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Product Manual

Beijing OriginWater Separation Membrane Technology Co., Ltd

About Us

Beijing OriginWater Separation Membrane Technology Co., Ltd is located in HuaiRou Science park with an area of more than 13 acres. The company is a high-tech company that affiliated to China Communication Construction Company Group, of which the registered trade mark is “Energy Membrane”, dedicating to R&D, manufacturing and service providing of RO, NF, UF and MF membrane products. The company owns a whole production chain of membrane with its own full intellectual property rights. Adhering to a market-oriented product development strategy, Beijing OriginWater Separation Membrane Technology Co., Ltd primarily focuses on 5 critical areas that are “Municipal Sewage Water Resource Utilization, Seawater Resource Comprehensive Utilization, Premium Potable Water, Industrial Resource Comprehensive Utilization and New Energy”, devoting to providing integrated solution to “Water Environment Treatment, New Water Resource Developing, Potable Safety and Urban Ecological Environment Construction” by applying the membrane technology. Meanwhile, the company can also provide its clients with premium membrane products, application technological support and OEM/ODM one stop service.

R&D and Manufacturing Facility

Beijing OriginWater Separation Membrane Technology Co., Ltd is dedicating to researching and developing new technology, new process, new equipment to promote the upgrading of its products, and forging major facilities for water treatment technology development and industrialization in China.

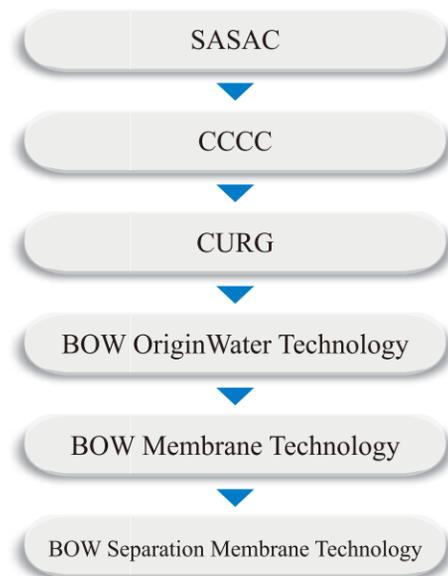


R&D and Manufacturing Plant, Beijing

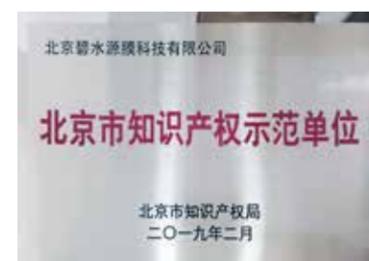
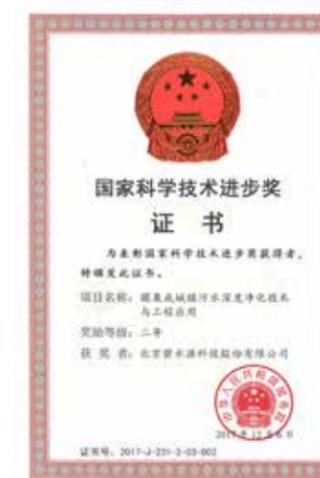
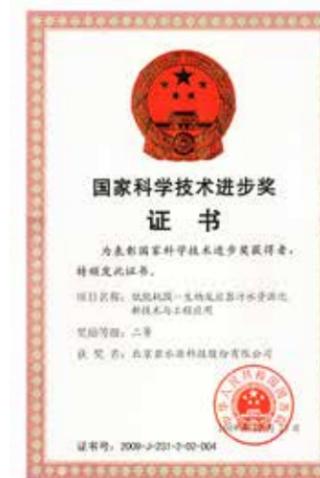
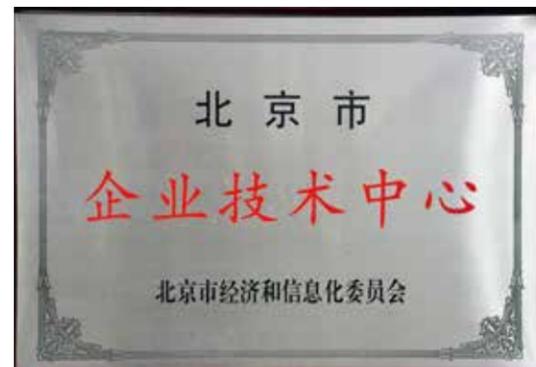


R&D and Manufacturing Plant, Tianjin

Shareholders



Company Awards and Credentials



WQA



Quality Management System



Environment Management System



Occupational Health and Safety Management System

R&D Platform



- R&D Center
- Designing and Researching Institute
- National Engineering and Technology Center for Environmental Protection
- Beijing Enterprise Technical Center
- Beijing Engineering Technology Research Center
- Beijing Project Research Center
- Postdoctoral Center



Scientific Research Capability



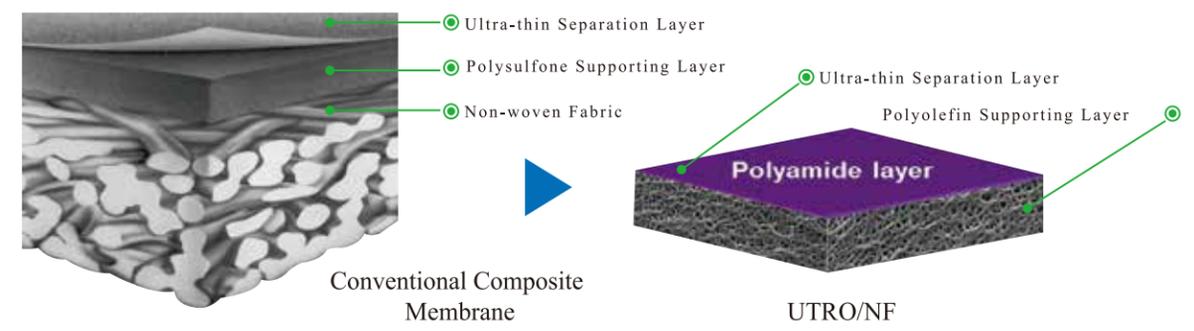
The company has been awarded by over 500 core patent technologies, part of them are as posted below:

- 《一种双面帘涂膜工艺及其应用和装置》, ZL 2017 1 1330873.9
- 《一种反渗膜元件单向格网装置及制备方法》, ZL 2016 1 0532274.4
- 《一种卷式膜元件及其卷制方法》, ZL 2016 1 1270125.1
- 《一种低压高通量反渗膜的制备方法》, ZL 2014 1 0035927.9
- 《一种杂化反渗膜的制备方法及其所述杂化反渗膜的应用》, ZL 2014 1 0447290.4
- 《一种反渗膜的制备方法》, ZL 2014 1 0678057.7
- 《一种膜元件的后处理系统及其方法》, ZL 2014 1 0712398.1
- 《一种酰氯化氧化石墨烯改性的聚酰胺反渗膜的制备方法、所述改性反渗膜及其应用》, ZL 2016 1 0846658.3
- 《一种在线式制备高通量复合反渗膜的方法》, ZL 2014 1 0001060.5
- 《双脱盐层复合反渗膜及其制备方法》, ZL 2013 1 0038807.X
- 《反渗膜及其制备方法》, ZL 2013 1 0038728.9
- 《一种快速提高通量的反渗膜元件的制备方法》, ZL 2013 1 0432715.X
- 《一种废旧聚酰胺类卷式反渗膜元件的回收方法》, ZL 2013 1 0629715.9
- 《一种新型聚酰胺反渗膜的制备方法》, ZL 2013 1 0690827.5
- 《一种抗污染反渗膜及其制备方法》, ZL 2012 1 0433906.3



R&D Platform Advanced manufacturing technology

UTRO/NF membrane adopts polyolefin diaphragm to replace polyamide composite membrane that uses conventional non-woven fabric with polysulfone as basement membrane, which is the latest membrane material in the world initially developed by OriginWater Separation Membrane Technology. The product has broken the years' technical bottleneck of water treatment industry with its ultra-thinness, good performance of anti-fouling and solvent resistance, leading the direction of the new membrane materials.



Thickness Advantage: the membrane thickness is less than 20 μ m, which is thinner than 1/7 of the conventional RO membrane material thickness, allowing larger membrane area to be feed in under the same element dimension;

Material Advantage: the membrane is not composed of non-woven fabric, nor polysulfone, which has addressed year's difficulty regarding the membrane material technology;

Product made from the material has good performance regarding acid and alkali resistance, and solvent resistance, which could be applied in more areas.

Industrial Membrane Products

NF Membrane

High Salt Rejection

- FLM-NF90-4040
- FLM-NF90-8040 (400)
- FLM-NF90-8040 (440)

Salt Separation

- FLM-NF60-4040
- FLM-NF60-8040 (400)
- FLM-NF60G-4040
- FLM-NF60G-8040 (400)
- FLM-NF60-4040 (FR)
- FLM-NF60-8040FR (400)

Low Pressure

- FLM-NF30-4040
- FLM-NF30-8040 (400)

RO membrane

Seawater Desalination

- FLM-SW4040-HR
- FLM-SW8040-HF (400)
- FLM-SW8040-HF (440)
- FLM-SW8040-HR (400)
- FLM-SW8040-HR (440)

Brackish Water

- FLM-BW4040-LP
- FLM-BW4040-CHR
- FLM-BW8040-LP (400)
- FLM-BW8040-LP (440)
- FLM-BW8040-FR (400)
- FLM-BW8040-FRB (400)

Ultra-low Pressure

- FLM-ULP4040-FR
- FLM-ULP4040-CHR
- FLM-ULP4040-CHF
- FLM-ULP8040-FR (400)
- FLM-ULP8040-FR (440)
- FLM-ULP8040-CHR (400)
- FLM-ULP8040-CHR (440)

Ultimate Low Pressure

- FLM-ULP4040-HF
- FLM-ULP8040-HF (400)
- FLM-ULP8040-HF (440)

Zero Discharging

- FLM-ZD-N
- FLM-ZD-FR
- FLM-ZD-HP7
- FLM-ZD-NHP



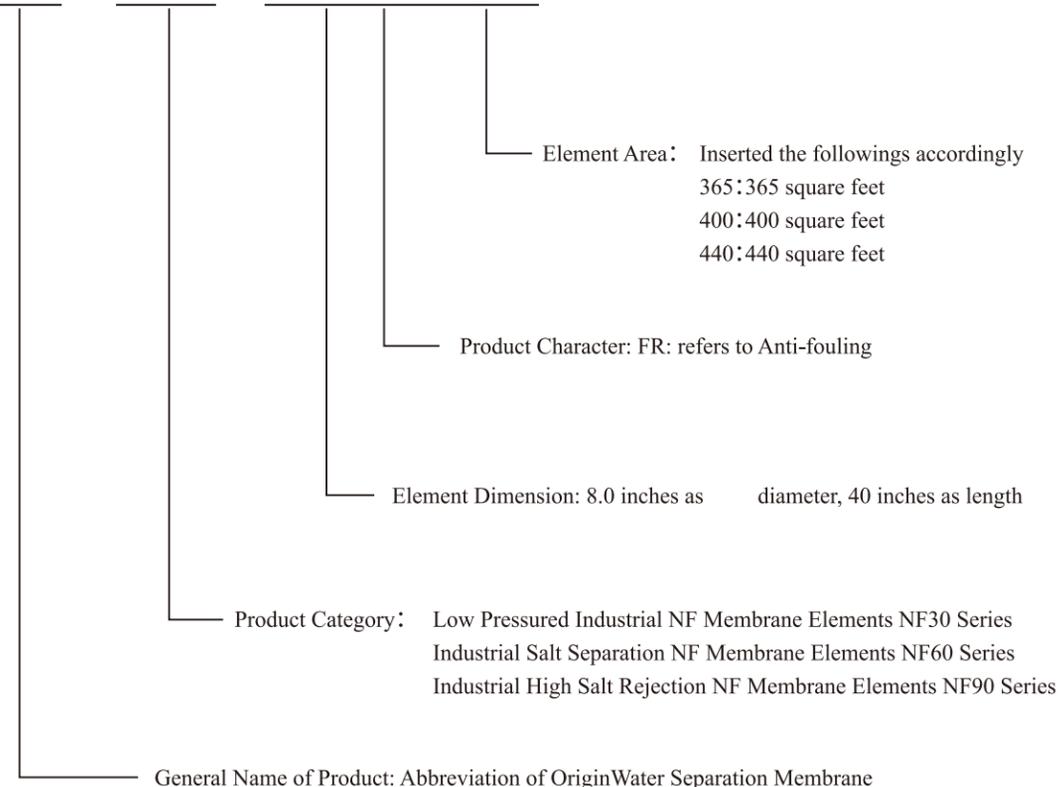
Industrial NF Membrane Element Products

Product Series

- Low Pressured Industrial NF Membrane Elements NF30 Series
- Industrial Salt Separation NF Membrane Elements NF60 Series
- Industrial High Salt Rejection NF Membrane Elements, NF90 Series

Nomenclature

FLM – NF60 – 8040FR (400)



Low Pressured Industrial NF Membrane NF30 Series

Low Pressured Industrial NF Membrane (NF30 Series) are specifically applied for removing TOC, THM and MOPs, which has a high removal rate especially regarding PPCPs, EDCs and POPs, and high permeability for dissolved inorganic salt. The products could have a very high systematically comprehensive performance under ultra-low operation pressure, low energy consumption and lower operational cost, which are fit for the applications of potable water supply and other areas.

Product Features

- Selective Separation:** the product can greatly remove endocrine disturbance, antibiotics, by-products of disinfectant and other MOPs with appropriate desalination and retention of minerals;
- High System Recovery Rate:** System Recovery Rate can be as high as 95%;
- Low Operation Pressure:** Operation pressure range is between 0.3 - 0.5 MPa, which is reduced by over 30% compared with conventional membrane;
- Lower Operation Cost:** High water yielding, low desalination rate, less chemical consumption and low operation energy consumption.

Performance Parameters

Model	Av. Flux/GPD	Stable Salt Rejection /%	Effective Membrane Area/ft ² (m ²)	Width of Feeding Passage/mil
FLM-NF30-4040	1900	95	85 (8)	31
FLM-NF30-8040 (400)	9000	95	400 (37)	31

Note: Water yielding with single membrane element is±15%.

Testing Conditions

Front Pressure 70psi(0.48MPa), Temperature: 25°C, 2000 ppmMgSO₄, Recovery Rate 15%, pH7.5-8.0

Operation Limits

Max. Operation Pressure	365psi (2.5MPa)
Max. Feeding Temperature	113°F (45°C)
Max. Feeding SDI	5
Concentration of Free Chlorine	<0.1ppm
Feeding pH Values under Continuously Operation	3-10
Feeding pH Values under Chemical Cleaning	2-12
Max. Temperature of Chemicals for Cleaning	95°F (35°C)
Max. Pressure Loss of Single Element	15psi (0.10MPa)

Industrial Salt Separation NF Membrane Elements NF60 Series

Industrial Salt Separation NF Membrane Elements(NF60 Series) can selectively permeate dissolved inorganic salt, which has a high monovalent ion permeability, and high retention rates of divalent ion and COD, facilitating the separation of high concentrated salt solution. Typical applications of the products include material concentration separation, salt separation, recycling water reuse and Zero (or almost zero) discharging, etc.

Product Features

High Selective Separation: High Retention Rate of divalent ion and high permeability rate of monovalent ion; **Low Operation Energy Consumption:** Surface decoration technology enables the PA layer to be more even, more smooth, have stronger anti-fouling performance.

Long Term Stable Operation: Fully automatic membrane producing/rolling technology ensure that the products have uniform performance, and more stable operation.

Performance Parameter

Model	Av. Flux/GPD	Stable Salt Rejection /%	Effective Membrane Area/ft ² (m ²)	Width of Feeding Passage/mil
FLM-NF60-4040	1500	97	85 (8.0)	31
FLM-NF60-8040 (400)	7000	97	400 (37)	34
FLM-NF60G-4040	1300	97.5	80 (7.4)	34
FLM-NF60G-8040 (400)	6000	97.5	400 (37)	34
FLM-NF60-4040 (FR)	1800	98	80 (7.4)	34
FLM-NF60-8040FR (400)	8000	98	400 (37)	34

Note: Water yielding with single membrane element is±15%.

Testing Conditions

Front Pressure 70psi(0.48MPa)、Temperature: 25°C、2000 ppmMgSO₄、Recovery Rate 15%、pH7.5-8.0

Note:the front pressure of FLM-NF60-4040(FR) and FLM-NF60-8040FR(400) is 110psi(0.78MPa)

Operation Limits

Max. Operation Pressure	600psi (4.1MPa)
Max. Feeding Temperature	113° F (45°C)
Max. Feeding SDI	5
Concentration of Free Chlorine	<0.1ppm
Feeding pH Values under Continuously Operation	3-10
Feeding pH Values under Chemical Cleaning	2-12
Max. Temperature of Chemicals for Cleaning	95° F (35°C)
Max. Pressure Loss of Single Element	15psi (0.10MPa)

Industrial High Salt Rejection NF Membrane Elements (NF Series) are fit for advanced treatment areas such as water softening and chroma purification of municipal water resource coming from surface or underground, especially the high desalination, high removal of nitrate, Fe, pesticide, herbicide, precursor of THM and other MOPs. The products can be largely applied in the water treatment projects with exceeding ions, such as water supply project, chemistry project, food project, and medical project, etc.

Product Features

High Retention Rate: the product has a high removal rate regarding the heavy metal ions and exceeding ions (such as Br⁻、NO₃⁻、SO₄²⁻) in water body with micro-pollutants;

Strong Anti-fouling Performance: The membrane surface is coated with special technological process to give it a more smoothness with better water affinity;

Low Operation Pressure: Operation pressure range is between 0.4 - 0.7MPa, which is reduced by over 30% compared with conventional membrane;

Performance Parameters

Model	Av. Flux/GPD	Stable Salt Rejection /%	Effective Membrane Area/ft ² (m ²)	Width of Feeding Passage/mil
FLM-NF90-4040	1600	98.5	85 (8)	28
FLM-NF90-8040 (400)	7000	98.5	400 (37)	28
FLM-NF90-8040 (440)	7700	98.5	440 (41)	28

Note: Water yielding with single membrane element is±15%

Testing Conditions

Front Pressure70psi (0.48MPa) 、Temperature25°C、2000 ppmMgSO₄、Recovery Rate15%、pH7.5-8.0

Operation Limits

Max. Operation Pressure	365psi (2.5MPa)
Max. Feeding Temperature	113° F (45°C)
Max. Feeding SDI	5
Concentration of Free Chlorine	<0.1ppm
Feeding pH Values under Continuously Operation	3-10
Feeding pH Values under Chemical Cleaning	2-12
Max. Temperature of Chemicals for Cleaning	95° F (35°C)
Max. Pressure Loss of Single Element	15psi (0.10 MPa)

SW-High Pressured Industrial Seawater Desalination RO Membrane Elements

The SW-High Pressured Industrial Seawater Desalination RO Membrane Elements have a high level of anti-pressure performance and salt rejection, which allows the elements to desalt seawater stably so as to ensure that the water permeated has a higher quality under high recovery rate. The elements can be largely applied in advanced water treatment areas such as seawater desalination system with high recovery rate, brackish water concentration, "Zero" discharging of Industrial waste water, etc.

Product Features

High Slat Rejection: Water permeated from seawater can fulfil requirements of municipal demands;

High Anti-fouling Performance: the elements is fit for high salt industrial waste water treatment area.

Parameters

Model	Av. Flux/GPD	Stable Salt Rejection/%	Effective Membrane Area/ft ² (m ²)	Boron Removal Rate/%	Feeding Passage Width/mil
FLM-SW4040-HR	1450	99.8	85 (8)	90	28
FLM-SW8040-HF (400)	9000	99.8	400 (37)	90	34
FLM-SW8040-HF (440)	9900	99.8	440 (41)	90	28
FLM-SW8040-HR (400)	7000	99.8	400 (37)	90	34
FLM-SW8040-HR (440)	7700	99.8	440 (41)	90	28

Note: Water yielding with single membrane element is±15%

Test Conditions

Front Pressure 800psi (5.52MPa)、Temperature25°C、32000ppmNaCl、Recovery Rate8%、pH7.5-8.0

Operation Limits

Max. Operation Pressure	1200psi (8.3MPa)
Max. Feeding Temperature	113° F (45°C)
SDI. Max. Feeding SDI	5
Feeding pH Values under Continuously Operation	< 0.1ppm
Feeding pH Values under Chemical Cleaning	2-11
Max. Temperature of Chemicals for Cleaning	1-13
Max. Pressure Loss of Single Element	15psi (0.10MPa)

Industrial RO Membrane Products

Product Series

SW-High Pressured Industrial Seawater Desalination RO Membrane Elements

BW - Industrial RO Membrane Elements

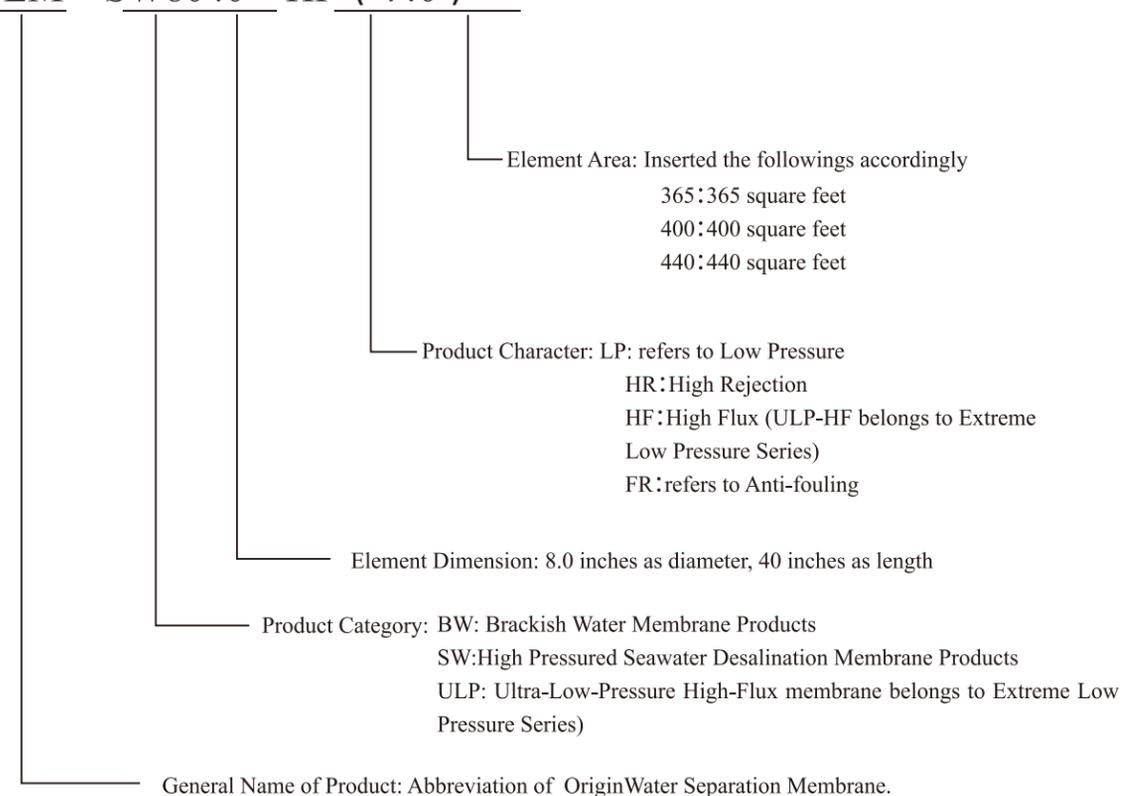
ULP - Industrial Ultra-Low-Pressure RO Membrane Elements

ULP-HF Extreme Low Pressured Industrial RO Membrane Elements

ZD - Zero Discharging Industrial RO Membrane Elements

Nomenclature

FLM – SW8040 – HF (440)



BW - Industrial RO Membrane Elements

BW - Industrial RO Membrane Elements adopt the latest processing technology and material to have high salt rejection, water permeation, chemical withstanding, and anti-fouling performance. The elements are fit for the application areas such as brackish water (salt content below 10000ppm) desalination, micro-polluted surface water desalination, discharged water from cooling recycling system reuse, etc. The elements have a large range of cleaning PH value (pH1-13), which can rapidly address membrane fouling issues.

Product Features

High Salt Rejection: the elements are fit for feeding water with high salt content;

Strong Anti-fouling Performance: the special anti-fouling coating can ensure that the elements work normally under extreme conditions;

Strong Anti-cleaning Performance: the elements can be washed by acid or alkali for multiple times, having a long life expectancy.

Parameters

Model	Av. Flux/GPD	Stable Salt Rejection /%	Effective Membrane Area/ft ² (m ²)	Feeding Passage Width/mil
FLM-BW4040-LP	2400	99.5	85 (8)	31
FLM-BW4040-CHR	2400	99.2	85 (8)	31
FLM-BW8040-LP (400)	10500	99.5	400 (37)	31
FLM-BW8040-LP (440)	11500	99.5	440 (41)	28
FLM-BW8040-FR (400)	11000	99.7	400 (37)	34
FLM-BW8040-FRB (400)	10500	99.2	400 (37)	34

Note: Water yielding with single membrane element is±15%

Test Conditions

Front Pressure225psi (1.55MPa)、Temperature25°C、2000ppmNaCl、Recovery Rate15%、pH7.5-8.0

Operation Limits

Max. Operation Pressure	600psi (4.1MPa)
Max. Feeding Temperature	113° F (45°C)
SDI. Max. Feeding SDI	5
Feeding pH Values under Continuously Operation	<0.1ppm
Feeding pH Values under Chemical Cleaning	2-11
Max. Temperature of Chemicals for Cleaning	1-13
Max. Pressure Loss of Single Element	15psi (0.10MPa)

ULP - Industrial Ultra-Low-Pressure RO Membrane Elements

The ULP - Industrial Ultra - Low - Pressure RO Membrane Elements developed by Beijing OriginWater Separation Membrane Technology Co., Ltd are aromatic polyamide composite membrane elements, which are used for desalination of surface water and ground water. The elements can achieve higher water permeation under low operational pressure compared with conventional membrane elements, which can greatly save customers system operation expenses and reduce the investments on pumps, pipelines, and vessels to increase the economic benefits. The elements can be applied for the desalination treatment of municipal water resource, tap water, surface and ground water, which has salt content below 2000ppm.

Product Features

Large Application Area: the elements can be largely applied in the desalination of water that contains TDS below 2000

Great Water Permeation: the elements can achieve the water permeation of low pressured membrane elements for brackish water under 10 kg operational pressure

Strong Anti-cleaning Performance: the elements can be washed by acid or alkali for multiple times, having a long life expectancy

Parameters

Model	Av. Flux/GPD	Stable Salt Rejection /%	Effective Membrane Area/ft ² (m ²)	Feeding Passage Width/mil
FLM-ULP4040-FR	2600	99.5	85 (8)	28
FLM-ULP4040-CHR	2600	99	76 (7.2)	34
FLM-ULP4040-CHF	2600	99	76 (7.2)	34
FLM-ULP8040-FR (400)	10500	99.5	400 (37)	34
FLM-ULP8040-FR (440)	11500	99.5	440 (41)	28
FLM-ULP8040-CHR (400)	10500	99	400 (37)	34
FLM-ULP8040-CHR (440)	11500	99	440 (41)	28

Note: Water yielding with single membrane element is±15%

Test Conditions

Front Pressure150psi (1.03MPa)、Temperature25°C、1500ppmNaCl、Recovery Rate15%、pH7.5-8.0

Operation Limits

Max. Operation Pressure	600psi (4.1MPa)
Max. Feeding Temperature	113° F (45°C)
SDI. Max. Feeding SDI	5
Feeding pH Values under Continuously Operation	<0.1ppm
Feeding pH Values under Chemical Cleaning	2-11
Max. Temperature of Chemicals for Cleaning	1-13
Max. Pressure Loss of Single Element	15psi (0.10MPa)

ULP-HF Extreme Low Pressured Industrial RO Membrane Elements

ULP-HF Extreme Low Pressured Industrial RO Membrane Elements are applied for advanced treatment and desalination of tap water, surface water and brackish water that contain salt below 1000ppm. The elements have extreme low pressure, and can bring customers good systematic performance and economic benefits.

Products Features

The elements can yield high water permeation under extreme low pressure, which greatly saves system operation cost, and protect potable drinking safety.

Parameters

Model	Av. Flux/GPD	Stable Salt Rejection %	Effective Membrane Area/ft ² (m ²)	Feeding Passage Width/mil
FLM-ULP4040-HF	2600	99.2	85 (8)	31
FLM-ULP8040-HF (400)	11000	99.2	400 (37)	34
FLM-ULP8040-HF (440)	12100	99.2	440 (41)	28

Note: Water yielding with single membrane element is±15%

Test Conditions

Front Pressure 100psi (0.69MPa)、Temperature 25°C、500ppmNaCl、Recovery Rate 15%、pH 7.5-8.0

Operation Limits

Max. Operation Pressure	600psi (4.1MPa)
Max. Feeding Temperature	113° F (45°C)
SDI. Max. Feeding SDI	5
Feeding pH Values under Continuously Operation	<0.1ppm
Feeding pH Values under Chemical Cleaning	2-11
Max. Temperature of Chemicals for Cleaning	1-13
Max. Pressure Loss of Single Element	15psi (0.10MPa)

ZD - Zero Discharging Industrial RO Membrane Elements

The ZD - Zero (almost zero) Discharging Industrial RO Membrane Elements, developed by OriginWater Separation Membrane Technology Co., Ltd, can be adopted into various stages of zero wasted water discharging membrane treatment method with appropriate processing route and membrane type, according to waste water characteristic and processing requirements, so that the reuse rate of waste water can be increased accordingly. After the reduction of concentration, the concentration starts vaporizing and crystallizing to fulfil the goal of zero discharging and effectively reduce the entire construction cost and operation cost.

Products Features

The membrane elements are coated with anti-fouling coating to give the elements strong anti-fouling performance so as to effectively reduce cleaning frequency, extend cleaning cycle, and save the cleaning cost accordingly.

Good chemical property. The membrane has a large pH withstand capability as much as 1 -- 13, ensuring a long stable operation; The membrane elements adopt low pressure difference technology, which can effectively reduce operation energy consumption and save operation cost.

Parameters and Test Conditions

Model	Av. Flux/GPD	Stable Salt Rejection/%	Effective Membrane Area/ft ² (m ²)	Feeding Passage Width/mil	Test Conditions	Max. Operation Pressure
FLM-ZD-FR	10500	99.7	400 (37)	34 - LD	225 psi (1.55MPa) 2000ppmNaCl recovery rate 15% pH 7.5-8.0 25°C	600psi (4.1MPa)
FLM-ZD-HP7	8500	99.75	400 (37)	34 - LD	800 psi (5.52MPa) 32000ppmNaCl recovery rate 8% pH 7.5-8.0 25°C	1200psi (8.3MPa)
FLM-ZD-N	7000	98	400 (37)	34 - LD	70 psi (0.48MPa) 2000 ppmMgSO4 recovery rate 15% pH 7.5-8.0 25°C	600psi (4.1MPa)
FLM-ZD-NHP	6000	99	400 (37)	34 - LD		1200psi (8.3MPa)

Note: Water yielding with single membrane element is±15%

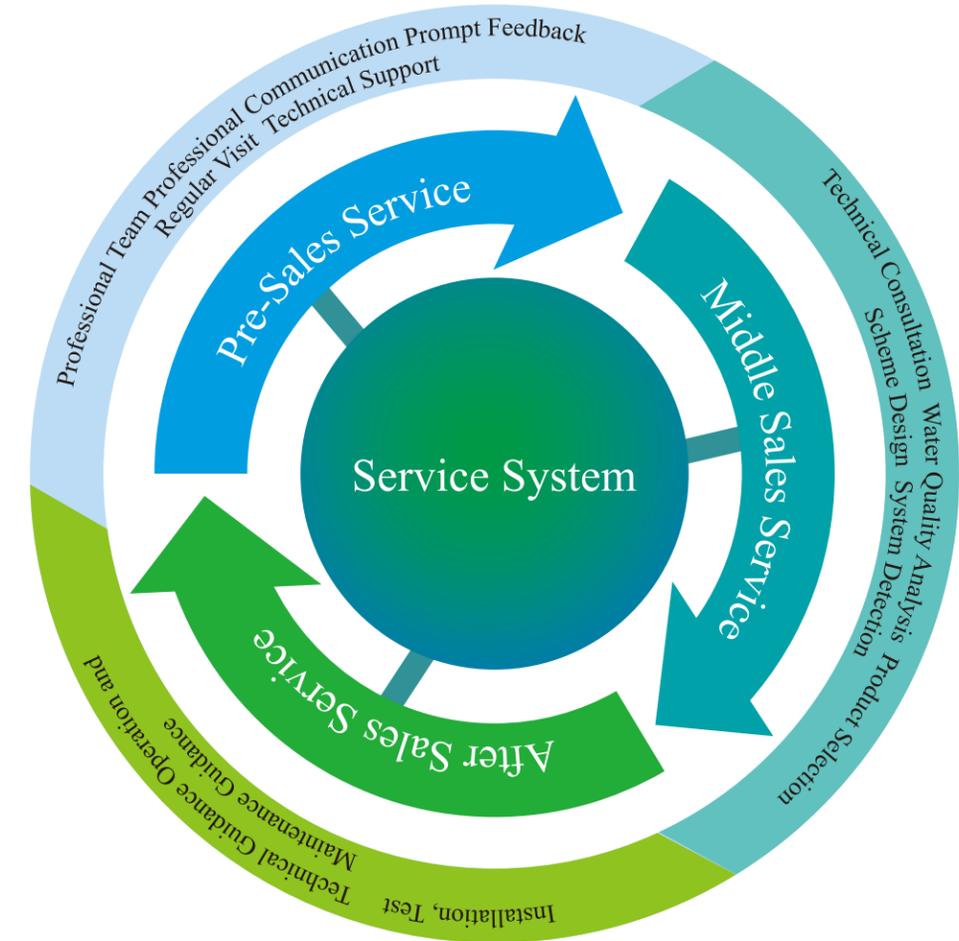
Operation Limits

Max. Feeding Temperature	113° F (45°C)
SDI. Max. Feeding SDI	5
Feeding pH Values under Continuously Operation	<0.1ppm
Feeding pH Values under Chemical Cleaning	2-11
Max. Temperature of Chemicals for Cleaning	1-13
Max. Pressure Loss of Single Element	15psi (0.10MPa)

Service and Support

Beijing OriginWater Separation Technology Co., Ltd is upholding its after sales service conception with respect to “ Spirit of Craftsmanship” and “Integrity” to serve its customers, forging a core value of “High Quality, High Efficiency, and Exclusiveness”. Client experience of the product is the priority of the company’s focus, and will be continuously improved by the company that is committing to provide round-clock service sales and after sales service with punctuality and effectiveness, to express its care of Energy Membrane brand to its customers via those services.

Beijing OriginWater Separation Membrane Technology Co., Ltd, with its own independent R&D capability and technological epitaxy, can provide the global market with premium products and complete solutions. As one of the largest membrane producer in China, the company can also provide its customers with OEM/ODM one-stop solution services.



Applications



A Large Seawater Desalination Project (100000m³/d) that was the first one independently designed and constructed by the company in China.

Municipal Sewage Water Resource Utilization Cases



A New Water Plant in Beijing, 12000m³/d, NF Membrane



A New Water Plant in Beijing, 20000m³/d, NF Membrane



A New Water Plant in YunNan Province, 10000m³/d, NF Membrane



A New Water Plant in Sichuan Province, 12500m³/d, NF Membrane



A Sewage Water Treatment Plant in YunNan Province, 25000m³/d, NF Membrane



A New Water Plant in Shandong Province, 15000m³/d, NF Membrane

Seawater Resource Comprehensive Utilization Cases

The project adopts “UF+RO” double membrane method independently developed by the company for seawater desalination, whose critical technology and equipment have realized localization and initially made a breakthrough regarding the technology bottleneck in China, for which National Development and Reform Commission, Ministry of Industry and Information Technology, and Ministry of Finance have established a “Paradigm Project for RO Material Research, Development, Industrialization and Application”.



Dongjiakou Seawater Desalination Project, Qingdao, 100000m³/d, UF+RO



Lubei Seawater Desalination Project (Phase 1), Shandong Province, 50000m³/d, UF+RO



A Seawater Desalination Project, Zhejiang Province, 100000m³/d, Flocculent Precipitation + Mechanical Filtration+RO

Industrial Application

Premium Potable Water Application Cases



An Advance Tap Water Treatment Project in Jiangsu Province, 50000m³/d, NF membrane



An Water Purification Plant at a Industry Park, Shanxi Province, 200000m³/d, NF membrane



A Tap Water Quality Upgrading Project in Shanxi Province, 2000m³/d, NF membrane



A Tap Water Quality Upgrading Project in Shanxi Province, 35000m³/d, NF membrane



A Tap Water Quality Upgrading Project in Jiangsu Province, 2000m³/d, NF membrane

Industrial Resource Comprehensive Utilization Cases



An Electronic Industry Water Supply Project, Beijing, 5000m³/d, RO Membrane



A Power Plant Water Supply Project, Shandong Province, 3000m³/d, RO Membrane



An Electroplating Industry Water Supply Project, Shenyang, Liaoning Province, 2000m³/d, RO Membrane



A Power Industry Water Supply Project, Shijiazhuang, Hebei Province, 2000m³/d, RO Membrane



An Electroplating Industry Water Supply Project, Qiangdao, Shandong Province, 600m³/d, RO Membrane



A Power Industry Water Supply Project, Hefei, Anhui Province, 2000m³/d, RO Membrane

Industrial Application

Industrial Resource Comprehensive Utilization Cases



A Landfill Leachate Project, Jiangxi Province, 2000m³/d



An Chemical Plant Waste Water Reuse Project, Beijing, 3000m³/d, RO Membrane



An Petroleum Chemical Plant Waste Water Treatment and Reuse Project, Shandong Province, 2000m³/d, RO Membrane



Oil Field Refinery Waste Water Advanced Treatment and Reuse Project, Jilin Province, 4800m³/d, RO Membrane



An SNG Plant Circulating Water Supply Project, Xinjiang Province, 36000m³/d, RO Membrane

New Energy Cases

“Adsorbent + Membrane” is the primary processing route for brine lithium extraction, which has advantages of higher lithium extraction rate and environment friendly. Products independently developed by our company for the processing include particular adsorbent for brine lithium extraction, dedicated NF and RO membrane.



Aluminium Lithium Adsorbent



Titanium Lithium Adsorbent

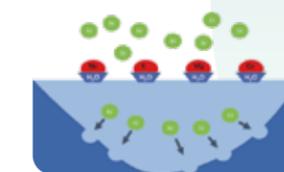
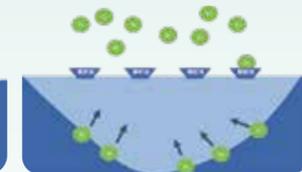


Diagram of Adsorbent Principle



Analytical Schematic Diagram



UF+NF+RO, Lithium Carbonate Production, 10000m³/d

Photo Gallery



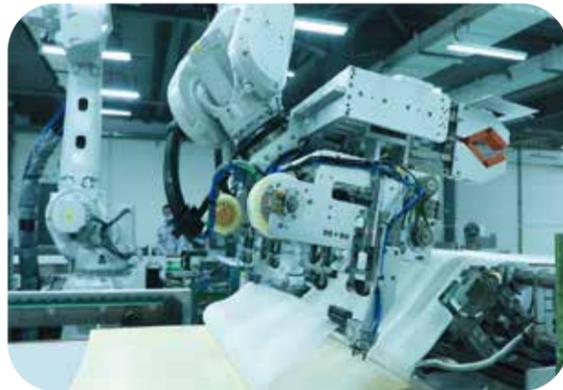
R&D, Manufacture Facility, Beijing



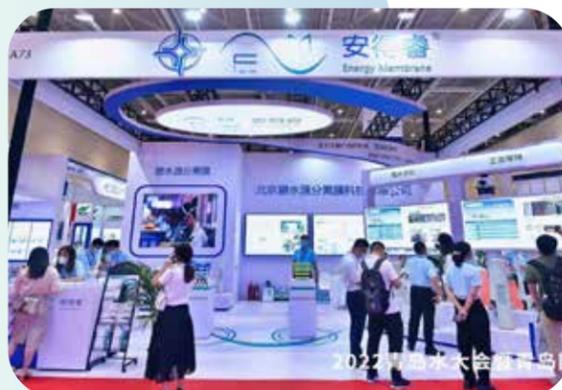
R&D, Manufacture Facility, Tianjin



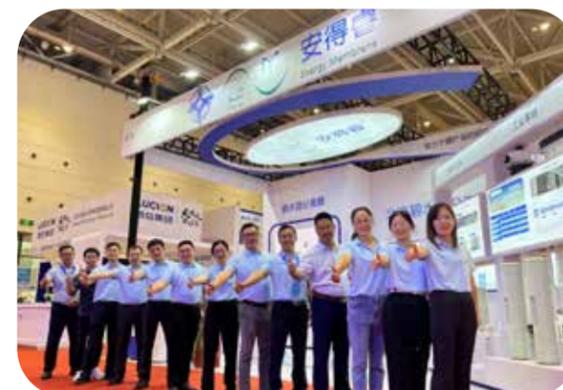
Membrane Production Line of High Precision Automatic Control



Fully Automatic Industrial Membrane Rolling Equipment



Exhibition at 2022 Qingdao International Water Conference & Expo



Sales and Service Team at the International Water Conference and Expo

Energy Membrane

Forging the CORE Strength

of Membrane Methods

