

FUJITEC's Ultrafiltration modules high strength and benefits pore diameter (0.01 micron filtration) for removal of bacteria, viruses, and particulates including colloids to protect downstream processes such as RO. In flow for high tolerance to feed solids that help reduce the need for pretreatment processes

FUJITEC's Ultrafiltration Modules can be use to purify well and surface water for drinking water to filter swage, and to treat surface for RO and NF system



FT-UF-8060
Outside-In



FT-UF-4046
Outside-In



FT-UF-1060
Inside-Out



FT-UF-8040
Inside-Out



FT-UF-4040
Inside-Out

MODULE SPECIFICATION

| Model | Filtrate Flow (m ³ /h) | Inlet/Outlet (Inch) | Size Measure (mm) | Fiber ID/OD (mm) | Nominal Membrane Area (m ²) |
|-------------|-----------------------------------|---------------------|-------------------|------------------|---|
| FT-UF-1060 | 9.0 | 2" | ∅ 325 x 1415 | 1.0/1.6 | 46.0 |
| FT-UF-4046 | 1.0 | 1" | ∅ 113 x 1162 | 1.0/1.6 | 4.8 |
| FT-UF-8060 | 5.0 | 1 ½" | ∅ 237 x 1480 | 1.0/1.6 | 25.0 |
| FT-UF-4040* | 0.8 | 1/2" or 3/4" | ∅ 101 x 1016 | 1.0/1.6 | 4.0 |
| FT-UF-8040* | 4.0 | 3/4" or 1" | ∅ 201 x 1016 | 1.0/1.6 | 20.0 |

*UF membrane filter have to use with vessel

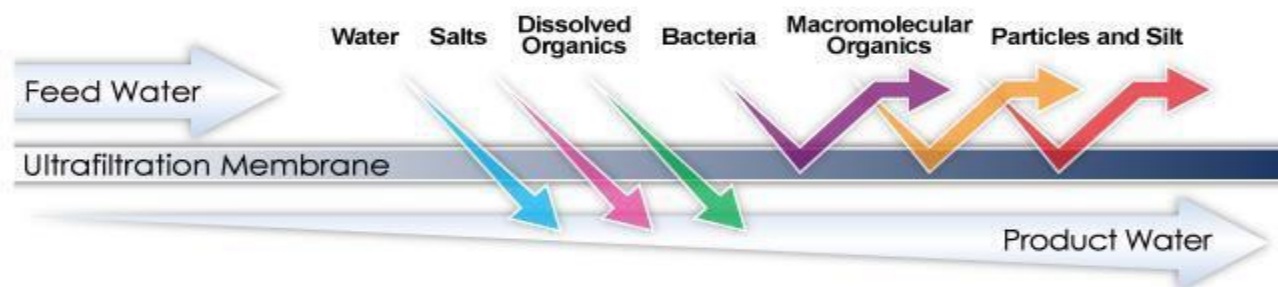
APPLICATION DATA

| | |
|---|--------------------------------------|
| Membrane Material | PAN (Polyacrylonitrile) |
| Typical Filtrate Flux (L/m ² /h) | 40-150 |
| Temperature Operating (°C) | 5-40 |
| Maximum Applied Feed Pressure(MPa) | 0.6 |
| MWCO (Dalton) – Pore Size | 100K (0.01 μm) |
| Operating pH | 2-10 |
| Maximum Feed Turbidity(NTU) | 80 |
| Expected Filtrate Turbidity(NTU) | < 0.1 |
| Expected Filtrate SDI | < 3 |
| Maximum Air Pressure(MPa) | < 0.2 |
| Maximum Chlorine Exposure(mg/L) | 70 |
| Maximum Operating TMP(MPa) | 0.2 |
| Operation Mode | Dead end filter or Cross flow filter |
| Maximum Backwash Pressure(MPa) | 0.15 |

TYPICAL PROCESS CONDITION

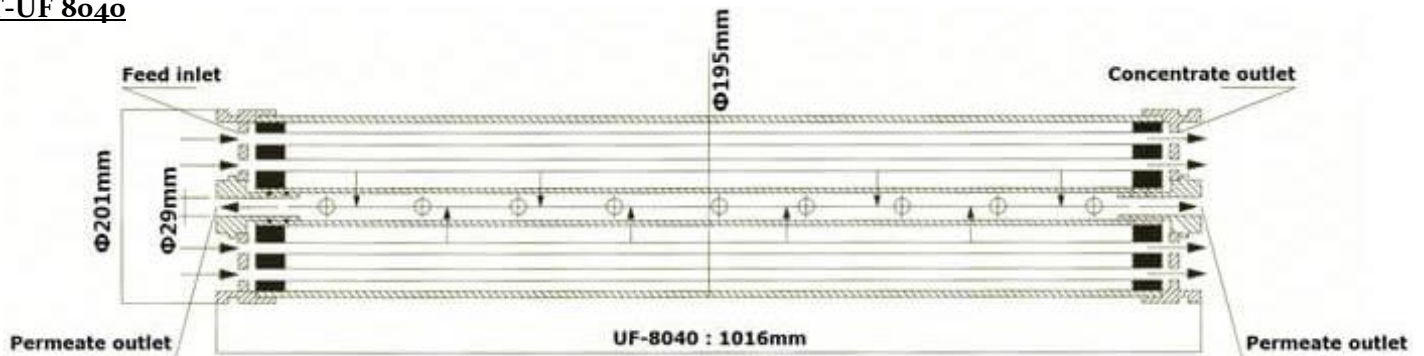
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|-------------------------------------|------------------------|
| Backwash Flux (L/m ² /h) | 50-160 |
| Backwash Duration(sec) | 40-180 |
| Backwash Frequency(min) | 15-60 |
| Wash Duration(sec) | 40-180 |
| Chemical Cleaning Duration(sec) | 40-180 |
| Cleaning Chemical | Citric acid/NaOH/NaClO |

Ultrafiltration

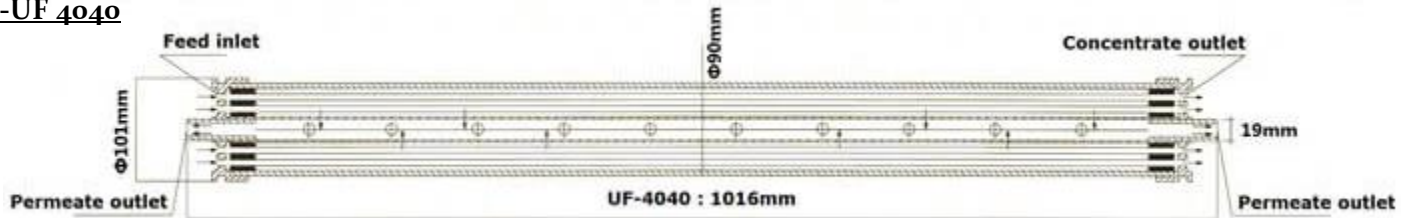


Avoid any abrupt pressure variations during start-up, shutdown, cleaning or other sequences to prevent possible membrane damage. Flush the UF system to remove shipping solution prior to start up. Remove residual air from the system prior to start up. Manually start the equipment. Target a permeate flow of 60% of design during initial operations. Depending on the application, permeate obtained from initial operations should be discarded. Please refer to the product technical manual

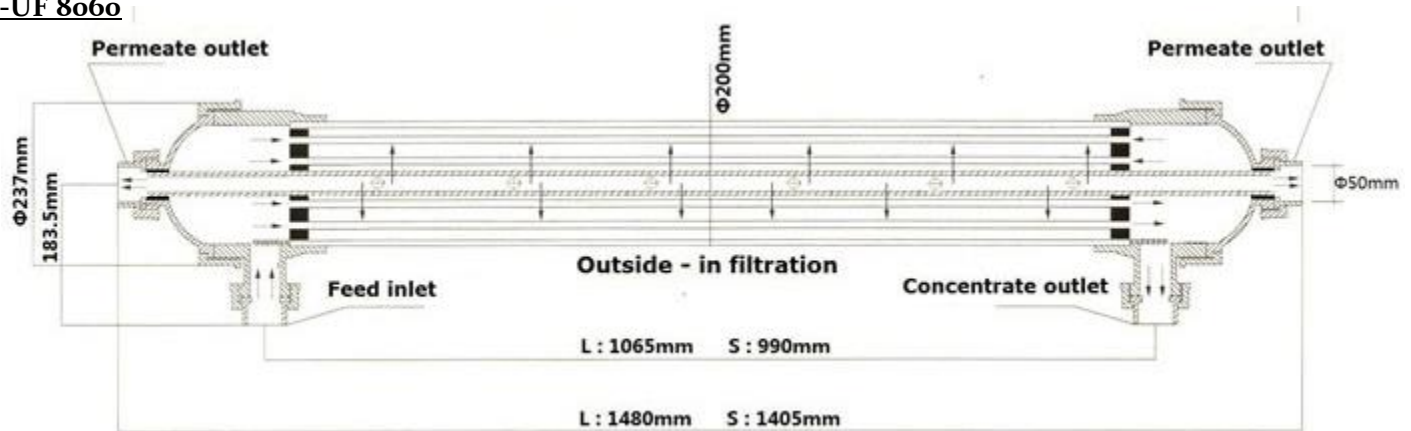
FT-UF 8040



FT-UF 4040



FT-UF 8060



FT-UF 4046

