



UF Membranes

Drinking Water



Ultrafiltration Technology
Complete Water Filtration Solutions



Dosita s.r.l.
Italy



Modified hydrophilic PVC membrane characteristics:

Modified hydrophilic hollow PVC fibers (UF membranes), has been modified through hydrophilic and materialization treatment. These fibers have the advantages of low energy consumption, high flux, high antipollution, high mechanical strength and toughness. At the same time, they are optimized by the making membrane formula, which have good resistance of acidity and alkalinity, oxidability, ageing and bacteriostat

UF membranes have stable MWCO, its surface is smooth, easily to wash, and has a high flux recovery rate

UF membranes are widely used in the underground water, surface water, middle water/waste reuse, seawater desalinization and other water treatment process flow and concentration, separation of biology pharmacy, food/drinks, and wine industry.

PES and PVDF, UF membranes are available upon request.



Fiber Types Items	Standard Single Bore Fiber	Antipollution Single Bore Fiber	Seven Bore Fiber
Fiber dimension (ID/OD)	1.0/1.66mm	1.4/2.4mm	0.9/4.2mm
Fiber features and application	Large loading area, large water flux, mainly used to treat better quality water	Runner increasing, enhancing strength, not easily block and broken, mainly used in the middle water reuse and waste water treatment, concentrations and others	Filtration area increasing, strength largely enhance, never broken, ensure the filtered water safety, mainly used in drinking water filtration
MWCO	100,000Dalton (we can custom made different MWCO)	100,000Dalton (we can custom made different MWCO)	100,000Dalton (we can custom made different MWCO)
Unit membrane area pure water flux (25° , 0.1Mpa)	320 L/m ² .hr	280 L/m .hr	220 L/m ² .hr
Filtration method	Outside to inside	Outside to inside	Inside to outside
PH range	2-12	2-12	2-12
Using temperature	5-45 C	5-45 °C	5-45 °C
Max inflow water pressure	0.5MPa	0.5MPa	0.5MPa
Tolerance of continuous residual chlorine concentration	100PPm	100PPm	100PPm
Tolerance of residual chlorine concentration	200PPm	200PPm	200PPm
Max inflow water COD (mg/L)	≤100	≤100	≤100

Product Description

UF Modules With 7 Bores Fibers

Model	UFSafe200	UFSafe400	UFSafe600
Vessel Type	High pressure UPVC	High pressure UPVC	High pressure UPVC
Diameter (inch)	2	4	6
Length Without Flanges (mm)	300	1200	900
Fiber Material	7 bores PVC	7 bores PVC	7 bores PVC
Surface Area (m ²)	0.59	9.40	16.00
In/Out (inch)	¼	1	1¼
Design Flux (l/m ² .hr)	80-120	80-120	80-120

UF Modules With Antipollution Single Bore:

Model	UFSafe400A	UFSafe600A
Vessel Type	High pressure UPVC	High pressure UPVC
Diameter (inch)	4	6
Length Without Flanges (mm)	1200	900
Fiber Material	Single bore PVC, others PES, PVDF	Single bore PVC, others PES, PVDF
Surface Area (m ²)	8	15
In/Out (inch)	1	1¼
Design Flux (l/m ² .hr)	80-120	80-120



- Other applicable sizes are possible on request.
- Filtration Scheme is In/Out for 7 bore fibers only.
- UF vessels can be supplied and installed as per skid mounted designs, with all the required parameters.
- Water flow rate will vary in accordance with water quality.



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