

A Pioneer of PVDF Hollow Fiber Membrane

Membrane Filtration has become a viable option for potable water treatment and reuse of municipal and industrial wastewater effluents.

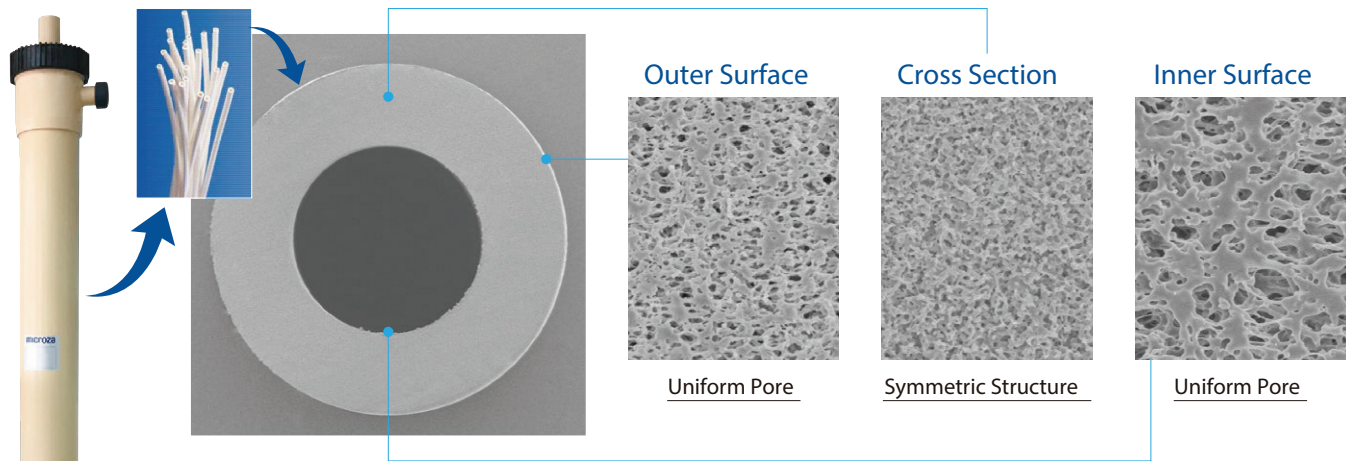
Polyvinylidene fluoride (PVDF) has been recognized as a popular material for the fabrication of MF/UF membranes due to its high mechanical strength and chemical resistance. Asahi Kasei is a pioneer of PVDF hollow fiber membranes, and we have successfully put PVDF membrane into practical use in many applications and accumulated experiences for more than 40 years.

Features of Microza PVDF Hollow Fiber

Asahi Kasei is a pioneer of TIPS* membranes and is developing new technologies for our customers.

*Thermally Induced Phase Separation

- Symmetric structure from outer to inner surface.
- High bonding network, higher mechanical strength and porosity.
- Uniform pore and sharp pore size distribution.
- High crystallization, high chemical resistance.



- High mechanical strength
- High chemical resistance

【Chemical Cleaning Conditions Per Cleanin g】

- Up to 5,000 m g/l of Chlorine (CT: 7,200,000 m g/l• h)
- Up to 4% of NaOH
- Up to 10% of HCl, H₂SO₄, Citric Acid

Users' Benefits

- Long life, lower operation cost.
- Stable permeate water quality, stable operation.
- High membrane flux, lower capital expense.
- Robust, resilient operation.

Application

Municipal

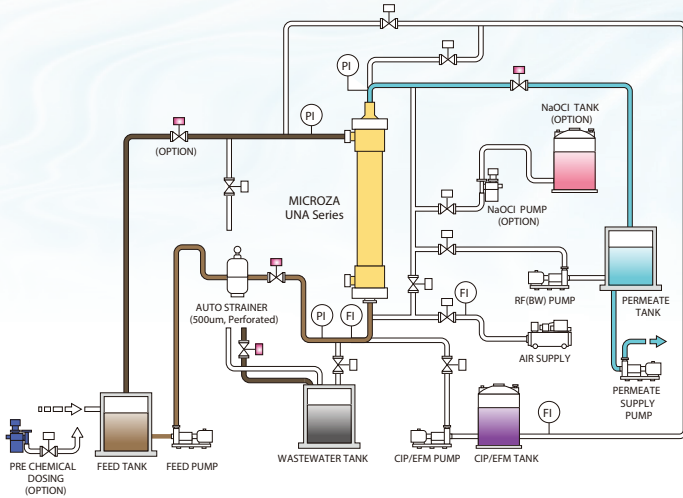
Potable Water Plant, Seawater Desalination, Industrial Park Water Supply, Water Reuse, etc.

Industrial

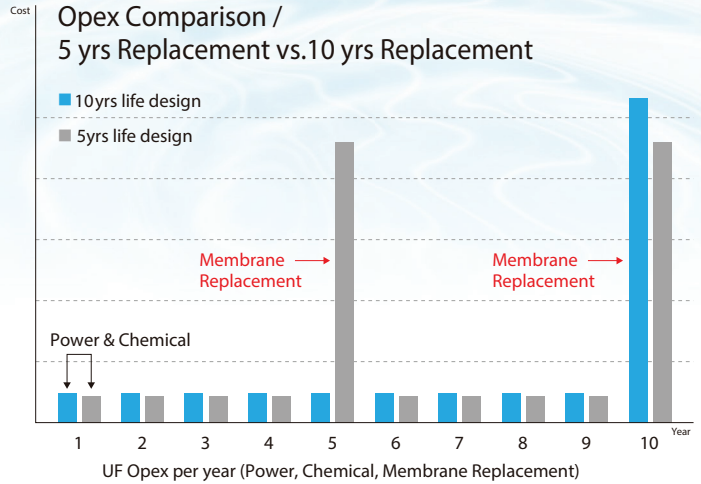
Power Plant, Steel Mill, Paper Mill, Food & Beverage, Oil & Gas, Pharmaceutical, etc.

For Your Selection

Typical Process Flow Diagram



Operation Cost of UF Membrane



Selected Reference

Large Scale Sewage Reuse Plant



320MLD, Singapore, 2016

Long Life Operation Industrial Park Effluent Reuse Plant



93MLD, China, 2008

Microza UNA/UHS series

Model	Surface Area (m ² /ft ²)	Length mm / in
UNA-600A	23 / 247	1314 / 51.7
UNA-620A	50 / 538	2418 / 95.2
UNA-620AB	65 / 699	2418 / 95.2
UNA-620C	50 / 538	2418 / 95.2

Model	Surface Area (m ² /ft ²)	Length mm / in
UNA620A-ADA	50 / 538	2418 / 95.2
UNA620A-DCA	99 / 1065	2300 / 90.5
UHS-620A	50 / 538	2209 / 87.0
UHS-640A	35 / 376	1598 / 62.9

Pressurized Type
 Submerged Type

