

Process Membrane Manufacturer

RisingSun Membrane Technology (Beijing) Co., Ltd.

Add : Shunren Rd. No.51, Linhe Industrial Zone, Shunyi District, Beijing, China Tel: +86-10-89496869 / 89496579 E-mail: info@risingsunmem.com Website: www.risingsunmem.com

Post code : 101300 Fax : +86-10-89496839



Released in Jan. 2020 Products specification may be updated continually, please contact us for any inquiry.





Tubular Membranes

RisingSun Membrane

Our Products Enhance Your Brand

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Decoding of Membranes Model





Company profile

RisingSun Membrane with location in Beijing China is a national high-tech enterprise. We focus on liquid filtration membrane products' research, production, application and service. In order to protect the environment, China government continues to higher the standard of wastewater treatment.

As a professional membrane products manufacturer, we pay much more attention on the technical innovation for hard industrial wastewater treatment. We developed tubular membranes for "Landfill Leachate", "RO brine and cooling water" and "Fruit and Vegetable Juice" etc. At present, we have high technology and application experience for difficult wastewater treatment, and our specialty has been highly recognized by customers around the world.

We devote to

Supply integrated solution of membrane products for wastewater treatment. Supply membrane products and process for liquid separation, concentration and clarification.

We positioning in

A professional manufacturer of membrane products used for waste water treatment.

A professional manufacturer of specialty membranes.

Offer specialty and common membrane R & D for engineering companies.



RisingSun Tubular Membranes, Made in China





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Tubular Membranes Technology

Tubular membranes are particularly suited to liquid with high viscosity or suspended solids, because their wide flow paths make them highly resistant to clogging. Tubular membranes system is an external and separated filtration system. For high solid content and viscosity liquid, we use adjustable cross-flow velocity to make the membrane run under optimal conditions and extend membrane service life. At the same time, it has more convenient cleaning, maintenance, and operation under closed pipeline.



SUN® Tubular membranes use a cross-flow filtration technology. The cross-flow filtration can reduce cleaning times and downtime, so as to maintain a high flow rate. Some membranes are available for back washing, if necessary, you can also use permeate or chemical cleaner for back washing, effectively extend the membranes working life.



SUN[®] Tubular Membranes Scope & Main Applications

Membranes Development

Membrane chemical material: PVDF, PES, PAN, PS MWCO range: 5,000-250,000 dalton Membrane inner tube diameter: 5-12.7mm Membrane module standard diameter: 3",4", 6", 8",10". Standard length: 3m, 3.6m, 4m For pilot testing module standard diameter: 1~3", Length: 0.5~1.5m

We continue membrane chemical properties development to expand the range. Now, we can offer robust, fouling resistance and antioxidant membrane (PVDF Max. Chlorine Exposure 250,000ppm.h), acid and alkali resistance (20%NaOH), Pure water flux can be 800LMH, Max. operation pressure is10bar and max. temperature is 95°C. Even if the activated sludge concentration up to 40g/L, the membrane flux can be 70~150LMH for domestic waste water.

Typical Applications

Difficult waste water fields: Landfill leachate treatment Pretreatment for alkali liquor recycle Special chemical waste water (Coking, Tannery, textile, wood pulp bleach) treatment Return injection of produced water from oil field Emulsified oil treatment

Common waste water fields: Electronic factory wastewater treatment Municipal wastewater treatment

Specialty fields:

Fruit juice and tea drinks clarification Food and bio-pharmaceutical fermentation clarification Electrophoretic paint recovery







Decoding of SUN® Tubular Membranes Model

SUN® Tubular Membranes Sheet Parameters

	T G- U F 100 -8 8 30 -XX										
Configuration	Vessel Material	Membrane Type	Membrane Material	MWCO/Pore size	Tube ID.	Module OD.	Module Length	Internal code			
Tubular	GLASSFIBER(FRP)	Ultrafiltration	F=PVDF	005 5,000Da	<mark>5</mark> =5mm		10 =1m	H:high			
	Stainless Steel	Microfiltration	N=PAN	<mark>010</mark> 10,000Da	<mark>8</mark> =8mm	4=4inch	<mark>30</mark> =3m	temperature			
	Polysulfone		E=PES	100 100,000Da	<mark>10</mark> =10mm	<mark>6</mark> =6inch	40 =4m	R:alkali			
	U-PVC		<mark>S</mark> =PS	003 0.03um	<mark>12</mark> =12.7mm	8=8inch	<mark>36</mark> =3.6m	resistance			
				<mark>30nm</mark> 30nm		10 =10inch		N:no vessel			
				010 0.1um							
				<mark>020</mark> 0.2um							

Membrane Inner Tube: 8mm Specifications

Module Size	Module Length (mm)	Module OD.(inch)	Membrane Area(m ²)	Vessel Material
8430	3000	4''	6.4	FRP
8630	3000	6''	15.2	FRP
8830	3000	8''	27.2	FRP
8840	4000	8′′	36.7	FRP
81030	3000	10''	40	FRP
81040	4000	10''	53.4	FRP

Membrane Inner Tube: 5mm Specifications

Module Size	Module Length (mm)	Module OD.(inch)	Membrane Area(m ²)	Vessel Material
5630	3000	6''	17.7	FRP
5830	3000	8′′	32.7	FRP
5840	4000	8′′	43.6	FRP
51030	3000	10''	50.4	FRP
51040	4000	10''	67.2	FRP

Membrane Inner Tube: 10mm Specifications

Module Size	Module Length (mm)	Module OD.(inch)	Membrane Area(m ²)	Vessel Material
10630	3000	6''	12.1	FRP
10830	3000	8''	21.2	FRP
10840	4000	8''	28.2	FRP
101030	3000	10''	29.6	FRP
101040	4000	10''	39.4	FRP

Membrane Inner Tube:12.7mm Specifications

Module Size Module Length (mm)		Module OD.(inch)	Membrane Area(m ²)	Vessel Material
12336	3658	3''	2.7	PSU
12436	3658	4.3''	5.1	PSU

SUN® Hydrophilic membrane sheet specifications

Deremeter	Unit				Membrane Material						
Falametei	Unit	PVDF		PAN	PES						
Pore size/MWCO	Dalton	30nm	100,000	15,000	50,000	0.1µm	100,000	50,000	10,000	5,000	
Clean Water Flux	LMH, 100kpa	>800	>800	>50	>150	>600	>350	>200	>25	>15	
Operation Pressure	Кра		-20~800			-20~800					
Max.Operation Temperature	°C		60			60					
pH Range		2~10				2~12					
Chloringe Exposure	ppm∙h		250,000			250,000					

Note: Membrane inner tube diameter is 5–12.7mm; Superior fouling resistance; Higher sustainable flux; Easier cleaning; Strong negative pressure resistance.

Maximum operating pressure up to 10bar, Working life up to more than 5 years.





SUN® Tubular Membranes for Landfill Leachate

Process Introduction

The external tubular membrane system is a kind of process mainly for high concentration wastewater treatment, especially for landfill leachate. It is composed of biochemical process and external tubular UF membrane system. Pollutants such as organic matter will be removed through biochemical process and the sludge and water will be separated through the external tubular UF membranes, so as to get high quality ultrafiltration water, and the concentrated water will return to the biochemical tank. The designed flux is up to 70~120LMH, and the filtration accuracy can reach 0.03um. The 8mm diameter channel can effectively retain the sludge without causing membrane fouling. The maximum sludge concentration can up to 40g/l.



The combination of the tubular UF membrane system with RO or NF can make the landfill leachate effluent meet China government level 1 & level 2 discharge standards.

Membrane Module: TG-30nm-8830, Operation Parameters (an example)

Working principle	cross filtration	Flux per module	1.9t/h
Operation pressure	5bar/5modules	Chemical cleaning frequency	1~2 month
Flux rate	70 LMH	Pressure drop.	0.8 bar

Reference of selection tubular membranes in the field of landfill leachate										
Daily Capacity Q (m³/d)	Q≤50	50≤Q≤120	120≤Q≤250	250≤Q≤400	300≤Q≤500					
Module size	4inch diameter 3 meter length	6inch diameter 3 meter length	6inch diameter 3 meter length	10inch diameter, 3 meter length or 8inch diameter 4 meter length	10inch diameter 4 meter length					
Module qty.	3–6 pcs	3–6 pcs	4–6 pcs	4–6 pcs	4–6 pcs					

Recommended design flux: 70LMH; Cross-flow filtering; CIP chemical cleaning.

TG-UF SeriesTubular Membranes

Application for Landfill Leachate and Other Industrial Waste Water

PRODUCT	Membrane Chem	nistry:		Rol	oust PVE	DF		
DESCRIPTION	Membrane Type			UF	UF Membrane, Pore Size: 30nm			
	Construction :			Tuk	bular, Ve	essel Mate	erial: FR	P/UPVC/SS
	Options:			4",	6", 8", 10)" Dimens	sions are	e all available
SPECIFICATIONS	Model	Tube ID.	Module OD	Module	Length	Membra	ne Area	Clean Water Flu
		(mm)	(inch)	(m	m)	(m	2)	@100kpa(T/H)
	TG-30nm-8430	8.0	4.0	30	00	6.4	4	5.12
	TG-30nm-8630	8.0	6.0	30	00	15.	.2	12.16
	TG-30nm-8830	8.0	8.0	30	00	27.	.2	21.76
	TG-30nm-8840	8.0	8.0	40	00	36.	.7	29.36
	TG-30nm-81030	8.0	10.0	30	00	40.	.0	32.00
	TG-30nm-81040	8.0	10.0	40	00 W cizo pilo:	53. t modulos	.4	42.72
	we can offer custom.		ne module, espe	cially for sma	ili size pilo	t modules.		
OPERATION	Typical Operation	n Pressure	5.	43.	5-72.5 p	si (3.0-5.0) bar)	
SPECIFICATIONS	Max.Operation Pressure:				116psi (8.0bar)			
	Min.Outlet Pressure:				10psi (0.7bar)			
	Max. Permeate Pressure:				3psi (0.2bar)			
	Single Module Pressure Drop:				14.5 psi	(0.75-1.0	bar)	
	Max.Operation Temperature (pH:8):				°F (60 ℃)		
	Max. Temperature for CIP:				ŀ°F (40 ℃)		
	pH-Continuous Operation @25°C:				-10.0			
	pH-CIP @40℃:			2.0	2.0-12.0			
	Max. Chlorine Exposure:			250	250,000ppm·h			
	For special industry applications, please contact us.							
DESIGN	Feed Reference.			4/6	/8/10 in	ch vessel:	70/150	/270/400 m ³ /h
PARAMETERS	Recommended F	low Veloc	itv.	3-5	m/s			, _, _,,,
					117 5			
DIMENSIONS	-		1	-				
	- D -	z bi-						
			11		-			
	a0							
			_)l		Q.	9		
				E	5	<u> </u>		
	Model	A	B	C (mana)	D	E	F	
	TG_20pm 8/20	(mn	1) (mm) 0 11/12	(mm) 107	(mm) 20	(mm) ⊿o	(mm) as	
	TG-30000-8620	300	0 1683	160	90	40 60	90 125	
	TG-30nm-8830	300	0 219.1	210	90	73	165	
	TG-30nm-8840	400	0 2191	210	90	73	165	

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262

273.0

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88.9



Model	А
	(mm)
TG-30nm-8430	3000
TG-30nm-8630	3000
TG-30nm-8830	3000
TG-30nm-8840	4000
TG-30nm-81030	3000
TG-30nm-81040	4000



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SUN® Tubular Membranes for RO Brine and **Cooling Water Reuse**

Process Introduction

- By adding chemicals such as quicklime or NaOH to remove calcium, magnesium and heavy metal ions in concentrated water, eliminating various scaling and pollution, and protecting the subsequent reverse osmosis system.
- Using tubular membrane to separate the precipitation caused by the dosing reaction. The membrane system adopts frequency conversion control, using cross-flow and online backwashing to ensure the membrane flux and extend the cleaning cycle of the membrane system.
- STRO/DTRO high-pressure membrane system can reconcentration of high-salt water to achieve waste water reduction.
- Using the evaporating crystallizer, the water is evaporated and the salt is crystallized to achieve zero discharge target.



Features

High strength, pH2-12, stable effluent quality.

High flux of 70-200LMH.

Fouling resistance, SS concentration can be up to 40g/L.

Long use life, backwash is available.

Low energy consumption, about 1-2Kwh/m³

Reference design of RO concentrated water									
Cycling speed 1-3m/s		Pressure drop 1-3bar		Backwash time interval	30-60min				
Flow rate	80-120LMH	SS concentration	≤40g/L	Backwash time	30-60s				
Operation Temperature	5-40°C	Energy Consumption	1-2Kwm/m ³	Chemical cleaning frequency	2-4weeks				

TG-UF SeriesTubular Membranes

Application for RO Brine and Cooling Water Reuse

PRODUCT	Membrane Chemi	stry :		F	VDF			
DESCRIPTION	Membrane Type:			L	UF Membrane, MWCO:100,000 Dalton			
	Construction:			Т	ubular, V	essel Ma	aterial: Fl	RP
	Options:			4	-", 6", 8", "	10" Dime	nsions ai	re all available
SPECIFICATIONS	Model	Tube ID.	Module OD.	Modu	le Length	Membra	ane Area	Clean Water Flu
		(mm)	(inch)	1)	nm)	(n	n²)	@100kpa(T/H)
	TG-UF100-5430-R	5.0	4.0	3	000	8	.0	6.40
	TG-UF100-5630-R	5.0	6.0	3	000	17	7.7	14.16
	TG-UF100-5830-R	5.0	8.0	3	000	32	2.7	26.16
	TG-UF100-5840-R	5.0	8.0	4	000	43	3.6	34.88
	TG-UF100-51030-R	5.0	10.0	3	000	50).4	40.32
	TG-UF100-51040-R 5.0 10.0 4000 67.2 53.76							53.76
	We can offer customize	d membran	e module, especi	ally for sn	nall size pilo	ot modules.		
OPERATION	Typical Operation Pressure:			2	28-72.5 psi (2.0-5.0 bar)			
SPECIFICATIONS	Max.Operation Pressure:			1	116 psi (8.0 bar)			
	Min.Outlet Pressure:			1	10 psi (0.7 bar)			
	Max.Operation Temperature (pH:8):			1	140°F (60°C)			
	Max. Temperature for CIP:			1	04°F (40	C)		
	pH-Continuous Operation @25°C:			2	2.0-12.0			
	pH-CIP @40°C:			1	1.0-13.0			
	Max. Chlorine Exposure:			2	250,000ppm·h			
	For special industry applications, please contact us.							
DESIGN	Feed Reference:			4	4/6/8/10 inch vessel: 40/85/160/240 m3/h			
PARAMETERS	Recommended Flo	ow Veloci	ty:	1	1-3m/s			
DIMENSIONS				E		H H		
	Model TG-UF100-5430- TG-UF100-5630-	A (mm) R 3000 R 3000	B (mm) 114.3 168 3	C (mm) 107 160	D (mm) 80 90	E (mm) 48 60	F (mm) 98 125	

TG-UF100-51030-R 3000 TG-UF100-51040-R 4000

TG-UF100-5830-R 3000 TG-UF100-5840-R 4000







В	С	D	Е	F
(mm)	(mm)	(mm)	(mm)	(mm)
114.3	107	80	48	98
168.3	160	90	60	125
219.1	210	90	73	165
219.1	210	90	73	165
273.0	262	150	88.9	180
273.0	262	150	88.9	180



SUN® Tubular Membranes for Acid and Alkali Recycle

Process Introduction

- Tubular membrane with modified PES material can work at pH14, which is suitable for recycle acid and alkali.
- Remove suspended particles, turbidity, and macromolecular proteins.
- High anti-fouling membrane module design.
- Offer high quality pretreatment for the subsequent RO/NF process.

Process Flow for Alkali Recovery



Project Reference

Client: A pharmaceutical company

Project Purpose: Alkali waste water recovery

Water type:	Resin regenerates alkali waste water	Application:	Reuse of recycled water
Turbidity:	790mg/L	Alkalinity:	12,000mg/L
Conductivity:	41ms/cm	Total hardness:	2,200mg/L
COD:	17,000mg/L	pH:	13-14
Sulfate radical:	Sulfate radical: 1,700mg/L		475mg/L
TDS:	34,000mg/L	Temperature:	30-45 °C
Design capacity:	1,400m³/day	Permeate quality:	SDI≤3
Concentration ratio:	10times	Permeate flux:	80-100LMH

TG-UE-R SeriesTubular Membranes

Application for Acid and Alkali Recycle

PRODUCT	Membrane Chemist	ry:		Special PS / I	PES				
DESCRIPTION	Membrane Type:			Alkali Resistance UF Membrane, MWCO:100,000 Dalton, Tolerance 20% NaOH					
	Construction:			Tubular, Vessel Material: FRP / SUS					
	Options:			4", 6", 8", 10'	Dimensions are	e all available			
SPECIFICATIONS	Model	Tube ID.	Module OD	Module Length	Membrane Are	a Clean Water Flux			
		(mm)	(inch)	(mm)	(m ²)	@100kpa(T/H)			
	TG-UE100-8430-R	8.0	4.0	3000	6.4	2.24			
	IG-UE100-8630-R	8.0	6.0	3000	15.2	5.32			
	IG-UE100-8830-R	8.0	8.0	3000	27.2	9.52			
	IG-UE100-8840-R	8.0	8.0	4000	36.7	12.85			
	IG-UE100-81030-R	8.0	10.0	3000	40.0	14.00			
	IG-UE IUU-8 IU4U-K 8.U IU.U 4000 53.4 18.69 We can offer customized membrane module, especially for small size pilot modules.								
	Tunical Operation R								
SPECIFICATIONS	May Operation Pressure:			43.5 - 72.5 psi (3.0 - 5.0 bar)					
	Mia. Operation Fressure.			145 pSI (10.0 bar)					
	Min.Outlet Pressure:			10 psi (0.7 bar)					
	Max. Permeate Pressure:			3 psi (0.2 ba	r)				
	Single Module Pressure Drop:			4–6 psi (0.2	7–0.40 bar)				
	Max.Operation Temperature (pH:8):			140° F(60°C	C)				
	Max. Temperature for CIP:			140° F(60°0	C)				
	pH−Continuous Operation @25℃:			20% NaOH	20% NaOH				
	pH–CIP:			0.0-14.0					
	Max Chlorine Exposure			250,000ppm • h					
	For special industry applic	ations, pleas	lease contact us.						
DESIGN	Feed Reference:			4/6/8/10 incl	n vessel: 70/150,	/270/400 m³/h			
PARAMETERS	Recommended Flow	Velocity	:	2-5m/s					
	-	A							
DIMENSIONS	D								
		()	1						
		1							
			-	E					
	Model	A	В	C D	E F				
		(mm)	(mm)	(mm) (mm)	(mm) (mn	ר)			
	TG-UE100-8430-R	3000	114.3	107 80	48 98	_			
	IG-UE100-8630-R	3000	168.3	160 90	60 125	-			
	1G-UE100-8830-K	3000	219.1	210 90	73 165				
	TG-UE100-0040-K	4000	213.1	210 90	15 10.	,			

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Model	А
	(mm
TG-UE100-8430-R	3000
TG-UE100-8630-R	3000
TG-UE100-8830-R	3000
TG-UE100-8840-R	4000
TG-UE100-81030-R	3000
TG-UE100-81040-R	4000



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SUN® Tubular Membranes for Fruit and Vegetable Juice

Process Introduction

UF membranes can separate substances of 0.005-0.01um, including microorganisms, bacteria, colloid, heat sources, suspended particles, and organic polymers. It is widely used in juice separation industry with perfect performance. The process can be operated at room temperature, and maintenance is easy.



Typical Applications

Apple juice, pear juice, peach juice, carrot juice, tomato juice, pineapple juice, grape juice, orange juice etc.

Clarification and concentration for various vegetable juices.

Extraction the effective ingredients of aloe, tea etc.

Separation of beer and wine.

TP-UF/ME Series Sanitary Tubular Membranes

Application for Juice Processing

PRODUCT	Membrane Chemistry:			Special P	Special PS / PES			
DESCRIPTION	Membrane Type:			Alkali Res MWCO:1	Alkali Resistance UF Membrane, MWCO:100,000 Dalton, Tolerance 20% NaO			
	Construction:			Tubular, '	Vessel Material: Ff	RP / SUS		
	Options:			4", 6", 8",	10" Dimensions a	are all available		
	Model	Tube ID.	Module OD.	Module Lengt	h Membrane Area	a Clean Water Flux		
SPECIFICATIONS		(mm)	(inch)	(mm)	(m ²)	@100kpa(T/H)		
	TP-UF100-12330	12.7	3.0	3048	2.2	1.76		
	TP-UF100-12336	12.7	3.0	3658	2.7	2.16		
	TP-UF100-12436	12.7	4.3	3658	5.7	4.56		
	TP-ME010-12336	12.7	3.0	3658	2.7	0.94		
	TS-UF100-8330	8.0	3.0	3048	3.3	2.64		
	We can offer customize	ed membrane	e module, especia	lly for small size pi	lot modules.			
OPERATION	Typical Operation	Pressure:		58.0-72.5	psi (4.0-5.0 bar)			
SPECIFICATIONS	Max.Operation Pressure:			87 psi (6.0 bar)				
	Min.Outlet Pressure:			10.0 psi (0.7bar)				
	Max. Permeate Pressure:			3 psi (0.2	bar)			
	Single Module Pressure Drop:			4-6 psi (0).27-0.40 bar)			
	Max.Operation Temperature (pH:8):			140°F (60)°C)			
	Max. Temperature for CIP:			104°F (40)°C)			
	, pH-Continuous Operation @25℃:			2.0-10.0				
	pH-CIP @40°C:			2.0-12.0				
	Max. Chlorine Exposure:			250,000ppm·h				
	特殊行业应用请联系我们							
DESIGN	Feed Reference:		3.0 inc	h vessel: 25 m ³	³ /h (ID=12.7mm);1	15 m³/h (ID=8.0m		
PARAMETERS			4.3 inc	h vessel: 49 m ³	³/h			
	Recommended Fl	ow Velocit	ty: 2-3m/	S				
			A		-			
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		U.	-4:-1			<u>+</u> 1		
	Nedel	٨	P	C D	F F			
	IVIOGEI	A (mm)	B (mm) (C D	E F)		
	TP-UF100-12330	3048	91	76 63.5	50.5 76.0)		
	TP-UF100-12336	3658	91	76 63.5	50.5 76.0)		
	TP-UF100-12436	3658	119	109 71.0	50.5 82.5			

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76.0

76.0

50.5

50.5

63.5

63.5



Customized Tubular Membranes

Customized Tubular Membranes

Based on customers' individual requirements, we can provide customized services.





What is your request for membrane hell material?



FRP、PVC、 PSU、SUS

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Flat Sheet Membranes

In order to meet virous needs of our customers, we can offer UF, NF, MF and RO membrane sheet with different material and wide MWCO. For acid and alkali recycling industry, we can provide membrane withstand 20% NaOH solution, good chemical stability, long working life and high separation efficiency.

Membrane materials

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Polyether sulfone (PES)	High thermal and chemical resistance
Polysulfone (PS)	Precise MWCO
Polyvinylidene fluoride (PVDF)	High flux capacity
Polyacrylonitrile (PAN)	Fouling resistant
Polyamide (PA)	Long service life
Cellulose (CA)	Acid/caustic resistant
Regenerated cellulose (RC)	High temperature resistant

RO membrane	Stable Rejection(%)	Flux rate(LMH)	Replacement reference	Typical applications
RO1	99.5	45	BW30	
RO2	99.2	55	LE	Water treatment;
RO3	99.5	50	XFR	Specific liquid concentration;
RO4	99.4	42	SW30	Sea water desalination;
RO5	99.7	47	SW30ULE	Wastewater treatment; etc.
RO6	99.8	30	SW30HR	

RO1, RO3 test condition: 2,000ppm NaCl, 225psi(1.55MPa), 25°C;

RO2 test condition: 2,000ppm NaCl, 150psi(1.03MPa), 25°C;

RO4, RO5, RO6 test condition: 32,000ppm NaCl, 800psi(5.5MPa), 25°C.

NF membrane	Stable Rejection(%)	Stable Rejection(LMH)	Replacement reference	Replacement reference
NF1	≥99.0	43	NF90	Soft water:
NF2	≥99.0	42	NF245	Acid and caustic recovery;
NF3	≥97.0	55	NF270	Precious-metals recovery;
NF4	≥98.0	50	GE DL	Dye concentration, desalination;
NF5	≥98.5	38	DK	Whey desalination;
NF6	≥95.0	18	SeIRO MPS-34	Antibiotic concentration;
NF7	85.0-95.0	60	XN45	Polysaccharide desalination;
NF8	60.0-85.0	65	UA60	BOD/COD removal; etc.

NF1-NF5,NF7,NF8 test condition: 2,000ppm MgSO4, 110psi(0.76MPa), 25 °C; NF6 test condition: 2,000ppm MgSO4, 142psi(1.0MPa), 25 °C. Alkali resistant.







UF membrane	Membrane material	MWCO (Dalton)	Flux rate (LMH) @25℃,0.35MPa	Replacement reference		Typical applications
UE001	C i	1,000	20*		GE	
UE002	Composite membrane	2,000	45*	GE	GH	
UE003		3,000	60**		GK	
UE004		4,000	75**	NADIR	UP005	Color removal;
LIEOOE		E 000	100	КОСН	HFK-328	Chondroitin sulfate concentration
UEUUS		5,000	100	GE	PT	Antibiotics, protein & polypeptide
UE008		8,000	130	GE	GM	concentration;
				КОСН	HFK-131	Enzyme concentration;
UE010	DEC	10,000	150	GE	PW	WPC / WPI;
	PES			UP010		Purification of antibiotics &
LIE020		20.000	200	UP	020	vaccines;
01020		20,000	200	PE020		Recovery of whey protein,
UE030		30,000	240	UH030		gelatin, enzyme;
UE050		50,000	260	UH	050	Electrocoat paint recovery;
US020	DC	20,000	280	PS	520	Cell harvesting or biomass;
US050	P3	50,000	350	US	100	Beverage clarification;
UF050		50,000	400	КОСН	HFM-100	Pretreatment for RO/NF; etc.
UF100		100,000	500	КОСН	HFM-300	
UN010		10,000	150	PA	.50	
UN050	PAN	50,000	400	PA	200	
UN100		100,000	450	PA	400	_
UR030	RC	30,000	250	ALFA LAVA	L RC70PP	_
UR100	I.C.	100,000	350			_
UC005		5,000	150		14529	_
UC010	CA	10,000	200	STARIOUS	14539	_
UC050		50,000	350		14549	

* Test condition: 142psi(1.0MPa), 25℃;

Note: pH range @25°C: (1)PES 0-14; (2)PS 1-14; (3)PVDF,PAN 1-12; (4)RC 1-11; (5)CA 1-14.

MF membrane	Membrane material	Pore size (µm)	Flux rate (LMH) @25°C,0.1MPa	Replacement reference		Typical applications
ME005	DEC	0.05	>280	MICRODYN NADIR MP005		MBR industry; Biotech/Pharmaceutical; Microbial removal:
ME010	PES	0.10	>320	KOCH MFK-603		
MF010	PVDF	0.10	>500	TORAY	MBR	Protein separation; Antibiotic clarification; Enzyme clarification; Pretreatment for RO/NF; etc.
MF022		0.22	>1000	KUBOTA		
MF045		0.45	>1500			

lon exchange membrane	Membrane character	Funcational group	Exchange capacity(meq/g)	Replacement reference		Typical applications
AE1	PES	Quaternary Ammonium	1.0±0.1	MI	AMI-7001	The anode & cathode electrocoating process; EDI, etc.
AE2			0.9	LANXESS SYBRON	IONAC MA-3475	
AE3			1.0		IONAC MA-7500	
CE1	PVDF	Sulfonic Acids	1.6±0.1	MI	CMI-7000	
CE2			1.4	LANXESS SYBRON	IONAC MC-3470	

1. The above data may vary but will be no more than 15% below the value shown; Products specifications may vary as design revisions take place. 2. The standard width of membrane sheet is 40inch, sample is available.





Intellectual Properties

RisingSun Membrane speed up the progress through continuous investment in membrane technology research and development to improve the performance of the current products and develop new products for emerging industries.

At present, we have obtained a wide range of intellectual property rights and some membrane industrial certifications.

Trademark

RisingSun Membranes SUN (picture)



On Site Application Pictures



Project One



Project Three



Project Five



Project Seven







Project Two



Project Four



Project Six



Project Eight