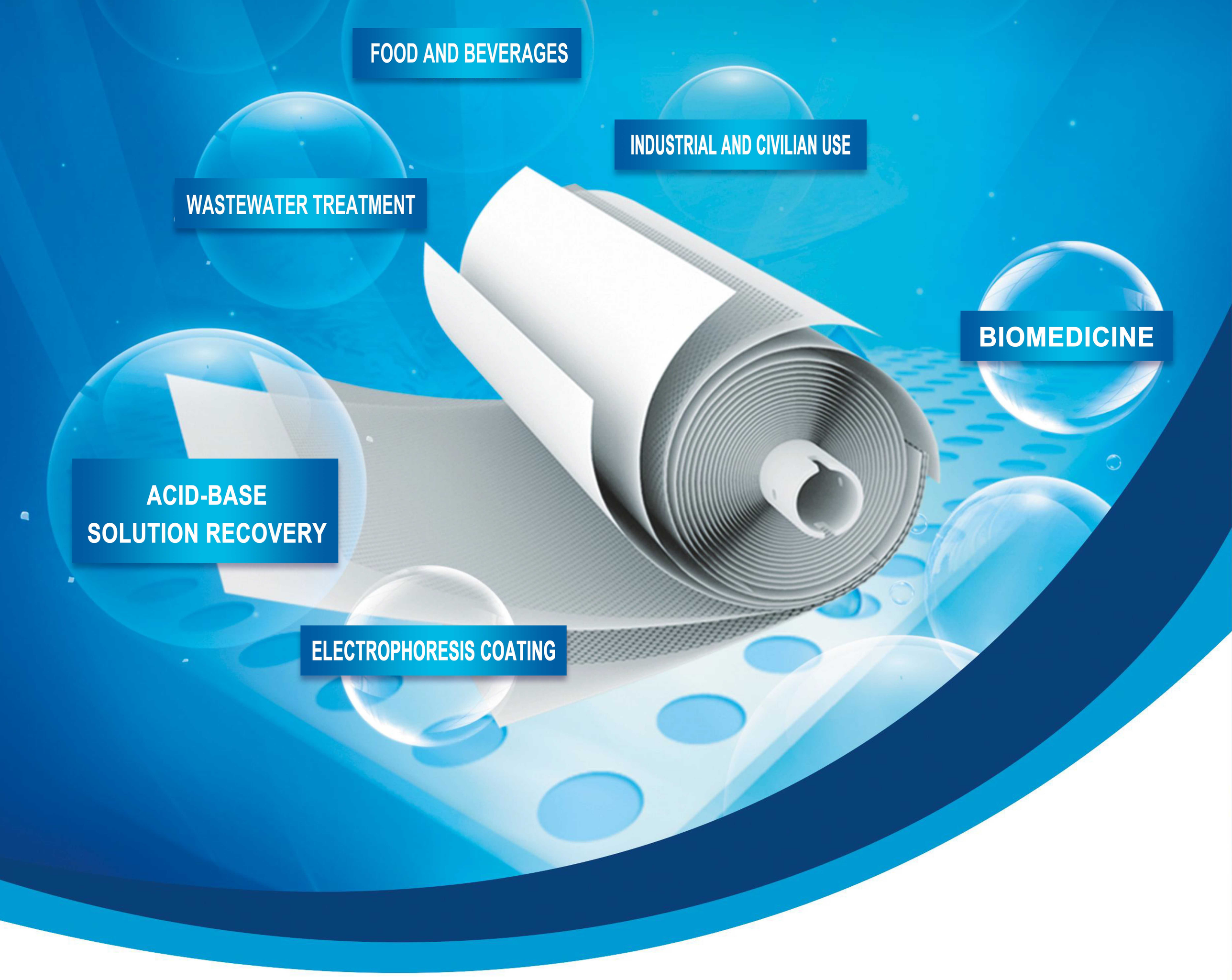
FFM INC.

美国富膜-完美膜法解决方案供应商

FFM INC. — Perfect Membrane Solution Supplier



美国富膜股份有限公司

FFM INC.

FULL FILTRATION MEMBRANE

COMPANY PROFILE

FFM INC. is an American company registered in Colorado—a state rich in mineral resources, with well-developed transportation infrastructure and globally leading research in environmental protection and new materials. Leveraging these advantages, FFM INC. has achieved rapid growth in the development of membrane products, including reverse osmosis membranes, nanofiltration membranes, hollow fiber ultrafiltration membranes, spiral-wound ultrafiltration membranes, microfiltration membranes, and specialty chemicals for water treatment.

FFM INC. boasts a technical team with years of experience in membrane manufacturing and application. Our experts come from leading countries and renowned membrane companies, bringing global insights and a shared commitment to developing environmentally friendly, efficient, and energy-saving membrane solutions and specialty chemicals. Our products are widely applied across a variety of industries, including wastewater treatment, industrial and municipal water treatment, drinking water purification, pharmaceuticals, biotechnology, food and dairy processing, beverages, and electrophoretic coating.

Driven by dedication and innovation, we continue to develop high-performance membrane products, chemicals, and technical services designed to reduce operational costs while delivering exceptional results.

FFM INC. — FULLY FOCUSED ON FILTRATION, FILTERING YOUR CONCERNS!

国家高新技术企业

International Organization for Standardization ISO 9001

UKAS QUALITY MANAGEMENT

MEMBER OF MULTILATERAL RECOGNITIONARRANGEMENT IAF

Our enterprise has earned the above certifications

1. HOUSEHOLD/COMMERCIAL RO/NF SERIES

The household and commercial membrane components produced by FFM are widely recognized in the industry for their high flux, consistency, and reliability under the same pressure conditions.
An advanced membrane sheet fabrication process and a fully automated sealing and winding production line ensure the long-term stability and uniformity of each membrane element.
When establishing high-purity drinking water systems or providing laboratory-grade purified water, these cost-effective, high-quality membranes help customers enhance brand reputation and market presence.
FFM's high-performance, cost-efficient household membrane components are dry-type in design, making them easier to transport and giving them a longer shelf life.

SPECIFICATION:

FFM1512ELP-50、FFM1812ELP-50、FFM1812ELP-75、FFM1812ELP-100、FFM2012ELP-100、FFM2012ELP-150、FFM2812ELP-200、FFM3012ELP-300、FFM3013ELP-400、FFM3012ELP-600、FFM3013ELP-700、FFM3020ELP-600、FFM3020ELP-1000、FFM1812NL-130、FFM2012NL-150、FFM2812NL-250、FFM2812NL-300、FFM3013NL-400

---

2. ULTRA-LOW PRESSURE REVERSE OSMOSIS MEMBRANE – ELP SERIES

FFM's ELP series features ultra-low pressure reverse osmosis membranes, designed to operate at the lowest pressure levels among current RO products. With a typical operating pressure range of 0.5–1.0 MPa, these membranes rank among the lowest-pressure RO membrane elements in the world.
The ELP series is primarily designed for municipal tap water, groundwater, and surface water sources with a salt concentration of 1,000 ppm or less, and is widely used in pure water production.
Thanks to their lower operating pressure and reduced energy consumption, the ELP membranes from FFM (U.S.) deliver significant cost savings and enhanced economic efficiency for users.

SPECIFICATION:

FFM2521ELP、FFM2540ELP、FFM4021ELP、FFM4040ELP、FFM8040ELP-375、FFM8040ELP-400、FFM8040ELP-440

---

3. HIGH DESALINATION ULTRA-LOW PRESSURE REVERSE OSMOSIS MEMBRANE – LP SERIES

FFM's LP series ultra-low pressure reverse osmosis membranes combine high desalination performance with low operating pressure, offering an ideal solution for low- to medium-salinity water sources such as municipal tap water, groundwater, and surface water.
With a typical operating pressure of 0.5–1.0 MPa, the LP series requires only about two-thirds of the pressure needed by conventional low-pressure composite membranes, while achieving a desalination rate of up to 99.5%.
These membranes significantly lower equipment manufacturing and operating costs, delivering clear economic benefits.
The LP series is widely applied in light industrial sectors, including pure water production, food and beverage processing, dairy, drinking water, electronics, and pharmaceuticals.

SPECIFICATION:

FFM2521LP、FFM2540LP、FFM4021LP、FFM4040LP、FFM8040LP-375、FFM8040LP-400FFM8040LP-440

---

4. HIGH DESALINATION BRACKISH WATER REVERSE OSMOSIS MEMBRANE – HR SERIES

FFM's HR series is one of the most widely used reverse osmosis membranes for brackish water desalination. Designed as a composite membrane element, it delivers outstanding performance in salt removal from brackish water. The HR series operates at low pressure, while offering excellent desalination efficiency, high water output, strong fouling resistance, stable technical performance, and consistently high product water quality. These characteristics ensure reliable, long-term use and exceptional overall system performance.
The membrane elements are suitable for treating well water and surface water with a salt concentration of less than 5,000 ppm, as well as for drinking water purification. They are also commonly used in ion exchange systems for pre-desalination. Typical applications include various scales of industrial pure water systems, boiler feed water for power plants, high-salinity wastewater treatment, beverage production, and other brackish water treatment scenarios.

SPECIFICATION:

FFM2521HR、FFM2540HR、FFM4021HR、FFM4040HR、FFM8040HR-375、FFM8040HR-400、FFM8040HR-440

---

5. HIGH-THROUGHPUT BRACKISH WATER REVERSE OSMOSIS MEMBRANE – GHR SERIES

FFM's GHR series is a high-throughput membrane product line designed for applications requiring low energy consumption and high permeate flow, particularly in system retrofits or replacements aimed at improving energy efficiency. These membrane elements are suitable for the desalination of well water and surface water sources with salinity levels up to 20,000 ppm, as well as for pre-treatment in ion exchange systems used in drinking water purification.
The GHR series is primarily applied in high-demand industrial water systems, including large-scale pure water production and boiler feed water in thermal power plants. Additionally, it is well-suited for the treatment of high-concentration brackish wastewater, beverage water production, and other applications where high throughput and stable performance are critical.

SPECIFICATION:

FFM2521GHR、FFM2540GHR、FFM4021GHR、FFM4040GHR、FFM8040GHR-375、FFM8040GHR-400、FFM8040GHR-440

6. DESALINATION ANTI-OXIDATION REVERSE OSMOSIS MEMBRANE OHR SERIES

The FFM Anti-Oxidation Series is mainly applicable to large-scale municipal desalination water systems and industrial wastewater treatment systems. It features low operating pressure, low tendency to clog, stable technical performance, good water quality of the produced water, high production capacity, excellent anti-pollution performance, and exhibits extremely high comprehensive superior performance of the system during use.
The membrane elements have higher antioxidant properties, and they perform better in specific fields. Moreover, the lifespan of the membranes is longer.

SPECIFICATION:

FFM2521-OHR、FFM2540-OHR、FFM4021-OHR、FFM4040-OHR、FFM8040-OHR-375、FFM8040-OHR-400、FFM8040-OHR-400

7.HIGH DESALINATION AND ANTI-POLLUTION REVERSE OSMOSIS MEMBRANE FR SERIES

The FFM Anti-Pollution series adopts anti-pollution membrane technology and undergoes chemical and physical modification using special formulas. In areas where the raw water is rich in microorganisms and organic pollutants, it demonstrates excellent anti-pollution, anti-stain and washability properties. It is the most widely used anti-pollution type reverse osmosis membrane and is a composite membrane element specifically designed for desalination of brackish water and various wastewater treatment.
It features low operating pressure, excellent desalination performance, low tendency to clog, stable technical performance, good water quality of the produced water, high water output, and excellent anti-pollution performance. During use, it demonstrates extremely high comprehensive superiority of the system. The membrane elements are applicable to various types of wastewater with a salt content of less than 10,000 ppm, as well as desalination and purification of reclaimed water. They are suitable for the field of high-concentration saline wastewater.

SPECIFICATION:

FFM2521FR、FFM2540FR、FFM4021FR、FFM4040FR、FFM8040FR-375、FFM8040FR-400、FFM8040FR-440

8. FFM-ER/GR ENERGY-SAVING / HIGH-THROUGHPUT ANTI-POLLUTION MEMBRANE SERIES

The FFM-ER/GR series of energy-saving, high-flux anti-pollution membrane elements are developed by FFM using proprietary membrane technology. These membranes undergo both chemical and physical surface modifications with specialized formulations to enhance their resistance to organic fouling. In regions where raw water contains high levels of microorganisms and organic pollutants, the ER/GR series demonstrates outstanding anti-fouling performance, reduced clogging tendency, and excellent cleanability.
These membrane elements are characterized by stable salt rejection, low fouling potential, consistent technical performance, and robust anti-pollution capabilities. All models in this series adopt a 34-mil feed spacer design to improve flow distribution and reduce the risk of biofouling. During operation, the ER/GR membranes contribute to exceptional overall system efficiency.
They are particularly suitable for wastewater treatment, desalination and purification of reclaimed water, and applications involving high-salinity industrial wastewater.

SPECIFICATION: FFM8040ER-400/34、FFM8040GR-400/34

9.FFM SERIES FFM-DR ENHANCED ANTI-POLLUTION REVERSE OSMOSIS MEMBRANE ELEMENT SERIES

The FFM FuYou DR enhanced anti-pollution reverse osmosis membrane series is a newly developed product by our company, specifically designed to address high organic pollution in water sources and enhance the membrane elements' tolerance to biological contamination.
Due to the use of special flow channels and anti-pollution technology in the membrane elements, the anti-pollution performance of the membrane elements has been significantly improved, and the pH value tolerance of the membrane elements has also been enhanced. As a result, the frequency of chemical cleaning has been reduced, and the recovery performance of chemical cleaning has been improved, thereby greatly extending the service life of the membrane elements.
It is suitable for the treatment of high-concentration organic wastewater, water sources with high microbial content and complexity, and can effectively reduce the biological pollution of the membrane elements.

SPECIFICATION: FFM-DR50、FFM-DR100

10.HIGH DESALINATION/HIGH FLUX SEAWATER DESALINATION MEMBRANE SERIES

The SW high-desalination seawater desalination membrane element is suitable for various industrial water treatment fields such as seawater desalination, high-concentration brine desalination, and boiler feed water for power plants. It has extremely high desalination efficiency and stable system operation characteristics. It holds a significant position in the seawater desalination field and has become the preferred choice for seawater desalination projects.
The high-throughput series of reverse osmosis membranes for seawater desalination have high water production channels and stable system operation characteristics. They hold a significant position in the field of seawater desalination and are the preferred choice for seawater desalination projects.
The SF high-capacity series of reverse osmosis membranes for seawater desalination are applicable to various industrial water treatment fields such as seawater desalination, high-concentration brackish water desalination, and boiler feed water for power plants.

SW HIGH DESALINATION SERIES: FFM2521SW、FFM2540SW、FFM4021SW、FFM4040SW、FFM8040SW-375、FFM8040SW-400、FFM8040SW-440

SF HIGH-THROUGHPUT SERIES: FFM2521SF、FFM2540SF、FFM4021SF、FFM4040SF、FFM8040SF-375、FFM8040SF-400 FFM8040SF-440

11. FFM-AD ENHANCED REVERSE OSMOSIS/NANOFILTRATION MEMBRANE ELEMENT SERIES

The FFM-AD series of reinforced reverse osmosis and nanofiltration membrane elements from FFM utilize advanced membrane surface modification technologies that enhance both surface charge and smoothness. This improved surface hydrophilicity significantly reduces membrane fouling caused by colloids and organic matter. The increased membrane density improves resistance to chemical degradation and enhances recovery performance after chemical cleaning.

In addition, a specially engineered flow channel design further boosts anti-fouling properties and facilitates effective cleaning and performance recovery. These membrane elements are ideal for industrial wastewater treatment processes with feed water salinity up to 20,000 ppm.

SPECIFICATION:

FFM8040AD-370R、FFM8040AD-400R、FFM8040AD-440R、FFM8040AD-400N

12. SOFTENED NL/WASTEWATER USE NH NANOFILTRATION MEMBRANE SERIES

The NL series reverse osmosis membranes from FFM can reduce hardness by over 98%, and they perform exceptionally well in water softening.

The NL series reverse osmosis FFM company are mainly designed for municipal tap water with low to medium salt content, as well as groundwater and surface water. Their main purpose is to reduce hardness and remove THMFP.

The NL series reverse osmosis FFM have a strong selective retention effect. They have significant differences in their retention capabilities for ions of different valence states, demonstrating the extremely high selective permeation performance of the reverse osmosis membranes.

The NH series reverse osmosis membranes of FFM Company can not only be used for water softening in water systems including municipal tap water, groundwater, surface water, and industrial wastewater, but also for the separation of complex materials. They are widely used in separation and concentration in various industries such as food and medicine.

NL SOFTENING SERIES: FFM2521NL、FFM2540NL、FFM4021NL、FFM4040NL、FFM8040NL-375、FFM8040NL-400 FFM8040NL-440

NH WASTEWATER SERIES: FFM2521NH、FFM2540NH、FFM4021NH、FFM4040NH、FFM8040NH-375、FFM8040NH-400、FFM8040NH-440

13. ELECTROPHORETIC PAINT SPECIAL FILM SERIES

Functional characteristics: High-performance special diaphragm with extremely high chemical stability.

We have membrane production lines of various specifications, which can provide membrane elements of different sizes and specifications.

The appearance forms are diverse and varied, including glass fiber type, mesh type, flange sealing type, and shell and cover integrated type.For cathodic and anodic electrophoresis, corresponding membrane elements with positive and negative charges can be provided.

Application area：Automobile manufacturing complete vehicle plants, component factories, household appliances, and other industrial electro-coating systems.

SPECIFICATION: FFM-EU4020S、FFM-EU4020G、FFM-EU4040G、FFM-EU5640G、FFM-EU7647.5G、FFM-EU7640G、FFM-EU7640F、FFM-EU8040G、FFM-EU8040P、FFM-EU10038P

14.MATERIAL SEPARATION MEMBRANE SERIES

For many years, FFM INC has continuously conducted innovative research on membrane technology and membrane application solutions. The rolled filter elements produced by them are widely used in food production fields such as milk concentration, cheese making, whey powder, whey protein, and lactose production. Maintaining its position as a market benchmark in terms of product properties and different total solid contents, American Fume can provide membrane elements with various precision levels including microfiltration, ultrafiltration, nanofiltration, and reverse osmosis. The feed flow channels are available in sizes of 28mil, 31mil, 46mil, 62mil, 80mil, 100mil, etc. for extensive selection. The membrane specifications include 1812, 2521, 2540, 4040, 6338, 8038, 8040, etc. Customized products with high temperature resistance and high pressure resistance are also available.

Biochemical/medicinal applications involve: mold, antibiotic concentrated mycelium, protein concentration treatment of cell lysate products, cell culture medium, blood product extraction of vaccines, hormones, yeast, vitamins production or extraction, organic acid production, and deheat source of injection water.

Food/dairy product applications include: Sucrose clarification, glucose clarification, gelatin clarification and concentration, egg immunoglobulin concentration, starch recovery, globulin concentration, vinegar clarification, whey protein concentration, and standardization of milk production.

The applications in the beverage industry include: Clarification of apple juice, pear juice, pineapple juice, etc., clarification of wine, wine residue recovery, removal of bitterness and concentration of orange juice, clarification of sour fruit vines, and grape juice.

15. SERIES OF MEMBRANES RESISTANT TO STRONG ACIDS, STRONG ALKALIS AND ORGANIC SOLVENTS

The vast majority of membrane elements on the market are suitable for processing solutions with pH values ranging from 2 to 11. However, many applications in the pharmaceutical, biochemical, and food industries require production under harsh conditions such as acids, alkalis, high temperatures, and organic solvents.

The FFM components possess extremely high stability, meeting the application requirements of the market for both high and low pH values, high temperatures (up to 158F or 70C), and organic media conditions.

The acid and alkali resistant membrane elements of FFM are suitable for stable operation within the pH range of 0 to 14PH.

The FFM series of acid and alkali membranes are suitable for applications that require rigorous chemical cleaning (CIP).

The acid and alkali resistant membranes produced by FFM are particularly suitable for recycling high-temperature acid and alkali cleaning solutions. The recycled cleaning solutions can be directly reused, which solves the problem of waste liquid discharge and reduces production costs.

16.COLUMN TYPE / CURTAIN TYPE / HORIZONTAL TYPE / EXTERNAL TYPE / IMMERSION TYPE ULTRAFILTRATION MEMBRANES / MICROFILTRATION MEMBRANES SERIES

A wide range of products (including internal pressure type, external pressure type, cylindrical nanofiltration membranes, curtain-type ultrafiltration membranes, horizontal ultrafiltration membranes, and tubular ultrafiltration membranes).Multiple working modes.High strength, resistant to pollution, and excellent antioxidant properties.The retention performance is excellent, the water production flux is large, and the hydrophilicity is good.The cleaning throughput has been restored well.It is highly effective for the recovery of trace components in dilute solutions and the concentration of low-concentration solutions.The membrane fiber pores are evenly distributed, ensuring a more stable water output.Standard interface, installation is simpler and more convenient.

APPLICATION AREA:

Deep treatment and reuse of wastewater in fields such as municipal services, electricity, steel, petrochemicals, textiles, and food, as well as water treatment for production processes Municipal water purification treatment. Pre-treatment of seawater desalination and reverse osmosis systems. Purification, concentration and separation in the fields of food and biopharmaceuticals. Treatment of leachate from landfill sites. The preparation of mineral water. Remove the colloids and bacteria from the water. Injections and large-volume infusions are heat sources.Other areas such as the removal of large molecules.

17.TUBE-TYPE MEMBRANE / DTRO / DTNF WASTEWATER MEMBRANE SERIES

Tube-type membrane: The tube diameters of the FFM tube-type membrane include 5mm, 8mm, 12mm, etc., totaling 5 specifications.

The inner wall is made of modified membrane materials such as PVDF and PES. The outer layer is a high-strength support layer. Several membrane tubes are fixed inside the membrane shell to form a tubular membrane module with specific filtration functions. The raw liquid enters the membrane tubes. Under a certain pressure, water and other small molecules pass through the membrane functional layer and seep out, gathering at the permeate liquid outlet.

International standard interface design, with excellent compatibility. Quick-installation connection, with user-friendly design, facilitating engineering installation and maintenance. The product specifications are complete, which can meet the processing needs of customers of different scales. Strong R&D and design capabilities, allowing for customized production according to customer requirements.

DTRO/DTNF Membrane characteristics

1. The treatment effect is not dependent on the influent or biodegradability. The system is stable and the effluent quality is high.

2.The treatment effect is not dependent on the pre-treatment process. The open channel can handle wastewater containing a large amount of solid bodies and suspended substances.

3. The membrane elements adopt special designs such as short process and wide flow channels. This significantly reduces the occurrence of fouling, contamination and concentration polarization on the membrane surface.

Different filtration accuracies for nanofiltration and reverse osmosis can be provided.

Multiple pressure levels are available, including 75bar, 90bar, 120bar, and 160bar.

---

18. SPECIALIZED CHEMICALS FOR WATER TREATMENT

FFM INC. not only has extensive experience in membrane research, manufacturing, and application, but also possesses deep technical expertise in specialty additives for industrial water treatment. With years of accumulated knowledge in the structure, mechanisms, performance, and practical application of water treatment agents, FFM has developed a comprehensive range of high-performance chemical solutions.

Their product line includes agents for membrane-based systems, thermal desalination processes, circulating cooling water systems, boiler water treatment, oilfield chemicals, papermaking additives, and more. These chemicals deliver excellent performance at competitive prices, positioning FFM as a preferred alternative to leading imported water treatment chemical brands.

SELECTED PARTNERS

中煤平朔集团有限公司	陕西陕化煤化工集团有限公司	山东北澳化工有限公司	洛阳伊川电力	贵州黔西电厂
大唐集团公司	包钢集团宝山矿业有限公司	吉林金钢钢铁股份有限公司	贵州沿河西南水泥有限公司	贵州威宁西南水泥
内蒙古双欣环保新材料	河北科星药业有限公司	中洋生物科技	大庆康泰华年生物	百及纳米科技(上海)有限公司
南充永盈新材料	辽宁海神联盛制药	四川博佳制药	乔源生物制药	河北科星药业有限公司
中国石化	微至(苏州)医疗科技有限公司	江南大学	新疆医科大学	西安建筑科技大学
黑龙江康普生物	天津工业大学	中国乐凯集团有限公司研究院	中国电子科技集团第十二研究所	千山风景区矿泉水厂
吉林康乃尔圣业	江西雨飞矿泉水厂	宝马汽车有限公司	长春一汽红旗汽车有限公司	北京福田戴姆勒汽车有限公司

DUE TO LIMITED SPACE, ONLY SOME CUSTOMERS ARE SHOWCASED.

HONORS & CERTIFICATIONS

Join Us for Mutual Success and Shared Growth

Unified Support

FFM INC. leverages its robust brand management system to provide agents with standardized branding, consistent product lines, uniform pricing, and coordinated promotional strategies.

Enhanced After-Sales Service

We provide comprehensive technical support backed by strong capabilities and in-depth training. Our services cover the entire process—from pre-sales technical consultation and on-site inspections, to the preparation of calculation documents, installation guidance, and technical training during the after-sales phase. We have a well-established after-sales service system in place. In the event of any confirmed membrane quality defects, we offer prompt replacement or refunds, ensuring a truly worry-free customer experience.

Direct Supply from the Manufacturer

Agents receive factory-direct pricing, bypassing all intermediaries, which ensures maximum profitability.

Exceptional Value and Market Recognition

Our new first-tier brand products are highly recognized by target customers, offer affordable pricing, and deliver strong profit margins for distributors.

Exclusive Regional Protection

FFM INC. implements a unique exclusive agency model, selecting only one qualified partner per region. This approach eliminates internal competition within the same area and safeguards the interests and market share of our agency partners.

Extensive Product Range

FFM INC. offers a comprehensive portfolio of products, including reverse osmosis membranes, nanofiltration membranes, hollow fiber ultrafiltration membranes, submerged MBR membranes, DTRO membranes, flat sheet membranes, tubular membranes, and a full range of water treatment chemicals. For the biomedical industry, we also provide specialized separation membranes that are resistant to acids, alkalis, and solvents, designed to meet the strictest application requirements. We are well-equipped to serve even the most demanding customers in any region.

LEAD THE MARKET WITH AN INDUSTRY LEADER

FFM INC. brings you cutting-edge filter membrane technology and an exclusive 14-month extended performance warranty.

Follow Us for the Latest News and Innovations

Contact Us on WeChat for Quick Assistance

美国富膜股份有限公司 FFMINC.

Address: 6547 N Academy Blvd #2266, Colorado Springs, CO 80918 United States

Tel:(303)871-2010

富膜技术（北京）有限公司 FFM Technology(Beijing)Co.,Ltd.

Address: 15A01,15 Floor,No.4 Fufeng Road,Fengtai Science and Technology Park,Beijing.

Hotline:400-699-6186

www.ffmembrane.cn