

HINAC 华自科技



**Canpure
Environment
Protection Tech., Ltd**

COMPANY PROFILE

Founded in Canada in 2003, Canpure Equipment International Ltd. began the construction of an international brand and international group. The members of Canpure international group are include Canpure Beijing, Canpure Hunan , Canpure Canada , Canpure Japan, Canpure India and Canpure Hong Kong . In 2017, Canpure Beijing became a wholly-owned subsidiary of HNAC Technology Co.,Ltd (stock code: 300490), which gained the new impetus of a listed company and embarked on a new platform for further high-speed development. Canpure Hunan Production Base completed and put into operation in 2020, which further strengthens the global competitiveness of international brands of Canpure. Canpure Beijing is the vice president unit of China Membrane Industry Association, and has won the honor of "Model Enterprise" of China Membrane Industry in the past 20 years.

By the end of 2021, the overall water treatment capacities of Canpure Ultrafiltration Membrane (UF) had exceeded 9.5 million m³/d and Canpure Electrodeionization Stacks (EDI) had exceeded 1.35 million m³/d, respectively in China. The diversified Canpure membrane products have been well-accepted by customers in 23 countries, including the China, Italy, The Netherlands, India and Japan.

Canpure membrane products consist of Electrodeionization (EDI), Ultrafiltration (UF), microfiltration (MF) and Membrane Bioreactor (MBR). The products are widely used in water purification, wastewater treatment and waste water reuse both for industrial, municipal applications, in seawater desalination pretreatment and in ultra-pure water preparation.



Beijing Canpure is the deputy vice chairman of the Membrane Industry Association of China (MIAC), a council member of the National Society of Seawater Desalination and Water Reuse as well as a council member of China Environment Chamber of Commerce (CECC).

Beijing Canpure is committed to research and development, and manufacturing for water treatment membranes and membrane modules, and is also responsible for the marketing of Canpure membrane products in China. Canpure Beijing has inherited and carried forward there search and experience of membrane technology of Canpure Group for more than 20 years, in the field of membrane technology innovation and obtained 73 patents.



Canpure brand EDI membrane modules are manufactured with proprietary technology, high hardness in water supply. The limitations of traditional EDI technology are broken through in terms of degree and low energy consumption.



The PVDF membrane capillaries for Canpure Outside-in pressurized Ultrafiltration (UF), Submerged Ultrafiltration (UF) and MBR are made by innovated and patented c-TIPS technology, the strength of the capillaries is much stronger than PVDF capillaries made by conventional NIPS or DIPS technology, and the filtration grade is much higher than PVDF capillaries made conventional TIPS technology. Has the obvious strength and the filter precision superiority.



Canpure brand PS Inside-out ultrafiltration membrane adopts proprietary crosslinking technology, flux stability, high membrane wire strength, high filtration precision, and strong antipollution ability.



Canpure PTFE flat sheet MBR membrane is manufactured with patented technology, Equipment covers a small area, high integration, investment Capital and operating costs compared to traditional flat membrane both significantly lower.



Canpure brand "thermal process inlay "Braided tube reinforced MBR membrane products are magnetically suspended. The inner island braided tube is reinforced with technology that is not only substantially manufactured Increased the strength of the membrane filaments, and solved the membrane at one stroke Silk "broken silk" and "peeling" phenomenon. Lead the new development of MBR membrane products.



Canpure T-CAP adopted the company's advanced technology, by using of double inlet and outlet, so the ultrafiltration can be used in series. The traditional ultrafiltration can only be connected to the main pipe through a single inlet and outlet branch pipe. The application of T-CAP is more conducive to the standardization of ultrafiltration. The T-CAP is not only shortened the design time, and lowered the cost of the building, and the skid. It greatly reduces installation time and improves efficiency accordingly.

PRODUCT



SVU-1080-B/C SVU-1060-B/C SVU-1030-B/C

SVU Series Inside-out Ultrafiltration(UF) Membrane Modules

Product Profile

Canpure Inside-out UF membrane features strong anti-fouling capacity, high capillary strength and high filtration accuracy. The membrane can effectively reduce the turbidity of raw water, remove suspended solids, colloids, microorganisms and other substances, and it is characterized by high adaptability to varieties of raw water quality, easy operation and maintenance, and can produce water with stable and reliable quality.

Product Features

Permanent hydrophilic property

Canpure Inside-out UF membrane is made from modified polysulfone (mPS) material, and treated by cross-linking hydrophilic composition. The consolidation of the hydrophilic groups endows the permanent hydrophilic property of the capillary, more stable product water flux, improved anti-fouling property and better cleaning recovery.

MWCO: 45,000 Dalton

Among the similar products in the market, Canpure Inside-out UF membrane has smaller Molecular Weight Cut Off (MWCO) and higher filtration accuracy, which can effectively ensure the quality of the water produced by ultrafiltration.

Unique cross-section structure of the capillary

On the both sides of Canpure Inside-out UF capillary are dense sponge-like structures, and in the middle is the finger-like structure, which both ensures the capillary strength and rather high permeability.

High strength and large flux

Canpure Inside-out UF membrane has a capillary strength of 6MPa, and a standard produced water flux of $450\text{L}/\text{m}^2 \cdot \text{h} \cdot \text{bar}$, at 25°C .

Larger capillary diameter

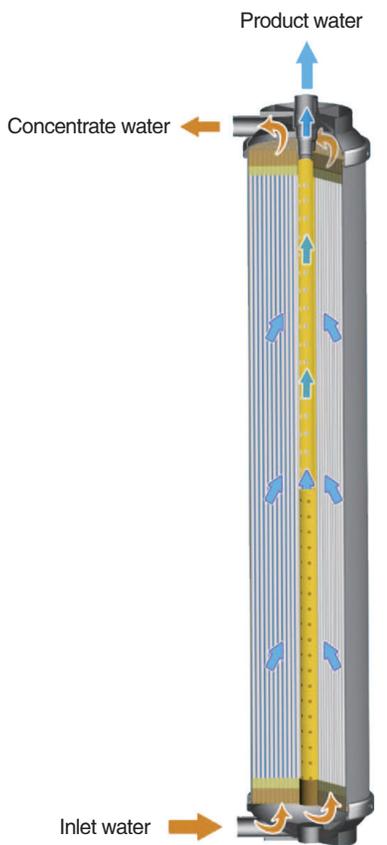
Canpure Inside-out Capillary has a common capillary ID of 1.0mm and the water entry channel has a cross-section area 1.56 times of the common diameter (0.8mm), which significantly improves the anti-fouling capacity of the membrane modules.

Integrated bundles of fibers / proprietary technology /

Among the similar products in the market, Canpure Inside-out UF membrane has more bundle of fibers, which can effectively ensure water flow is more evenly distributed within the module.

Soft Potting / proprietary technology /

The soft potting technique invented by Canpure realizes the flexible connection between the "root" of the capillaries and the soft layer of the potting material, and thus prevents the breaks of the roots of the capillaries.



Filtering Schematic of the UF Membrane Module

Technical Parameters of SVU Series Inside-out UF Membrane Modules

Specification						
Model	SVU-1080-B	SVU-1060-B	SVU-1030-B	SVU-1080-C	SVU-1060-C	SVU-1030-C
Active membrane area (m ²)	68	50	23	55	40	19
Module size (mm)	φ 250 × 2215	φ 250 × 1715	φ 250 × 965	φ 250 × 2215	φ 250 × 1715	φ 250 × 965
Membrane material	Modified polysulfone (mPS) ^①			Modified polysulfone (mPS) ^①		
MWCO(Dalton)	45000			45000		
Filtration pore size (μm)	0.01 ^②			0.01 ^②		
Capillary ID/OD(mm)	1.0/1.5 ^③			1.2/1.8 ^③		
Housing/Cap material	UPVC			UPVC		

ApplicationCondition	
Filtration	Dead end/Cross flow
Filtration cycle (mins)	20 ~ 120
Product water flux (L/m ² · h)	40 ~ 130
Backwash Flux(L/m ² · h)	180 ~ 250
pH	1 ~ 13
Max .tolerated NaClO concentration(mg/L)	200
Max.tolerated turbidity (NTU)	20
Max. particle size (μm)	200
Max.applied feed pressure (MPa)	0.5
Max.TMP(Mpa)	0.2
Max.backwash pressure (MPa)	0.2
Operating temperature (°C)	1~40

①It can be adjusted by changing material formula.

②We have other organic materials Inside-out UF Membrane

③For other organic materials Capillary ID/OD, please consult the manufacturer.

Applications



Project Site

—Sinopec a desalted pretreatment: 54,000m³/d

PRODUCT



SVF Series Outside-in Ultrafiltration(UF) Membrane Modules

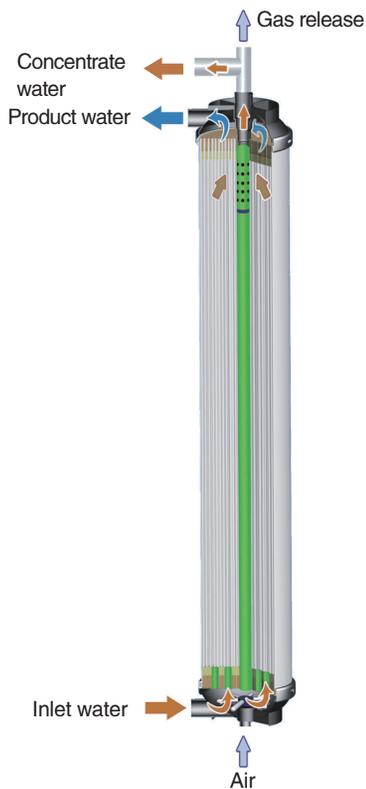
Product Profile

Canpure Outside-in Membrane Module has the characteristics sufficient aeration, strong anti-fouling capacity, high chemical resistance and large flux under low pressure. The membrane can effectively reduce the turbidity of the raw water, remove suspended solids, colloids, microorganisms and other substances, and it is characterized by high adaptability to varieties of raw water, easy operation and maintenance, as well as stable and reliable quality of produced water.

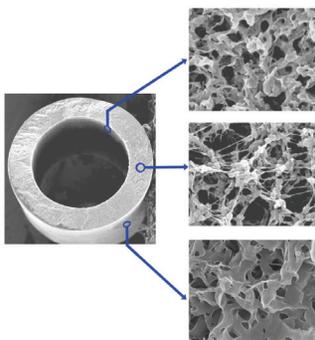
Product Features

“Complex Thermally Induced Phase Separation” (c-TIPS) PVDF UF membrane / proprietary technology /

Canpure PVDF Outside-in UF membrane is made by Canpure's patented c-TIPS technology. It has the strength of PVDF membrane is higher than that of PVDF membrane prepared by NIPS, prepared by NIPS Method and much better filtration grade than PVDF membrane prepared by conventional TIPS Method.



Filtering Schematic of the UF membrane Module



Photos of cross section of a PVDF membrane capillary

Permanent hydrophilic property / proprietary technology /

During the preparation of Canpure Outside-in UF membrane, hydrophilic substances are added and special cross-linking technique is applied, endowing the permanent hydrophilic property of the capillary, more stable product water flux, improved anti-fouling property and better cleaning recovery.

High anti-oxidation performance

Canpure PVDF Outside-in UF membrane features high crystallinity, can tolerate oxidant with higher concentration, and thus can achieve more profound cleaning effect and longer life.

High strength and large flux

Canpure Outside-in UF membrane has a capillary strength of higher than 10 MPa, standard produced water flux $400\text{L}/\text{m}^2 \cdot \text{h} \cdot \text{bar}$, at 25°C .

Unique aeration structure

Canpure Outside-in UF membrane adopts unique aeration device in side the module, ensuring more even aeration and better air cleaning effect.

Integrated bundles of fibers / proprietary technology /

Among the similar products in the market, Canpure Outside-in UF membrane has more bundle of fibers. Which can effectively ensure water flow is more evenly distributed within the module.

Soft Potting / proprietary technology /

The soft potting technique invented by Canpure realizes the flexible connection between the “root” of the capillaries and the soft layer of the potting material, and prevents the break of the root of the capillaries.

Technical Parameters of SVF Series Outside-in UF Membrane Modules

Specification			
Model	SVF-1080-A	SVF-1060-A	SVF-1030-A
Active membrane area (m ²)	105	75	35
Module size (mm)	φ 250 × 2215	φ 250 × 1715	φ 250 × 965
Membrane material	Polyvinylidene fluoride (PVDF)		
Membrane preparation method	Complex thermally induced phase separation (c-TIPS)		
Filtration pore size (μm)	0.05 ^①		
Capillary ID/OD(mm)	0.7/1.3		
Housing/Cap material	UPVC		

Application Condition	
Filtration Mode	Dead end/Cross flow
Filtration cycle (mins)	20 ~ 120
Product water flux(L/m ² · h)	30 ~ 100
Backwash Flux (L/m ² · h)	90 ~ 110
Air wash flow(Nm ³ /h · Nos)	5 ~ 12
pH range	1 ~ 12
Max.tolerated NaClO concentration (mg/L · h)	50000
NaClO Wash concentration (mg/L)	≤2000
Max.tolerated turbidity (NTU)	50
Max. particle size (μm)	300
Air wash pressure (MPa)	<0.1
Max.applied feed pressure (MPa)	0.5
Max.TMP (MPa)	0.2
Max.backwash pressure (MPa)	0.2
Operating temperature (°C)	1~40

① It can be adjusted by changing material formula.

Applications



Project Site

Recycle water in Gansu Province:
15,000m³/d



Project Site

Municipal water plant in Tuekey:
39,000m³/d



Project Site

A seawater desalination plant in Qingdao:
23,000m³/d

PRODUCT



SVEF-1080



SVEF-1060

SVEF Series Outside-in Ultrafiltration(UF) Membrane Modules

Product Profile

Canpure Outside-in Membrane Module has the characteristics of high strength, sufficient aeration, strong pollution resistance, strong chemical resistance, low pressure and high flux. SVEF Outside-in ultrafiltration(UF) membrane has strong adaptability to the change of raw water quality, easy operation and maintenance, stable and reliable water quality, and is suitable for the treatment of all kinds of groundwater, surface water, micro-polluted water, municipal wastewater/industrial wastewater reuse, seawater filtration and other occasions, can effectively remove water turbidity, suspended solids, colloids, microorganisms and other substances.

Product Features

High Strength

Canpure Fiber-Reinforced Membrane is a PVDF membrane with tubes, which has high capillary strength to effectively prevent membrane capillaries from breakage.

No membrane peeling

With Canpure's thermal process inlay, PVDF membrane is embedded and bind to the supporting tubes so that the membrane "peeling off" problem is effectively solved.

Permanent hydrophilic property / proprietary technology/

During the preparation of Canpure Outside-in UF reinforced membrane, hydrophilic substances are added and special cross-linking technique is applied, endowing the permanent hydrophilic property of the capillary, more stable product water flux, improved anti-fouling property and better cleaning recovery.

High anti-oxidation performance

Canpure PVDF Outside-in UF reinforced membrane features high crystallinity, can tolerate oxidant with higher concentration, and thus can achieve more profound cleaning effect and longer life.

High strength and large flux

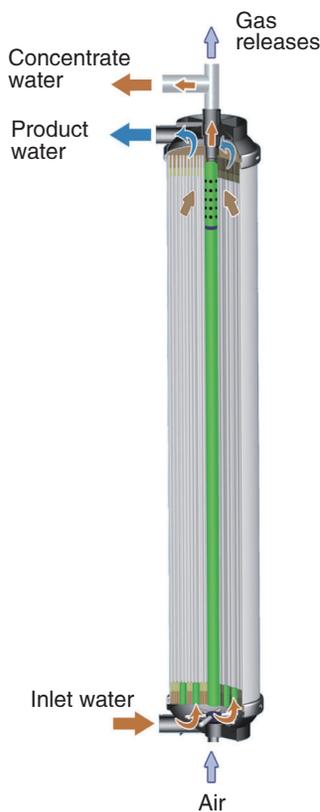
Canpure Outside-in UF reinforced membrane has a capillary strength of higher than 169MPa, standard produced water flux $400\text{L}/\text{m}^2 \cdot \text{h} \cdot \text{bar}$, at 25°C .

Unique aeration structure

Canpure Outside-in UF reinforced membrane adopts unique aeration device inside the module, ensuring more even aeration and better air cleaning effect.

Ultra low operating pressure

Canpure Outside-in ultrafiltration(UF)membrane assemblies typically operate at pressures as low as 0.02 MPa.



Photos of cross section of a PVDF membrane capillary

Technical Parameters of SVEF Series Outside-in UF Membrane Modules

Specification		
Model	SVEF-1080	SVEF -1060
Active membrane area (m ²)	63	45
Module size (mm)	φ 250 × 2215	φ 250 × 1715
Membrane material	Polyvinylidene fluoride (PVDF)	
Membrane preparation method	Fiber-reinforced hollow membrane	
Filtration pore size (μm)	0.05 ^①	
Capillary OD(mm)	2.0 ^②	
Housing/Cap material	UPVC	

Application Condition	
Filtration Mode	Dead end/Cross flow
Filtration cycle (mins)	20 ~ 120
Product water flux (L/m ² · h)	30 ~ 100
Backwash Flux (L/m ² · h)	90 ~ 110
pH range	1 ~ 12
Max.tolerated NaClO concentration (mg/L · h))	50000
NaClO Wash concentration (mg/L)	≤2000
Max.tolerated turbidity (NTU)	50
Max. particle size (μm)	300
Air wash pressure (MPa)	<0.1
Max.applied feed pressure (MPa)	0.5
Max.TMP(MPa)	0.2
Max.backwash pressure (MPa)	0.2
Operating temperature (°C)	1 ~ 40

①It can be adjusted by changing material formula.

②We have an outside diameter of 2.6mm、 1.6mm products.It is available for selection. Consult the manufacturer for details.



 Project site

—Reclaimed water factory in Inner Mongolia: 12,000m³/d

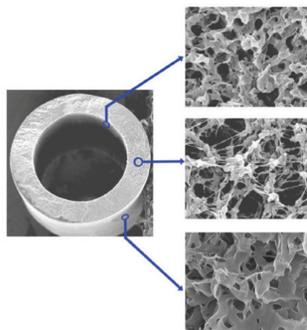
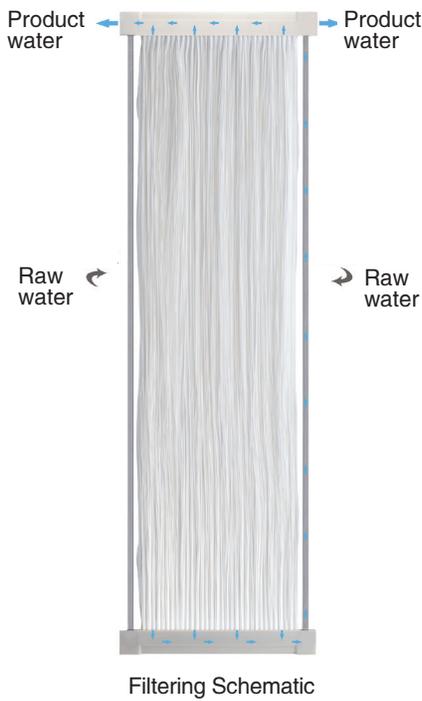
PRODUCT

SVS/SVM Series Submerged Ultrafiltration Membrane Modules MBR Membrane Modules



Product Profile

The Canpure curtain type membrane module adopts a full-open design to prevent polluting dead angles and is obviously advantageous in large-scale systems with the strengths such as strong adaptability to membrane water, high packing density and small floor space.



Photos of cross section of a PVDF membrane capillary

Product Features

Complex Thermally Induced Phase Separation (c-TIPS) PVDF UF Membrane / proprietary technology/

Canpure PVDF membrane is made by Canpure's patented c-TIPS technology. It has capillary strength higher than PVDF membrane prepared by NIPS Method and much better filtration grade than PVDF membrane prepared by conventional TIPS Method.

Permanent Hydrophilic Property / proprietary technology/

During the preparation of Canpure PVDF membrane, hydrophilic substances are added and special cross-linking technique is applied, endowing the permanent hydrophilic property of the capillary, more stable product water flux, improved anti-fouling property and better cleaning recovery.

High Anti-oxidation Performance

Canpure PVDF membrane has high crystallinity, can tolerate oxidant with higher concentration, and thus can achieve more profound cleaning effect and longer life.

Double-end Water Production

Permeate water is produced from both the lower and upper ends in Canpure Membrane Modules. This offers larger flux and more even distribution of fouling load than traditional single-end water production mode, and also effectively reduces the TMP and prolongs the operation cycle.

Soft Potting / proprietary technology/

The soft potting technique initiated by Canpure realizes the flexible connection between the "root" of the capillaries and the soft layer of the potting material, and prevents the break of the root of the capillaries.

Technical Parameters of SVS/SVM Series Membrane Modules

Specification			
Model	SVS-5080/SVM-5080	SVS-2580/SVM-2580	SVS-2540/SVM-2540
Active membrane area (m ²)	60/40	20	10
Module size (mm)	1250*2000*30	625*2000*30	625*1000*30
Membrane material	Polyvinylidene Fluoride (PVDF)		
Membrane	Complex thermally induced phase separation (c-TIPS)		
Filtration pore size	0.05 ^①		
Capillary ID/OD(mm)	0.7/1.3		

Application Condition	
Filtration Mode	Gravity/Suction filtration
Filtration cycle (mins)	20 ~ 120
Product water flux (L/m ² · h)	5 ~ 60
Air wash flow (Nm ² /h · Nos)	1 ~ 3 ^②
pH range	1 ~ 12
Max.tolerated NaClO concentration (mg/L · h)	50000
NaClO concentration(mg / l)	≤2000
Max.TMP(KPa)	10 ~ 50
Operating temperature (°C)	1 ~ 40

①It can be adjusted by changing material formula.

②If use 5080 Membrane Module,will double the aeration.

Applications



Project site

—————Recycle water for steel plant in Inner Mongolia: 42,000m³/d

PRODUCT

SVES/ SVEM Series Submerged Ultrafiltration Membrane Modules MBR Membrane Modules



SVES-2580
SVEM-2580



SVES-2540
SVEM-2540

Product Profile

Canpure fiber-reinforced membrane module has the characteristics of high strength, large flux and strong adaptability. The membrane module is immersed inside membrane cistern, and the system is highly integrated with good product water. Canpure fiber-reinforced submerged UF membrane module can be applied in municipal/industrial waste water treatment, high-concentration organic waste water treatment, and other sectors.

Product Features

High Strength

Canpure Fiber-Reinforced Membrane is a PVDF membrane with tubes, which has high capillary strength to effectively prevent membrane capillaries from breakage.

No membrane peeling

With Canpure's thermal process inlay, PVDF membrane is embedded and bind to the supporting tubes so that the membrane "peeling off" problem is effectively solved.

High flux and low TMP

Through the proprietary membrane technology of Canpure, the filter layer can be evenly coated on the support layer of the fiber braided pipe, and the uniform pore size and high opening rate can be achieved. High operation energy, effectively reduce the filtration pressure difference.

Strong Adaptability to Raw Water

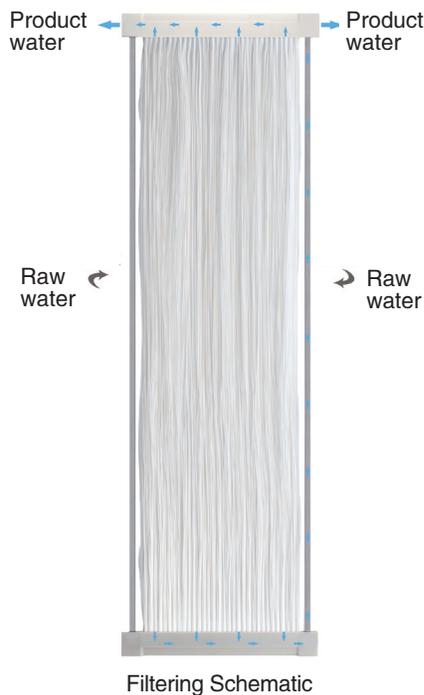
Canpure Fiber-Reinforced Membrane has a strong adaptability to raw water and operates properly under great fluctuation of raw water and temperature. It is applied in treatment of urban drinking water and municipal water, reuse of reclaimed water, sewage treatment, and other sectors.

Tolerating High-intensity Gas Scrubbing and Water Flushing

Canpure Fiber-Reinforced Membrane can tolerate high-intensity gas scrubbing and water back washing, and can effectively prevent sludge accumulating inside membrane modules.

Double-end Water Production

Permeate water is produced from both the lower and upper ends in Canpure Fiber-Reinforced Membrane Modules. This offers larger flux and more even distribution of fouling load than traditional single-end water production mode, and also effectively reduces the TMP and prolongs the operation cycle.



Photos of cross section of a PVDF membrane capillary

Technical Parameters of SVES/SVEM Series Membrane Modules

Specification			
Model	SVES-5080/SVEM-5080	SVES-2580/SVEM-2580	SVES-2540/SVEM-2540
Active membrane area (m ²)	40	20	8.9
Module size(mm)	1250*2000*30	625*2000*30	625*1000*30
Membrane material	Polyvinylidene Fluoride (PVDF)		
Membrane preparation method	Fiber-reinforced hollow membrane		
Filtration pore size (μm)	0.1 ^①		
Capillary ID/OD(mm)	2.0 ^③		

Application Condition	
Filtration	Gravity/Suction filtration
Filtration cycle (mins)	20~120
Product water flux (L/m ² · h)	5 ~ 60
Air purge flow (Nm ³ /h · Nos)	1 ~ 3 ^②
pH	1 ~ 12
Max.toleratedNaClO concentration (mg/L · h)	50000
NACLO concentration (mg / l)	≤2000
Max.TMP(KPa)	10 ~ 50
Operating temperature (°C)	1 ~ 40

① It can be adjusted by changing material formula.

② If use 5080 Membrane Module, will double the aeration.

③ We have an outside diameter of 2.6mm、 1.6mm products. It is available for selection. Consult the manufacturer for details.

Applications



Project Site

—Coal-chemical wastewater: 16,800m³/d

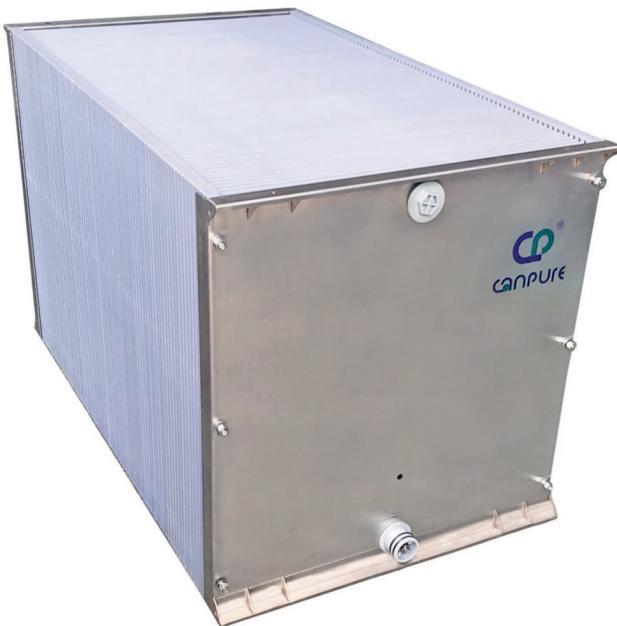


Project Site

—The Vigny Lun wastewater plant of sinopec: 28,800m³/d

PRODUCT

CPFC Series Flat Sheet MBR Membrane Modules



Product Profile

Canpure Flat Sheet MBR Membrane Module adopts PTFE membrane material, features high anti-fouling Capacity and low filtration resistance, suitable for gravity Filtration .It is manufactured by unique cassette Structure ,features higher packing density. Large filtration area.The module is designed stack and arranged, Large filtration area with small floor area and simple system integration and lower operating cost.

Product Features

PTFE membrane material

PTFE has the highest chemical stability and no adhering surface properties. Canpure flat sheet PTFE MBR membrane can tolerate strong acid, alkali and oxidant cleaning, and offers better cleaning effect and stronger anti-fouling capacity.

Permanent hydrophilic property

The proprietary technology endows Canpure Flat Sheet membrane permanent hydrophilic property. Pure water flux exceeds $1000\text{L}/\text{m}^2 \cdot \text{hr}$, at $1\text{ mH}_2\text{O}$.

Gravity filtration membrane

Canpure PTFE membrane made by biaxial stretching process, has a porosity above 80% and generates rather low filtration resistance with common flux, the TPM is low than $0.5\text{mH}_2\text{O}$, which makes gravity filtration possible (non-pump filtration).

Cassette structure / proprietary technology/

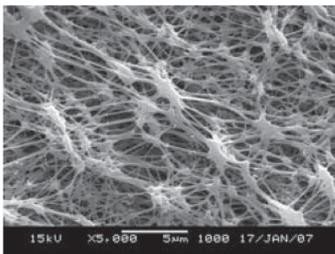
Canpure Flat Sheet MBR membrane modules adopt openings at both the lower and upper ends, effectively avoiding twining of hair and paper fibers in waste water .

High packing density

Canpure Flat Sheet Membrane Modules adopt unique multi-layer cassette structure, significantly improves packing density.

Superimposed arrangement—energy-saving & effective

Canpure Flat Sheet Membrane Modules are designed for forming multi-layer “stack over” structure, substantially reducing the total footprint, significantly lowering the operating aeration flow and it can cutting off the operating cost of conventional flat sheet MBR.



Electron micrograph of diaphragm

Technical Parameters of CPFC Series Flat Sheet MBR Membrane Modules

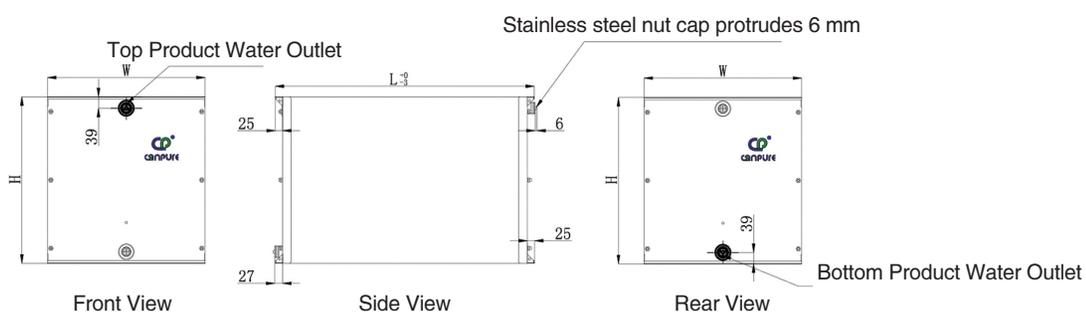
Specification			
Model	CPFC2020-80	CPFC2020-60	CPFC2020-40
Active membrane area	40	30	20
Membrane material	Modified PTFE		
Filtration pore size (μm)	0.2 ^①		
Product connection (mm)	Φ 40 Couping		

Application Condition	
Filtration	Gravity/Suction filtration
Product water flux (L/m ² · h)	10 ~ 30
pH	1 ~ 13
Max.tolerated NaClO concentration (mg/L · h)	50000
TMP(KPa)	2 ~ 50
Max.backwash pressure (KPa)	10
Operating temperature (°C)	1 ~ 40

①The parameters can be adjusted according to the production process.

②Plastic case size, Consult the manufacturer for details.

Module Size (mm)			
Model	CPFC2020-40	CPFC2020-60	CPFC2020-80
L	474	684	894
W	548		
H	570		



Applications



 Project Site

—Municipal sewage treatment in Guizhou, 10,000m³/d

PRODUCT

CP Series EDI Modules



CP-4500S



CP-3600S

Product Profile

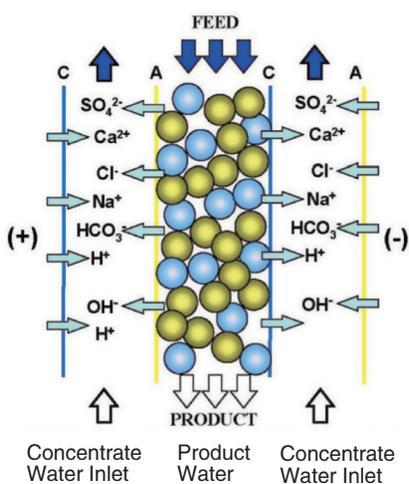
(EDI, Electro – deionization) Electro–deionization is a kind of using mixed ion of anionic and cation of the water adsorption and ion exchange resin, at the same time, the adsorption of ions and under the action of DC voltage, respectively through ion exchange membrane into the thick of anionic and cation very water chamber and removed, on the other hand, under the action of DC voltage, water can produce enough dissociation of H^+ ions and OH^- ions, in order to realize the continuous deep desalting. This new technology can replace the traditional ion exchange (DI), produce the resistance rate is as high as $18 M\Omega$ pure water. EDI's most significant advantage is that it no longer requires the regeneration of ion exchange resins with acids and bases, making it more environmentally friendly.

Product Features

- Inlet water and concentrated water / Electrolyte water flow in reverse (countercurrent) to avoid scaling.
- Special ion exchange membrane, high exchange capacity, strong selectivity.
- No salt for operation, operation cost is reduced.
- All water chambers are filled with resin to improve ion migration efficiency and reduce energy consumption.
- High frequency rectifier power supply, rectifier effect is better than silicon control.
- The waterway and circuit are on the same side, simple and beautiful.

Electrical Specification

- The current corresponds to EDI module one by one, the working current is stable and the voltage is better controlled.
- Plug in installation structure, plug-in form, input and output cable.
- LED digital display, clear value.
- As a power switch, the breaker can protect the circuit with fault.
- Input protection, output protection, soft start current characteristic protection, over temperature protection, flow protection.



Working Principle of Countercurrent EDI

Technical Parameters of CP Series EDI Modules

Module parameters						
Modules ^①	CP-5800S	CP-4500S	CP-3600S	CP-2000S	CP-1000S	CP-500S
Size(mm)	616 × 296 × 797	616 × 296 × 648	616 × 296 × 512	616 × 296 × 395	616 × 296 × 295	616 × 296 × 215
Weight (kg)	160	130	110	80	68	58
Product Flow(m ³ /h)	5.0 ~ 6.5	4.0 ~ 5.1	3.0 ~ 3.8	2.0 ~ 2.6	1.0 ~ 1.5	0.5 ~ 0.7
Concentrate Flow(m ³ /h)	0.50 ~ 0.62	0.4 ~ 0.51	0.3 ~ 0.38	0.2 ~ 0.26	0.1 ~ 0.15	0.05 ~ 0.07
Electrolyte water(L/h)	60					
DC Power	CB-500	CB-500	CA-350	CA-350	CA-350	CA-150
Operation Voltage (V)	100~450	80~300	50~240	50~160	20~100	20~80
Operation Current (A)	0.5 ~ 5.5					

Feedwater requirements	
TEA(Total Exchanged Anion)	Maximum 35ppm
Hardness (as CaCO3)	Maximum 1 ppm
Organics (as TOC)	Maximum 0.2ppm
Residual chlorine	Maximum 0.02ppm
Oxidizers (Cl ₂ /O ₂)	Not detectable
SiO ₂	Maximum 0.5 ppm
SDI ₁₅	<1.0
Operating pH Range	7.0 – 9.0
Operating Temperature	5 – 35 °C(41–95°F)
Metals (Fe,Mn,etc.)	Fe Maximum 0.01 ppm , Mn Maximum 0.01ppm
Applied Feed Pressure	Maximum 0.4 MPa (60 psi)

①We have more micro products,can consult the manufacturer.

Applications



Project Site

—A power plant in Inner Mongolia: 7,680m³/d

Clear · Clean · Pure

Canpure

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