Hollow Fiber Membrane Module System

Hollow fiber UF membrane module system (SUF SYSTEM) is a clarifier that changes into a past sand filter and the coagulating sedimentation. UF membrane for which this device is used, is recognized as a membrane module for water service, is dependable from abundant results and the experiences with safety and is suitable for turbidity and decolonization such as the river water, the well water, the industrial water and seawater.

- **High quality water treatment**
  Turbidity, bacteria and viruses can be removed by the UF membrane module, and an advanced treated water can be supplied.

- **High flux**
  The adhesion of turbidity is a little because Cellulose acetate hollow fiber membrane is excellent in hydrophile. So, high flux can be obtained with stability.

- **No Flocculant**
  The chemical cost is unnecessary.

- **Automatic operation**
  The unattended operation is possible.

**Space saving**
It is a compact device made a unit. Space required for installation is 50%-70% of the method so far.

**Easy maintenance**
Because our original automatic back wash mechanism is used, the stable operation can be done for a long term.

**Cartridge type**
The case can be reused because the UF membrane module is a cartridge type.

**Applications**
- Pretreatment of RO membrane device
- Decolonization and turbidity of the underground water
- Decolonization and turbidity of the industrial water
- Decolonization and turbidity of the river water
- High quality treatment of the process water
- High quality treatment of the water for food manufacturing
- Decolonization and turbidity of seawater
**F20 Type Cartridge Membrane Module Device Specification**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>SUF-101NS</th>
<th>SUF-102NS</th>
<th>SUF-104NS</th>
<th>SUF-106NS</th>
<th>SUF-108NS</th>
<th>SUF-110NS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow rate</td>
<td>1.2 m³/hr</td>
<td>2.4 m³/hr</td>
<td>4.8 m³/hr</td>
<td>7.2 m³/hr</td>
<td>0.6 m³/hr</td>
<td>12 m³/hr</td>
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<tr>
<td>UF Membrane</td>
<td>FN20-VP-FUC1582 (Cut-off Molecular weight 150,000, Cellulose acetate)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No. of UF Modules</td>
<td>1</td>
<td>2</td>
<td>4</td>
<td>6</td>
<td>8</td>
<td>10</td>
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<tr>
<td>Max. Temperature</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>40 °C</td>
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<tr>
<td>Power (200V)</td>
<td>0.4 KW</td>
<td>1.5 KW</td>
<td>2.2 KW</td>
<td>3.7 KW</td>
<td>5.5 KW</td>
<td>5.5 KW</td>
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<tr>
<td>Equipment</td>
<td>Circulation and Back wash Pump, Tank for Back wash, Control Panel, Dosing Pump Unit</td>
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</tbody>
</table>

Flow rate assumes a general river water.

### USE OF UNDERGROUND WATER SYSTEM

This system is the device made a water quality more than the city water by treating underground water in UF membrane module.

It is equipped with the iron removal filter, manganese removal filter and activated carbon filter as a pretreating.

This device can remove to say nothing of the bacteria to the viruses.

### PROCESS FLOW

![Process Flow Diagram]

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