

# UFP160 Series

## 6" PVC Hollow Fiber Ultrafiltration Membrane Module

### Description

Hongtek UFP160 Series 6" PVC UF Membrane Module is made of high quality modified PVC hollow fiber ultrafiltration membrane. PVC ultrafiltration membrane has internal and external double cortical structure, and the effluent is filtered by double layer. Hollow fiber PVC membrane can still guarantee excellent filtration effect under the operating conditions of frequent fluctuation of raw water and poor water quality. End cap and clamp structure make UFC160 Series PVC UF Membrane module pressure capacity exceed 1MPa. PVC ultrafiltration membrane has good anti-aging, acid and alkali resistance and chemical stability. 6" Industrail PVC membrane module is small footprint, compact design, modular design for medium-sized water treatment systems.



### Specification

<b>Module</b>	<b>UFP160</b>
<b>Element size</b>	<b>Ø160mm×1415mm</b>
<b>Membrane material</b>	<b>PVC</b>
<b>Active membrane area</b>	<b>16m<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>DN40 OD 40mm PVC pipe</b>
<b>Produced water outlet pipe</b>	<b>DN40 OD 40mm PVC pipe</b>
<b>Concentrated water outlet pipe</b>	<b>DN40 OD 40mm PVC pipe</b>

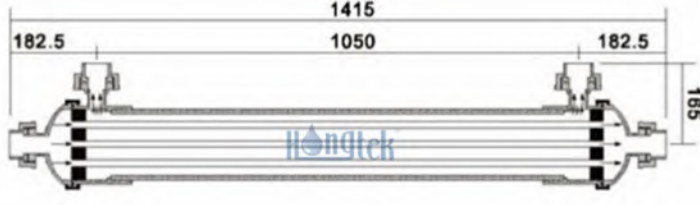
### Feature

- The effluent water quality is good and stable
- Industrail PVC UF membrane is high porosity and uniform distribution
- PVC ultrafiltration membrane has a large flux and good filtration effect
- Hollow fiber PVC membrane is high mechanical strength and long working life
- Easy to clean, improve the cleaning and recovery ability of the PVC UF membrane
- PVC UF membrane has strong anti-staining ability, resistant to acid and alkali & good drug resistance

### Application

- Sewage treatment
- Waste water treatment
- Surface water treatment
- RO system pretreatment
- Drinking water treatment
- Industrial wastewater reuse

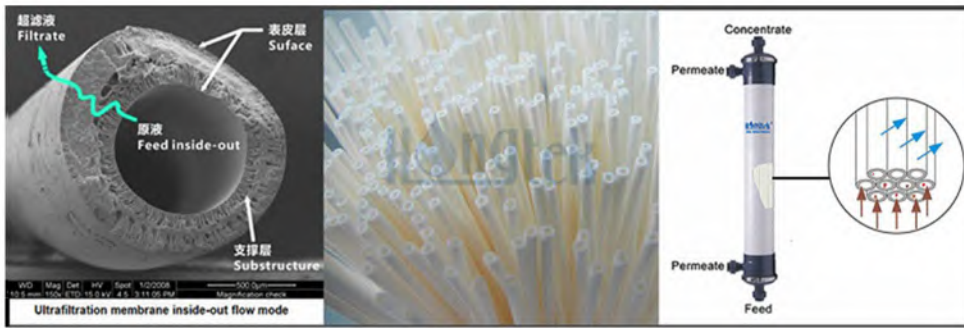
### Sizes of UF Membrane Module



### 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>4.7 t/h, 25°C, 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°C</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 6" PVC Ultrafiltration Membrane Module



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