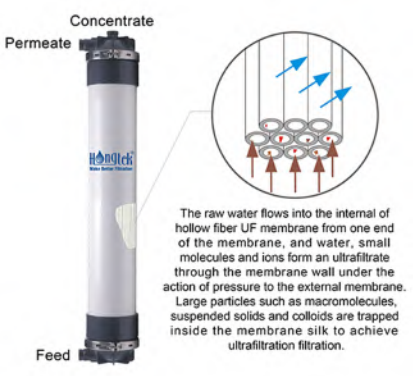
Hongtek
Make Better Filtration

UFP250 Series

10" PVC Hollow Fiber Ultrafiltration Membrane Module

Description

UFP250 Series 10" PVC Hollow Fiber UF Membrane Filter Module is made of modified PVC hollow fiber membrane and used to further improve the anti-pollution performance and anti-attenuation performance of the membrane while maintaining high flux and high hydrophilicity, and to update the ultrafiltration experience for customers. The internal pressure type structure of 10" PVC UF membrane filter can effectively remove suspended solids, colloids and microorganisms in water, and is widely used in the fields of groundwater and surface water purification, sewage treatment, water reuse, seawater desalination pretreatment etc.. PVC hollow fiber ultrafiltration membrane has high filtration precision, good production water quality, optimized fluid distribution and economical operation.



Specification

Module	UFP250
Element size	Ø250×1710mm
Membrane material	PVC
Active membrane area	48m²
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	DN50 OD 56mm PVC pipe
Produced water outlet pipe	DN50 OD 56mm PVC pipe
Concentrated water outlet pipe	DN50 OD 56mm PVC pipe

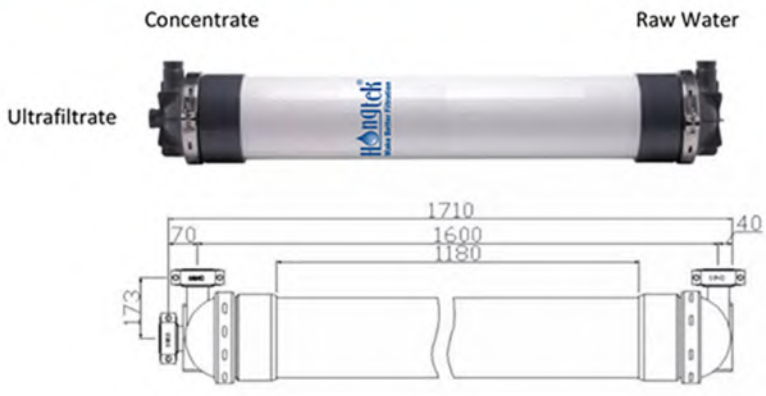
Feature

- PVC UF membrane filter has high filtration precision and good production water quality
- PVC hollow fiber membrane has more resistant to pollution and more resistant to decay
- High strength of the membrane, not easy to break, is subjected to a pressure more than 1MPa
- Optimize fluid distribution and operate economically, widely used for industrial water treatment
- PVC UF membrane module is internal pressure type structure and wide application range of water quality

Application

- RO pre-treatment
- Condensate water reuse
- Drinking water treatment
- Seawater desalination project
- Industrial waste water treatment
- Food and beverage filtration system
- Waste water deep treated for recycling
- Pharmaceutical industry water treatment

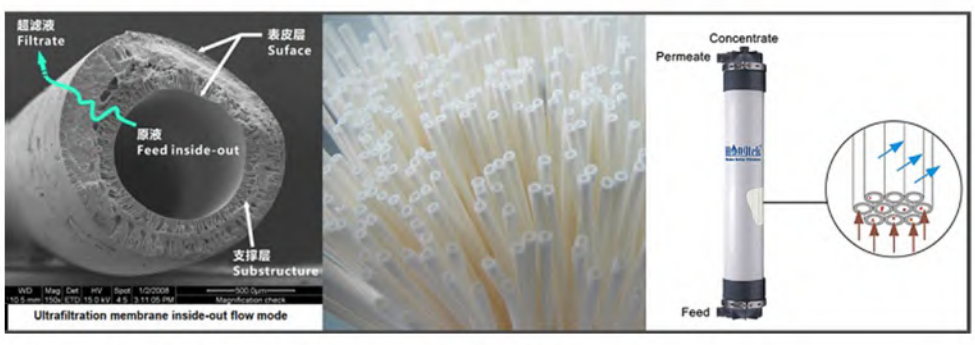
Sizes of UF Membrane Module



Performance

Membrane water flow mode	Inside to outside
Operation mode	Cross-flow filtration or dead end filtration
Pure water flow	13t/h. 25℃. 0.15Mpa
Designed water flow	40-100L/㎡.h
Maximum operating pressure	0.3Mpa
Maximum transmembrane pressure	0.2Mpa
Operating temperature range	5-45℃
Influent water turbidity	<15NTU
Produced water turbidity	<0.1NTU
Produced water SS	≤1mg/L
Produced water SDI	≤3
Operation PH Range	Working: 4-10, Washing: 2-12
Bacterial virus removal rate	>4log

Work Principle of PVC UF Membrane



- Hollow fiber PVC membrane water flow mode is from inside to outside
- PVC ultrafiltration membrane is resistant to acid and alkali and has good drug resistance
- PVC UF membrane module can be used in cross-flow filtration or dead end filtration operation
- PVC ultrafiltration membrane is low pressure operation, low energy consumption and cost saving
- Rating is 0.01 micron, particles such as macromolecules, suspended solids and colloids are trapped inside
- The impurities 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 10" PVC Ultrafiltration Membrane

Reclaimed water reuse in cement plant 5000m3/d

Process: cement plant wastewater-coagulation sedimentation-quartz sand filter-security filter-UF membrane-reuse

Equipment parameters: UFP250 10" PVC hollow fiber UF membrane module, 32pcs/group, 2 groups, 64pcs in total, design operating flux 50L/m2.h

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