
YOUBER Hollow Fiber UF Membrane Modules

1. Product model: UF90-H-100KC

Product characteristics:

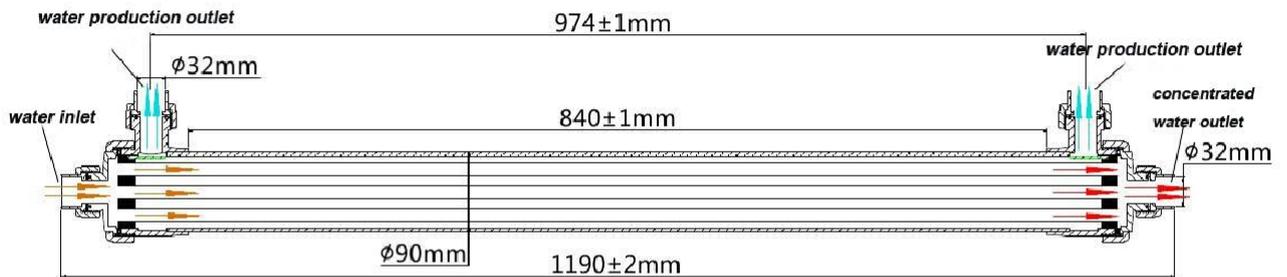
1. PVC material UF membrane module can remove bacteria, microorganisms, it can reduce turbidity, SDI and remove colloids, macromolecular organics;
2. High mechanical strength of PVC modules, and good elongation make membrane has longer lifespan;
3. PVC fibers and UPVC shell make membrane modules have cheap price;
4. PVC UF membrane module can be applied to drinking water purification, treatment of river water, seawater, groundwater, pre-treatment of RO, reclaimed water reuse, etc.

Photo 1:

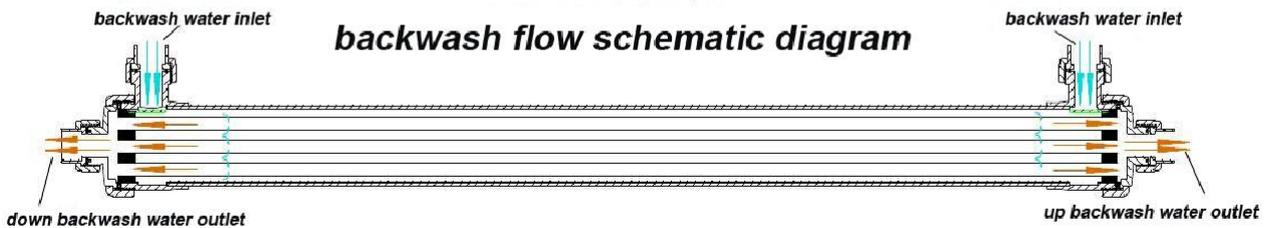


Photo 2:

Water production flow schematic diagram



backwash flow schematic diagram



Product technical parameters:

Membrane material	Modified(PVC)
Fibers ID/OD	0.9mm/1.6mm
Fibers MWCO	100,000Dalton(0.01micron)
Pure water flow rate(0.2Mpa,25°C)	2050L/H
Module design flow rate	160-560L/H
Effective membrane area(inside-outside)	4.1M2
Shell material	UPVC
End seal material	Epoxy
Inlet/outlet dimension	Dia32MM(DN25)
Using condition	
Pretreatment	50-100um
Working mode	In-outside & Out-inside are both ok
Working pressure	0.02-0.2Mpa
Max water inlet pressure	0.3MPa

Max TMP	0.2MPa
Water inlet PH range	2-12
Tolerated continuous residual chlorine concentration	100 ppm
Tolerated interval residual chlorine concentration	200 ppm
Working temperature	5-45degree
Feed water quality	Turbidity \leq 15NTU. (should add pretreatment while using surface water, river/well water,etc.can use cartridge filter(<150um) to make feed water turbidity \leq 15NTU)
Water production quality	
*Water production turbidity	< 0.1NTU
*Silt density index (SDI)	< 1
Particles (>0.2 μ m)	100% removal rate
Microbe, removal rate of pathogens	99.99%
Backwashing design	
Backwashing frequency	One time per 30-60minutes
Backwashing pressure	\leq 0.2MPa
Backwashing flow rate	100-150L/ H.m ²
Backwashing dosing drugs	15-20PPm NaClO
Dosing backwashing frequency	Suggestion:automatic dosing drugs while each time need to backwash
Chemical cleaning design	
Chemical cleaning frequency	One time per 1-4months
Acid cleaning agent	Citric acid,oxalic acid or hydrochloric acid (solution of PH=2)
Alkaline cleaning agent	0.5%NaOH+0.1%NaClO (solution of PH=12)
Remark: * means municipal water as raw water to test (raw water turbidity <5NTU)	

2. Product model: UF200-H-100KC

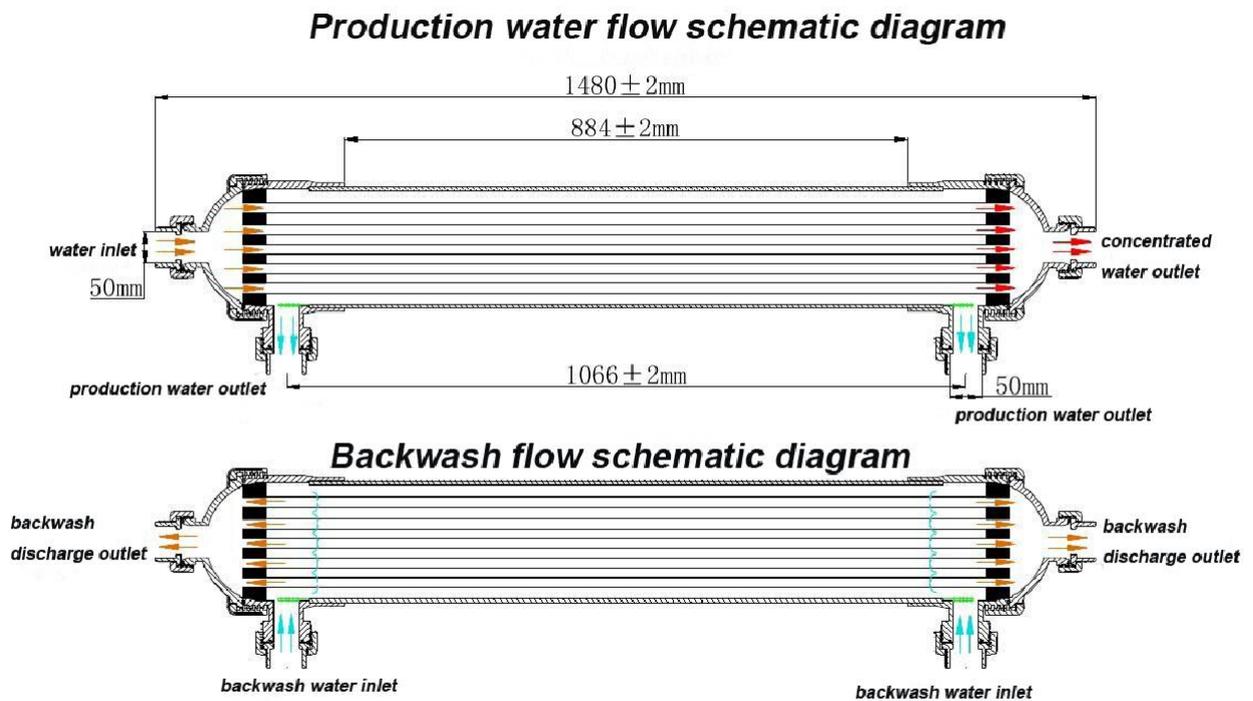
Product characteristics:

1. The ultrafiltration membrane components (PVC material) can remove bacteria, microorganisms, reduce turbidity and SDI, It also can remove colloid, organic macromolecule etc.
2. The UF membrane component (PVC) with good ductility, high mechanical strength, which make it has longer service life of the ultrafiltration membrane module.
3. The prices of Material of PVC membrane and UPVC shell using ultrafiltration membrane component is cheap.
4. The PVC UF membrane component can be used in the purification of drinking water, river water, seawater, groundwater treatment, pretreatment with RO, water reuse treatment etc.

Photo 1:



Photo 2:



Product technical parameters :

Membrane material	Modified(PVC)
Inside and outside diameter size	0.9mm/1.6mm
Membrane filter precision	100, 000Dalton(0.01micron)
The pure water flow (0.2Mpa, 25°C)	13000L/H
Module design output water	1000-3600L/H
The effective Internal pressure membrane area	26m ²
Shell material	UPVC
The end sealing material	Epcxy
The interface of out side and in side	ø50mm(DN40)
Use condition	
Pretreatment	50-150um
Operation mode	In-outside & Out-inside are both ok

Work pressure	0.02-0.2Mpa
The maximum inlet pressure	0.3MPa
The maximum transmembrane pressure	0.2MPa
The influent pH	2-12
Continuous residual chlorine concentration can be tolerated	100 ppm
Intermittent residual chlorine concentration can be tolerated	200 ppm
Suitable temperature	5°C-45°C
Raw water quality	Turbidity≤15NTU. (when treat the surface water, river water, well water and other water sources,it should be add pretreatment,suggest add below150um ultrafilter make the water becomeTurbidity≤15NTU).
Output water quality	
*Output water Turbidity	< 0.1NTU
*Silt density index (SDI)	< 1
Particle (>0.2μm)	100%removal
Microbial pathogens, removal rate	99.99%removal
Backwash design	
Backwash Frequency	Every 30-60 minutes a time
Backwash pressure	≤0.2MPa
Backwash flow	100-150L/ H.m ²
Backwash dosing	15-20PPmSodium hypochlorite
Dosing backwashing frequencies	Suggest Each backwashing automatic dosing
Chemical cleaning design	
Chemical cleaning frequency	Every 1-4 months a time
Acid dosing	Citric acid,oxalic acid or hydrochloric acid (PH=2)
Alkali dosing	0.5%NaOH+0.1%NaClO (PH=12)
Note:*the Turbidity of raw water <5NTU,which is according The standard of municipal tap water condition test.	

3. Product model: UF250-H-100KC

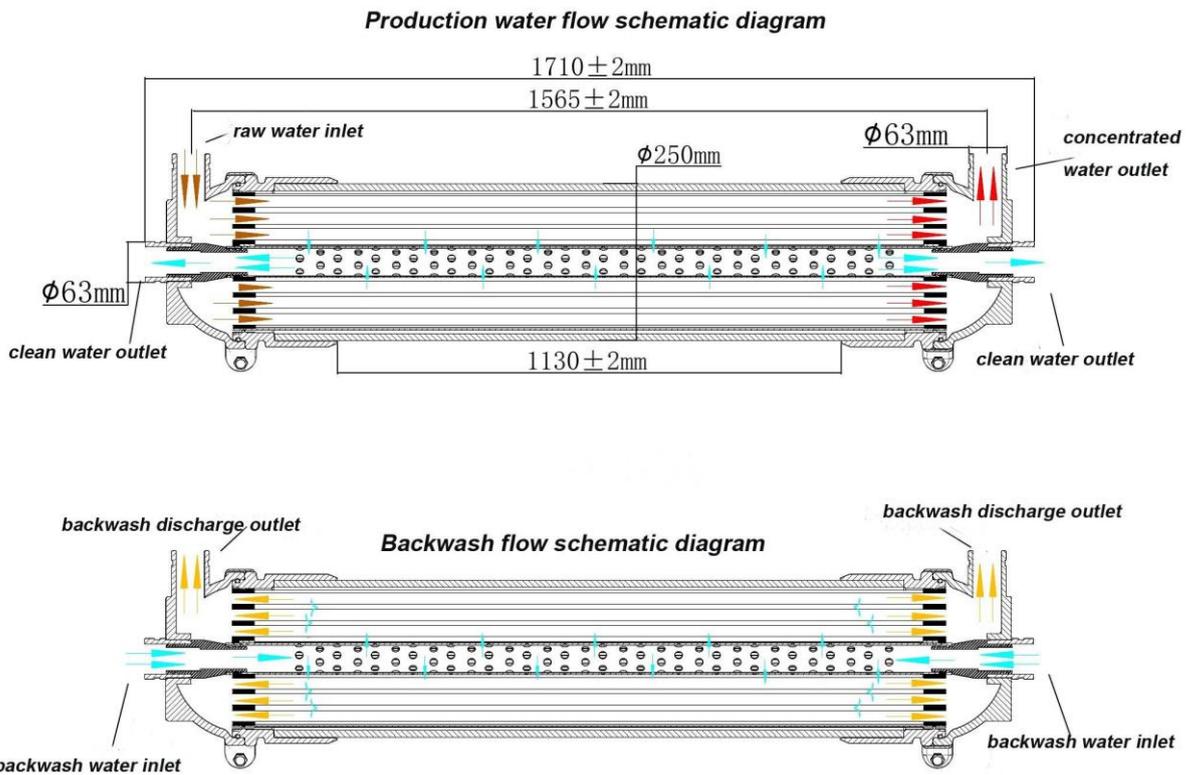
Product characteristics:

1. PVC material UF membrane module can remove bacteria and microbe, reduce the turbidity and SDI, remove the colloid, macromolecular organic matter, etc.
2. PVC UF membrane module, membrane fibers with high mechanical strength and good ductility, which makes allows UF membrane module have longer service life.
3. PVC material membrane fibers and UPVC material housing formed membrane module with cheaper price.
4. PVC UF membrane module can be applied for drinking water purification, and river water, sea water, groundwater treatment, RO pretreatment, and water reuse treatment etc.

Photo1:



Photo2



Products technical parameters:

Membrane material	Modified PVC
Fibers ID/OD	0.9mm/1.6mm
MWCO	100,000Dalton(0.01micron)
Pure water flow(0.2Mpa,25°C)	22000L/H
UF module designed water flow	1700-6000L/H
Effective internal pressure membrane area	44m ²
Housing material	UPVC
End sealing material	Epoxy resin
Inlet/outlet connection size	ø63mm(DN50)

Operation condition	
Pretreatment	50-150um
Operation mode	In-outside & Out-inside are both ok
Working pressure	0.02-0.2Mpa
Maximum inlet water pressure	0.3MPa
Maximum TMP	0.2MPa
Inlet water PH value	2-12
Continuous residual chlorine concentration tolerance	100 ppm
Interval residual chlorine concentration tolerance	200 ppm
Using temperature	5°C-45°C
Inlet water quality	Turbidity≤15NTU. (when the water source is surface water, river water, deep water, pretreatment filters should be added, we suggest add a cartridge filter with precision less than 150um, which can make the inlet water turbidity ≤15NTU)
Produced water quality	
*Produced water turbidity	< 0.1NTU
*Pollution density index (SDI)	< 1
Particle (>0.2μm)	100% remove
Microbe, pathogen	99.99% remove
Backwash design	
Backwash frequency	Once per 30-60mintues
Backwash pressure	≤0.2MPa
Backwash flow	100-150L/ H.m2
Backwash dosing medicine	15-20PPM NaClO
Dosing backwash frequency	Suggest automatic dosing when backwash
Chemical cleaning design	
Chemical cleaning frequency	Once per 1-4month
Acid cleaning medicine	Citric acid, oxalic acid or HCL (matched the solution with PH=2)
Alkali cleaning medicine	0.5%NaOH+0.1%NaClO (matched the solution with PH=12)
Remark : * means the testing is based on the raw water turbidity<5NTU municipal tap water.	