



Product Guideline

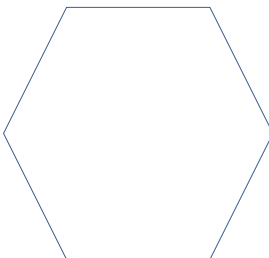
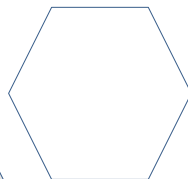
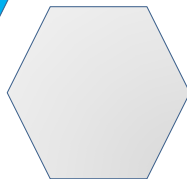
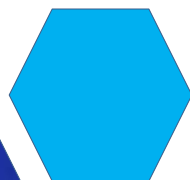
Membrane Part

Origin Pure Environment Technology Co., Ltd.

Address: No. 1403 Bolang Building, NBHTZ, Ningbo, China

Phone: 0086 275 100 8283

Email: info@origin-pure.com



Contents

Company Introduction	0
UF Membrane.....	1
Outside-in PVDF Hollow Fiber UF Membrane Modules.....	1
Reinforced PVDF Hollow Fiber MBR Membrane Modules.....	3
RO Membrane	5
Seawater Desalination RO Unit	7
Case Study.....	9



Company Introduction

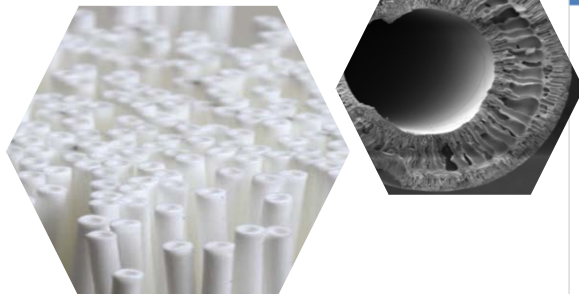
Origin Pure Environment Technology Co., Ltd. is a one stop filtration solutions professional manufacturer and supplier, committed to provide high quality filtration solution to meet worldwide customers various needs with good service, struggle for health, safety and environment friendly sustainable development.

Since 2015, Origin Pure Environment Technology specialized in better filtration solutions, supply good quality filters, membrane & housings to a diverse range of customers in water treatment, food & beverage, oil & chemicals, electronics, petrochemical, sea water desalination, power plant etc.



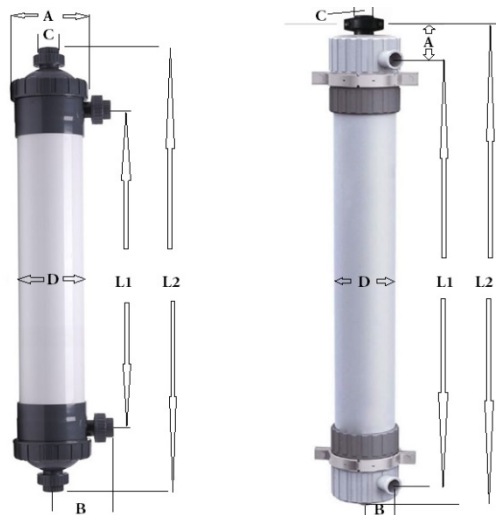
Outside-in PVDF Hollow Fiber UF Membrane Modules

Origin Pure Super Hydrophilic PVDF Hollow Fiber membrane is produced by patent production, which leads to be small pore size, uniform hole distribution, high efficiency ratio and high bacteria remove.



Feature:

- UF membrane could remove bacteria, virus, organic substance, algae etc
- Hydrophilic PVDF hollow fiber membrane, stable chemical characteristic, anti-contaminant, easy to clean, long term lifespan;
- Outside-in flow have a widely turbidity, reduce pretreatment process
- Widely used for river water, mineral water, sea water desalination and industrial water treatment.

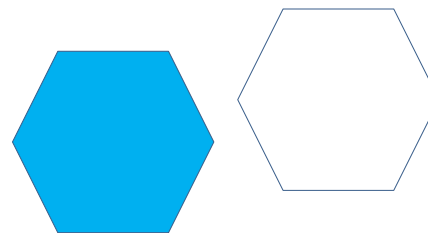


Item	L1	L2	A	B	C	D
UFO 40	1752mm	1528mm	195mm	164mm	DN32	160mm
UFO 55	1860mm	1630mm	135mm	180mm	DN50	225mm
UFO 80	2360mm	2130mm	135mm	180mm	DN50	225mm

Specification		UFP 40	UFP 55	UFP 80
Data Base	Element	Dia 160*1752	Dia 225*1860	Dia 225*2360
	Dimension mm			
	Surface Area m ²	40	55	80
	Material	PVDF		
	Pore Size	0.03um		
	Fiber	0.7/1.3		
	Dimension			
	Cage material	UPVC		
	Seal material	ABS		
	Store material	Dry or Wet		
Operation Data	Turbidity	<100		
	Work Pressure	0.1~0.3		
	Design Flux	35~135		
	Flux mean	Dead end/Cross Flow		
	Recycle time	20~60		
	Backwash mean	Air Water Wash		
	Backwash Time	2~3		
	Backwash Pressure	<0.25		

Order Information

Model#	φDiameter	Membrane	Surface Area	Connection
UFP 40	160mm	PVDF	40 m ²	Unions Joint
UFP 55	225mm	PVDF	55 m ²	Victaulic Joint
UFP 80	225mm	PVDF	80 m ²	Victaulic Joint



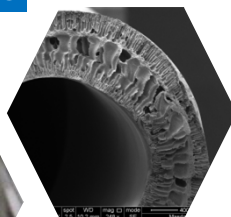
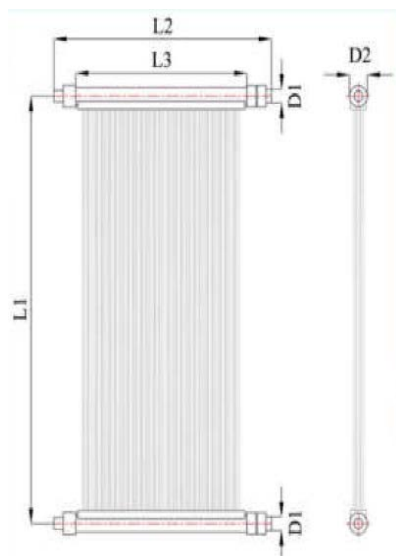
Reinforced PVDF Hollow Fiber MBR Membrane Modules

Origin Pure Super Reinforced PVDF Hollow Fiber membrane is produced by patent technology, which owns strengthen force upto 200N.

Meanwhile, After special process, our membrane is good for dry transportation in avoid of bacteria pollution issue.

Feature:

- MBR used reinforced PVDF hollow Fiber membrane, anti-contamination, easy to wash and longer Lifespan
- MBR sealed by separated distribution, reasonable distance to ensure flow rate and reduce block risk by sludge;
- Patent MBR bottom sealing technology to avoid membrane broken

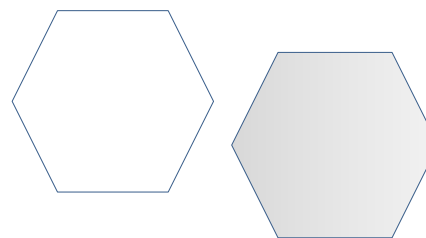


Item	L1	L2	L3	D1	D2
MBR 10	1025mm	620mm	480mm	DN20	50mm
MBR 15	1525mm	620mm	480mm	DN20	50mm
MBR 20	2025mm	620mm	480mm	DN20	50mm

Specification		MBR 10	MBR 15	MBR 20
Data Base	Element	620*1025	620*1025	620*1025
	Dimension mm			
	Surface Area m ²	10	15	20
	Material	Reinforced PVDF		
	Pore Size	0.05~0.1um		
	Fiber Dimenscion	1.0/2.2		
	Cage material	ABS		
	Seal material	Epoxy Resin		
	Store material	Dry or Wet		
	Operation	Vaccum Press		
Operation Data	Work Pressure	-5~-50Kpa		
	Design Flux	10~25		
	Flux mean	Permeate 8mins/Stop 2mins		
	Recycle time	10mins		
	Backwash mean	Air Water Wash		
	Backwash Time	30~120sec		
	Backwash Pressure	60Kpa		

Order Information

Model#	Length	Membrane	Surface Area	Connection
MBR-10	1.0m	Reinforced PVDF	10 m ²	Screw Joint
MBR-15	1.5m	Reinforced PVDF	15 m ²	Screw Joint
MBR-20	2.0m	Reinforced PVDF	20 m ²	Screw Joint



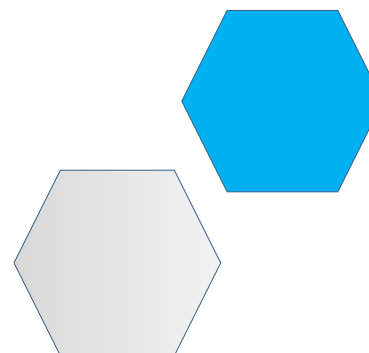
RO Membrane Modules

Origin Pure RO membrane has the properties of low-pressure operation, high permeate and excellent desalination and are applicable to desalination of brackish water and sea water. Besides, It is characterized by low operating pressure, low investment in equipment, excellent rejection rate and reliable performance



Testing Conditions		General-purposal Industrial RO	Seawater Desalination RO	Fouling Resistant RO
Testing Pressure		225psi(1.55Mpa)	800psi(5.5Mpa)	225psi(1.55Mpa)
Testing	Solution	25°C	25°C	25°C
Temperature				
Testing	Solution	2000ppm	32800ppm	2000ppm
Concentration (NaCl)				
pH Value of Testing		7.5	7.5	7.5
Solution				
Single	Element	15%	8%	15%
Recovery				

Type	Model	Stable Rejection	Average Permeate GPD	Working Pressure &	Testing Conditions		
					Testing Pressure	Testing Solution Concent	Recovery (%)
General-purpose Industrial RO	LPRO1-8	99.5	9600 (36.3)	Working under low pressure. Applicable to regular or high	225 (1.55)	2000	15
	LPRO2-8	99.5	10500				
	LPRO1-4	99.5	2400 (9.1)				
	ULP21-80	99.0	11000	Working under ultra low pressure. Applicable to feedwater with	150 (1.03)	1500	15
	ULP32-80	99.5	10500				
	ULP11-40	98.0	2700 (10.2)				
	ULP21-40	99.0	2400 (9.1)				
	ULP31-40	99.4	1900 (7.2)				
Seawater RO	SW21-80	99.7	5000 (18.9)	Working under high pressure. Applicable to seawater or quasi	800 (5.5)	32800	8
	SW22-80	99.7	6000 (22.7)				
	SW21-40	99.5	1400 (5.3)				
Fouling Resistant RO	FR11-8040	99.5	9600 (36.3)	Working under low pressure. Applicable to feedwater with small content of	225 (1.55)	2000	15
	FR11-4040	99.5	2200 (8.3)				



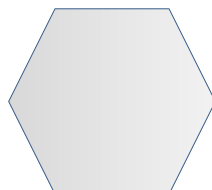
Seawater Desalination RO Unit

Origin Pure's Seawater Desalination Reverse Osmosis unit are capable of removing salts and other substances for drinking water.



Features

- Powder coated carbon steel frame
- 4" Seawater desalination spiral wound membranes
- Heavy duty 5 micron sediment pre filter
- Corrosion resistant high pressure pump
- 380V/3Ph/50Hz power requirement
- Pre/post filter and pump pressure gauges
- FRP pressure vessels & Media filter
- Tagging and identification of instrumentation
- Heavy duty high pressure tubing
- Corrosion resistant high pressure throttling valve
- Pretreatment lockout
- Low pressure switch
- Product and reject flow meters
- Electric inlet solenoid valve



Max. feed water temperature: 42°C

Feed water pressure: 20 to 80 psi

Nominal rejection NaCl% 99.6%

Minimum rejection NaCl% 99.3%

Maximum hardness: 5

Operating pressure: 150 to 250 psi

Hydrogen Sulfide NA

Turbidity NA

Max. Iron content: 0.05 ppm

Feed water TDS: 0-2,000 ppm

TDS 5,000 ppm

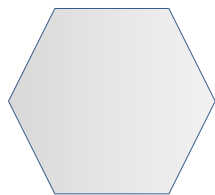
PH tolerance range: 3-11

Max. Silica tolerance: 25 ppm @ 60% recovery



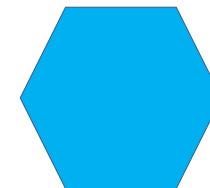
Order Information

Model#	Permeate Capacity	Membrane	Qty	Approx. Weight	Dimensions L*W*H
SRU-05	0.5m³/h	Dow 4' ' RO	4pcs	250kgs	2.0*1.2*1.9m
SRU-10	1.0m³/h	Dow 4' ' RO	8pcs	380kgs	2.5*1.3*1.9m
SRU-20	2.0m³/h	Dow 8' ' RO	4pcs	500kgs	3.0*1.5*2.0m



Project: 50m³/h Industrial Park Waste Water System
Located: Vietnam
Application: Industrial Park
Details: 165pcs/15modules MBR .
New CASE

Project: UF80 series UF system unit 100m³/h
Located: China
Application: Power Plant
Details: 20pcs UF80 series replaced with Dow system.
REPLACE CASE



Project: Bottle Water RO System Unit 20m³/h
Located: China
Application: Bottle Water Plant
Details: 2 Classes RO system Unit
REPLACE CASE

Project: Ultra Water RO System Unit 1m³/h
Located: China
Application: AirPort
Details: Sanitary RO unit with all Stainless Steel spare parts
REPLACE CASE

