Ultrafiltration skid

Features:
- Removal of TSS/turbidity
- Up to 4-log removal of bacteria and viruses
- Removal of TOCs with addition of a coagulant
- Superb filtrate even with variable raw water quality
- Cleaning chemical agents minimized
- Low operating cost
- Simple operation

Operating Parameters
- Typical turbidity after UF: 0.1 NTU
- Typical turbidity before UF: 4-100 NTU
- Inlet pressure: 4-100 psi
- Temperature: 1-40°C

Equipment & Instrumentation
- Flow meters on permeate and concentrate
- Temperature transmitter on permeate
- Multiple pressure indicators
- Air Scour, CEB, or CIP units as required
- Chemical injection systems as required
- Control panel with Auto/Manual controls
- Intuitive HMI interface, data logging software
- Option of remote monitoring with addition of modem
- Low pressure pumps as required

Materials of Construction
- PVC white vessels or modules
- PVDF or PES membranes
- NSF certified materials
- Corrosion resistant SS pumps
- Frame: carbon steel 2-coat epoxy painted
- PVC Schedule 80 piping
- NEMA 4 Control enclosure
**UF-Pentair**

<table>
<thead>
<tr>
<th>Model</th>
<th>Typical Flux at 25°C:</th>
<th>Material</th>
<th>Surface Area:</th>
<th>Max. Pressure:</th>
<th>Config:</th>
<th>Cleaning**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquaflex 64™</td>
<td>27 l/m²/h</td>
<td>PES*</td>
<td>64 m²</td>
<td>300 psi</td>
<td>Inside-out</td>
<td>Air scour, CIP, CEB</td>
</tr>
</tbody>
</table>

**UF-Dow**

<table>
<thead>
<tr>
<th>Model</th>
<th>Typical Flux at 25°C:</th>
<th>Material</th>
<th>Surface Area:</th>
<th>Max. Pressure:</th>
<th>Config:</th>
<th>Cleaning**</th>
</tr>
</thead>
<tbody>
<tr>
<td>IntegraPac™</td>
<td>40-110 l/m²/h</td>
<td>PVDF*</td>
<td>20-64 m²</td>
<td>90psi</td>
<td>Outside-in</td>
<td>Air scour, CEB, CIP</td>
</tr>
</tbody>
</table>

**UF-Inge**

<table>
<thead>
<tr>
<th>Model</th>
<th>Typical Flux at 25°C:</th>
<th>Material</th>
<th>Surface Area:</th>
<th>Max. Pressure:</th>
<th>Config:</th>
<th>Cleaning**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dizzer XL™</td>
<td>60-180 l/m²/h</td>
<td>PESM*</td>
<td>25-80 m²</td>
<td>72psi</td>
<td>Inside-out</td>
<td>Air scour, CEB, CIP</td>
</tr>
</tbody>
</table>

**UF-Hydranautics**

<table>
<thead>
<tr>
<th>Model</th>
<th>Typical Flux at 25°C:</th>
<th>Material</th>
<th>Surface Area:</th>
<th>Max. Pressure:</th>
<th>Config:</th>
<th>Cleaning**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydracap™</td>
<td>34-110 l/m²/h</td>
<td>PVDF*</td>
<td>105 m²</td>
<td>73psi</td>
<td>Outside-in</td>
<td>Air scour, RC, CIP</td>
</tr>
</tbody>
</table>

*In general PES-membrane material is less resistant to chlorine and chemical cleans than PVDF

**Type and frequency of cleaning depends on raw water quality, RC=Maintenance & Recovery Clean injection of chemical into water stream rather than backwash system

**OEM for membrane manufacturers:**

- **Dow**
- **Pentair**
- **FILMTEC™**
- **Hydranautics**
- **Nitto Group Company**
- **inge**
- **Martin Membrane Systems**

[bi pure water.com](http://bipurewater.com)