



上海膜芮科技集团有限公司 Shanghai Morui Technology Group Co., Ltd



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上海膜芮科技集团有限公司
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公司介绍 Company Profile

上海膜芮(MORUI)科技集团有限公司是一家专业从事膜产品、净化设备的研发、生产、销售和服务的国际化环保科技型企业,旗下拥有多家实体公司。

公司拥有先进的制膜核心技术,专业的技术团队已有30多年的生产实践经验,对制膜材料成功的进行改性,制造出更高品质的系列膜产品。

公司的系列膜产品有:微滤膜组件(MBR),超滤膜组件,纳滤膜组件,反渗透膜组件,海水膜组件及各类净化设备系统。

公司的膜产品及净化设备销往海外60多个国家,产品具有性能稳定、智能化程度高、产水通量大、衰减小、使用寿命长等优点,已被国内外水处理行业的众多用户认可。

膜芮公司拥有完整的质量管理体系,在参照国际先进标准的基础上,制定出了符合本公司产品优点的高要求产品质量管理体系。

Shanghai MORUI Technology Group Co., Ltd. is an international environmental technology-based enterprise specializing in the R&D, production, sales and service of membrane products and purification equipment. It owns several entities.

The company has advanced membrane-making core technology, and a professional technical team has over 30 years of practical experience in production. It has successfully modified membrane-making materials to produce a series of high-quality membrane products.

The company's series of membrane products include MBR Membrane, Hollow Fiber UF Membrane, Nano Membrane, Reverse Osmosis Membrane, Seawater Membrane and various Purification Equipment Systems.

The company's membrane products are sold to over 60 countries. The products have the advantages of stable performance, large flux, small attenuation, and long service life, which have been recognized by many users in the water treatment industry at home and abroad.

Morui has a complete quality management system. On the basis of referring to international advanced standards, it has formulated a high-demand product quality management system that meets the advantages of the company's products.

认证资料



我公司已向国家知识产权局申请获得近百项专利,并取得多个资质证书。

Our company has applied for about hundreded patents from the State Intellectual Property Office and obtained multiple quality certificates.

中空纤维超滤膜
Hollow Fiber Ultrafiltration Membrane

参数 Parameter	MR-1060-50
设计通量 ^① (L/m²/h) Design flux ^① (L/m²/h)	40~120
产水污染指数 ^② (SDI ₁₅) Silt Density Index ^② (SDI ₁₅)	<3
预期过滤浊度 ^③ (NTU) Outflow turbidity ^③ (NTU)	<<1
大肠杆菌去除率(log) E. coli removal rate (log)	>6
病毒去除率 (log) Virus removal rate (log)	>4
膜材质及类型 Membrane materialsand types	PES、PS、PVC、PAN、PVDF内外压式结构 PES, PS, PVC, PAN , PVDF Internal and external pressure structure
公称切割分子量(Dalton) Molecular weight cutoff(dalton)	100,000
膜丝内、外径(mm) Filament inner/ outer diameter(mm)	1.0/1.6
组件公称面积(m²) Effective membrane area (m²)	50
最高进水压力(MPa) Max.inflow pressure (MPa)	0.3
最高工作温度(°C) Max. operating temp.(°C)	40°C
耐受PH值范围 Inflow pH range	PES/PS 2-12, PVC/PAN 3-9
反洗压力(MPa) Backwash pressure(MPa)	<0.2
反洗流量(L/m²/h) Backwash flow(L/m²/h)	100-200

①根据进水条件而定 ②③指进水浊度<20NTU时的测试值
①Depending on water conditions
②③Refers to the test data when the influent turbidity <20NTU

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中空纤维超滤膜
Hollow Fiber Ultrafiltration Membrane

参数 Parameter	MR-1060-50×2
设计通量 ^① (L/m²/h) Design flux ^① (L/m²/h)	40~120
产水污染指数 ^② (SDI ₁₅) Silt Density Index ^② (SDI ₁₅)	<3
预期过滤浊度 ^③ (NTU) Outflow turbidity ^③ (NTU)	<<1
大肠杆菌去除率(log) E. coli removal rate (log)	>6
病毒去除率 (log) Virus removal rate (log)	>4
膜材质及类型 Membrane materialsand types	PES、PS、PVC、PAN、PVDF内外压式结构 PES, PS, PVC, PAN , PVDF Internal and external pressure structure
公称切割分子量(Dalton) Molecular weight cutoff(dalton)	100,000
膜丝内、外径(mm) Filament inner/ outer diameter(mm)	1.0/1.6
组件公称面积(m²) Effective membrane area (m²)	50×2
最高进水压力(MPa) Max.inflow pressure (MPa)	0.3
最高工作温度(°C) Max. operating temp.(°C)	40°C
耐受PH值范围 Inflow pH range	PES/PS 2-12, PVC/PAN 3-9
反洗压力(MPa) Backwash pressure(MPa)	<0.2
反洗流量(L/m²/h) Backwash flow(L/m²/h)	100-200

①根据进水条件而定 ②③指进水浊度<20NTU时的测试值
①Depending on water conditions
②③Refers to the test data when the influent turbidity <20NTU

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中空纤维超滤膜
Hollow Fiber Ultrafiltration Membrane

参数 Parameter		
型号 Model	MRW-0860	MRW-0880
设计通量(L/m²/h) Design flux(L/m²/h)	40-120	40-120
产水污染指数(SDI ₁₅) Silt Density Index(SDI ₁₅)	<3	<3
预期过滤浊度(NTU) Outflow turbidity(NTU)	0.1	0.1
大肠杆菌去除率(log) E. coli removal rate (log)	>6	>6
病毒去除率(log) Virus removal rate (log)	>6	>6
膜材质及类型 Membrane materialsand types	PVDF外压式 PVDF outside-in	PVDF外压式 PVDF outside-in
公称切割分子量(Dalton) Molecular weight cutoff(dalton)	6000-150000	
膜丝内、外径(mm) Filament inner/ outer diameter(mm)	0.8/1.4,0.7/1.3	
组件面积(m²) Effective membrane area (m²)	51	71
最高进水压力(Mpa) Max.inflow pressure (MPa)	0.6	0.6
最高工作温度(°C) Max. operating temp.(°C)	45	45
pH值范围 pH range	2~11	2~11

注意：①使用本产品并不对水中去除病毒、大肠杆菌提供质保，因为病毒和大肠杆菌的有效去除取决于整个过滤系统的设计配置及运行和正常维护。
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Note: ①The use of this product does not provide a warranty on the removal of viruses and E. coli in water,because the effective removal of viruses and E. coli depends on the design, operation and normal maintenanc eof the entire filtration system.
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卷式超滤
Spiral Wound UF memberane

型号 Model	UFS-4040	UFS-8040
进料量(L/min) Inflow Influx(L/min)	95	303
产水污染指数(SDI ₁₅) Produced waterpollution index(SDI ₁₅)	<3	<3
预期过滤浊度(NTU) Permeate turbidity(NTU)	<0.1	<0.1
过滤方式 Filter type	错流过滤 cross-flow filtration	
膜材质 Membrane materials	PVDF、PSU、PSF	PVDF、PSU、PSF
格网(mil) Grid	031	031
公称切割分子量(Dalton) Molecular weight cutoff (dalton)	6000-150000	6000-150000
建议操作压力(Mpa) ptimal operate pressure(Mpa)	0.05-0.6	0.05-0.6
最高进水压力(MPa) Max. inflow pressure (MPa)	0.8	0.8
最高工作温度(°C) Max. operating temperature(°C)	45	45
pH值范围 PH range	2~11	2~11

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Note: ①The use of this product does not provide a warranty on the removal of viruses and E. coli in water,because the effective removal of viruses and E. coli depends on the design, operation and normal maintenanc eof the entire filtration system.
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MBR组件型号

MBR Module model

型号 Model	MR313/MR350	MR227/MR250	MR113/MR125	MR057
尺寸H*L*W(mm) Size H*L*W(mm)	2000*1250*30	1500*1250*30	1500*680*30	1125*480*25
膜面积(m²/片) Effective Area(m²/piece)	31.3/35.0	22.7/25.0	11.3/12.5	5.7
膜丝外径(mm) OD(mm)	2.5/2.0	2.5/2.0	2.5/2.0	2.0
平均孔径(µM) Nominal pore size(µM)	0.2/0.065	0.2/0.065	0.2/0.065	0.2/0.065
支撑管 Support Pipe Material	SUS(304/316)	SUS(304/316)	SUS(304/316)	SUS(304/316)

型号 Model	MR010-1	MR015-1	MR020-1
尺寸H*L*W(mm) Size H*L*W(mm)	1000*534*46	1500*534*46	2000*534*46
膜面积(m²/片) Effective Area(m²/piece)	10/12.5	15/20	20/30
膜丝外径(mm) OD(mm)	2.5/2.0	2.5/2.0	2.5/2.0
平均孔径(µM) Nominal pore size(µM)	0.2/0.065	0.2/0.065	0.2/0.065
最大定制面积 Maximum custom area	16.5	26.5	34.6

型号 Model	MR-14-1523	MR-18-2000	MR-35-2000
尺寸H*L*W(mm) Size H*L*W(mm)	1523*568*45	2000*568*45	2000*785*45
有效膜面积(m²/片) Effective Area(m²/piece)	14	18	35
膜丝外径(mm) OD(mm)	2.5/2.0		
平均孔径(µM) Nominal pore size(µM)	0.2		
操作压力 operating pressure	-0.02~-0.05		

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MBR膜性能参数

MBR Module performance parameter

MBR产品性能参数 MBR Module performance parameter			
通量 flux	10~40 LMH	工作温度 Operating temperature	10-35℃
过滤方式 filter type	负压抽吸 negative-pressure suction	运行跨膜压差 maximum Trans Membrane Pressure Drop	10-60 Kpa
材质 material	PVDF	PH耐受范围 PH range	3~9
产品类型 product type	加强性中空纤维膜 reinforced hollow fiber membrane	Cl-最大耐受 Max Cl	5000ppm
平均孔径 Average pore size	0.2µm微滤	产水浊度 water turbidity	<3NTU
	0.065µm超滤		<1NTU

如需详细设计资料请向本公司索取;由于各地水质不同, 以上参数仅供参考
More detailed design information, ask the company; due to the different water quality in different places, the above parameters are for reference only
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纳滤膜
Nanofiltration Membrane

型号 Model	NF30-4040	NF30-8040	NF90-4040	NF90-8040
有效膜面积ft²(m²) Effective membrane area ft²(m²)	80(7.4)	400(37.2)	80(7.4)	400(37.2)
操作压力psi(Mpa) Operating pressure psi(Mpa)	100(0.69)	100(0.69)	100(0.69)	100(0.69)
脱盐率(%) Salt rejection(%)	40-60	40-60	80-95	80-95
回收率(%) Recovery rate(%)	15	15	15	15
最高操作进水温度(°C) Max. operating temperature(°C)	45	45	45	45
最大进水流量GPM(m³/h) Max. Feed Flow GPM(m³/h)	14(3.2)	80(18)	14(3.2)	80(18)
连续运行时进水PH值范围 Continuous runningwater pH range	3~10	3~10	3~10	3~10
测试液浓度 (ppm) Test water concentration (ppm)	2000	2000	2000	2000

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工业反渗透膜
Industrial Reverse Osmosis Membrane

型号 Model	LP-4040	LP-8040	BW-4040	BW-8040
有效膜面积ft²(m²) Effective membrane area ft²(m²)	85(7.9)	400(37)	85(7.9)	400(37)
操作压力psi(Mpa) Operating pressure psi(Mpa)	150(1.05)	150(1.05)	225(1.55)	225(1.55)
脱盐率(%) Salt rejection(%)	99.2	99.2	99.6	99.6
回收率(%) Recovery rate(%)	15	15	15	15
最高操作进水温度(°C) Max. operating temperature(°C)	45	45	45	45
最大进水流量GPM(m³/h) Max. Feed Flow GPM(m³/h)	15(3.4)	80(18)	15(3.4)	80(18)
连续运行时进水PH值范围 Continuous runningwater pH range	2~11	2~11	2~11	2~11
测试液浓度 (ppm) Test water concentration (ppm)	1500	1500	2000	2000

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海水淡化膜
Seawater Membrane

型号 Model	SW-4040	SW-8040
有效膜面积ft²(m²) Effective membrane area ft²(m²)	85(7.9)	380(35.2)
测试压力psi(Mpa) Test pressure psi(Mpa)	800(5.5)	800(5.5)
脱盐率(%) Salt rejection(%)	99.5	99.8
脱硼率(%) Boron-removing rate(%)	92	92
回收率(%) Recovery rate(%)	8	8
最高操作进水温度(°C) Max. operating temperature(°C)	45	45
连续运行时进水PH值范围 Continuous runningwater pH range	2~11	2~11
化学清洗时进水PH值范围 Chemical cleaningwater pH range	2~12	2~12
测试液浓度 (ppm) Test water concentration (ppm)	32000 mg/L(as NaCl)	32000 mg/L(as NaCl)

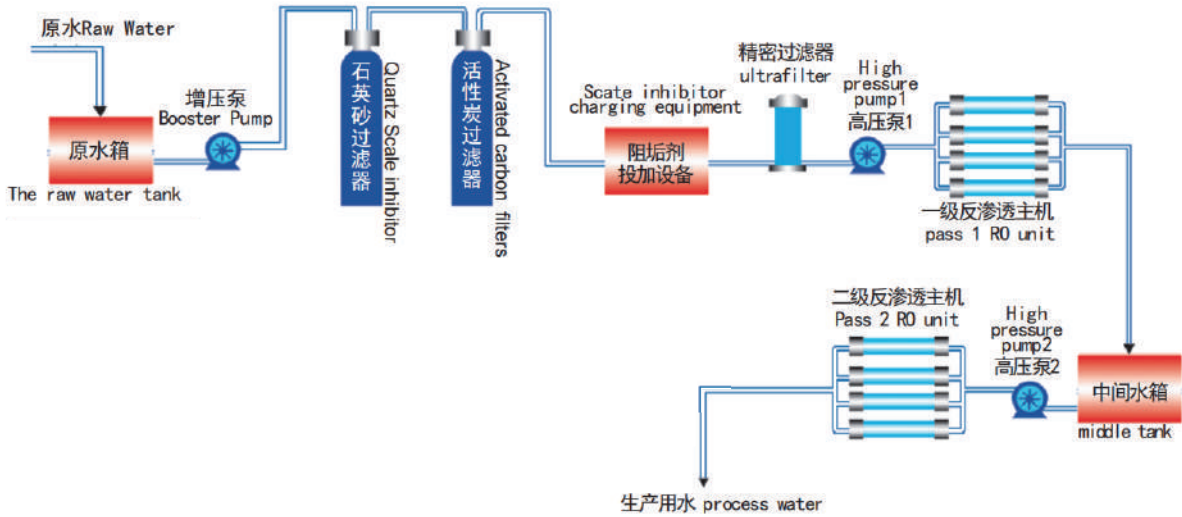
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反渗透设备
RO Equipment

反渗透设备适用于食品、饮料、化工、医院、电子等行业,也可作为社区、工业区、油田等净水屋的核心设备。反渗透是当今世界上最先进和最节能有效的膜分离技术。它主要利用半渗透膜的渗透原理,通过一定的方式给它施加一种反于自然渗透方向的力,使浓溶液中的水向稀溶液中渗透,这种方式称为反渗透。由反渗透元件组成的装置为反渗透装置。由于反渗透膜的膜孔径非常小因此能够有效地去除水中的溶解盐类、胶体、微生物、有机物等(去除率高达97-98%)。系统具有出水水质好、耗能低、无污染、工艺简单、操作简便等特点。

Reverse osmosis equipment is suitable for food, beverage, chemical, hospital, electronics and other industnes. t can also be used as the coreequipment of water purficaton houses in communitie, industrial areas, olfelds, etc. Reverse osmosis is the most advanced and energy-eficienmembrane separation technology in the word today. t mainly uses the penetration principle of semi-permeable membrane to exert a force against thedirection of natural penetration in a certain way, so that water in concentrated solufon penetrates nto dilute solution. This method is called reverse os-mosis. The device composed of reverse osmosis element is a reverse osmosis device.Because of its very small pore size, RO membranes can effectively remove dissolved salts, coloids, microorganisms, organic mater in water (removal rate as high as 97-98%). The system has the characteristicsofgood effluent quality, low energy consumption, no pollution, simple process and easy operation.



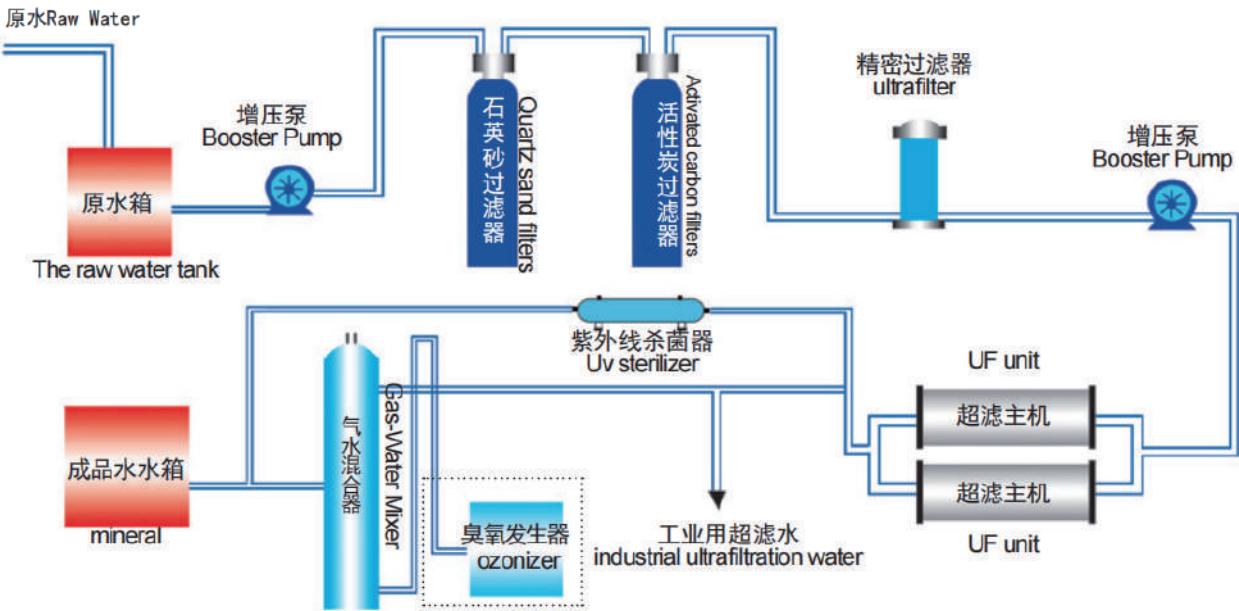
超滤设备
UITRA-FILTRETION EQUIPMENT

超滤膜 UF membrane

超滤过程因无相变,分离系数大,操作温度在室温上下,操作简便和设备较简单等特点,已广泛应用于乳品工业、饮用水制备、污水治理、食品加工等众多行业。

The ultrafiltration process has been widely used in many industries such as dairy industry, drinking water preparation, sewage treatment, food processing, etc. due to the characteristics of no phase change, large separation coefficient, operating temperature around room temperature, easy operation and relatively simple equipment.

工艺流程图 Techniques flow drawing



工程案例
Project Case



1000吨每小时超滤项目
1000 tons per hour UF system project



2*60吨每小时除盐项目
2*60 tons per hour desalination project



2*80吨每小时纯水项目
2* 80 tons per hour pure water project



150吨每小时污水项目
150 tons per hour sewage project



日处理10000吨污水项目
Daily treatment of 10,000 tons of sewage project



500吨每小时电镀污水项目
500 tons per hour electroplating sewage project