久吾高科
JIUWU HI-TECH

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江苏久吾高科技股份有限公司
JIANGSU JIUWU HI-TECH CO.,LTD

ORGANIC MEMBRANE

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Spiral Membrane | Hollow Fiber Membrane | Tubular Membrane

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COMPANY INTRODUCTION

- Jiangsu Jiuwu Hi-Tech Co., Ltd. was established in 1997 and is a high-tech enterprise specializing in the research and development of new materials and comprehensive solutions. It was listed on the A-share growth enterprise board of the Shenzhen stock exchange in March 2017. The company is one of the first batch of recognized national high-tech enterprises, one of the first batch of specialized and new "little giant" enterprises in the country, a national single champion in manufacturing industry, and a leading enterprise in the field of ceramic membrane in the Chinese membrane industry. It has won four National Science and technology progress awards, one the state technological innovation award and the Chinese patent excellence award.

- Over the past 20 years since its establishment, the company has established a complete business industry chain from new materials research and development, technology development, process design, complete equipment manufacturing to providing comprehensive, project operation, and other aspects. The company is constantly seeking for breakthroughs in the manufacturing of new materials such as ceramic membrane, organic membrane, adsorbent and industrial by gypsum. Based on this, we provide comprehensive solutions for three major fields: new energy services, industrial fluid separation, water treatment and resource utilization. In particular, it has achieved breakthrough innovative applications in many subdivisions such as lithium extraction from salt lakes, battery cathode materials, comprehensive treatment of waste salt, bio-ethanol fuel, chlor-alkali chemicals, and biological products. At present, the company's products are exported to more than 40 countries and regions worldwide, and have been widely recognized by domestic and foreign customers.

- As a banner of China's national industry, the company has always been market-oriented and leading innovative development. Adhering to the two-wheel drive of new materials and comprehensive solutions, create value for customers, and safeguard the future for humanity.

1997
Established

2000+
Global Clients

7
Draft Membrane Industry Standards

14+
First Set Project

5
National Science and Technology Awards

200+
Authorized Patent



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江苏久吾高科技股份有限公司
JIANGSU JIUWU HI-TECH CO.,LTD

SCOPE OF BUSINESS

01 New Material

- Spirla mambrane — UF/NF/RO
- Organic tubular membrane — Non woven tube membrane, sintered tube membrane (MF)
- Hollow fiber membrane — Column membrane, curtain membrane (UF)

Organic membrane

Ceramic membrane
- Tubular ceramic membrane
- High packing density columnar ceramic membrane
- Flat ceramic membrane

Adsorbent
- Titanium based lithium adsorbent
- Aluminum based lithium adsorption

02 Overall Solution



New Energy Services

- Salt lake lithium extraction
- Photovoltaic materials
- Ethanol fuel
- New energy and environmental protection



Industrial Fluid Separation

- Ultrafine powder, catalyst
- Chlor alkali chemical industry
- Biological fermentation products
- Food and beverage, natural product



Water Treatment and Resource Utilization

- Industrial water treatment and comprehensive utilization of resources
- Industrial park comprehensive services
- Comprehensive treatment of water environment
- Waste disposal and resource utilization

HONORARY QUALIFICATIONS



The company is the deputy director unit of China membrane industry association, and has established long-term strategic cooperation relations with Nanjing Tech University and research institutes of major universities. Through years of efforts and practice, Jiuwu High-tech is dedicated to the scientific research and development and achievements transformation of separation technology and application, and has established a leading research and development center for separation materials, equipment and application in China.



- Specialized, refined, and innovative "Little Giant" enterprise
- National high-tech enterprise
- National patent excellence award
- National intellectual property demonstration enterprise
- Outstanding enterprise award in China membrane industry
- Jiangsu province patent gold award
- Nomination award for Nanjing mayor's auality award
- Jiangsu separation membrane environmental engineering technology research center
- National and local joint engineering research center for inorganic membrane
- The production line project of ceramic membrane complete device was listed in the "National Torch Plan”
- The company has won four national science and technology progress awards and one the state technological innovation award
- The company's ceramic filter membrane products and complete equipment have been rated as the national manufacturing single champion product
- The company was rated as the leading enterprise in the field of ceramic membrane in China's membrane industry



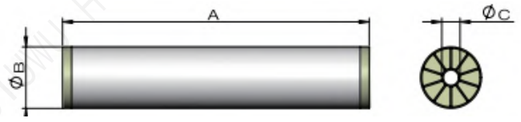


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SPIRAL ORGANIC MEMBRANE

Through the combination of highly stable membranes and advanced automated production processes, Jiuwu Hi-Tech has developed a full range of organic spiral membrane products covering UF, NF, RO, and other processes. These products have been widely used in the separation of pharmaceutical, food, chemical, and other processes, as well as the standard discharge, upgrading, reuse of reclaimed water, zero discharge, and resource utilization of wastewater in production processes.

01 Spiral Membrane Element



A=1016.0mm(40")
B=201.9mm(7.95")
C=28.6mm(1.125")

02 Typical Ultrafiltration Membrane Module Specifications

Type	Material	Active area(ft²/m²)	Channel(mil)	Cut off molecular(Da)
JWUF-8040F31/C31	PES、PS、PVDF	365/33.9	31	1000~50000
JWUF-8040F46/C46		284/26.4	46	
JWUF-8040F90/C90		167/15.5	90	

03 Typical Nanofiltration Membrane Module Specifications

Type	Specification	Magnesium sulfate desalination rate(%)	Water yield GPD (m³/d)	Active area(ft²/m²)	Runer(mil)
High rejection nanofiltration membrane	JWNF1-8040F31	98.5	9000(34.1)	365/33.9	31
	JWNF1-8040C31				
High throughput nanofiltration membrane	JWNF2-8040F31	96.0	10500(39.7)	365/33.9	31
	JWNF2-8040C31				

04 Typical Reverse Osmosis Membrane Module Specifications

Type	Specification	Magnesium sulfate desalination rate(%)	Water yield GPD (m³/d)	Active area(ft²/m²)	Runer(mil)
BW membrane	JWBW-8040F31	99.5	10500 (39.7)	400/37.1	31
BW anti pollution membrane	JWBWFR-8040F31	99.5	10500 (39.7)	400/37.1	31
Seawater desalination membrane	JWSW-8040F31	99.7	6500(24.6)	380/35.3	31

05 Technology Advantages

- Excellent membrane performance ensures good separation performance
- Can provide products with high resistance, such as high pressure resistance, high temperature resistance, acid and alkali resistance, and solvent resistance spiral membrane
- Strong pollution resistance, high flux and stability
- Full range of spiral membrane products and customizable services
- High level of production automation ensures stable product quality

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06 Application Reference



A Chlor Alkali Project in Huludao

Element Spec: JWBW-8040F31

Processing Capacity: 800m³/d



Lithium Extraction Project From Old Brine in a Salt Lake in Qinghai

Element Spec : JWBW-8040F31/JWNF1-8040F31

Processing Capacity: 50000m³/d



Reclaimed Water Reuse Project in a Chemical Industry Park in Jiangsu Province

Element Spec: JWBW- 8040F31

Processing Capacity: 100000m³/d



A Waste Salt Resource Utilization Project in Jiangsu

Element Spec : JWNF3 - 8040F31

Processing Capacity: 6000m³/d



A Biopharmaceutical Decolorization and Concentration Project in Shanghai

Element Spec: JWUF- 8040C46 / JWNF1 - 8040C31

Processing Capacity: 40000m³/d



A Biological Fermentation Liquid Treatment Project in Hebei

Element Spec : JWNF3 - 8040F31

Processing Capacity: 2000m³/d

HOLLOW FIBER MEMBRANE

Hollow Fiber Membrane is a high-quality column and curtain membrane developed using high-grade PVDF resin as raw material, based on advanced spinning technology and hydrophilic modification technology, with a nominal pore size of up to 30nm. The product has been widely used in processes such as river management, reclaimed water reuse, industrial wastewater pretreatment, as well as in fields such as municipal sewage treatment, drinking water, and seawater desalination.

01 Hollow Fiber Membrane

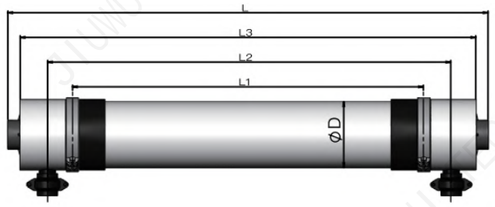
——Specification Parameters of Curtain Membrane Module

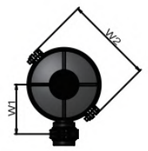
Type	Active area(m^2)	Number of membrane	Material	L*W*H(mm)	Wateroutlet, inlet size	Processing capacity (m^3/d)
M960	960	48	Top: 304 stainless steel	2600×1400×2410	DN65	190~770
M720	720	36		2000×1400×2410		140~580
M480	480	24	ABS resin	1400×1400×2410	DN40	95~380
M240	240	12	Frame: 304 stainless steel	1300×1400×2410		45~190
M180	180	12		1300×700×1910		35~145

02 Hollow Fiber Membrane

——Specification Parameters of Column Membrane Module

Type	Active area (m^2)	L(mm)	L1(mm)	L2(mm)	L3(mm)	D(mm)	W1(mm)	W2(mm)
JW™- PVDF- 2660	33	1860	1500	1610	1710	165	125	250
JW™- PVDF- 2860	51	1860	1500	1630	1820	225	180	342
JW™- PVDF- 2880	77	2360	2000	2130	2320	225	180	342





Column Membrane Module Specification

03 Technology Advantages

- membrane has small pore size and high porosity
- Strong chemical stability
- Excellent anti pollution performance
- Excellent mechanical properties
- Advanced packaging technology
- Customizable services



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04 Application Reference



Wastewater Treatment of a Textile Enterprise in Shaoxing, Zhejiang

Element Spec: JW- MBR015

Processing Capacity: 1800m^3/d



Lianyungang River Regulation Project

Element Spec : JW- MBR020

Processing Capacity: 5000m^3/d



Nanjing Getang River Water Treatment Project

Element Spec: JW- MBR035

Processing Capacity: 12000m^3/d



Project of a Iron(III) Phosphate Enterprise in Henan

Element Spec : JW- PVDF- 2880

Processing Capacity: 3000m^3/d



Lithium Extraction Project from a Salt Lake in Qinghai

Element Spec: JW- PVDF- 2880

Processing Capacity: 10000m^3/d



Zero Wastewater Discharge Project of a Paper Mill in Jiangsu

Element Spec : JW- PVDF- 2880

Processing Capacity: 40000m^3/d

ORGANIC TUBULAR MEMBRANE

Organic tubular membrane is divided into two types: sintered tubular membrane and non-woven tubular membrane, with materials such as PVDF and PES, and separation accuracy ranging from 10kD to 0.2 μm. Inner diameter of membrane tube: 6mm, 8mm, and 10mm for spun fabric tube membrane, and 8mm, 12.7mm, and 25.4mm for sintered tube membrane; The component sizes are 4 cm, 6 cm, and 8 cm, and can also be customized with different materials and specifications of standard membrane module. The product has been applied to various processes such as softening and hard removal, powder washing, acid and alkali solution recycling and plant extraction, as well as fields such as landfill leachate and oil reinjection.





01 Advantages of Non-woven Tubular Membrane

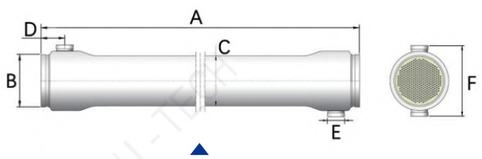
- Double layer non-woven fabric support, resistant to higher operating pressure
- Uniform - ultra-thin separation layer with uniform pore size and high separation accuracy
- Open flow channel, no dead corners during operation, strong pollution resistance
- The flow channel is wide, and the concentration of suspended solids in the influent can reach 15-30g/L

02 Advantages of Sintered Tubular Membrane

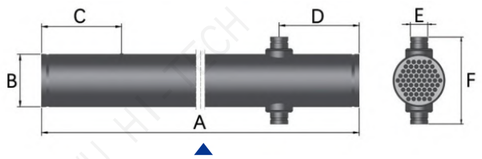
- Special membrane layer inlay structure endows excellent wear resistance
- Strong pollution resistance, backwashable, and more stable operating flux
- Open flow channel, suitable for high viscosity and high solid content systems
- Excellent chemical resistance, more widely used, easy to clean

03 Typical Tubular Membrane Module Specification Parameters

	Type	Active area (m^2)	Inner diameter (mm)	Quantity	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
Non-woven tubular membrane	JW-TU-F-8630-F	15.2	8	201	3000	168.3	160	90	60	250
	JW-TU-F-8830-F	27.2	8	365	3000	219.1	210	90	73	330
Sintered tubular membrane	JW-TU-F-12618-P	2.59	12.7	37	1828.8	168.3	337	337	73	282
	JW-TU-F-12818-P	4.25	12.7	61	1828.8	219.15	337	337	73	363



Non-Woven Tubular Membrane



Sintered Tubular Membrane

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04 Application Reference



A Landfill Leachate Project in Weihai

Element Spec: JW- TU- F- 8830-F

Processing Capacity: 650m^3/d



A Landfill Leachate Project in Chongqing

Element Spec : JW- TU- F- 8830-F

Processing Capacity: 650m^3/d



Zero Discharge System for Heavy Metal Wastewater in Golmud, Tibet

Element Spec: JW-TU-F-12818-P

Processing Capacity: 400m^3/d



A Powder Recycling Project in Qinghai

Element Spec : JW-TU-F-12818-P

Processing Capacity: 600m^3/d



A Pharmaceutical Industry Material Removal Suspended Solids Project in Hunan

Element Spec: JW- TU- F-12818-P

Processing Capacity: 150m^3/d



Zero Discharge and Hardness Removal Project of RO Concentrated Water in Guizhou

Element Spec : JW- TU- F-12818-P

Processing Capacity: 500m^3/d