fiber	1.0mm/1.8mm
MWCO	100000 Dalton
Filtration rating	0.01 micron
Material of end seal	Epoxy resins
Material of housing	UPVC
Inlet pipe	DN25 OD 32mm PVC pipe
Produced water outlet pipe	DN25 OD 32mm PVC pipe
Concentrated water outlet pipe	DN25 OD 32mm PVC pipe

Feature

- High water production flux and high water recovery rate
- Low pressure operation, low energy consumption and cost saving
- Internal and external double cortex, double layer filtration and good effluent quality
- The surface of membrane is smooth, the contaminant falls off easily and easy to clean
- Long working life, membrane is resistant to acid and alkali and has good drug resistance

Application

- Surface water treatment
- RO system pretreatment
- Industrial water treatment
- Mineral water production line
- Industrial wastewater deep treatment reuse
- Municipal sewage advanced treatment reuse
- Residential and commercial water treatment

Sizes of UF Membrane Module



Performance

Membrane water flow mode	Inside to outside
Operation mode	Cross-flow filtration or dead end filtration
Pure water flow	350L/m².h 25°C, 0.15Mpa
Designed water flow	40-100L/m².h
Maximum operating pressure	0.3Mpa
Maximum transmembrane pressure	0.2Mpa
Operating temperature range	5-45°C
Influent water turbidity	<15NTU
Produced water turbidity	<0.1NTU
Produced water SS	≤1mg/L
Produced water SDI	≤3
Operation PH Range	2-12
Bacterial virus removal rate	>4log

Work Principle of PVC UF Membrane



- PVC hollow fiber ultrafiltration membrane water flow mode is from inside to outside
- PVC ultrafiltration membrane has strong anti-staining ability, resistant to acid and alkali & good drug resistance
- Inside to outside flow mode of PVC ultrafiltration is suitable for raw water with low turbidity and low suspended matter content
- Stable production water quality, high porosity and uniform distribution, good mechanical strength and strong anti-pollution ability
- The filtration rating of PVC UF membrane is 0.01 micron, particles such as macromolecules, suspended solids and colloids are trapped inside the membrane
- When the UF membrane module is running, the pollutants are trapped on the inner surface of the membrane silk, there is no dead angle problem and easier to be washed

Tech Support

Project Case of 4" Hollow Fiber PVC Ultrafiltration Membrane Module



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