RisingSun Membrane

Process Membrane Manufacturer

经销商粘贴处

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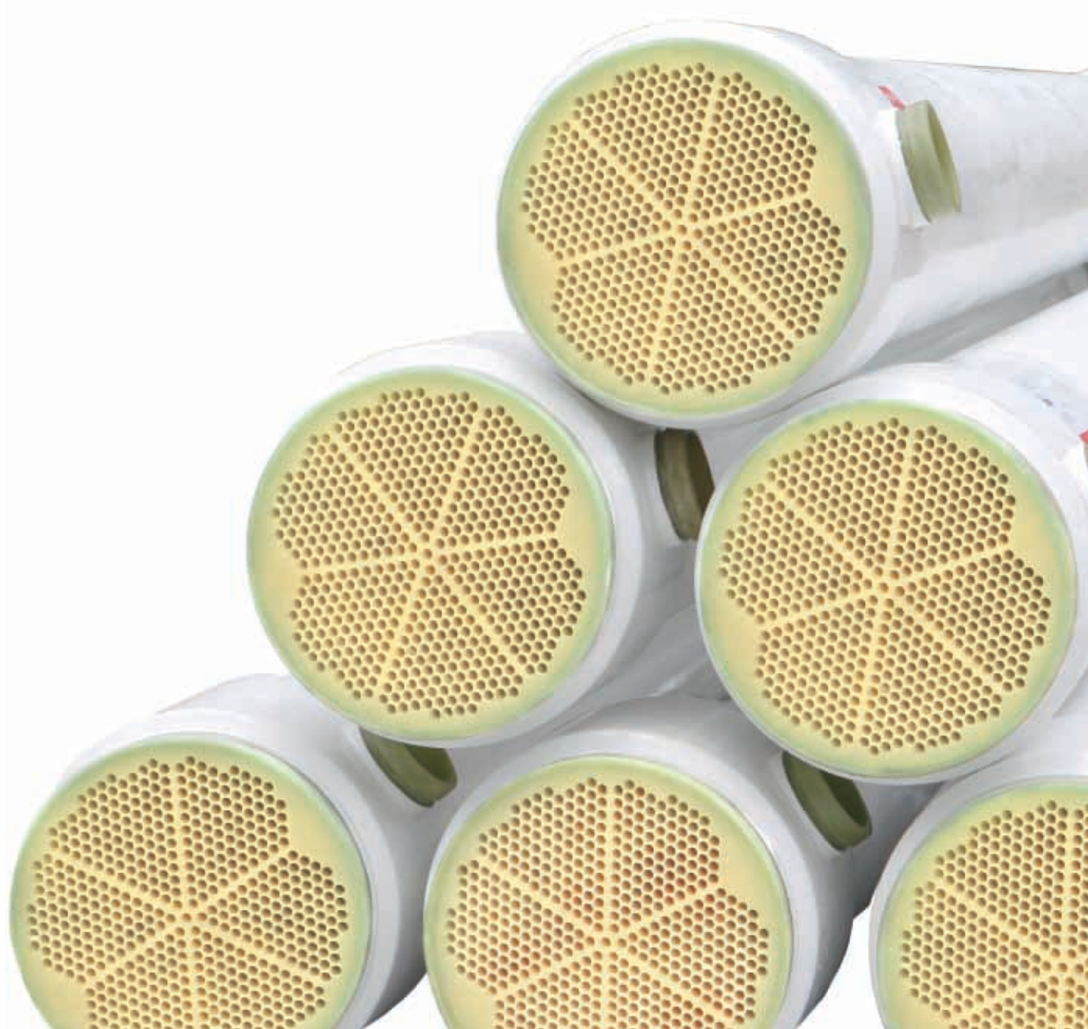
Products specification may be updated continually, please contact us for any inquiry.

RisingSun Membrane

Tubular Membranes



SUN

RisingSun Membrane

Our Products Enhance Your Brand

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.

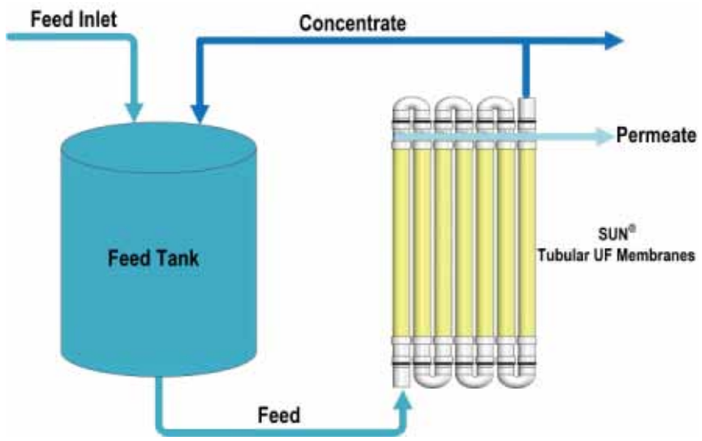
We positioning in

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.

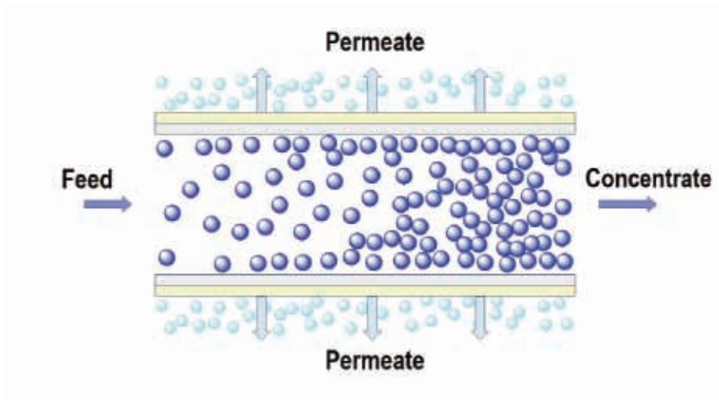
Every drop,we count.

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℃.
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

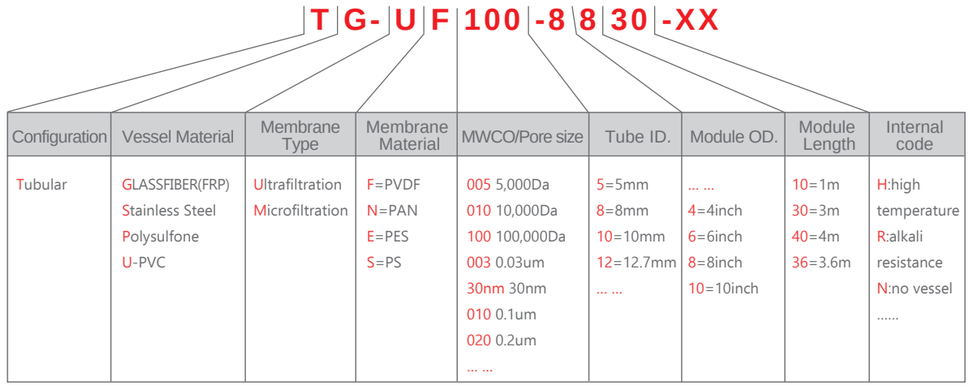
Common waste water fields:

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



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

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

Every drop,we count.

SUN® Tubular Membranes Sheet Parameters

SUN® Hydrophilic membrane sheet specifications

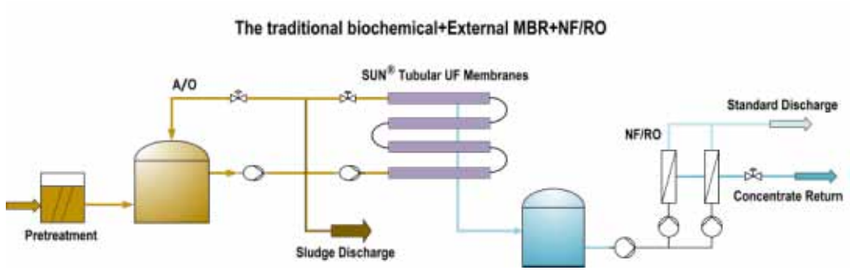
Parameter	Unit	Membrane Material								
		PVDF			PAN	PES				
Pore size/MWCO	Dalton	30nm	100,000	15,000	50,000	0.1μm	100,000	50,000	10,000	5,000
Clean Water Flux	LMH, 100kpa	＞800	＞800	＞50	＞150	＞600	＞350	＞200	＞25	＞15
Operation Pressure	Kpa	-20~800				-20~800				
Max.Operation Temperature	℃	60				60				
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 (m^3/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.

Every drop,we count.

TG-UF SeriesTubular Membranes

Application for Landfill Leachate and Other Industrial Waste Water

PRODUCT DESCRIPTION

Membrane Chemistry:	Robust PVDF
Membrane Type:	UF Membrane, Pore Size: 30nm
Construction:	Tubular, Vessel Material: FRP/UPVC/SS
Options:	4", 6", 8", 10" Dimensions are all available

SPECIFICATIONS

Model	Tube ID. (mm)	Module OD. (inch)	Module Length (mm)	Membrane Area (m^2)	Clean Water Flux @100kpa(T/H)
TG-30nm-8430	8.0	4.0	3000	6.4	5.12
TG-30nm-8630	8.0	6.0	3000	15.2	12.16
TG-30nm-8830	8.0	8.0	3000	27.2	21.76
TG-30nm-8840	8.0	8.0	4000	36.7	29.36
TG-30nm-81030	8.0	10.0	3000	40.0	32.00
TG-30nm-81040	8.0	10.0	4000	53.4	42.72

We can offer customized membrane module, especially for small size pilot modules.

OPERATION SPECIFICATIONS

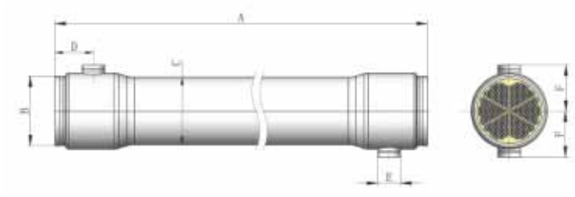
Typical Operation Pressure:	43.5-72.5 psi (3.0-5.0 bar)
Max.Operation Pressure:	116psi (8.0bar)
Min.Outlet Pressure:	10psi (0.7bar)
Max. Permeate Pressure:	3psi (0.2bar)
Single Module Pressure Drop:	11-14.5 psi (0.75-1.0 bar)
Max.Operation Temperature (pH:8):	140°F (60℃)
Max. Temperature for CIP:	104°F (40℃)
pH-Continuous Operation @25℃:	2.0-10.0
pH-CIP @40℃:	2.0-12.0
Max. Chlorine Exposure:	250,000ppm·h

For special industry applications, please contact us.

DESIGN PARAMETERS

Feed Reference:	4/6/8/10 inch vessel: 70/150/270/400 m^3/h
Recommended Flow Velocity:	3-5m/s

DIMENSIONS

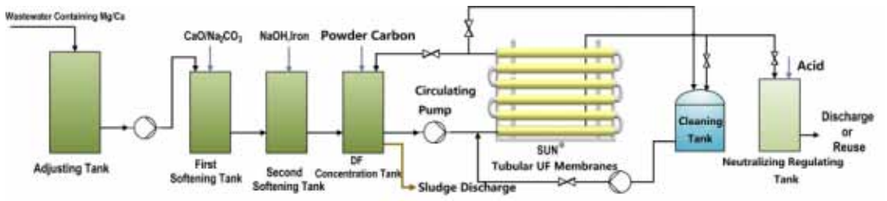


Model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
TG-30nm-8430	3000	114.3	107	80	48	98
TG-30nm-8630	3000	168.3	160	90	60	125
TG-30nm-8830	3000	219.1	210	90	73	165
TG-30nm-8840	4000	219.1	210	90	73	165
TG-30nm-81030	3000	273.0	262	150	88.9	180
TG-30nm-81040	4000	273.0	262	150	88.9	180

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/m^3

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℃	Energy Consumption	1-2Kwm/m^3	Chemical cleaning frequency	2-4weeks

TG-UF SeriesTubular Membranes

Application for RO Brine and Cooling Water Reuse

PRODUCT DESCRIPTION

Membrane Chemistry:	PVDF
Membrane Type:	UF Membrane, MWCO:100,000 Dalton
Construction:	Tubular, Vessel Material: FRP
Options:	4", 6", 8", 10" Dimensions are all available

SPECIFICATIONS

Model	Tube ID. (mm)	Module OD. (inch)	Module Length (mm)	Membrane Area (m^2)	Clean Water Flux @100kpa(T/H)
TG-UF100-5430-R	5.0	4.0	3000	8.0	6.40
TG-UF100-5630-R	5.0	6.0	3000	17.7	14.16
TG-UF100-5830-R	5.0	8.0	3000	32.7	26.16
TG-UF100-5840-R	5.0	8.0	4000	43.6	34.88
TG-UF100-51030-R	5.0	10.0	3000	50.4	40.32
TG-UF100-51040-R	5.0	10.0	4000	67.2	53.76

We can offer customized membrane module, especially for small size pilot modules.

OPERATION SPECIFICATIONS

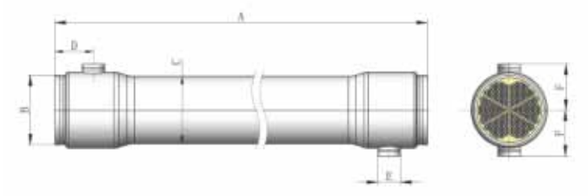
Typical Operation Pressure:	28-72.5 psi (2.0-5.0 bar)
Max.Operation Pressure:	116 psi (8.0 bar)
Min.Outlet Pressure:	10 psi (0.7 bar)
Max.Operation Temperature (pH:8):	140°F (60℃)
Max. Temperature for CIP:	104°F (40℃)
pH-Continuous Operation @25℃:	2.0-12.0
pH-CIP @40℃:	1.0-13.0
Max. Chlorine Exposure:	250,000ppm·h

For special industry applications, please contact us.

DESIGN PARAMETERS

Feed Reference:	4/6/8/10 inch vessel: 40/85/160/240 m3/h
Recommended Flow Velocity:	1-3m/s

DIMENSIONS



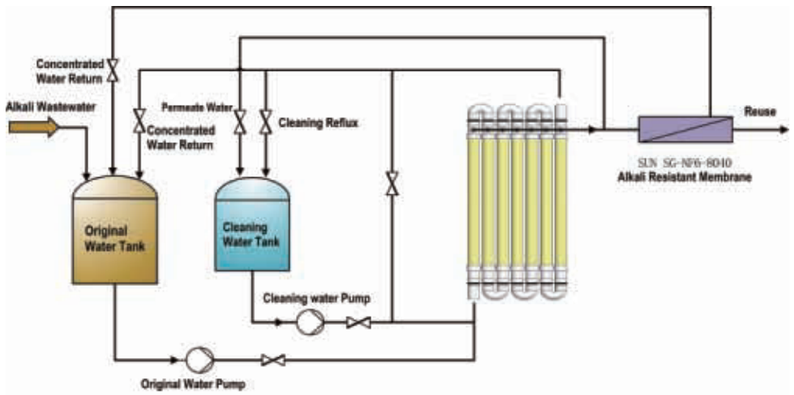
Model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
TG-UF100-5430-R	3000	114.3	107	80	48	98
TG-UF100-5630-R	3000	168.3	160	90	60	125
TG-UF100-5830-R	3000	219.1	210	90	73	165
TG-UF100-5840-R	4000	219.1	210	90	73	165
TG-UF100-51030-R	3000	273.0	262	150	88.9	180
TG-UF100-51040-R	4000	273.0	262	150	88.9	180

SUN® Tubular Membranes for Alkali Recovery

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:	1,700mg/L	Chloride:	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

Every drop,we count.

TG-UE-R SeriesTubular Membranes

Application for Acid and Alkali Recycle

PRODUCT DESCRIPTION

Membrane Chemistry:	Special PS / PES
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 all available

SPECIFICATIONS

Model	Tube ID. (mm)	Module OD. (inch)	Module Length (mm)	Membrane Area (m^2)	Clean Water Flux @100kpa(T/H)
TG-UE100-8430-R	8.0	4.0	3000	6.4	2.24
TG-UE100-8630-R	8.0	6.0	3000	15.2	5.32
TG-UE100-8830-R	8.0	8.0	3000	27.2	9.52
TG-UE100-8840-R	8.0	8.0	4000	36.7	12.85
TG-UE100-81030-R	8.0	10.0	3000	40.0	14.00
TG-UE100-81040-R	8.0	10.0	4000	53.4	18.69

We can offer customized membrane module, especially for small size pilot modules.

OPERATION SPECIFICATIONS

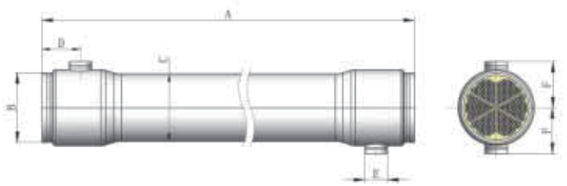
Typical Operation Pressure:	43.5–72.5 psi (3.0–5.0 bar)
Max.Operation Pressure:	145 psi (10.0 bar)
Min.Outlet Pressure:	10 psi (0.7 bar)
Max. Permeate Pressure:	3 psi (0.2 bar)
Single Module Pressure Drop:	4–6 psi (0.27–0.40 bar)
Max.Operation Temperature (pH:8):	140° F (60℃)
Max. Temperature for CIP:	140° F (60℃)
pH–Continuous Operation @25℃:	20% NaOH
pH–CIP:	0.0–14.0
Max. Chlorine Exposure	250,000ppm • h

For special industry applications, please contact us.

DESIGN PARAMETERS

Feed Reference:	4/6/8/10 inch vessel: 70/150/270/400 m³/h
Recommended Flow Velocity:	2-5m/s

DIMENSIONS

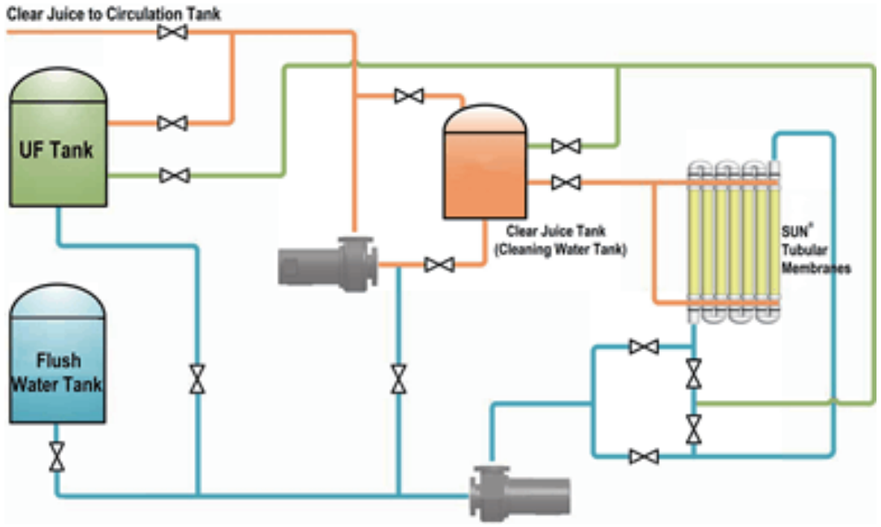


Model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
TG-UE100-8430-R	3000	114.3	107	80	48	98
TG-UE100-8630-R	3000	168.3	160	90	60	125
TG-UE100-8830-R	3000	219.1	210	90	73	165
TG-UE100-8840-R	4000	219.1	210	90	73	165
TG-UE100-81030-R	3000	273.0	262	150	88.9	180
TG-UE100-81040-R	4000	273.0	262	150	88.9	180

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 DESCRIPTION

Membrane Chemistry:	Special PS / PES
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 all available

SPECIFICATIONS

Model	Tube ID. (mm)	Module OD. (inch)	Module Length (mm)	Membrane Area (m^2)	Clean Water Flux @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 customized membrane module, especially for small size pilot modules.

OPERATION SPECIFICATIONS

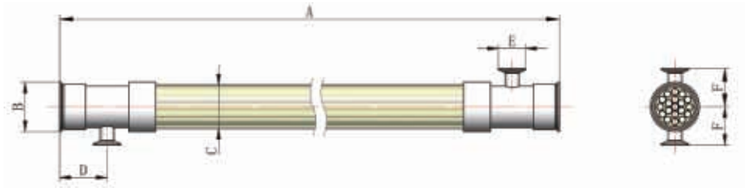
Typical Operation Pressure:	58.0-72.5 psi (4.0-5.0 bar)
Max.Operation Pressure:	87 psi (6.0 bar)
Min.Outlet Pressure:	10.0 psi (0.7bar)
Max. Permeate Pressure:	3 psi (0.2 bar)
Single Module Pressure Drop:	4-6 psi (0.27-0.40 bar)
Max.Operation Temperature (pH:8):	140°F (60℃)
Max. Temperature for CIP:	104°F (40℃)
pH-Continuous Operation @25℃:	2.0-10.0
pH-CIP @40℃:	2.0-12.0
Max. Chlorine Exposure:	250,000ppm·h

特殊行业应用请联系我们

DESIGN PARAMETERS

Feed Reference:	3.0 inch vessel: 25 m^3/h (ID=12.7mm);15 m^3/h (ID=8.0mm) 4.3 inch vessel: 49 m^3/h
Recommended Flow Velocity:	2-3m/s

DIMENSIONS



Model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
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
TP-ME010-12336	3658	91	76	63.5	50.5	76.0
TS-UF100-8330	3048	91	76	63.5	50.5	76.0

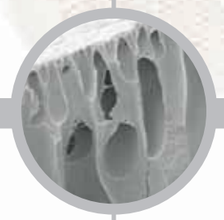
Customized Tubular Membranes

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

What is your request for membrane material?

- Polysulfone (PS)
- Polyether sulfone (PES)
- Polyacrylonitrile (PAN)
- Polyvinylidene fluoride(PVDF)
- Special membrane for acide/alkali

MWCO?



- 5,000–250,000 Dalton

What is your request for the anti-fouling capability of the membrane?

- Membrane Tube ID:
- 5mm
- 8mm
- 10mm
- 12.7mm

What is your project scale?

- Membrane module diameter:
- 2.5"、3"、4"、6"、8"、10"
- Membrane module length:
- 1m、3m、4m

What is your request for membrane shell material?

- FRP、PVC、
- PSU、SUS

Your tailord membrane products

Every drop,we count.

Customized Tubular Membranes

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

Polyether sulfone (PES)
Polysulfone (PS)
Polyvinylidene fluoride (PVDF)
Polyacrylonitrile (PAN)
Polyamide (PA)
Cellulose (CA)
Regenerated cellulose (RC)

Benefits

High thermal and chemical resistance
Precise MWCO
High flux capacity
Fouling resistant
Long service life
Acid/caustic resistant
High temperature resistant

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

RO1, RO3 test condition: 2,000ppm NaCl, 225psi(1.55MPa), 25℃;
RO2 test condition: 2,000ppm NaCl, 150psi(1.03MPa), 25℃;
RO4, RO5, RO6 test condition: 32,000ppm NaCl, 800psi(5.5MPa), 25℃.

NF membrane	Stable Rejection(%)	Stable Rejection(LMH)	Replacement reference	Replacement reference
NF1	≥99.0	43	NF90	Soft water; Acid and caustic recovery; Precious-metals recovery; Dye concentration, desalination; Whey desalination; Antibiotic concentration; Polysaccharide desalination; BOD/COD removal; etc.
NF2	≥99.0	55	NF245	
NF3	≥97.0	70	NF270	
NF4	≥98.0	55	Suez DL	
NF5	≥99.0	38	Suez DK	
NF6	≥95.0	15	SeIRO MPS-34	
NF7	85.0-95.0	60	XN45	
NF8	60.0-85.0	65	UA60	

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



UF membrane	Membrane material	MWCO (Dalton)	Flux rate (LMH) @25℃,0.35MPa	Replacement reference		Typical applications
UX001	Composite membrane	1,000	20*	Suez	GE	Color removal; Chondroitin sulfate concentration; Antibiotics, protein & polypeptide concentration; Enzyme concentration; WPC / WPI; Purification of antibiotics & vaccines; Recovery of whey protein, gelatin, enzyme; Electrocoat paint recovery; Cell harvesting or biomass; Beverage clarification; Pretreatment for RO/NF; etc.
UX002		2,000	45*		GH	
UX003		3,000	60*		GK	
UE001	PES	1,000	15*	MICRODYN NADIR	NP030	
UE003		3,500	45*		NP010	
UE004		4,000	75		UP005	
UE005		5,000	100	KOCH	HFK-328	
				Suez	PT	
UE008		8,000	130	Suez	GM	
UE010		10,000	150	KOCH	HFK-131	
				Suez	PW	
				UP010		
UE020		20,000	200	UP020		
				UH030		
UE050		50,000	250	UH050		
UE100		100,000	300			
US020	PS	20,000	280	PS20		
US050		50,000	350	US100		
UF100	PVDF	100,000	500	KOCH	HFM-300	
UF500		500,000	400		HFM-183	
UN010	PAN	10,000	150	PA50		
UN050		50,000	400	PA200		
UN100		100,000	450	PA400		
UR030	RC	30,000	250	ALFA LAVAL RC70PP		
UR100		100,000	350			
UC005	CA	5,000	150	STARIOUS	14529	
UC010		10,000	200		14539	
UC050		50,000	350		14549	

* Test condition: 142psi(1.0MPa), 25℃;
Note：pH range @25℃：(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℃,0.1MPa	Replacement reference		Typical applications
ME005	PES	0.05	>280	MICRODYN NADIR MP005		MBR industry; Biotech/Pharmaceutical; Microbial removal; Protein separation; Antibiotic clarification; Enzyme clarification; Pretreatment for RO/NF; etc.
ME010		0.10	>320	KOCH MFK-603		
MF010	PVDF	0.10	>500	TORAY	MBR	
MF022		0.22	>1000	KUBOTA		
MF045		0.45	>1500			

Ion 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 Two

Project Three

Project Four

Project Five

Project Six

Project Seven

Project Eight