

# ULTRAFILTRATION MEMBRANE MODULE



**MaxFlux UF Membranes** efficiently retain suspended solids, microorganisms, and high molecular weight solutes (like proteins and colloids) from solution while water and low molecular weight solutes pass through it. MaxFlux UF module design is improved to enhance flow rate inside the tube and increase the shear rate of the flow on the fibers. This reduces the accumulation of solutes on the membrane and fouling which lead to improve cleaning cycles and enhance life time of the membranes

## Features

- The UF process is carried out at room temperature, mild conditions and no component damage. So it is particularly suitable for the separation classification, concentration and enrichment of heat sensitive substances such as drugs, enzymes, juices, etc
- The UF process does not change phase, no heating, low energy consumption and no need to add chemical reagents, no pollution, It is an energy-saving and environmentally friendly separation technology
- The UF technology has high separation efficiency, and it is quite effective for recovering trace components in a dilute solution and concentrating low concentration solution
- The UF process adopts only pressure as the power for membrane separation, so the separation device is simple, the process is short, the operation is simple, and it is easy to control and maintain



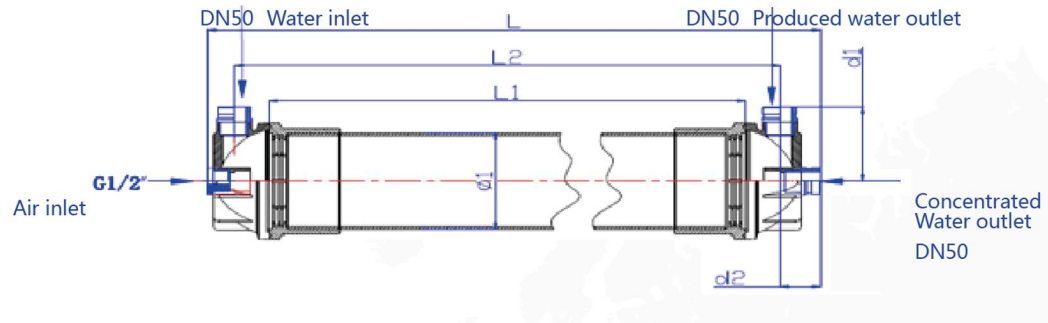
## Application range

In recent years, the application of UF technology can be roughly divided into the following three parts

- Advanced treatment of industrial wastewater, such as reclaimed water, reprocessing of oilfield water, etc
- Concentration, purification and separation of polymer solutions in the chemical, food and pharmaceutical industries, sterilization clarification and purification of biological solutions and beverages
- preparation of ultrapure water and pretreatment of reverse osmosis, such as: groundwater treatment, surface water treatment, brackish water or seawater desalination pretreatment, drinking water treatment, boiler feed water treatment, etc



## UF dimension



Model	Length(mm)			Space between(mm)		Diameter(mm)
	L	L1	L2	d2	d2	φ1
MX-UF-8060-PVDF	1742.5±1.0	1496±1.0	1622±1.0	172.5±1.0	73±1.0	225±1.0
MX-UF-8080-PVDF	2242.5±1.0	1996±1.0	2122±1.0	172.5±1.0	73±1.0	225±1.0

Membrane parameter			
Membrane Material	PVDF	Membrane form	Out-in hollow fiber
Inner/outer diameter	0.7/1.3mm	Mean pore size	0.04um
Fiber strength	>3N		
Module parameter			
Housing material	UPVC	Cap material	UPVC
Cap clamp material	304stainless steel	Seal ring material	EPDM rubber
Interface connection	Coupling connection	End sealing material	Epoxy resin/PU
Pure water flux	>120L/m <sup>2</sup> ·hr bar (25°C)		
Module model	UF-8060-PVDF	UF-8080-PVDF	
Area	50m <sup>2</sup>	70m <sup>2</sup>	
Water Capacity	30L	40L	
Weight (Wet)	30kg	40kg	
Working condition			
Operation mode	Full flow/cross flow	Working temperature	5-45°C
Max inflow water pressure	<3bar	Operation pH range	2-11
Max TMP	<2bar	Max inflow water particle diameter	300um
Max backwash pressure	≤1.5bar	Max tolerant concentration of NaClO	2000mg/L
Oil	<3mg/l		
Produced water quality			
Turbidity	≤0.15NTU	Produced water SDI <sub>15</sub>	≤3