



Membrane Manual

Professional Membrane Product Manufacturer
Professional Water Treatment Solution Provider

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Motian hopes every drop of water to be pure

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ABOUT US

Shandong Zhaojin Motian Co., Ltd., founded in 1988, is one of the earliest companies in China to scale up membrane production from laboratory to industrial levels. The company has registered capital of 126.2 million RMB and is a state-owned high-tech enterprise engaged in membrane technology R&D, membrane production, water treatment equipment manufacturing, environmental water treatment engineering design, and delivery. (Stock Abbreviation: Zhaojin Motian, Stock Code: 838813).

Zhaojin Motian has built a modern, large-scale membrane industrial base covering more than 100,000 square meters, with internationally advanced RO membrane production lines. The company now has the production capacity to manufacture 10 million square meters of hollow fiber UF and MF membranes and 6 million square meters of RO membranes annually. .

Zhaojin Motian is committed to continuous innovation. The company has mastered key core technologies, including drinking water purification, municipal wastewater treatment, MBR upgrades, reclaimed water reuse, brackish and seawater desalination, industrial water treatment.

The company has a national-level membrane research center. The membrane manufacturing technology, wastewater resource recovery, and concentration separation technologies have won national science and technology awards.

The company has been awarded numerous honors, including:

- China Famous Trademark
- National High-tech Enterprise
- Vice Chairman of the China Membrane Industry Association
- National Science and Technology Support Program Leader
- National Major Science and Technology Special Project Implementation Unit

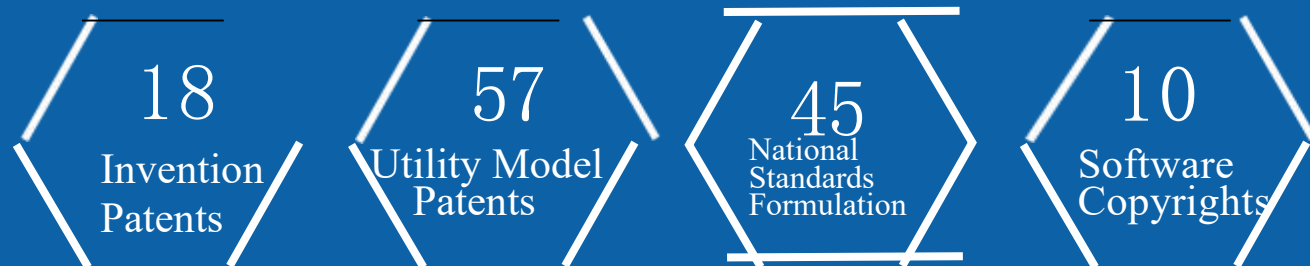
PART 01

Company profile



SCIENCE AND TECHNOLOGY R&D

Zhaojin Motian collaborates extensively with renowned universities and research institutions in China, bringing together leading membrane experts from both domestic and international backgrounds. The company has established a Membrane Technology Research Institute to focus on the development of high-end membrane products, core membrane-based water resource recovery technologies, and the promotion of applications in new fields.





HONOR AND QUALIFICATION

Honor

Chinese Well-Known Trademark

National High-tech Enterprise

50+ National Patents Granted

National Membrane Research Center

National Major Science and Technology Special
Project Implementation Unit

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Qualification

Engineering Design Qualification Certificate

Construction Industry Enterprise Qualification
Certificate

Environmental Engineering Enterprise
Qualification Certificate

Corporate Credit Rating Qualification Certificate

Safety Production License

Five-Star After-Sales Service Certification



PART 02

Product Introduction

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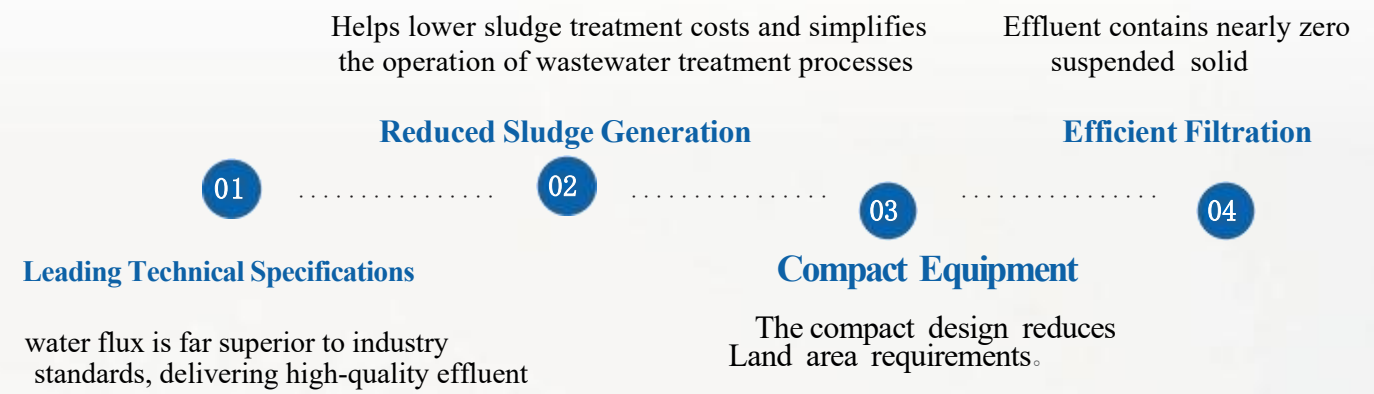
Membrane Bioreactor

Product Introduction

MBR is a new, highly efficient wastewater treatment and reuse process that integrates membrane separation technology with traditional biological wastewater treatment methods. The membrane separation equipment is placed in the reactor, where it filters the sludge-laden wastewater in the bioreactor , separating the water from the sludge. This greatly enhances the degradation efficiency of the biochemical process. The combination of membrane separation and biochemical treatment provides high-efficiency and high-quality effluent, making MBR one of the most advanced and promising wastewater treatment technologies in the world.



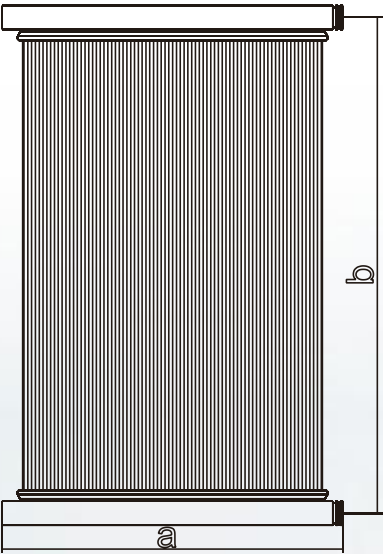
Key Features



Product Parameter

Item	Moduel	FPA-14-1523-PVDF*P	FPA-18-2000-PVDF*P	FPA-35-2000-PVDF*P
Fiber Material		PVDF	PVDF	PVDF
Effective Area		14m²	18m²	35m²
Fiber I.D/O.D		1.0/2.0mm	1.0/2.0mm	1.0/2.0mm
Nominal Pore Size		0.2µm	0.2µm	0.2µm
Filtration Method		Suction under negative pressure		
Initial flux of pure water		80~100L/（m²·h）	80~100L/（m²·h）	80~100L/（m²·h）
Turbidity of Produced water		≤1NTU	≤1NTU	≤1NTU
SS of Produced water		≤5mg/L	≤5mg/L	≤5mg/L
Operation Pressure		-0.02~-0.05MPa	-0.02~-0.05MPa	-0.02~-0.05MPa
Chemical cleaning PH range		1~11	1~11	1~11
Effective Chlorine Concentration in Chemical Cleaning		500~3000mg/L	500~3000mg/L	500~3000mg/L
Operation Temperature		5~40℃	5~40℃	5~40℃

Membrane Size

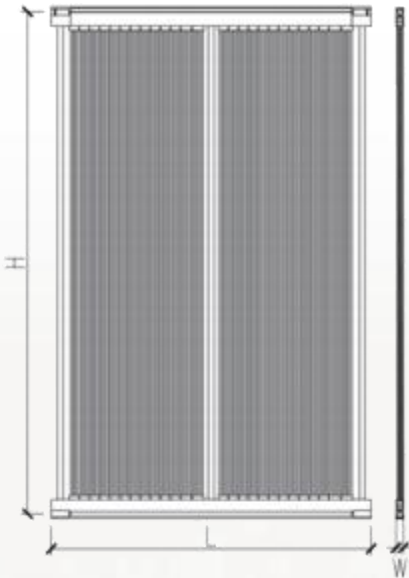


Moduel	FPA-14-1523-PVDF*P	FPA-18-2000-PVDF*P	FPA-35-2000-PVDF*P
a	568	568	785
b	1523	2000	2000

Product Parameter

Item	Moduel	FPA-25-1500- II	FPA-35-2000- II
Fiber Material		PVDF	PVDF
Active Area		25m²	35m²
Filter Aperture		0.1µm	0.1µm
Fiber I.D./ O.D.		1.0/2.0mm	1.0/2.0mm
Collection Pipe		ABS	ABS
Average Water Flux		10~32L/（m²·h）	10~32L/（m²·h）
Operation Temperature		10~35℃	10~35℃
Chemical cleaning PH range		2~12	2~12
Recommend PH Range		6~9	6~9
Operation Pressure		-0.02~-0.05 MPa	-0.02~-0.05 MPa
Filtration Method		Suction under negative pressure	Suction under negative pressure
Size		1250x32x1500	1250x32x2000

Membrane Size



Moduel	FPA-25-1500- II	FPA-35-2000- II
L	1250	1250
H	1500	2000
W	32	32

注：H 侧口中心距离。



Immersion Ultrafiltration Membrane

Production Introduction

The submerged ultrafiltration membrane module uses an open structure, providing more free space between membrane fibers. This allows for a stronger dirt-holding capacity and efficient water production under relatively low pressure differentials. The module provides high-quality effluent and is known for its high packing density and compact footprint. It is widely used in surface water, seawater, reclaimed water, and municipal/industrial wastewater treatment.



Key Feature

Narrow Pore Size Distribution
Ensures high filtration accuracy

Enhanced Anti-Fouling Capability
Excellent Hydrophilicity

Strong Impact Resistance

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Good Chemical Resistance

Space-Saving

Production Parameter

Item	USF-10 ⁵ -14(20)-PVDF		USF-10 ⁵ -25-PVDF*P	USF-10 ⁵ -40-PVDF*P	USF-10 ⁵ -35-PVDF C
	a×L		a×L	a×L	D×L
Size(mm)	568×126 0	568×152 3	568×2000	785×2000	Ø160×1800
Active Area	14m ²	20m ²	25m ²	40m ²	35m ²
Fiber Diameter	1.2mm		1.5mm	1.5mm	1.2mm
Filtration Pore size	0.03μm		0.03μm	0.03μm	0.03μm
Tensile Strength	3N		100 N	100N	3N
Filtration Method	Suction under negative pressure		Suction under negative pressure	Suction under negative pressure	Suction under negative pressure
Initial flux	≥100L/ (m ² ·h)		≥100L/ (m ² ·h)	≥100L/ (m ² ·h)	≥100L/ (m ² ·h)
Turbidity of Produced water	≤0.1NTU		≤0.1NTU	≤0.1NTU	≤0.1NTU
Operation Pressure	-0.002 ~ -0.05MPa		-0.002 ~ -0.07MPa	-0.002 ~ -0.07MPa	-0.002 ~ -0.05MPa
Chemical cleaning PH range	1 ~ 12		1 ~ 12	1 ~ 12	1 ~ 12
Effective Chlorine Concentration in Chemical Cleaning	500 ~ 2000mg/L		500 ~ 2000mg/L	500 ~ 2000mg/L	500 ~ 2000mg/L
Operation Temperature	5~40°C		5~40°C	5~40°C	5~40°C

Operation Parameter

Operation Condition	Turbidity	≤20NTU
	Temperature	5-40°C
	Oil	≤2 mg/L
	Maximum Particle Diameter	≤0.5 mm
	Fe	≤5 mg/L
	Mn (Manganese)	≤2 mg/L



Internal Pressure UF Membrane

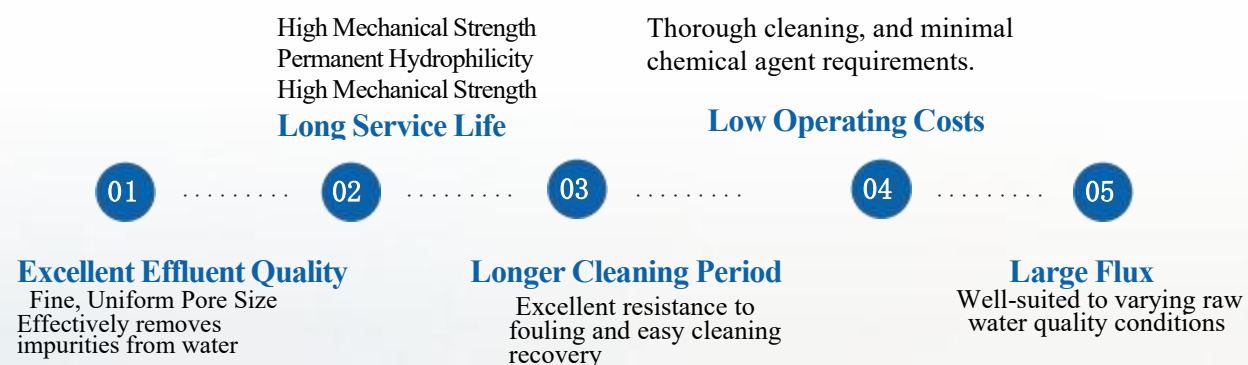
Production Introduction

Internal pressure ultrafiltration membranes are made from PS and PES hollow fiber membranes using proprietary hydrophilic modification technology. These membranes feature high flux, excellent hydrophilicity, and resistance to chemical cleaning agents.

The internal pressure membrane modules deliver outstanding performance and are capable of effectively removing suspended solids, colloids, and microorganisms from water. They are widely used in groundwater and surface water purification, as well as the pretreatment of micro-polluted water



Key Feature



Motian hopes every drop of water to be pure

Production Parameter

Item	Moduel	UF ₁₍₂₎ IB90	UF ₁₍₂₎ IB160	UF ₁₍₂₎ IA200	UF ₁₍₂₎ IA225	UF ₁₍₂₎ IA250	UF ₁₍₂₎ IA315L
Parameter	Fiber Material	PS/PES					
	Active Area	5m²	20m²	40m²	45m²	50m²	80m²
	MWCO(Dal)	67000(80000)Dal					
	Fiber I.D./ O.D.	1.0/1.5mm					
		Internal Pressure Hollow Fiber Membrane					
Size	Size(mm)	90X1102	160X1292	200X1861	225X1708	250X1711	315X1821
	Connection Hole Dimension	DN20	DN32	DN50	DN40	DN40	DN50
Material	Membrane Shell	ABS					
	Casting Material	Epoxy Resin/Polyurethane					
Weight	Weight	7Kg	17Kg	36Kg	42Kg	47Kg	65Kg

Operation Parameter

Operat on Condit on	Max Turbidity	10NTU
	PH	2-13
	Temperature	5-40°C
	Short-Term Free Chlorine Tolerance Range	500 mg/L
	Filtration Method	Dead End/ Cross-Flow Filtration
	Produced Water Flux	45-70L/ (m ² ·h) ,25°C
	Maximum TMP	0.2 MPa
	Backwash Water Flux	100-150 L/ (m ² ·h)
	Maximum Inlet Pressure	0.3 MPa
	Filtration Period	30-60min
	Back Washing Time	3min
	Chemical Cleaning Period	30-60 Day
	Chemical Cleaning Time	1-2h
	Chemical Cleaning Agent	Citric Acid、NaOH、Naclo (30-100mg/L)
Produced Quality	Produced Water Turbidty	≤0.1NTU
	Produced Water SDI	≤3



External Pressure Ultrafiltration Membrane

Production Introduction

External pressure ultrafiltration membranes are made from PVDF hollow fiber membranes, also using proprietary hydrophilic modification technology. These membranes feature high flux, excellent hydrophilicity, resistance to chemical cleaning agents, and superior anti-fouling capabilities.

The external pressure membrane modules offer outstanding performance and are used extensively in applications such as groundwater and surface water purification, wastewater treatment, reclaimed water reuse, and seawater desalination pre-treatment.



Key Feature

Flexible and durable membrane fibers, resistant to air-water shocks, and not easily damaged.

Super hydrophilic modification for fast wetting, thorough cleaning, and minimal use of chemicals.

Long Lifespan

Low Operating Costs

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Simple Pretreatment

Simplifies pre-treatment and expands water intake conditions.

Long Cleaning Intervals

Excellent anti-fouling properties, resistant to degradation, and easy to clean.

High and Stable Water Production

Large flux and strong adaptability to raw water quality changes.

Production Parameter

Item	Item	UF ₃ OB160	UF ₃ OB160L	UF ₃ OA200	UF ₃ OA200FR	UF ₃ OA225	UF ₃ OA225L	UF ₃ OA225S	UF ₃ OA225H
Parameter	Fiber Material	PVDF							
	Active Area	30m²	40m²	60m²	66m²	55m²	75m²	55m²	75m²
	Pore Size	0.03μm							
	Fiber I.D/O.D	0.7/1.2mm							
		Internal Pressure Hollow Fiber Membrane							
Size	Size(mm)	160x129 2	160x1734	200x1861	200x1940	225x1860	225x2360	225x1868	225x2368
	Connection Hole Dimension	DN32	DN40	DN50	DN50	DN50	DN50	DN50	DN50
Material	Membrane Shell	ABS							
	Casting Material	Epoxy Resin/Polyurethane							
Weight	Weight	21Kg	27Kg	50Kg	50Kg	45Kg	52Kg	45Kg	52Kg

Operation Parameter

Operation Condition	Max Turbidity	20NTU
	PH	2-10
	Temperature	5-40° C
	Short-Term Free Chlorine Tolerance Range	2000mg/L
	Filtration Method	Dead End/ Cross-Flow Filtration
	Produced Water Flux	45-70L/ (m ² · h) , 25° C
	Maximum TMP	0.15MPa
	Backwash Water Flux	100-150L/ (m ² · h)
	Maximum Inlet Pressure	0.2MPa
	Filtration Period	30-60min
	Back Washing Time	3min
	Chemical Cleaning Period	24-48 per hour
	Chemical Cleaning Agent	40mg/L HCl, 200~500mg/L NaClO
Produced Quality	Produced Water Turbidty	≤0.2NTU
	Produced Water SDI	≤3.5



NFR Drinking Water Nanofiltration Membrane

Production Introduction

The NFR Nanofiltration membrane element has a large surface area and high water production capacity. It is suitable for applications such as drinking water quality enhancement, high removal of pesticides and herbicides, as well as moderate salt rejection in water treatment processes.



Testing Condition

★ Pressure: 100 psi (0.69 MPa) Temperature: 25°C Feed Concentration: 500 ppm Recovery Rate: 15% PH: 7-8

Product Parameter

	Module	Active Area ft²(m²)	Permeate Flow GPD(M³/d)	Stable Rejection (%)	
				NaCl	MgSO₄
NFR	NFR-4040-100	100(9.3)	2200(8.3)	75-95	>95
	NFR-8040-400	400(37.2)	10500(39.7)	75-95	>95
	NFR-8040-440	440(40.9)	12000(45.4)	75-95	>95

- Operation Condition

NO	Item	Data
1	Max. Operation Pressure	600Psi (4.14MPa)
2	Max. Inlet Flow	16gpm (3.6m³/h) (NFR-4040)
		75gpm (17.0m³/h) (NFR-8040)
3	Max. Water Temperature	45°C
4	Inlet Water Max. SDI	5
5	Inlet Water Free Chloride	<0.1ppm
6	Inlet Water PH	3~10
7	Chemical Cleaning PH range	2~12
8	Max. Pressure Drop For Each Element	15psi(0.10MPa)



NFF Salt Separation Nanofiltration Membrane

– Production Introduction

The NFF Nanofiltration membrane element is primarily used for material separation and concentration. It can reject organic molecules larger than 200 Daltons while allowing monovalent salts to pass through. This makes it ideal for salinity separation, organic and salt concentration, and valuable substance recovery applications.



Testing Condition

★ Pressure: 100 psi (0.69 MPa) Temperature: 25°C Feed Concentration: 500 ppm Recovery Rate: 15% Ph: 7-8

Product Parameter

	Module	Active Area ft²(m²)	Permeate FlowGPD(M³/d)	Stable Rejection (%)	
				NaCl	MgSO₄
NFF	NFF-4040-100	100(9.3)	2400(9.1)	20-50	98
	NFF-8040-400	400(37.2)	9500(35.9)	20-50	98
	NFF-8040-440	440(40.9)	10500(39.7)	20-50	98

Operation Condition

NO	Item	Data
1	Max. Operation Pressure	600Psi（4.14MPa）
2	Max. Inlet Flow	16gpm（3.6m³/h）（NFF-4040）
		75gpm（17.0m³/h）（NFF-8040）
3	Max. Water Temperature	45℃
4	Inlet Water Max. SDI	5
5	Inlet Water Free Chloride	<0.1ppm
6	Inlet Water PH	3~10
7	Chemical Cleaning PH range	2~12
8	Max. Pressure Drop For Each Element	15psi(0.10MPa)



XLP Ultra-Low Pressure Reverse Osmosis Membrane

Product Introduction

The XLP Series ultra-low pressure RO membrane elements are suitable for desalting and deep treatment of brackish water (salinity below 1000 ppm), surface water, and municipal water. These membranes are designed to operate at extremely low pressure, providing excellent system performance and operational cost effectiveness.



Key Feature

★ **High Water Production at Low Pressure:** Provides higher water yield while significantly reducing system operating costs, ensuring safe drinking water.

Product parameter

		Active Area ft² (m²)	GPD(M³/d)	Stable Rejection (%)
XLP	XLP-4040-100	100(9.3)	2200(8.3)	99
	XLP-8040-400	400(37.2)	10500(39.7)	99
	XLP-8040-440	440(40.9)	11000(41.6)	99

Testing Condition

NO	Item	Data
1	Test Solution	500NaCL(ppm)
2	Operation Pressure	100psi (0.69MPa)
3	Test Temperature	25°C
4	PH	7~8
5	Recovery Rate per Element	15%

Operation Condition

NO	Item	Data
1	Max. Operation Pressure	600Psi (4.14MPa)
2	Max. Inlet Flow	16gpm (3.6m³/h) (NFR-4040)
		75gpm (17.0m³/h) (NFR-8040)
3	Max. Water Temperature	45°C
4	Inlet Water Max. SDI	5
5	Inlet Water Free Chloride	<0.1ppm
6	Inlet Water PH	3~10
7	Chemical Cleaning PH range	2~12
8	Max. Pressure Drop For Each Element	15psi(0.10MPa)



LP Low-Pressure Reserve Osmosis Membrane

Product Introduction

The LP low-pressure reverse osmosis (RO) membrane elements are aromatic polyamide composite Membranes designed for desalting brackish water with medium to low salinity. These membranes are known for their high salt rejection and high flux, achieving excellent water production and salt rejection rates even under lower operational pressures. This results in reduced investment costs for pumps, pipelines, and containers, as well as lower operating costs for the RO system.



Key Feature

★ **Strong Cleaning Resistance:** Can withstand multiple acid and alkaline cleaning cycles, extending the service life.

Product parameter

	Module	Active Area ft²(m²)	GPD (M³/d)	Salt Rejection (%)
LP	LP-4040-100	100(9.3)	2400(9.1)	99.5
	LP-8040-400	400(37.2)	10500(39.7)	99.5
	LP-8040-440	440(40.9)	12000(45.4)	99.5

Testing Condition

NO	Item	Data
1	Test Solution	1500NaCL(ppm)
2	Operation Pressure	150psi (1.03MPa)
3	Test Temperature	25°C
4	PH	7~8
5	Recovery Rate per Element	15%

Operation Condition

NO	Item	Data
1	Max. Operation Pressure	600Psi (4.14MPa)
2	Max. Inlet Flow	16gpm (3.6m³/h) (NFR-4040)
		75gpm (17.0m³/h) (NFR-8040)
3	Max. Water Temperature	45°C
4	Inlet Water Max. SDI	5
5	Inlet Water Free Chloride	<0.1ppm
6	Inlet Water PH	3~10
7	Chemical Cleaning PH range	2~12
8	Max. Pressure Drop For Each Element	15psi(0.10MPa)

LP Energy Saving Anti-Pollution Reserve Osmosis Membrane

Product Introduction

The LP energy-saving and anti-fouling RO membrane elements use the latest proprietary anti-fouling membrane technology, chemically and physically modified with a special formula. They show significant resistance to fouling, blockage, and can be effectively cleaned. These membranes are ideal for applications where raw water is rich in microorganisms and organic contaminants.



Product parameter

	Module	Active Area ft²(m²)	GPD (M³/d)	Salt Rejection (%)
LP	LP-8040-400FR	400 (37. 2)	10500 (39. 7)	99. 5

Testing Condition

NO	Item	Data
1	Test Solution	1500NaCL(ppm)
2	Operation Pressure	150psi (1.03MPa)
3	Test Temperature	25°C
4	PH	7~8
5	Recovery Rate per Element	15%

Operation Condition

NO	Item	Data
1	Max. Operation Pressure	600psi (4.14MPa)
2	Max. Water Temperature	45°C
3	Inlet Water Max. SDI	5
4	Inlet Water Free Chloride	<0.1mg/L
5	Max. Pressure Drop For Each Element	15Psi (0.1MPa)
6	Chemical Cleaning PH range	2~12
7	Inlet Water PH	3~10

BW Brackish Reserve Osmosis Membrane

Product Introduction

The BW RO membrane elements are specifically designed for desalting brackish water and offer reliable, stable, and excellent performance. They are ideal for systems treating water with salinity levels below 5000 ppm, such as surface water, groundwater, and municipal water sources. These membranes are used in applications like reclaimed water reuse, desalination in power plants, and pharmaceutical-grade water production.



Product parameter

		Active Area ft² (m²)	GPD (M³/d)	Salt Rejection (%)
BW	BW-4040-100	100 (9. 3)	2400 (9. 1)	99. 5
	BW-8040-400	400 (37. 2)	10500 (39. 7)	99. 5
	BW-8040-440	440 (40. 9)	12000 (45. 4)	99. 5

Testing Condition

NO	Item	Data
1	Test Solution	2000NaCL(ppm)
2	Operation Pressure	225psi (1.55MPa)
3	Test Temperature	25°C
4	PH	7~8
5	Recovery Rate per Element	15%

Operation Condition

NO	Item	Data
1	Max. Operation Pressure	600psi (4.14MPa)
2	Max. Water Temperature	45°C
3	Inlet Water Max. SDI	5
4	Inlet Water Free Chloride	<0.1mg/L
5	Max. Pressure Drop For Each Element	15Psi (0.1MPa)
6	Chemical Cleaning PH range	2~12
7	Inlet Water PH	3~10

FR Anti-Contamination Reserve Osmosis Membrane

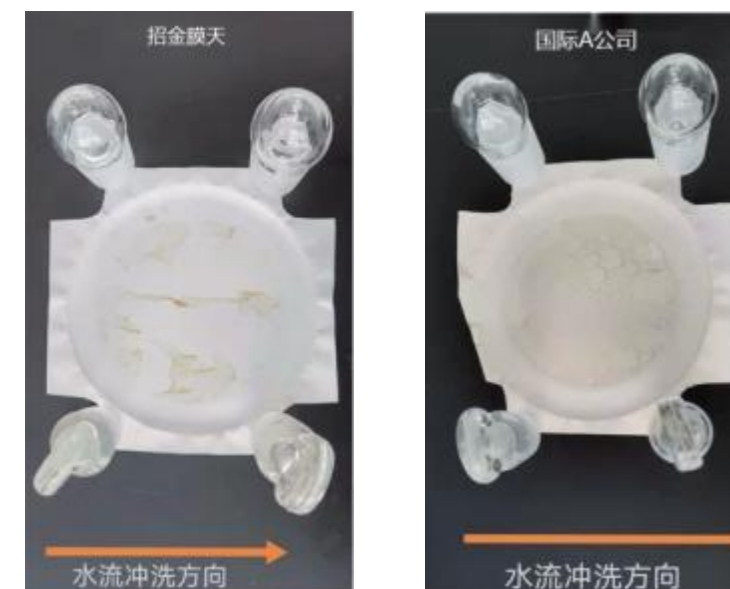
Product Introduction

The FR anti-fouling RO membrane elements are developed by MoTian and are designed for raw water that contains organic contaminants, microorganisms, and other pollutants. These membranes offer low operating pressures, high water production, and excellent desalination performance. They also have outstanding anti-fouling capabilities, which makes them ideal for challenging water sources.



Key Feature

- ★ **Special Surface Treatment:** Uses proprietary technology to add special substances to the membrane surface, improving charge and smoothness, and enhancing hydrophilicity through chemical grafting.
- ★ **Reduced Fouling:** Effective at reducing fouling caused by colloids and organic materials, improving cleaning recovery.
- ★ **Efficient Cleaning:** Easy to clean and recover, with excellent resistance to fouling and high flux rates, even under high contamination conditions.
- ★ **High Tolerance for Organic Contaminants:** Ideal for desalting water with high organic content, microbial contamination, and salinity levels up to 10,000 ppm.



Product parameter

	Module	Active Area ft ² (m ²)	GPD(M ³ /d)	Saline Rejection (%)
FR	BW-4040-90FR	90 (8.3)	2200 (8.3)	99.6
	BW-8040-400FR	400 (37.2)	10500 (39.7)	99.6

Testing Condition

NO	Item	Data
1	Test Solution	2000NaCL(ppm)
2	Operation Pressure	225psi (1.55MPa)
3	Test Temperature	25°C
4	PH	7~8
5	Recovery Rate per Element	15%



BW Brackish Water Reverse Osmosis Membrane

Product Introduction

The BW enhanced anti-fouling RO membrane elements are specifically designed for water sources with high organic pollution. These membranes offer improved resistance to biological fouling and enhanced tolerance to various pH levels. They provide better chemical cleaning recovery and extended service life.



Product parameter

	Module	Active Area ft ² (m ²)	GPD(M ³ /d)	Salt Rejection (%)
BW	BW-8040-400FR-U	400(37.2)	10500(39.7)	99.5

Testing Condition

NO	Item	Data
1	Test Solution	2000NaCL(ppm)
2	Operation Pressure	225Psi (1.55MPa)
3	Test Temperature	25°C
4	PH	7~8
5	Recovery Rate per Element	15%

Operation Condition

NO	Item	Data
1	Max. Operation Pressure	600psi (4.14MPa)
2	Max. Water Temperature	45°C
3	Inlet Water Max. SDI	5
4	Inlet Water Free Chloride	<0.1mg/L
5	Max. Pressure Drop For Each Element	15Psi (0.1MPa)
6	Chemical Cleaning PH range	2~12
7	Inlet Water PH	3~10



HS Sub-Seawater Desalination Membrane

Product Introduction

The HS sub-seawater desalination membrane is designed for water sources with TDS levels between 10,000 and 20,000 ppm. It features advanced interface polymerization and non-chlorine treatment processes, improving the membrane's ability to retain organic materials and enhance durability. These membranes are used in various wastewater zero-discharge applications.



Product parameter

	Module	Active Area ft ² (m ²)	GPD(M ³ /d)	Salt Rejection (%)
HS	HS-8040-400FR	400 (37.2)	8000 (30.2)	99

Testing Condition

NO	Item	Data
1	Test Solution	15000NaCL(ppm)
2	Operation Pressure	363Psi (2.5MPa)
3	Test Temperature	25°C
4	PH	7~8
5	Recovery Rate per Element	10%

Operation Condition

NO	Item	Data
1	Max. Operation Pressure	600Psi (4.14Mpa)
2	Max. Inlet Flow	75gpm (17m3/h)
3	Max. Water Temperature	45°C
4	Inlet Water Max. SDI	5
5	Inlet Water Free Chloride	<0.1mg/L
6	Max. Pressure Drop For Each Element	15Psi (0.1Mpa)
7	Chemical Cleaning PH range	1~13
8	Inlet Water PH	2~11

SW Seawater Desalination Membrane

Product parameter

The SW seawater desalination membrane offers extremely high salt rejection and stable system performance. It is suitable for seawater desalination, high-salinity water concentration reduction, and high-concentration material concentration in industrial water treatment applications.

Product parameter

	Module	Active Areaft²(m²)	GPD(M³/d)	Salt Rejection (%)
SW	SW-2540-25FR	25 (2.3)	500 (1.89)	99.7
	SW-4040-100FR	100 (9.3)	1800 (6.8)	99.7
	SW-8040-400FR	400 (37.2)	7000 (26.5)	99.7
	SW-8040-440FR	440 (40.9)	7700 (29.18)	99.7

Testing Condition

NO	Item	Data
1	Test Solution	32000NaCL (ppm)
2	Operation Pressure	800Psi (5.5MPa)
3	Test Temperature	25°C
4	PH	7~8
5	Recovery Rate per Element	8%

Operation Condition

NO	Item	Data
1	Max. Operation Pressure	1200Psi (8.28Mpa)
2	Max. Inlet Flow	75gpm (17m³/h)
3	Max. Water Temperature	45°C
4	Inlet Water Max. SDI	5
5	Inlet Water Free Chloride	<0.1mg/L
6	Max. Pressure Drop For Each Element	15Psi (0.1Mpa)
7	Chemical Cleaning PH range	1~13
8	Inlet Water PH	2~11



Municipal Tap Water Upgrading Case

PART 03

Typical case



60000T/D Reservoir Upgrading in Qingdao



10000T/D Reservoir Upgrading in Dongbei



20000T/D Water Plant Upgrading in Shandong



20000T/D Water Plant Upgrading in Haiyang

Municipal Sewage Treatment Case



40000T/D Sewage Plant Renovation in Hebei



40000T/D Wastewater Plant Renovation in Lingang



50000T/D Sewage Plant Renovation in Sanhe



25000T/D Shengjie Sewage Plant Renovation



25000T/D Sewage Plant Renovation in Cangzhou



40000T/D Municipal Sewage Plant in Nanjing



30000T/D Sewage Plant Renovation in Inner Mongolia

Industrial Water Treatment Case

Reclaimed Water Reuse Project Case



14400T/D Heating company in Shandong - Boiler make-up water treatment project



28800T/D Thermal power company in Shandong - make-up water treatment and zero-discharge project



17280T/D Steel Company project in Tianjin



50000T/D Water Treatment Company in Cangzhou



14880T/D Water supply and drainage company in Cangzhou - Boiler make-up water treatment



500000T/D Power company in Shandong - Boiler make-up water treatment project



50000T/D Petrochemical Company in China



5000T/D A sewage treatment plant in Inner Mongolia



Seawater Desalination Typical Case



24480T/D Seawater Desalination Project in Shouguang



9600T/D Chemical Company in Shandong



10880T/D Power company in Shandong



4900T/D Seawater Desalination Project in Shandong



Brackish Water Desalination Typical Case



10000T/D New Materials Company. in Xinjiang



14400T/D Chemical Company in Shandong



50000T/D Water Treatment Company in Cangzhou



14400T/D Energy Equipment Company in Sichuan



服务与支持

SERVICE & SUPPORT

Our Services :

1. *Product Information:* Sales and technical personnel will provide accurate and detailed information about product specifications, performance, pricing, and quality, helping you select the most suitable product.

2. *Technical Support:* Our technical team will assist in system design and verification, offering free technical documentation and system optimization based on your needs.

3. *Contract Management:* We strictly adhere to agreements and contracts with clients and will promptly adjust according to reasonable client feedback.

4. *On-Site Guidance:* Experienced technicians will be sent on-site during system commissioning to provide operational guidance and staff training.

5. *Warranty and After-Sales Service:* During the warranty period, we offer a three-part warranty (repair, replacement, refund) on spare parts.

6. *Customer Follow-Up:* Regular customer visits and product tracking services.

7. *Ongoing Support:* After the warranty period, clients will automatically be upgraded to "loyal customers," continuing to receive free product technical consultations, repairs, and replacements, along with discounts on spare parts.

We offer 24/7 support and guarantee a response within six hours for urgent requests. Our team is committed to continuously improving our service based on customer feedback.

