



# UFP200 Series

## 8" PVC Hollow Fiber Ultrafiltration Membrane Module

### Description

UFP200 Series 8" Hollow Fiber PVC UF Membrane Module is made of modified PVC hollow fiber membrane with hydrophilicity, high strength, high flux, strong anti-pollution ability and high oxidation resistance ensures a longer service life of the ultrafiltration membrane module. 0.01micron nominal membrane pore of hollow fiber PVC UF membrane can remove bacteria, viruses, microorganisms, particulate matter, colloids and macromolecular organics, effectively ensuring the effluent effect or protecting subsequent process equipment. Larger effective filtration area, improved design water production of PVC UF membrane module, saving equipment input cost. Internal pressure structure makes cleaning more thorough and prolongs the service life of PVC UF membrane module.



### Specification

<b>Module</b>	<b>UFP200</b>
<b>Element size</b>	<b>Ø200×1350mm</b>
<b>Membrane material</b>	<b>PVC</b>
<b>Active membrane area</b>	<b>24m<sup>2</sup></b>
<b>ID/OD of hollow fiber</b>	<b>1.0mm/1.8mm</b>
<b>MWCO</b>	<b>100000 Dalton</b>
<b>Filtration rating</b>	<b>0.01 micron</b>
<b>Material of end seal</b>	<b>Epoxy resins</b>
<b>Material of housing</b>	<b>UPVC</b>
<b>Inlet pipe</b>	<b>DN50 OD 56mm PVC pipe</b>
<b>Produced water outlet pipe</b>	<b>DN50 OD 56mm PVC pipe</b>
<b>Concentrated water outlet pipe</b>	<b>DN50 OD 56mm PVC pipe</b>

### Application

- Purification of tap water
- Domestic sewage treatment
- RO membrane pretreatment
- Food and beverage filtration
- Industrial wastewater treatment
- Pretreatment of seawater desalination

### Feature

- PVC UF membrane has strong chemical resistance, wide application range
- Good sealing of components, easy backwashing, stable good water quality
- UF membrane module has large filtration area, large flow, and small footprint
- Strong anti-pollution ability, good mechanical performance and long service life
- PVC UF membrane module using dead end filtration or cross-flow filtration method

### Sizes of UF Membrane Module



### Performance

<b>Membrane water flow mode</b>	<b>Inside to outside</b>
<b>Operation mode</b>	<b>Cross-flow filtration or dead end filtration</b>
<b>Pure water flow</b>	<b>6.5t/h, 25℃, 0.15Mpa</b>
<b>Designed water flow</b>	<b>40-100L/m<sup>2</sup>.h</b>
<b>Maximum operating pressure</b>	<b>0.3Mpa</b>
<b>Maximum transmembrane pressure</b>	<b>0.2Mpa</b>
<b>Operating temperature range</b>	<b>5-45℃</b>
<b>Influent water turbidity</b>	<b>&lt;15NTU</b>
<b>Produced water turbidity</b>	<b>&lt;0.1NTU</b>
<b>Produced water SS</b>	<b>≤1mg/L</b>
<b>Produced water SDI</b>	<b>≤3</b>
<b>Operation PH Range</b>	<b>2-12</b>
<b>Bacterial virus removal rate</b>	<b>&gt;4log</b>

### 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 8" PVC Ultrafiltration Membrane



Rural drinking water reconstruction 1200m3/d

Process: Mountain Spring Water - Quartz Sand Filter - Laminated Filter - UF Membrane - Disinfection - User

Equipment parameters: UFP200 membrane module, 18pcs/group, 2 groups, 36 pieces, design operating flux 75L/m2.h

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