Advantages of Ultrafiltration

- Low fouling membrane modules
- Excellent filtration performance with high flux
- High chemical resistance and temperature tolerance for effective membrane cleaning
- Very fine nominal pore diameter (0.02 µm)
- High removal efficiency of bacteria & viruses
- Dead-end or concentrate bleed flow capabilities
- Can be periodically back washed and air scoured to improve performance and extend operating life by removing the fouling layer
- Simple, vertical, modular design allows low cost, compact systems
- UF Outside-In or Inside-Out Configuration allows for less plugging and higher solids loading, higher flow area and easier cleaning

Key Features

- 30 years of experience is reflected in our quality
- Heavy duty powder coated corrosion resistant frame
- SS High pressure components, SS Pump
- Touch Screen PLC Operation
- Conservatively engineered for reliable long term performance
- Factory tested to ensure trouble-free operation

Applied Membranes’ Ultrafiltration UF Systems are Available in either Outside-In and Inside-Out Configurations.

Outside-In configuration UF Systems use DOW UF Low fouling Hydrophilic Polyvinylidene Fluoride (H-PVDF) Hollow Fiber Ultrafiltration Membranes.

Inside-Out configuration UF Systems use Inge dizzer® XL Low fouling Hydrophilic MPES Hollow Fiber Ultrafiltration Membranes. Dizzer XL UF Membranes are provided with Multibore® technology for superior membrane integrity (robust membrane).
Ultrafiltration (UF) Systems come complete and are skid mounted. These systems are tested before shipment.

**Standard Equipment**
- Self-cleaning automatic pre-filter(s)
- Hollow Fiber UF Membrane Modules
- Automatic valves for feed backwashing
- 316SS Feed pump with VFD
- Solenoid valve for air scour for O/I UF (Air compressor optional)
- Chemical injection pumps (3)
- pH transmitter
- Flow transmitters: Filtrate and Backwash
- Pressure gauges with transmitters (4)
- 316SS Backwash pump with VFD
- PLC Operator Interface

**Ordering Information**

<table>
<thead>
<tr>
<th>Inside-Out Model No.</th>
<th>Outside-In Model No.</th>
<th>System Capacity</th>
<th>Membrane Elements</th>
<th>Line Sizes (NPT, Inches)</th>
<th>System Dimensions (in/cm)</th>
<th>Approx. Shipping Weight (Lb/Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HF60-1I</td>
<td>HF60-1IE</td>
<td>10 GPM</td>
<td>1</td>
<td>1.5 (\text{Inlet}), 1.5 (\text{Filtrate}), 1.5 (\text{Backwash})</td>
<td>60/152, 30/76, 76/193</td>
<td>1,000/454</td>
</tr>
<tr>
<td>HF60-4I</td>
<td>HF60-4IE</td>
<td>40 GPM</td>
<td>4</td>
<td>4 (\text{Inlet}), 4 (\text{Filtrate}), 4 (\text{Backwash})</td>
<td>80/203, 30/76, 76/193</td>
<td>1,500/680</td>
</tr>
<tr>
<td>HF60-10I</td>
<td>HF60-10E</td>
<td>100 GPM</td>
<td>10</td>
<td>4 (\text{Inlet}), 4 (\text{Filtrate}), 4 (\text{Backwash})</td>
<td>110/279, 50/76, 114/290</td>
<td>3,000/1,360</td>
</tr>
<tr>
<td>HF60-14I</td>
<td>HF60-14E</td>
<td>140 GPM</td>
<td>14</td>
<td>6 (\text{Inlet}), 6 (\text{Filtrate}), 6 (\text{Backwash})</td>
<td>140/356, 50/76, 114/290</td>
<td>4,200/1,905</td>
</tr>
<tr>
<td>HF60-18I</td>
<td>HF60-18E</td>
<td>180 GPM</td>
<td>18</td>
<td>6 (\text{Inlet}), 6 (\text{Filtrate}), 6 (\text{Backwash})</td>
<td>180/457, 50/76, 114/290</td>
<td>5,500/2,495</td>
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<tr>
<td>HF60-22I</td>
<td>HF60-22E</td>
<td>220 GPM</td>
<td>22</td>
<td>6 (\text{Inlet}), 6 (\text{Filtrate}), 6 (\text{Backwash})</td>
<td>220/559, 50/76, 114/290</td>
<td>6,300/2,858</td>
</tr>
</tbody>
</table>

**Optional Equipment**
- Holding tanks for feed, backwash and filtrate
- Chemical tanks for chemical injection
- Air compressor for air scour
- Clean-in-Place system (CIP)

**Notes**
- All dimensions and weights are approximate.
- Based on 77 deg. F (25 deg. C.) operating temperature + or - 10 Deg. F (please advise if temperature is out of this range)
- Operating maximums: 75 PSI applied pressure; 20 PSI transmembrane pressure; 300 NTU of instantaneous turbidity; 200 PPM chlorine @ 200,000 PPM hours (<50 NTU, typical)
- Capacity basis: 24 hour

**Voltage/Ordering Information**

Please add our voltage codes to the end of the model number when ordering.

Example: HF60-22E-236 = 220/230v / 3 ph / 60 Hz

Voltage Codes:
- 236 = 220 or 230v / 3ph / 60hz
- 436 = 460 or 480v / 3ph / 60 Hz
- 235 = 220v/3ph/50hz
- 335 = 380v/3ph/50 Hz

Single Phase Not Available