

MING ZHOU ENVIRONMENTAL PROTECTION

无锡市明洲机械环保设备厂

水处理设备AAA级知名高新企业

无锡市明洲机械环保设备厂

Wuxi Mingzhou Environmental Protection Machinery&equipment Factory

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我们的服务

Our service

我们愿以“技术创新、质量创优、服务创佳”的原则，以一流的产品和优质的服务与各界同仁携手并进，共创民族环保事业的未来！

With the principle of “innovative technology, excellent quality and best service”, they wish to make progress with all friends and create a bright future for the nation’s environmental protection cause together!

关于明洲

Company Introduction

无锡市明洲机械环保设备厂是专业水处理设计、研发、制造、调试运行的江苏省高新技术企业，公司位于江苏省无锡市惠山区前洲镇工业区，于2010年通过了ISO9001:2008版国际质量体系认证，产品取得欧盟CE质量认证并持有江苏省环保部门颁发的环境污染治理乙级资质证书。

公司有三十年专业制造环保设备的经验，最早可追溯到1978年联合上海第九设计院共同研制、开发了我国第一台净化水处理设备，是无锡市第一家水处理生产厂家。经过三十年的发展，公司已逐渐成长为一具备工程设计和设备制造能力的集污水处理、净化水、高纯水、中水回用、节能再利用等为一体的综合性环保企业。公司自主研制开发的发明专利已多达数十项，承接各类水处理设备及工程，同时对非标设备设计、加工、安装，我公司拥有杰出的管理人才和经验丰富的技术人员，产品和项目遍及欧美、中东、东南亚、南美等地区，在业界建立起了质量上乘的口碑。

公司占地面积：18000平方米，房屋建筑面积：10000平方米，厂房建筑面积：8000平方米。固定资产2000万元，年产值5000万元，出口250万美金。

As an integration of design, research and development, manufacturing, debugging and operating, Wuxi Mingzhou Environmental Protection Machinery&Equipment Factory is a grade AAA Jiangsu provincial level high-tech enterprise on water treatment. It is ocated at Qian zhou industrial park, Huishan district, Wuxi city, Jiangsu province.

In 2010, it passed the certification of ISO9001:2008 Quality Management System. Their product obtained CE quality certification and they also have grade B qualification certification of environmental pollution treatment issued by Jiangsu provincial environmental protection department.They have rich experience in the production of water treatment equipment for about 30 years, which can be traced back to the year of 1978 when the first water purification equipment in China was developed and manufactured through the common effortss of our company and Shanghai 9th designing institute. They are the first water treatment equipment manufacturer in Wuxi. After 30 years’ development, they have become a comprehensive environment protection enterprise, integrating waste water treatment, water purification, ultra-pure water preparation, water reuse, energy saving and reuse. They have got dozens of patents through their independent research and development and they also have undertaken various kinds of projects. Meanwhile they have outstanding management personnel and experienced technical personnel for non-standard equipment design, processing and installation. Their products and projects cover Europe, America, Middle East, Southeast Asia, South America and other regions, which enables them to establish a good quality reputation in this industry.

The company covers an area of 18,000m², among which the housing construction area is 10,000m² and workshop area is 8,000m². Their fixed assets is 20 million yuan, annual output value is 50 million yuan and export value is 2million and 500 thousand dollars.





领先的品质
源于先进的制造手段

Leading quality
comes from advance manufacturing means

质量方针：
靠技术创明洲品牌，凭质量赢客户满意

Quality policy:
Mingzhou brand depends on technology!
Customers's satisfaction depend on quality!

企业实力

Company Strength

From raw material purchasing,production line,production inspection and delivery,every link are under the strick control of the Mingzhou's professional personnel.So Mingzhou can produce high quality products and put them into the market.And Mingzhou have got good reputation from the industry.

明洲从原材料采购，到线上生产，再到产品检验、出厂，每一个环节都在专业人员的严格控制之下，生产出高品质的产品，投放市场得到客户的一致好评。

锻造中国品牌 树立明洲丰碑

Forge Chinese brand,set up Mingzhou monument !



高性能的设备，源于先进的生产动力，现代化的制造规模 结合精湛的工艺技术，才确保明洲的产品质量。

一直以来明洲严格按照质量管理体系的标准模式实行管理，一直秉承：科学管理、生产优质、持续创新、铸造品牌“的质量方针，明洲坚信：追求品质，永无止境”。正是因为有了这些坚韧不拔的精神，才缔造了明洲不凡的品质。

明洲始终坚持以人为本 致力于创造平等 互信 和谐的工作环境 为员工提供展示才华的舞台。

High performance equipment come from the advanced production power.To ensure our product quality,the modern manufacturing scale must combine with superb technology.

Mingzhou has been in strict quality management system to implement management.They have been in scientific management,high-quality production,continuous innovation and brand casting.They firmly believe that"Seeking quality without end".It is because of these firm and indomitable spirit that create the extraordinary quality of the Mingzhou.

They always adhere"people-oriented" They devote themself to creating a harmonious working environment of equality and mutual trust.They provide the stages for workers to show their talents.

企业荣誉

company Honors



GLORIES WITNESS STRENGTH AND
STRENGTH WITNESS BRILLIANT

荣誉见证实力，实力见证辉煌



公司荣誉史

HISTORY OF COMPANY HONOR

1978年

联合上海第九设计院和上海同济大学等专家，共同研制开发了中国第一台净水处理设备。

Together with the common effort of Shanghai 9th designing institute, Shanghai Tongji University and other experts and Mingzhou, the first water purification equipment in China was developed and manufactured.

2001年

成为无锡市环保产业协会理事单位

Mingzhou becomes the governing units of Wuxi City Environmental Protection Industry Association.

2001年

开发一种多用途斜管砂滤池，
专利号：ZL01263475.1

a kind of multi-purpose inclined tube sand filter was developed, whose patent number is : ZL01263475.1

2007年

被评为江苏省高新技术企业

Mingzhou was rated as high-tech enterprises in Jiangsu Province

2007年

同南京大学专家研发碱废水处理及回收工艺

Alkaline wastewater treatment and recovery process was developed with the common effort of experts in Nanjing University

2008年

同河南大学专家研发高浓度洗毛废水处理及回收工艺

High concentration wool scouring wastewater treatment and recovery process was developed with common effort of experts in Henan University

2010年

顺利通过了ISO9001:2008版国际质量体系认证

Mingzhou passed the ISO9001: 2008 international quality system certification

2010年

发明了全自动封闭连续式物料处理设备，专利号：ZL201010291920.5

Automatic closed continuous material processing equipment was developed, whose patent number is : ZL201010291920.5

2010年

发明了全自动封闭连续烘干式球磨筛选机，专利号：ZL201010291952.5

Automatic closed continuous drying type ball milling screen machine was developed, whose patent number is : ZL201010291952.5

2013年

再度获得江苏省环境污染治理资质证书

Mingzhou was issued the environmental pollution control qualification certificate of Jiangsu province

2013年

发明了污泥造粒机，专利号：ZL201310777814.9

The sludge granulator was invented, whose patent number is ZL201310777814.9

2015年

取得欧盟CE认证

Mingzhou's product passed the CE certificate

CONTENTS

目录

一、净化过滤设备/Water purification filtration equipment

1.MJ-PF 净水器/MJ-PF Water purifier	01
2.MJ-LJY恒压涡流式净化装置 / MJ-LJY Water purifier	02
3.MJ-ZJL全自动净水器/MJ-ZJL Automatic water purifier	03
4.MG-SY机械过滤器/MG-SY Mechanical filter	04
5.MG-TY活性炭过滤器/MG-TY Activated carbon filter	05
6.MG-BY保安过滤器/MG-BY Cartridge filter	06
7.MG-ZGL全自动过滤器/MG-ZGL Automatic valveless filter	07
8.MG-CSF连续式砂过滤/MG-CSF Continuous sand filter	08
9.MG-GLX 纤维球过滤器/MG-GLX Fiber ball filter	09
10.MG-VF 竖布滤池/MG-VF Riser fiber cloth media filter tank	10
11. MG-BD布袋过滤器/MG-BD Bag filter	11

二、软化水及纯水设备/Water soften equipment&pure water equipment

1.MR-JNS逆流再生钠离子交换器/MR-JNS Up-flow regeneration sodium ion exchanger	12
2.MR-JNZ全自动软化水装置/MR-JNZ Automatic water softener	13
3.MC-JYC阴、阳离子交换器/MC-JYC Anion,cation exchanger	14
4.MC-JYH阴、阳混合离子交换器/MC-JYH anion and cation mixing exchanger	15
5.MC-TQ脱气塔/MC-TQ Degassing tower	16
6.MC-CL 超滤/MC-CL Ultrafiltration	17
7.MC-FST反渗透/MC-FST Reverse osmosis	18
8.MC-EDI装置/MC-EDI device	18

三、拦污设备/Waste Interceptor equipment

1.MW-HG回转式格栅/MW-HG Automatic bar screen	19
2.MW-GJW 网板格栅/MW-GJW Mesh plate bar screen	20
3.MW-SL水力筛/MW-SL Hydraulic screen	21
4.MW-ZG转鼓式格栅（内进水）/MW-ZG Rotary drum bar screen(internal water intake)	22
5.MW-DFC转鼓式格栅（外进水）/MW-DFC Rotary drum bar screen(external water intake)	23

四、排泥设备/Sludge discharging equipment

1.MW-LML高效沉淀池/MW-LML High efficiency sedimentation tank	24
2.MW-ZXG中心传动刮泥机/MW-ZXG Central driving sludge scraper	25
3.MW-ZXN中心传动浓缩机/MW-ZXN Central driving thickener	26
4.MW-ZBG周边传动刮泥机/MW-ZBG Periphery driving sludge scraper	27
5.MW-PHX行车式吸泥机/MW-PHX Traveling type sludge suction machine	28
6.MW-PGT抬耙式刮泥机/MW-PGT Rake lifting type sludge scraper	29

五、固液分离设备/Solid-liquid separation equipment

1.MW-QF高效气浮/MW-QF High efficiency air flotation	30
2.MW-QCF浅层气浮/MW-QCF Shallow air flotation	31
3.MW-QFS竖流式气浮/MW-QFS Vertical Current flotation reactor	32
4.MW-GSF高速气浮/MW-GSF High speed air flotation	33
5.MW-PSX 旋转式撇水器/MW-PSX Rotary decanter	34
6.MW-LSF砂水分离器/MW-LSF Sand-water separator	35

六、污泥处理设备/Sludge treatment equipment

1.MW-WS无轴螺旋输送机/MW-WS Shaftless screw conveyor	36
2.MW-DY带式压滤机/MW-DY Belt type filter press	37
3.MW-DYN带式浓缩压滤机/MW-DYN Belt type thickener filter press	38
4.MW-DR叠螺污泥脱水机/MW-DR Overlapping screw sludge dewatering machine	39

七、污水处理成套设备/Complete set of equipment for sewage treatment system

1.MW-UASB厌氧反应器/MW-UASB Anaerobic reactor	40
2.MW-IC厌氧反应器/MW-IC Anaerobic reactor	41
3.MW-BOT沼气火炬/MW-BOT Biogas torch	42
4.MW-BAF生物曝气滤池/MW-BAF Biological aerated filter	43
5.MW-AO地理式污水处理一体化设备/ MW-AO Underground sewage treatment integrative equipment	44

八、加药消毒设备/Dosing disinfection equipment

1.MQ-JYZ加药装置 /MQ-JYZ Dosing device	45
2.MQ-CXD臭氧加压消毒系统/MQ-CXD Ozone pressurizing disinfection system	45
3.MQ-PT全自动加药装置/ MQ-PT Automatic dosing device	46
4.MQ-GSF管式反应器/MQ-GSF Tubular reactor	47
5.MQ-ZW紫外线消毒器 /MQ-ZW Ultraviolet sterilizer	48

1 MJ-PF 净水器

MJ-PF Water purifier



- MJ-PF净水器是一种组合混凝、反应、沉淀、澄清、过滤等几道工艺于一体的净化水设备。
- MJ-PF净水器建立给水处理站，投资省、上马快、占地少、管理方便，适用于小城镇、农村以及中小型工矿企业的给水处理。
- 当水浊度为150mg/l(瞬时可达500mg/l时)，经处理后的浊度可小于5mg/l。

- MJ-PF water purifier is a kind of water purification equipment that combines several processes together, including precipitation, reaction, clarification, filtering and so on.
- When MJ-PF water purifier is used to build feed water treatment plant, it has such features as low investment, quick start, small floor space and easy management, suitable for the feed water treatment in small town, rural area as well as small and medium-sized industrial and mining enterprises.
- When raw water turbidness is equal or smaller than 150mg/l (transient up to 500 mg/l), after treatment, the turbidness is smaller than 5 mg/l.

► MJ-PF净水器主要技术参数 The main technical parameters

序号 No.	型号 Model	处理量 Capacity (m³/h)	外形尺寸 Dimension (mm)	进水管径 Inlet Diameter (mm)	出水管径 Outlet Diameter (mm)	运行重量 Operating Weight (t)	备注 Remark
1	MJ-PF-20	20	Φ2000 H4400	65	80	15.6	本数据仅供参考，实际数据会根据水质情况而定。 This data is for reference only, actual data will be based on water quality.
2	MJ-PF-30	30	Φ2500 H4400	80	100	23.7	
3	MJ-PF-40	40	Φ2800 H4400	80	100	29.4	
4	MJ-PF-50	50	Φ3200 H4400	80	100	38.5	
5	MJ-PF-60	60	Φ3400 H4400	100	125	43.2	
6	MJ-PF-70	70	Φ3800 H4400	100	125	53.3	
7	MJ-PF-80	80	Φ4000 H4400	100	125	58.9	
8	MJ-PF-90	90	Φ4300 H4400	100	125	67.6	
9	MJ-PF-100	100	Φ4500 H4400	100	125	73.6	

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

2 MJ-LJY恒压涡流式净化装置

MJ-LJY Water purifier

- 本公司专利产品MJ-LJY恒压涡流式净化装置，属国内先进的净化水处理设备。其特点是采用多仓段设计，实现供水与反冲洗过程互不影响，解决了传统给水设备反冲洗时即停止供水的状况，同时省略了反冲洗水池，节省了基建费用。
- 该设备特别适合与后续处理设备配套使用，节约了二级提升的动力消耗，降低系统的运行费用。同时适用于江、河、湖塘水、煤矿用水的净化。
- 该设备获得了多项国家专利，专利号分别为：
- MJ-LJY vortex water purifier is our company's patented product, which is an advanced water treatment equipment in China, whose features are as follows: it adopts multi-chamber design, so the process of water supply and backflush won't affect each other, solving the problem of conventional feed water treatment equipment's weak point, i.e., stopping supplying water when backflushing. Meantime, backflush tank is not necessary any more, saving construction cost.
- By combined application with subsequent processing equipments, it can save the power consumption of two-stage hoisting and reduce the running cost of the system. Meantime, it's also suitable for the purification of river water, lake water and coal mine water.
- This equipment has obtained three national patents, whose patent numbers are

ZL00219823.1

ZL01208740.8

ZL01208442.5



► MJ-LJY恒压涡流式净化装置主要技术参数/The main technical parameters

序号 No.	型号 Model	处理量 Capacity (m³/h)	外形尺寸 Dimension (mm)	进水管径 Inlet Diameter (mm)	出水管径 Outlet Diameter (mm)	运行重量 Operating Weight (t)	备注 Remark
1	MJ-LJY-20	20	Φ2000 H5230	65	65	16.2	本数据仅供参考，实际数据会根据水质情况而定。 This data is for reference only, actual data will be based on water quality.
2	MJ-LJY-30	30	Φ2400 H5425	80	80	33.7	
3	MJ-LJY-40	40	Φ2800 H5525	80	80	30.3	
4	MJ-LJY-50	50	Φ3000 H5590	80	80	40.1	
5	MJ-LJY-60	60	Φ3400 H5695	100	100	44.9	
6	MJ-LJY-70	70	Φ3600 H5740	100	100	50	
7	MJ-LJY-80	80	Φ3800 H5790	100	100	55.4	
8	MJ-LJY-90	90	Φ4000 H5840	100	100	61.1	
9	MJ-LJY-100	100	Φ4200 H5890	100	100	67	

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

3 MJ-ZJL全自动净水器 MJ-ZJL Automatic water purifier

无阀滤池系列产品广泛应用于地表水和地下水的净化、循环水旁流过滤、生产废水除悬浮杂质、有机污水经生化处理和二次沉淀池处理的续过滤以及室内游泳池水的过滤，同时可以满足大型循环冷却水系统旁过滤处理要求，是一种理想的水净化设备。广泛应用于石油、化工、冶金、电力、炼油、纺织、印染等行业。

MJ-ZJL automatic water purifier is widely used in the purification of surface water and groundwater, circulating water's bypath filtration, the removal of suspended matters in factory effluent, organic sewage's subsequent filtration after biochemical treatment and secondary sedimentation tank treatment, as well as the indoor swimming pool's filtration. Meantime, it can also meet the side stream filtration requirement of large-scaled circulating cooling water system. It is an ideal water purification equipment, broadly used in petroleum, chemical, metallurgy, power, oil refining, textile, printing&dyeing industry, etc.

► 适用范围/Scope of application:

- 用于自来水厂过滤水处理时，进水悬浮物宜小于150mg/L,出水悬浮物小于3mg/L。
- 用于循环冷却水旁过滤处理时，进水悬浮物一般在150-300mg/L,出水悬浮物一般小于5mg/L。
- 用于“加药凝聚剂处理”时，进水悬浮物500-1000mg/L,出水悬浮物一般小于5mg/L。
- 尺寸及其它参数可根据用户需要特别设计。



- When used for the water filtration in waterworks, the influent water's SS content should be less than 150mg/L, and output water's SS content is less than 3mg/L.
- When used for the side stream filtration of circulating cooling water, the influent water's SS is usually 150-300mg/L, and output water's SS is usually less than 5mg/L.
- When used in “coagulant-adding treatment”, influent water's SS is 500-1000mg/L, and output water's SS is generally less than 5mg/L.
- We can specially design according to client's specific requirements to dimensions and parameters.

► MJ-ZJL全自动净水器主要技术参数/The main technical parameters

序号 No.	型号 Model	处理量 Capacity (m³/h)	外形尺寸 Dimension (mm)	进水管径 Inlet Diameter (mm)	出水管径 Outlet Diameter (mm)	运行重量 Operating Weight (t)	备注 Remark
1	MJ-ZJL-100	100	8x4.6x4.35	100	150	163	本数据仅供参考，实际数据会根据水质情况而定 This data is for reference only, actual data will be based on water quality.
2	MJ-ZJL-150	150	11x4.6x4.35	125	200	226	
3	MJ-ZJL-200	200	14x4.6x4.35	150	250	281	
4	MJ-ZJL-250	250	17x4.6x4.35	200	300	335	

注：特殊规格可根据需要定制。

Remark: Special requirements can be customized.

4 MG-SY机械过滤器 MG-SY Mechanical filter

体积小
Small Size

流量大
Large Flow

纳污量大
Strong Pollutant
Carrying
Capacity

精度高
High Precision

操作简便
Easy Operation



- MG-SY机械过滤器是纯水设备的前期处理和水净化系统的重要组成部分，其材质有钢衬胶或不锈钢（根据用户需要采用不同的材质）。
- MG-SY系列机械过滤器是密度式过滤器（可分为压力式和无压式），具有体积小，流量大，纳污量大，精度高，操作简便等优点，能有效去除水中杂质，沉淀，悬浮物以及铁锰等。
- 该设备广泛应用于矿泉水、纯水、软化水和饮用水的制取等方面的预处理,也可用于反渗透、电渗析、超滤等前段预处理。

- MG-SY mechanical filter plays an important part in the pretreatment of pure water production as well as in water purification system, whose materials are available in rubber lined steel and stainless steel (using different materials according to user's requirements).
- MG-SY series mechanical filters are density filters(can be classified as pressure type and pressureless type), which are featured with small size, large flow, strong pollutant carrying capacity, high precision, easy operation, etc. They can effectively remove impurities, sediments, suspended substances as well as iron and manganese in the water.
- This equipment is widely used in the pretreatment of mineral water, pure water, softening water and drinking water production, also can be used in the pretreatment of reverse osmosis, electrodialysis, ultrafiltration, etc.

► MG-SY机械过滤器主要技术参数/The main technical parameters

序号 No.	型号 Model	处理量 Capacity (m³/h)	外形尺寸 Dimension (mm)	进水管径 Inlet Diameter (mm)	出水管径 Outlet Diameter (mm)	运行重量 Operating Weight (t)	备注 Remark
1	MG-SY-10	10	Φ1200 H2700	50	50	5.3	本数据仅供参考，实际数据会根据水质情况而定。
2	MG-SY-20	20	Φ1600 H2900	65	65	9.1	
3	MG-SY-30	30	Φ2000 H3100	80	80	13.8	
4	MG-SY-40	40	Φ2400 H3300	80	80	19.7	
5	MG-SY-50	50	Φ2500 H3350	80	80	31.3	This data is for reference only, actual data will be based on water quality.
6	MG-SY-60	60	Φ2800 H3500	100	100	26.5	
7	MG-SY-70	70	Φ3000 H3630	100	100	31.9	
8	MG-SY-80	80	Φ3200 H3730	100	100	36.1	
9	MG-SY-90	90	Φ3400 H3830	100	100	40.6	
10	MG-SY-100	100	Φ3600 H3930	100	100	45.4	
11	MG-SY-120	120	Φ4000 H4130	125	125	56.7	

注：特殊规格可根据需要定制。

Remark: Special requirements can be customized.

5 MG-TY活性炭过滤器 MG-TY Activated carbon filter

MG-TY活性炭过滤器主要是通过活性炭的吸附作用去除聚集在水体中的杂质，主要包括悬浮物，有机物，胶体粒子，油脂，微生物，余氯、异味，色素，重金属离子等。该设备主要用于工矿企业、食堂、宾馆、自来水管厂的饮用水处理，也可以用于有毒有害污水的深度处理。

MG-TY activated carbon filter uses activated carbon to adsorb those impurities in the water, like suspended matters, organic matters, colloid, grease, micro-organism, residual chlorine, odor, color, heavy metal ions, etc. , which is primarily used for the drinking water treatment in industrial and mining enterprises, canteens, hotels and water plants, also can be used for the advanced treatment of the poisonous and harmful sewage.

主要特点/The main characteristics

应用范围广
Broad Application Scope

处理效果好
Good Treatment Effect

占地面积小
Small Occupied Space

工作可靠
Reliable Running

管理方便
Easy Management



MG-TY活性炭过滤器主要技术参数/The main technical parameters

序号 No.	型号 Model	处理量 Capacity (m³/h)	外形尺寸 Dimension (mm)	进水管径 Inlet Diameter (mm)	出水管径 Outlet Diameter (mm)	运行重量 Operating Weight (t)	备注 Remark
1	MG-TY-10	10	Φ1000 H4000	50	50	4.3	本数据仅供参考，实际数据会根据水质情况而定。 This data is for reference only , actual data will be based on water quality.
2	MG-TY-20	20	Φ1300 H4150	65	65	6.8	
3	MG-TY-30	30	Φ1600 H4300	80	80	10	
4	MG-TY-40	40	Φ1900 H4450	80	80	13.8	
5	MG-TY-50	50	Φ2100 H4550	80	80	17.3	
6	MG-TY-60	60	Φ2400 H4700	100	100	22.3	
7	MG-TY-70	70	Φ2500 H4750	100	100	24.1	
8	MG-TY-80	80	Φ2600 H4800	100	100	26	
9	MG-TY-90	90	Φ2800 H4900	100	100	29.9	
10	MG-TY-100	100	Φ3000 H5000	100	100	35.1	
11	MG-TY-150	150	Φ3600 H5330	125	125	39	

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

6 MG-BY保安过滤器 MG-BY Cartridge filter

保安过滤器，又称精密过滤器，筒体一般采用不锈钢材质制造。通常设置在压力过滤器之后，用于去除液体中细小悬浮物、胶体和微粒等，以满足后续工序对进水的要求；有时也设置在全套水处理系统末端，来防止细小微粒进入成品水；同时，也可作为工业污水处理的终端过滤器。

Cartridge filter, also called precision filter, usually adopts stainless steel. It is often set after press filter, used to remove minor suspended matters, colloid and fine particles in the water, so as to meet the feed water requirement of subsequent processes; sometimes, it's installed at the end of a whole water treatment system, preventing fine particles going into product water; meantime, it can also be used as a terminal filter for sewage treatment system. , extensively used in electronics,

应用行业/Industrial Application

该设备适用于对悬浮杂质较低的水进一步净化,广泛适用于:

This equipment is suitable for the treatment of water with little suspended substances extensively used in :



MG-BY保安过滤器主要技术参数/The main technical parameters

序号 No.	型号 Model	滤芯数量 Filter Number (hank)	滤芯尺寸 Filter Size (in)	进出规格 Inlet&Outlet (mm)	工作压力 Working Pressure (MPa)	参考流量 Reference Flow (M)	工作温度 Working Temperature (℃)
1	BY9/10/12-30	9/10/12	30	DN50	0.6-0.75	13.5-16	80℃
	BY9/10/12-40		40			18-24	
2	BY15-30	15	30	DN65		22.5	
	BY15-40		40			30	
3	BY18/20/22-30	18/20/22	30	DN80		27-33	
	BY18/20/22-30		40			36-44	

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

7 MG-ZGL全自动过滤器 MG-ZGL Automatic valveless filter

运行费用低
Low In
Operation Cost

管理方便
Easy In
Management

安全可靠
Safe And Reliable

运行自动化
Automatic
Operation

设备一体化
Equipment
Integration

- MG-ZGL全自动过滤器是在原有的砂过滤的基础上改进而来的，在加强过滤效果的同时，使设备的自动化程度更高。无阀过滤器进水、出水、冲洗及排水均不用阀门，靠水力作用自动进行。
- 该设备具有运行费用低，管理方便，安全可靠，运行自动化、设备一体化的特点。过滤区、分配水箱、清水区、反冲洗水箱等组装一体，结构紧凑，用户只需按要求建设设备基础和接通进出水管即可投入运行。
- 无阀过滤器处理水量自20t/h-500t/h。
- MG-ZGL automatic valveless filter is developed on the basis of former sand filter. While strengthening its filtration effect, the automation degree also becomes much higher. Valveless filter doesn't use valves in water inlet, water outlet, flushing and water drainage, running automatically just by water power.
- It's characteristics are: low in operation cost, easy in management, safe and reliable in performance. In this equipment, filtration area, distribution water tank, clean water area and back-flushing tank are integrated together, thus it has a compact structure. What the users need to do is just building equipment foundation according to the requirements and connect through inlet and outlet pipes, then the equipment can be put into operation.
- The capacity of valveless filter is 20t/h-500t/h.



► MG-ZGL全自动过滤器主要技术参数/The main technical parameters

序号 No.	型号 Model	处理量 Capacity (m³/h)	外形尺寸 Dimension (mm)	罐数 Tank No.	进水管径 Inlet Diameter (mm)	出水管径 Outlet Diameter (mm)	运行重量 Operating Weight (t)	备注 Remark
1	MG-ZGL-30	30	Φ1400 H4400	2	2	80	125	本数据仅供参考，实际数据会根据水质情况而定。 This data is for reference only, actual data will be based on water quality.
2	MG-ZGL-40	40	Φ1600 H4400	2	2	80	100	
3	MG-ZGL-50	50	Φ1800 H4400	2	2	80	100	
4	MG-ZGL-60	60	Φ2000 H4400	2	2	100	150	
5	MG-ZGL-70	70	Φ2200 H4400	2	2	100	150	
6	MG-ZGL-80	80	Φ2400 H4400	2	2	100	150	
7	MG-ZGL-90	90	Φ2500 H4400	2	2	100	150	
8	MG-ZGL-100	100	Φ2600 H4400	2	2	100	150	
9	MG-ZGL-150	150	Φ3200 H4400	2	2	150	200	
10	MG-ZGL-200	200	Φ3600 H4400	2	2	200	250	

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

8 MG-CSF连续式砂过滤 MG-CSF Continuous sand filter

本机种是针对传统式砂滤机的各项缺点改革而成的过滤机。在欧美等先进国家皆已使用多年，本机种除了滤砂与空气外，不需动力机械设备及阀类，所以可降低设备保养所需之人力，物力，另外本机除操作简单，亦可节省人力及能源。尚有以下特点：

- 不需装反洗泵，且反洗滤砂时无需停机。
- 本机之砂床为流动床，故无滤砂结块之虑，因此不需换砂。
- 操作简单又因无辅助元件，所以保养容易。
- 可处理含ss之原水。
- 反洗水量低，仅为处理水量的5%左右，而传统式过滤器为20%左右。



MG-CSF continuous sand filter is developed and improved upon traditional sand filter, which has been used in the Europe, the United States and other advanced countries for many years. Besides sand and air, it doesn't need any power equipment or valves. Therefore, the input of labor and material can be reduced a lot. Moreover, the equipment is easy in operation and can save man power and source. Its characteristics are as follows:

- Backwash pump is unnecessary; needn't stop running when back washing sand.
- The sand bed is a moving one, so we needn't worry about sand caking and need change sand.
- Easy in operation, no supporting components, so it's easy in maintenance.
- It can treat water with a high SS content.
- Low backwash water quantity, it only takes up 5% that of the treatment capacity, while traditional filter takes about 20%.

► 操作原理/Principle of operation

- 原水由过滤泵送入砂滤机，经分水器均匀分散到砂层中并以向上流的方式通过砂层，当水流穿越砂层即完成过滤的行程，经由溢流堰排出本机。
- 滤床所拦阻的ss与污物连同滤砂，利用气动提升泵自底部抽到砂滤机顶部的洗砂器进行滤砂清洗，其原理是当滤砂由洗砂器向下坠落的同时，利用过滤水向上流之相对速度将滤砂上所附著之污物冲洗掉，并把所冲洗下来之污物向上推到废水排水堰排出本机。
- 另外本机向上流的过滤方式及连续洗砂之功能，使原水只短暂的与较脏之砂层接触，可防止污物穿透砂层，而污染水质。
- Raw water is sent into sand filter by filtration pump, which is scattered into sand layer evenly by water separator and flows through the layer in an upstream mode. When water passes through sand layer, the filtration process also finishes. Water is discharged out by overflow weir.
- The SS, dirt and sand are pumped into the sand washer on the top of sand filter by air lifting pump, then washing begins. The principle is: during the process of sand dropping down from the sand filter, the relative speed generated when filtered water flows up will wash away the dirt attached on the sand, then the dirt is pushed to the wastewater discharge weir and expelled from the sand filter.
- In addition, the upflow filtration mode and continuous sand-washing function make water just contacts with the dirty sand layer transiently, which can prevent dirt passing through sand layer and polluting water.

► 应用范围/Application scope

地下水过滤/Underground water filtration

景观水循环过滤/Scenic water circulating filtration

废水放流水过滤/Effluent filtration

废水回收过滤/Wastewater recovery filtration

循环冷却水过滤/Circulating cooling water filtration

地表水过滤/Surface water filtration

► MG-CSF连续式砂过滤主要技术参数/The main technical parameters

序号 No.	型号 Model	直径 Dimension (mm)	总高 Total Height (mm)	过滤面积 Filter Area (m²)	备注 Remark
1	MG-CSF-03	638	2700	0.3	本数据仅供参考，实际数据会根据水质情况而定。 This data is for reference only, actual data will be based on water quality.
2	MG-CSF-07	958	3625	0.7	
3	MG-CSF-15	1435	4450	1.5	
4	MG-CSF-30	1913	5300	3	
5	MG-CSF-50	2551	6350	5	
6	MG-CSF-80	3200	6850	8	

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

9 MG-GLX 纤维球过滤器
MG-GLX Fiber ball filter



纤维球过滤器适用于处理江、河、湖泊及水库等浊度不大于100mg/l的地表水的深度净化处理；同样适用于游泳池循环水处理，废水生物处理后的直接过滤，更适合水源比较紧张的缺水地区给水，使出水水质透明、清洁、卫生。达到国家饮用水水质标准。

Fiber ball filter is suitable for the deep purification treatment of rivers、lakes and reservoirs which turbidity is no more than 100mg/l.It is also suitable for the swimming pool cycling reuse,directly filtration of wastewater which after biological treatment and it is more suitable for the water tight area.It can make the effluent transparent、clean and sanitary which can reach the national standard for drinking quality.



► MG-GLX 纤维球过滤器主要技术参数/The main technical parameters

型号 Model	罐体尺寸 Tank Size Φ×H（mm）	处理流量 Capacity （m³/h）	功率 Power （KW）	接口尺寸Connection Size（mm）			重量 Weight （t）	备注 Remark
				过滤进水 Filter Inlet	反洗出水 Backwash Outlet	排气口 Exhaust Outlet		
MG-GLX400	φ 400×2500	~3.7	1.5	DN40	DN40	DN25	0.4	本数据仅供参考，实际数据会根据水质情况而定。 This data is for reference only , actual data will be based on water quality.
MG-GLX600	φ 600×3000	~8	2	DN40	DN40	DN25	0.6	
MG-GLX800	φ 800×3597	~15	4	DN50	DN50	DN32	0.8	
MG-GLX1000	φ 1000×3764	~20	4	DN65	DN65	DN32	1.2	
MG-GLX1200	φ 1200×4098	~30	4	DN80	DN80	DN32	1.6	
MG-GLX1500	φ 1500×4210	~52	5.5	DN80	DN80	DN32	2.2	
MG-GLX1600	φ 1600×4364	~60	7.5	DN100	DN100	DN32	2.8	
MG-GLX1800	φ 1800×4450	~76	7.5	DN100	DN100	DN32	3.5	
MG-GLX2000	φ 2000×4629	~90	11	DN100	DN100	DN32	4.2	
MG-GLX2200	φ 2200×4800	~113	11	DN125	DN125	DN40	4.5	
MG-GLX2400	φ 2400×5137	~130	15	DN125	DN125	DN40	4.9	
MG-GLX2500	φ 2500×5100	~147	15	DN125	DN125	DN40	5.1	
MG-GLX2600	φ 2600×5282	~160	15	DN125	DN125	DN40	5.4	
MG-GLX2800	φ 2800×5407	~180	18.5	DN150	DN150	DN40	6	
MG-GLX3000	φ 2800×5507	~210	18.5	DN150	DN150	DN40	6.7	
MG-GLX3200	φ 3200×5507	~241	22	DN200	DN200	DN40	7	
MG-GLX3600	φ 3600×5507	~305	30	DN200	DN200	DN40	7.5	

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

10 MG-VF 竖布滤池
MG-VF Riser fiber cloth media filter tank



纤维滤布滤池是目前世界上最先进的过滤装置之一，该滤池采用纤维滤布作为过滤介质，以替代传统的砂滤池，主要应用于污水厂提标改造、中水回用工程以及其它污水处理工程的过滤工艺。在污水处理厂提标改造工程中，结合化学除磷处理措施，可使出水从一级B提升到一级A标准，满足污水处理厂的提标改造要求。

Fiber cloth media filter tank is one of the world's most advanced filtration apparatus, which uses fiber filter cloth as the filter medium to replace the traditional sand filter. It is mainly used in up-to-standard reconstruction project of wastewater treatment plants, water reuse project and other filtration process of sewage treatment works. In the up-to-standard reconstruction project of wastewater treatment plants, together with chemical phosphorus removal treatment measures, it could upgrade the effluent from a 1B to 1A standard, to meet the up-to-standard reconstruction requirements of wastewater treatment plants.

► MG-VF 竖布滤池主要技术参数/The main technical parameters

序号 No.	单座型号 Model	处理量 Capacity m³/d	滤池数量 Filter No.	外部尺寸 Size L×W×H(m)	过滤面积 Filter Area m²	功率 Power	备注 Remark
1	MG-VF100	100	一座	2.5X1.1X1.7	1.6	0.93	本数据仅供参考，实际数据会根据水质情况而定。 This data is for reference only , actual data will be based on water quality.
2	MG-VF200	200	一座	2.5X1.3X1.7	2.4	2.03	
3	MG-VF300	300	一座	2.5X1.7X1.7	3.2	2.03	
4	MG-VF500	500	一座	2.5X1.5X2.2	6	3.13	
5	MG-VF1000	1000	一座	2.5x1.9x2.2	10	3.13	
6	MG-VF1500	1500	一座	3.8x1.9x2.2	16	3.13	
7	MG-VF2000	2000	一座	4.3×1.6×3.0	18	3.32	
8	MG-VF2500	2500	一座	4.3×1.6×3.0	24	4.12	
9	MG-VF3000	3000	一座	4.3×1.6×3.0	30	4.12	
10	MG-VF3500	3500	一座	4.3×1.6×3.0	30	4.12	
11	MG-VF4000	4000	一座	4.3×1.8×3.0	36	5.12	
12	MG-VF4500	4500	一座	4.3×2.0×3.0	42	5.12	
13	MG-VF5000	5000	一座	4.3×2.0×3.0	42	5.12	
14	MG-VF5500	5500	一座	4.3×2.2×3.0	48	6.62	
15	MG-VF6000	6000	一座	5.5×1.8×3.0	48	5.12	
16	MG-VF7500	7500	一座	5.5×2.0×3.0	63	5.12	
17	MG-VF8000	8000	一座	5.5×2.2×3.0	72	6.62	
18	MG-VF9000	9000	一座	6.5×2.0×3.0	84	5.12	
19	MG-VF10000	10000	一座	6.5×2.0×3.0	84	5.12	
20	MG-VF11000	11000	一座	6.5×2.2×3.0	96	6.62	

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

11 MG-BD布袋过滤器

MG-BD Bag filter

袋式过滤器一种结构新颖、体积小、操作简便灵活、节能、高效、密闭工作、适用性强的多用途过滤设备。袋式过滤器是一种新型的过滤系统。袋式过滤器内部由金属网篮支撑滤袋，液体由入口流进，经滤袋过滤后从出口流出，杂质拦截在滤袋中，更换滤袋后可继续使用。

Bag filter is the ,multiused filtering device of novel structure,small volume,easy and flexible operation,energy conservation,high efficiency,closed work and strong applicability.Bag filter is a new type filtration system.Internal bag filter is composed of a metal basket support bag.The liquid flow into the entrance and flow out through the water outlet.The impurities are intercepted in the bag.

► 主要优点/The main advantages

品质 Quality	滤袋侧漏机率小，有力地保证了过滤品质。 Small probability of bag side leakage.It can ensure the quality of filtration.
节能 Energy Saving	袋式过滤可承载更大的工作压力，压损小，运行费用低，节能效果明显。 Bag filter can bear more pressure and it is of less pressure loss,low operating cost and obvious energy saving effect.
精度高 High Precision	滤袋过滤精度不断提高，已达到0.5 μ m。 Bag filter accuracy increased continuously and it has reached 0.5 μ m.
量大 Large Capacity	袋式过滤处理量大、体积小，容污量大。 Bag filter is of large capacity,small volume and great permit impurity.
方便 Convenient	基于袋式过滤系统的工作原理和结构，更换滤袋时方便快捷，而且过滤机免清洗，省工省时。 Based on the bag filter working principle and structure.It is convenient to replace the filter bag and the filter is no need to clean and it can save the time and labor.
节约成本 Cost Saving	过滤器滤袋清洗后可反复使用、节约成本。 The filter bag can be reused after cleaning and it can save the cost
灵活 Flexible	袋式过滤应用范围广，使用灵活，安装方式多样。 Bag filter has a wide range of application.It has flexible use and various installation methods.



1 MR-JNS逆流再生钠离子交换器

MR-JNS Up-flow regeneration sodium ion exchanger

MR-JNS逆流再生钠离子交换器是一种用于降低生水硬度的设备。通过去除水中的钙、镁离子，以达到软化的目的。由于采用了逆流再生新工艺（即再生液流向与设备运行时水的流向相反），使再生剂与树脂充分接触，从而具有出水质量高、盐耗低（约比顺流再生低30%）的优点。适用于锅炉、染色、化工、硅加工、设备冷却等软化给水处理。



MR-JNS up-flow regeneration sodium ion exchanger is used to reduce the hardness of raw water. By removing calcium and magnesium ions in the water, soft water can be made. As it adopts the up-flow regeneration technology(i.e.regenerated liquid flows in the opposite direction of water flowing during operation), so regenerant and resin can mix thoroughly. Therefore, it has a high output water quality, and low salt consumption (about 30% lower than that of concurrent regeneration one). It is suitable for the softening feedwater treatment of boiler, dyeing, chemical industry, silicon processing, component cooling, etc.

► MR-JNS逆流再生钠离子交换器主要技术参数/The main technical parameters

序号 No.	型号 Model	处理量 Capacity (m³/h)	外形尺寸 Dimension (mm)	进水管径 Inlet Diameter (mm)	出水管径 Outlet Diameter (mm)	运行重量 Operating Weight (t)	备注 Remark
1	MJ-JNS-10	10	Φ800 H3900	50	50	3.1	本数据仅供参考，实际数据会根据水质情况而定。 This data is for reference only , actual data will be based on water quality.
2	MJ-JNS-20	20	Φ1200 H4100	65	65	6.4	
3	MJ-JNS-30	30	Φ1400 H4200	80	80	8.4	
4	MJ-JNS-40	40	Φ1600 H4300	80	80	10.8	
5	MJ-JNS-50	50	Φ1800 H4400	80	80	13.5	
6	MJ-JNS-60	60	Φ2000 H4500	100	100	17	
7	MJ-JNS-70	70	Φ2200 H4600	100	100	20.4	
8	MJ-JNS-80	80	Φ2400 H4700	100	100	24.1	
9	MJ-JNS-90	90	Φ2500 H4750	100	100	26	
10	MJ-JNS-100	100	Φ2600 H4800	100	100	28.1	

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

2 MR-JNZ全自动软化水装置 MR-JNZ Automatic water softener

MR-JNZ全自动软化水装置可全自动运行，连续进行软化水供应，免去了复杂的手动操作，只需定期添加再生盐，即可有效去除水中的钙、镁离子。控制系统采用美国原装进口AUTOTROL或FLECK公司产品（或其它公司产品,用户任选），在“流量”“时间”两种模式下控制再生循环。用户可根据原水硬度等条件，设置使用参数。其自吸式的再生方式适应多种盐箱、盐池等。该设备广泛应用于电力、电子、化工、冶金、环保、生物、医药、工业锅炉、热交换器、洗衣设备、食品工业、纺织印染等行业。

MR-JNZ automatic water softening equipment can run automatically, supply soft water continuously, which doesn't need complicated manual operation, only need to add regeneration salt regularly. It can effectively remove calcium ion and manganese ion from the water. The control system adopts imported AUTOTROL or FLECK from America(or other brands, which can be selected by users), controlling regeneration cycle under "flow" and "time" modes. Clients can set working parameters according to raw water's hardness and other parameters. Its self-absorbing regeneration mode is suitable for many types of salt boxes, salt ponds, etc. It is widely used in power, electronics, chemical, metallurgy, environment protection, biology, medicine, industrial boiler, heat exchanger, washing equipment, food industry, textile, printing& dyeing industry, etc.

► 技术指标及要求/Technical indexes and requirements

- 原水硬度：<8mmol/L
- 出水硬度：<0.03 mmol/L
- 工作压力：0.2-0.5Mpa 工作温度 0-40℃
- 原水浊度：<5度
- 工作电压：< 220V 50HZ
- 树脂型号：001×7型强酸性阳离子交换树脂

- Hardness of raw water: <8mmol/L
- Hardness of water outlet: <0.03 mmol/L
- Working water pressure: 0.2-0.5Mpa Working temperature: 0-40℃
- Turbidity of raw water: <5 degree
- Working voltage: < 220V 50HZ
- Type of resin: 001×7 superacid cation exchange resin



3 MC-JYC阴、阳离子交换器 MC-JYC Anion,cation exchanger

- 阴、阳离子交换器是水处理工业中运用最为广泛、节水效能最高、效果最为理想、运行成本最低的制纯水设备，其主要用于锅炉、热电站、化工、轻工、纺织印染、医药、生物、电子等行业需进行水体脱盐软化处理。
- 它与近年引进的反渗透装置相比较，具有去除离子性杂质彻底，对水的预处理要求低，设备造价便宜等优点。
- 对于进水总含盐量在400mg/l以下的原水，根据用户不同要求以及设备的组合，可使出水水质在1.0-0.2us/cm之间。如果进水总含盐量在500mg/l以上时，可与电渗析器联合脱盐。
- MC-JYC anion, cation exchanger is a pure water production equipment, which is widely used in water treatment industry, high in water-saving ability, ideal in effect and low in running cost. It is mainly used in some areas where desalination and softening are needed, such as boiler, heat power station, chemical industry, light industry, textiles, printing&dyeing, medicine, biology, electronics industry and so on.
- Compared with the reverse osmosis equipment introduced in recent years, it has some characteristics like complete removal of ion substances, low requirement to water's pre-treatment, low equipment cost, etc.
- To the raw water with a total salt content of 400mg/l below, according to user's different requirements and equipment's combination, the output water quality can be made between 1.0-0.2us/cm; to the raw water with a total salt content of 500mg/l above, electrodialysis can be used together with this machine to desalinate.



► MC-JYC阴、阳离子交换器主要技术参数/The main technical parameters

序号 No.	型号 Model	处理量 Capacity (m³/h)	外形尺寸 Dimension (mm)	进水管径 Inlet Diameter (mm)	出水管径 Outlet Diameter (mm)	运行重量 Operating Weight (t)	备注 Remark
1	MJ-JYC-10	10	Φ800 H3900	50	50	3.1	本数据仅供参考，实际数据会根据水质情况而定。 This data is for reference only, actual data will be based on water quality.
2	MJ-JYC-20	20	Φ1200 H4100	65	65	6.4	
3	MJ-JYC-30	30	Φ1400 H4200	80	80	8.4	
4	MJ-JYC-40	40	Φ1600 H4300	80	80	10.8	
5	MJ-JYC-50	50	Φ1800 H4400	80	80	13.5	
6	MJ-JYC-60	60	Φ2000 H4500	100	100	17	
7	MJ-JYC-70	70	Φ2200 H4600	100	100	20.4	
8	MJ-JYC-80	80	Φ2400 H4700	100	100	24.1	
9	MJ-JYC-90	90	Φ2500 H4750	100	100	26	
10	MJ-JYC-100	100	Φ2600 H4800	100	100	28.1	
11	MJ-JYC-110	110	Φ3200 H5130	125	125	41.4	
12	MJ-JYC-120	120	Φ3600 H5330	150	150	52.1	

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

4 MC-JYH阴、阳混合离子交换器
MC-JYH anion and cation mixing exchanger



该设备是一种阴、阳离子交换树脂按一定比例分层装填同一交换柱内的离子交换装置。均匀混合的树脂层阳树脂与阴树脂紧密地交错排列，每一对阳树脂与阴树脂颗粒类似于一组复床，故可以把混床视作无数组复床串联运行的离子交换设备。



MC-JYH anion and cation mixing exchanger is a kind of ion exchange device in which anion and cation exchange resin is filled layer by layer in the same column according to a certain proportion. The anion resin and cation resin is closely and staggeredly arranged in the evenly mixed resin layer. Each pair of anion resin and cation resin particle is similar to a combined bed, so the mixed bed can be regarded as an ion exchange equipment with numerous combined beds running in series.

► MC-JYH阴、阳混合离子交换器主要技术参数/The main technical parameters

序号 No.	型号 Model	处理量 Capacity (m³/h)	外形尺寸 Dimension (mm)	进水管径 Inlet Diameter (mm)	出水管径 Outlet Diameter (mm)	运行重量 Operating Weight (t)	备注 Remark
1	MJ-JYH-10	10	Φ600 H3500	50	50	1.8	本数据仅供参考，实际数据会根据水质情况而定。 This data is for reference only , actual data will be based on water quality.
2	MJ-JYH-20	20	Φ800 H3600	65	65	2.9	
3	MJ-JYH-30	30	Φ1000 H3700	80	80	4.3	
4	MJ-JYH-40	40	Φ1200 H3800	80	80	5.9	
5	MJ-JYH-50	50	Φ1300 H3850	80	80	6.8	
6	MJ-JYH-60	60	Φ1400 H3900	100	100	7.8	
7	MJ-JYH-70	70	Φ1500 H3950	100	100	8.9	
8	MJ-JYH-80	80	Φ1600 H4000	100	100	10	
9	MJ-JYH-90	90	Φ1700 H4050	100	100	11.2	
10	MJ-JYH-100	100	Φ1800 H4100	100	100	12.5	
11	MJ-JYH-150	150	Φ2200 H4300	125	125	20.1	
12	MJ-JYH-200	200	Φ2600 H4500	150	150	27.6	

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

5 MC-TQ脱气塔
MC-TQ Degassing tower

- MC-TQ脱气塔作用是在离子交换水处理的过程中除去水中的二氧化碳，减轻阴离子交换器负荷，提高水处理系统的经济性及出水水质。
 - 二氧化碳脱气塔主要是采用机械方法，使含有二氧化碳的水在塔内由上而下形成薄雾状或小水滴，流过填料层，空气则由下而上与水逆向接触，根据亨利定律，即利用减少水面的二氧化碳的分压去除二氧化碳的原理，达到除去水中的二氧化碳的目的。
 - 当进水中二氧化碳含量（碱度）大于50毫克/升时，在一级复床除盐系统中设置除二氧化碳脱气塔较为合理且经济性好。经脱气塔处理后，水中残余二氧化碳。
- MC-TQ degassing tower is used to remove carbon dioxide in the water during the course of ion exchange in water treatment, so as to reduce the load of anion exchanger and lift the economy and output water quality of the water treatment system.
 - Carbon dioxide degassing tower mainly adopts mechanical method to make the water that contains carbon dioxide form into mist or little water drops from up to down in the tower. Then it flows through the packing layer. The air contacts water in reverse direction from down to up. According to Henry Law, we can remove carbon dioxide by reducing the sub-pressure of carbon dioxide on the water surface.
 - When the content of carbon dioxide (alkalinity) in the raw water is more than 50mg/l, it is more reasonable and economical to set carbon dioxide degassing tower in first combined bed desalination system. After treatment, the remaining carbon dioxide in the water is 5~10mg/l.



► MC-TQ脱气塔主要技术参数/The main technical parameters

序号 No.	型号 Model	处理量 Capacity (m³/h)	外形尺寸 Dimension (mm)	进水管径 Inlet Diameter (mm)	出水管径 Outlet Diameter (mm)	运行重量 Operating Weight (t)	备注 Remark
1	MC-TQ-15	15	Φ600 H4000	50	50	1.8	本数据仅供参考，实际数据会根据水质情况而定。 This data is for reference only ,actual data will be based on water quality.
2	MC-TQ-20	20	Φ700 H4000	65	65	2.9	
3	MC-TQ-30	30	Φ900 H4000	80	80	4.3	
4	MC-TQ-40	40	Φ1000 H4000	80	80	5.9	
5	MC-TQ-50	50	Φ1100 H4000	80	80	6.8	
6	MC-TQ-60	60	Φ1200 H4000	100	100	7.8	
7	MC-TQ-70	70	Φ1400 H4000	100	100	8.9	
8	MC-TQ-80	80	Φ1500 H4000	100	100	10	
9	MC-TQ-90	90	Φ1600 H4000	100	100	11.2	
10	MC-TQ-100	100	Φ1700 H4000	100	100	12.5	

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

6 MC-CL 超滤 MC-CL Ultrafiltration

MC-CL型中空纤维超滤净水装置是通过超滤组件超滤膜表面的微孔结构对物质进行选择分析。当液体混合物在一定压力下流经膜表面时，溶液中水或小分子物质能顺利通过微孔，而细菌、大分子物质微粒则被截留，从而实现大小分子间的分离、浓缩或净化的目的。

MC-CL ultrafiltration water purification equipment makes selective analysis On substances by micro-pore structures on the surface of UF membrane from UF groupware. When liquid mixture flows through film's surface under a certain pressure, water or little molecule substances in the solution can pass through micro-pore smoothly, while bacteria and big molecule substances are blocked, so that the goal of separating, concentrating, or purifying little and big molecules can be reached.



► 性能特点/Performance features

过滤性能可靠，滤除细菌能力强，无相变分离，常温使用，结构简单，操作方便，对降低浊度、澄清、除菌和大分子物质的浓缩等具有理想的效果。

reliable filtration performance, strong filtration ability, separation without phase change, use in normal temperature, simple structure, easy operation, has an ideal effect on turbidity reduction, clarification, bacteria removal and the concentration of large molecule substances.

► 应用范围/Application scope

采用新型的膜分离技术的超滤净水装置，广泛用于各类饮用水、矿泉水、饮料、食品用水；水产品加工用水；酒类的澄清截菌，以及医药，电子工业用纯水、超纯水制备的前处理或终端处理；用于工业废水及有用物质回收，电厂用水等领域。

adopting new membrane separation technology, MC-CL ultrafiltration water purification equipment is widely used in various drinking water, mineral water, beverage and water for food industry; water for aquatic product processing; clarification and bacteria removal in wine as well as medicine production; pre-treatment or terminal treatment of pure and ultrapure water production for electronic industry; recycling of industrial wastewater and useful substances; water for power plant, etc.



7 MC-FST反渗透 MC-FST Reverse osmosis

MC-FST反渗透是利用较高水压，使溶剂（一般是指水）通过高精密的反渗透膜，而其它绝大部分无机离子、细菌、病毒、有机物及胶体等杂质则无法通过，从而制得纯净的水。其水通量和脱除率会受压力、温度、回收率、进水含盐量和PH值等的影响。反渗透装置是目前国际上最先进的脱盐设备，可除去水中各类金属离子、酸根、细菌、热原及放射性污染物等，脱盐率可达99%以上，目前广泛用于电子、电力、医院、制药、食品饮料、化工等领域，是生产纯水的首选设备。

With the use of high water pressure, MC-FST reverse osmosis makes solvent (usually water) pass through high-precision RO membrane, while the vast majority of other foreign substances like inorganic ions, bacteria, virus, organic matters and colloid can't pass through, thus pure water can be made. Its water flux and removal rate are affected by pressure, temperature, recycle rate, influent water's salt content and PH value. Reverse Osmosis Equipment is the most advanced desalination equipment in the world at present, which can remove various metal ions, acid radical, bacteria, pyrogen and radioactive pollutants from water and whose desalination rate is up to 99%. Currently, it is an ideal equipment in pure water production, widely used in electronics, power, hospital, pharmacy, food and drinks, chemical field, etc.



► 反渗透优点/Features of reverse osmosis

- 连续运行，产品水水质稳定无须用酸碱再生
- 不会因再生而停机
- 节省了反冲和清洗用水
- 以高产率产生超纯水（产率可以高达95%）
- 无再生污水，不须污水处理设施
- Continuous running, stable water quality without need of acid and alkali regeneration.
- Will not stop machine due to regeneration.
- Saving backflush and washing water.
- Produce ultra-pure water at a high production rate (water production rate can reach 95%).
- No regenerated sewage, no need of sewage treatment facilities.

8 MC-EDI装置 MC-EDI device

EDI(Electro-deionization)(连续电除盐装置 Continuous Electrode ionization),是利用混合离子交换树脂吸附给水中的阴阳离子，同时这些被吸附的离子又在直流电压的作用下，分别透过阴阳离子交换膜而被去除的过程。此过程离子交换树脂不需要用酸碱再生。该装置可代替传统的离子交换装置，生产出电阻率高达18MO.cm的超纯水。

EDI (Electro-deionization, continuous Electrode ionization) uses mixed ion exchange resin to adsorb the anion and cation ions in the feed water. Meantime, under direct current's influence, the ions adsorbed pass through anion and cation ion exchange membranes separately and are eliminated. The ion exchange process needn't use acid-alkali regeneration. This device can replace traditional ion exchange device, producing ultra-pure water with an electrical resistivity of 18MO.cm.



1 MW-HG回转式格栅
MW-HG Automatic bar screen



回转式机械格栅（格栅除污机）是一种可以连续自动清除流体中各种形状的杂物，以固液分离为目的装置，它可以作为一种专用设备广泛地应用于城市污水处理、自来水行业、电厂进水口，同时也可以作为纺织、食品加工、造纸、皮革等行业生产工艺中必不可少的专用设备，是目前我国最先进的固液分离设备，回转式机械格栅又称格栅除污机。

Rotary mechanical bar screen (bar screen decontamination machine) is a kind of device which could continuously and automatically remove debris of various shapes in the fluid to reach the goal of solid-liquid separation. It can serve as a kind of special equipment widely used in urban sewage treatment, water industry, power plant intakes. Meanwhile, it is also a kind of special equipment essential to the production process of textiles, food processing, paper, leather and other industries. It is currently China's most advanced solid-liquid separation equipment. rotary mechanical grille, also known as screen machine. Rotary bar screen is also known as bar screen pollutant removal machine.

➤ MW-HG回转式格栅主要技术参数/The main technical parameters

型号 Model	MW -HG3	MW -HG4	MW -HG5	MW -HG6	MW -HG7	MW -HG8	MW -HG9	MW -HG10	MW -HG11	MW -HG12	MW -HG13	MW -HG15
安装角度 Installation Angle	60° -80°											
动力 (KW) Power	0.37		0.55			0.75		1.1			1.5	
转速(r/min) Speed	2											
渠宽 (mm) Channel Width	400	500	600	700	800	900	1000	1100	1200	1300	1400	1600
渠深 (mm) Channel Depth	1000-12000mm用户自选 User self-selecting											
栅隙 (mm) Screen Slot	3-20mm 用户自选 User self-selecting											
设备宽 (mm) Equipment Width	300	400	500	600	700	800	900	1000	1100	1200	1300	1500
介质温度 (℃) Medium Temperature	≤80											
卸料高度 (mm) Discharge Height	400-1000用户自选 User self-selecting											

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

2 MW-GJW网板格栅
MW-GJW Mesh plate bar screen

网板式格栅机是一种可以连续自动拦截并清除流体中各种形状杂物的水处理专用设备，可广泛地应用于城市污水处理，特别适用于印染污水中去除纤维类垃圾。以及自来水行业、电厂进水口，同时也可以作为纺织、食品加工、造纸、皮革等行业废水处理工艺中的前级筛分设备，经过筛滤的污水可去除30%至60%的有机或无机悬浮固体，大幅度降低后道工序的处理负荷。

Mesh plate type bar screen machine is a kind of special equipment in water treatment which could continuously and automatically intercept and clear the debris of various shapes in in the fluid. It can be widely used in urban sewage treatment. It is especially suitable for the removal of fiber garbage in dyeing wastewater and the water inlet port of water industry, power plant. Meanwhile, it could also serve as pre-screening equipment of wastewater treatment process in textiles, food processing, paper, leather and other industries. After screening, the organic or inorganic suspended solids in sewage can be removed by 30-60%, significantly reducing the processing load of the next process.



➤ MW-GJW网板格栅主要技术参数/The main technical parameters

型号 Model	MW-GJW
设备宽度/Equipment width (mm)	700~3000
网板宽度/Screen width(mm)	B-150
沟渠宽度/Ditch width(mm)	B+100
网孔直径/ Mesh diameter(mm)	1.5~10
网板链速度/Plate chain speed(m/min)	3、5、6、8、10
电机总功率/Motor power(kw)	1.5~3
设计水位差/Design water level difference (m)	0.5~1
过水流量/Flow rate(m³/h)	500~2000

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

- 纺织
Textiles
- 食品加工
Food Processing
- 造纸
Paper
- 皮革
Leather

3 MW-SL水力筛

MW-SL Hydraulic screen

水力筛主体为由楔形钢棒经精密制成的不锈钢弧形或平面过滤筛面，待处理废水通过溢流堰均匀分布到倾斜筛面上，由于筛网表面间隙小、平滑，背面间隙大，排水顺畅，不易阻塞; 固态物质被截留，过滤后的水从筛板缝隙中流出，同时在水力作用下，固态物质被推到筛板下端排出，从而达到固液分离目的。

The main body of the hydraulic screen is a stainless steel arc or a plane filter screen which is precisely made of steel bar. When waste water goes through the overflow weir and evenly distributes to the inclined screen surface, the drainage is smooth and not easily blocked due to the smooth screen surface, its small clearance and large clearance in the back. Solid substance is intercepted and the filtered water flows out from the plate gaps. Meanwhile, under the effect of the water power, the solid material is discharged from the bottom of the plate, so as to achieve solid-liquid seperation.



► MW-SL水力筛主要技术参数/The main technical parameters

序号 No.	型号 Model	筛板规格 Specifications (宽度×长度) Width×Length	B	B1	进出口法兰 Inlet And Outlet Flange PN0.6MPa		重量 Weight	备注 Remark
					DN1	DN2		
1	MW-SL0518	500 × 1800	500	640	80	100	500	本数据仅供参考，实际数据会根据水质情况而定。
2	MW-SL0818	800 × 1800	800	940	100	125	800	
3	MW-SL1018	1000 × 1800	1000	1140	100	125	1100	
4	MW-SL1218	1200 × 1800	1200	1340	150	200	1500	
5	MW-SL1518	1500 × 1800	1500	1640	150	200	1800	
6	MW-SL1818	1800 × 1800	1800	1940	200	250	2000	This data is for reference only , actual data will be based on water quality.
7	MW-SL2018	2000 × 1800	2000	2140	200	250	2200	
8	MW-SL2418	2400 × 1800	2400	2540	250	300	2500	
9	MW-SL1525	1500 × 2500	1500	1640	250	300		
10	MW-SL2025	2000 × 2500	2000	2140	250	300		

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

4 MW-ZG转鼓式格栅（内进水）

MW-ZG Rotary drum bar screen(internal water intake)

- MW-ZG转鼓式格栅除污机，又称螺旋压榨格栅或螺旋细格栅，是前道污水处理工艺，适用于城市污水、工业废水和生活废水处理工程，拦截水中漂浮物，MW-ZG转鼓式格栅除污机除污机集清污、输送、压榨于一体，提高能源利用率减少管理投入。为目前工艺比较先进的细格栅除污机。
- MW-ZG型转鼓式格栅除污机由于网筒间隙是固定的，所以清污彻底，克服普通耙齿式格栅间隙活动的缺陷，除污效率在98%以上。
- 网筒两端采用精密切割具有高同心度的加厚不锈钢圈与网筒焊接固定，确保网筒在旋转过程中的同心度。输送压榨装置的螺旋旋转动力来自与网筒旋转的同一台减速机，输送压榨螺旋为有轴螺旋，螺旋叶片为不锈钢加工而成，由下往上螺旋慢慢变小，压榨能力逐渐增强。



- MW-ZG rotary drum bar screen, also known as helical screw pressing grid or helical fine grid, is common equipment in the sewage pre-treatment process. It is suitable for municipal sewage, industrial wastewater and domestic wastewater treatment works to intercept the floating debris in water. As an integration of decontamination, conveyance and crushing, MWZG rotary drum screen machine could improve energy efficiency and reduce the management inputs. It is currently the fine grid decontamination machine with relatively advanced techniques.
- As its gap between the drum is fixed, MW-ZG rotary drum bar screen overcomes the shortcoming of variable gap of ordinary rake teeth bar screen, enabling it remove debris completely. It's decontamination efficiency could be up to more than 98%.
- The two ends of the screening drum is welded and fixed to the drum by precisely cut, thickened stainless steel rings with high concentricity, ensuring concentricity of the screening drum during its rotation. The helical rotational power of the conveying and pressing device comes from the same speed reducer which makes the screening drum to rotate. The conveying and pressing screw is axonia screw and the spiral blade is made of stainless steel. As the pitch gets smaller slowly from bottom to top, the crushing capacity gets stronger gradually.

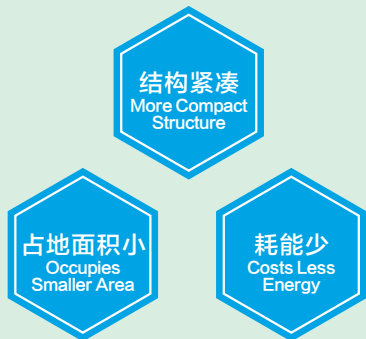
► MW-ZG转鼓式格栅（内进水）主要技术参数/The main technical parameters

型号 Model	MW-ZG-600	MW-ZG-800	MW-ZG-1000	MW-ZG-1200	MW-ZG-1400	MW-ZG-1600	MW-ZG-1800	MW-ZG-2000
转鼓直径 Drum Diameter	600	800	1000	1200	1400	1600	1800	2000
标准栅网长度 Standard Screen Length	650	850	1000	1200	1400	1500	1650	1850
输送管外径 Conveying Pipe Diameter	159	219	219	273	273	325	325	325
栅前最高水位H3 Maximum Water Level Before Screen	400	520	670	820	950	1100	1250	1350
标准安装角度 Standard Installation Angle	35°							
普通渠道深度H2 Normal Channel Depth	600-800	700-1000	900-1200	1100-1400	1200-1600	1400-1800	1600-2000	1800-2100
标准排渣高度H1 Standard Discharge Height	1000mm							
最小安装长度A Minimum Installation Length	3000	3300	3600	4000	4300	4700	5000	5300
最大过水流量估算 Maximum Water Flow Estimation	Screen Slot 栅隙	0.5	80	135	235	315	450	585
		1	125	215	370	505	720	950
		2	190	330	555	765	1095	1440
		3	230	400	680	935	1340	1760
		4	235	430	720	1010	1440	2050
		5	250	465	795	1105	1575	2200
							2935	3600

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

5 MW-DFC转鼓式格栅（外进水） MW-DFC Rotary drum bar screen(external water intake)

- MW-DFC型转鼓细格栅(Drum Fine Screen)是一种能连续而有效地筛除水中固体悬浮物的设备。该设备结构简单，可靠性高，并且与其他同类设备相比在处理量相同时占用的空间更小，而且我们有多种间隙可供选择。
- 设备采用楔形栅条作为过滤元件，具有适易流体通过，不易发生堵塞的性能；设备采用不锈钢材质栅条，可用于高温高浓度液体的筛选过滤；设备采用鼓形设计，过滤面积大，因此在相同的处理量时，结构紧凑，占地面积小，耗能少；设备通过反冲喷嘴来清洗栅条中的堵塞污物，反冲的开停既可以采用自动控制方式，也可以通过手动控制的方式来实现。
- 结构简单，可靠性高；结构紧凑，相同处理量时，占用空间最小；转鼓鼓面由楔形栅条制成，水力特性最优；间隙可选：0.25, 0.5, 0.75, 1.0, 1.5, 2.0, 3.0 mm；处理量与间隙、鼓面宽度呈正线性关系；材质可选：不锈钢SS304或SS316L
- Rotary drum fine screen is a kind of equipment which can continuously and effectively remove suspended solids in water. It is of simple structure and high reliability. Compared with other similar equipment, It occupies smaller space when the water capacity is the same. Also, many sizes of clearance are available.
- The equipment uses the wedge-shaped grid to be the filter element. It is suitable for fluid to pass through and it will not easily be blocked up ; The equipment uses the stainless steel grid, enabling it to filter high temperature and high concentration liquid; The equipment is designed in drum shape, giving it a large filter area. Therefore , when the capacity is the same, this equipment has more compact structure, occupies smaller area and costs less energy; The equipment can use backflushing nozzle to clean the foreign matters between the grids. The start and stop of the backflush can be controlled automatically or manually.
- It is of simple structure and high reliability; its compact structure enables it to occupy the smallest space when the processing capacity is the same; surface of the rotary drum is made by wedge grizzly bar, making its hydraulic characteristics to be optimal; the following gaps are availale: 0.25, 0.5, 0.75, 1.0, 1.5, 2.0, 3.0 mm; the processing capacity is in positive linear relationship with the gap and width of the drum surface;



► MW-DFC转鼓式格栅（外进水）主要技术参数/The main technical parameters

栅隙 Screen Slot	0.25	0.5	0.75	1.0	1.5	2.5	转鼓直径 Drum Diameter (mm)	转鼓长度 Drum Length (mm)	功率 Power (KW)
型号 Model	处理量 Capacity(m³/h)								
MW-DFC3560	8	15	20	25	32	42	350	600	0.25
MW-DFC610	33	60	81	100	130	170	610	610	0.55
MW-DFC1220	65	120	162	200	260	340	610	1220	0.55
MW-DFC1830	100	180	243	306	397	520	610	1830	0.75
MW-DFC81830	175	315	436	535	695	912	800	1830	1.1

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

1 MW-LML高效沉淀池 MW-LML High efficiency sedimentation tank

- 高效沉淀池是在普通斜板沉淀池的基础上，发展出来的一种高效斜板沉淀池。
- 废水由进水管进入池体，在位于池体中间的进水廊道内向前向下流动，由导流板反射，再通过两侧的布水口进入斜板。随着溶液向上流动，其所含的固体颗粒就沉淀在平等的斜板组件上，然后滑入池体底部的污泥斗，在污泥斗中，浓缩的污泥通过污泥出口排出，而其澄清液沿斜板上 升，通过顶部的出水通孔流入集水渠，然后通过可调出水堰汇集至出水槽，由出水管排出。
- High efficiency sedimentation tank is a kind of high efficiency inclined plate sedimentation tank developed on the base of ordinary inclined plate sedimentation tank.
- Waste water goes into the tank from the inlet pipe, next it flows forward and downward in the inlet passage which is located in the middle of the tank, then it is reflected by the deflector, and then it goes into the inclined water distribution port on both sides. As the fluid flows upward, the solid particles contained in it are deposited on the equal inclined plate assembly, then they slide into the sludge hopper which is located in the bottom of the tank. In the sludge hopper, the concentrated sludge sludge is discharged through the outlet, while the supernatant rises along the inclined plate and flows into the water collecting channel through hole at the top. Then the supernatant will be collected to the sink by an adjustable weir, and then discharged by outlet pipe.



► MW-LML高效沉淀池主要技术参数/The main technical parameters

序号 No.	型号 Model	处理量 Capacity	规格 Specifications			刮泥浓缩机 Scraping Mud Thickener KW	管口表 Pipe Connection Sheet (DN)			
		(m³/h)	L	W	H/H2		进水口 Inlet	出水口 Outlet	排泥口 Mud Outlet	反洗口 Backwash Pipe
							(a)	(b)	(c)	(d)
1	MW-LML-005	5	2.6	1.6	3.4/2.5	0.55	80	50	50	50
2	MW-LML-010	10	3.4	1.8	3.8/3.0	0.55	100	80	50	50
3	MW-LML-020	20	3.4	2.2	3.8/3.0	0.55	150	150	50	50
4	MW-LML-030	30	4.2	2.2	3.8/3.0	0.55	150	150	50	50
5	MW-LML-040	40	4	2.8	3.8/3.0	0.55	200	200	50	50
	*MW-LML-040	40	5.3	2.2	3.8/3.0	0.55*2	200	200	50*2	50
6	MW-LML-050	50	4.7	2.8	3.8/3.0	0.55	200	200	50	50
	*MW-LML-050	50	6.3	2.2	3.8/3.0	0.55*2	200	200	50*2	50
7	MW-LML-060	60	4.8	3	3.8/3.0	0.55	250	200	50	50
8	*MW-LML-060	60	7.2	2.2	3.8/3.0	0.55*2	250	200	80	50
9	MW-LML-070	70	5.1	3.2	3.8/3.0	0.55	250	200	80	50
10	MW-LML-080	80	6.3	3	4.0/3.2	0.55	250	250	80	50
11	MW-LML-090	90	6.3	3	4.0/3.2	0.55*2	250	250	80*2	50
12	MW-LML-100	100	7.1	3	4.0/3.2	0.55*2	250	250	80*2	50
13	MW-LML-110	110	7.8	3	4.0/3.2	0.55*2	250	250	80*2	50
14	MW-LML-120	120	8.3	3	4.0/3.2	0.55*2	300	300	80*2	50

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

2 MW-ZXG中心传动刮泥机
MW-ZXG Central driving sludge scraper



- 中心传动刮泥机原水经中心配水筒布水后呈辐射式流向池子周边溢水槽，随着流速的降低，水体中的悬浮物被分离而沉降于池底，上清液通过溢流堰板由出水槽排出池外。
- 通过减速驱动和悬挂式组件的传动，由刮板将污泥刮集到中心集泥槽，依靠静水压力或泵排出池外。采用中间进水和排泥，周边排水，保证水流均匀。利用液位差自吸式排泥，有浮渣刮集排除装置和过载保护装置。
- 本中心传动刮泥机可广泛应用于城市、化工、轻纺、冶金等行业的污水处理工程中。其结构合理、效率高、操作维修方便，是一种较理想的污水处理工程配套设施。

结构合理
Structured

效率高
Highly Efficien

操作方便
Easily Operatedn



- The raw water in the central driving sludge scraper flows radially towards the surrounding overflow groove after been distributed by water distributor. With the decrease of the flow rate, the suspended solids in water is separated and settles at the bottom. While the supernatant goes through overflow weir and is then discharged out of the tank by outlet groove.
- Through deceleration drive and transmission of hanging type components, sludge is scraped and collected to central sludge collecting groove, and then discharged out of the tank by hydrostatic pressure or pump. The application of central water inlet and sludge

discharge together with peripheral water drainage ensures the even flow of water. It takes advantage of water level difference for self-priming sludge discharge. It is equipped with scum scraping and discharging deviceas well as overload protection device.

- This central driving sludge scraper can be widely used in the sewage treatment project of cities, chemical, textile, metallurgical industries and the liker. It is reasonably structured, highly efficient, easily operatedn and maintaine. It is a kind of ideal wastewater treatment facility.

➤ MW-ZXG中心传动刮泥机主要技术参数/The main technical parameters

型号规格 Model	适用池径 Diameter Of Pond (m)	电机功率 Motor Power (kw)	刮板外缘速度 Working Line Speed (m/min)		刮臂数 Scraping No.
			初沉池	二沉池	
MW-ZXG-6	6	0.37~0.75	2~3	1.5~2.5	2
MW-ZXG-7	7				
MW-ZXG-8	8				
MW-ZXG-9	9				
MW-ZXG-10	10				
MW-ZXG-11	11				
MW-ZXG-12	12				
MW-ZXG-13	13				
MW-ZXG-14	14	0.75~1.1			
MW-ZXG-15	15				
MW-ZXG-16	16				
MW-ZXG-18	18				

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

3 MW-ZXN中心传动浓缩机
MW-ZXN Central driving thickener



- 中心传动悬挂式浓缩机适用于污水处理工程中辐流式浓缩池的机械浓缩排泥。
- 中心传动悬挂式浓缩机由带电动机立式减速机、回转轴承、主轴、刮臂、刮板、浓集栅条、稳流筒、控制柜等组成。刮臂在驱动装置带动下绕中心轴旋转，刮臂上的刮泥板将沉积在池底的污泥由外向内推向池心集泥坑。当运行过程中，由于刮板、刮臂受异物卡塞或积泥过多等意外原因导致传动过扭，过扭保护机构动作，切断电源，自动报警停机。

- Hanging type central driving thickener is suitable for mechanical thickening and sludge discharge of radial flow thickening tank in sewage treatment project. Hanging type central driving thickener consists of vertical speed reducer with electric motor, slewing bearings, spindle, scraping arm, blade, concentration of bars, flow stabalization cylinder, control cabinets and so on. Driven by the drive apparatus, the scraping arm rotates around the central axisand then the scraper on the scraping arm will push the sludge deposited at the bottom from outside to inside to the collection pit which is located at the central tank. During the running process, when overtorque occurs because the scraper and scraping arm are jammed by foreign objects or excessive accumulation of sludge, the overtorque protection device will operate to cut off the power, and then automatic alarm will stop.

➤ MW-ZXN中心传动浓缩机主要技术参数/The main technical parameters

型号规格 Model	池径 Tank Diameter (m)	水深 Water Depth (m)	池深 Water Depth (m)	周边线速度 Working Line Speed (m/min)	驱动功率 Driving Power (kw)
MW-ZXN4	4	2.8 ~ 3.6	3.2 ~ 4	1 ~ 2	0.55
MW-ZXN6	6	3 ~ 3.6	3.4 ~ 4		
MW-ZXN8	8	3.2 ~ 3.6	3.6 ~ 4		
MW-ZXN10	10	3.6 ~ 4.4	4 ~ 4.8		0.75
MW-ZXN12	12				
MW-ZXN14	14				
MW-ZXN16	16				1.1

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

4 MW-ZBG周边传动刮泥机
MW-ZBG Periphery driving sludge scraper



- 周边传动刮泥机适用于污水处理厂幅流式初次或二次沉淀池。其主要功能是将沉降在池底的污泥刮集至集泥坑，再由排泥管排出，以便污泥回流或浓缩脱水。视情况需要，还可以设置池面刮渣机构，收集池面浮渣并通过浮渣漏斗排出池外。
- 工作桥采用桁架结构，简洁、美观、轻巧；维护简单方便，运行费用低；传动减速机多种选择：采用轴装式，结构简单紧凑，检修方便；根据用户需要，行走轮轮面材料可以选用工程橡胶轮(标准配置)、钢轮、尼龙轮、聚氨酯轮；高效率的对数螺旋线刮泥板，保证了刮集污泥的可靠性。系统控制柜采用户外型，安全可靠，可随机控制和远程控制。

- Periphery driving sludge scraper is used in radial flow primary or secondary sedimentation tank of sewage treatment plant. Its main function is to scrape the sludge which is deposited at the bottom of the tank to the sludge collecting pit. Then the sludge will be discharged by sludge discharging pipe, making it convenient for the sludge to return or be thickend and dewatered. If needed, tank surface scraping mechanism can be set to collect the scum on the surface and discharge the scum through the scum hopper.
- Working bridge adopts truss structure. It's simple, aesthetic and lightweight; The driving reducer is of a variety of choices. It can adopt the mounted shaft, which is of simple and compact structure and convenient maintenance. It also can adopt the cycloid pin wheel reducer, which is attractive in price and quality and the transmission efficiency is high; According to the user's needs, the surface material of the walking wheel can be choosed from engineering rubber wheel (standard configuration), steel wheel, nylon wheel, polyurethane wheel; The logarithmic spiral line scraper with high efficiency can ensure the reliability of the sludge scraping; Electrical components are of outdoor types, which is safe and reliable and it can be controlled remotely or on the equipment.

► MW-ZBG边传动刮泥机主要技术参数/The main technical parameters

型号规格 Model	适用池径 Diameter Of Pond (m)	水深 Water Depth (m)	池深 Tank Depth (m)	周边线速度 Working Line Speed (m/min)		驱动功率 Driving Power (kw)
				初沉池 Primary Sedimentation Tank	二沉池 Secondary Sedimentation Tank	
MW-ZBG18	18	2.6~3.6	3~4	≤3	≤2	0.55×2
MW-ZBG18	18					0.55
MW-ZBG20	20					0.55×2
MW-ZBG20	20					0.55
MW-ZBG25	25					0.55×2
MW-ZBG25	25					0.55
MW-ZBG30	30					0.55×2
MW-ZBG30	30					0.55
MW-ZBG35	35	2.6~4.1	3~4.5	≤3	≤2	0.75×2
MW-ZBG35	35					0.75
MW-ZBG40	40					0.75×2
MW-ZBG40	40					0.75
MW-ZBG45	45					0.75×2
MW-ZBG45	45					0.75

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

5 MW-PHX行车式吸泥机
MW-PHX Traveling type sludge suction machine



- 行车式吸泥机适用于污水处理厂平流式沉淀池。其主要功能是将沉降在池底的污泥刮集至吸泥管管口，再通过吸泥管排出沉淀池。运行形式是边运行边吸泥。
- 行车式吸泥机根据吸泥形式的区别可以分成泵吸泥机和虹吸泥机两种形式。
- 工作桥采用桁架结构，简洁、美观、轻巧。维护简单方便，运行费用低。传动减速机多种选择：采用轴装式，结构简单紧凑，检修方便；采用摆线针轮减速机，价廉物美、传动效率高。行走轮采用钢轮。系统控制柜采用户外型，安全可靠，可随机控制和远程控制。输电装置可以根据用户要求采用电缆挂架(标准配置)、滑触线、电缆滚筒等不同型式。

- Traveling type sludge suction machine is suitable for horizontal sedimentation tank in Sewage treatment plant. Its main function is to scrape the sludge deposited at the bottom of the tank to the suction pipe and dischrage it through the sludge suction pipe. Operating type is operating and sucking sludge at ht esame time.
- According to scution type, traveing type suction machine can be divided pump suction machine and siphon suction machine.
- Working bridge is of truss structure, which is simple, aesthetic and lightweight; Driving reducer is of a variety of choices. If it adopts the shaft mounted type, it is of simple and compact structure. If it adopts cycloid pin wheel reducer, it is attractive in price and quality and the transmission efficiency is high; According to the user's needs, the surface material of the walking wheel can be choosed from engineering rubber wheel (standard configuration), steel wheel, nylon wheel, polyurethane wheel; Electrical components are of outdoor type, which is safe and reliable and it can be controlled remotely or on the equipment. According to user's requirements, the transmission device can adopt cable rack (standard configuration), conductor line, cable drum and other forms.

► MW-PHX行车式吸泥机主要技术参数/The main technical parameters

型号规格 Model	池径 Tank Diameter (m)	池深 Water Depth (m)	周边线速度 Working Line Speed (m/min)	驱动功率 Driving Power (kw)
MW-PHX08	8	3.5~5	≤1	0.55×2
MW-PHX10	10			
MW-PHX12	12			
MW-PHX15	15			
MW-PHX18	18			
MW-PHX20	20			0.75×2
MW-PHX22	22			
MW-PHX25	25			
MW-PHX28	28			
MW-PHX30	30			

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

6 MW-PGT 抬耙式刮泥机
MW-PGT Rake lifting type sludge scraper

- 行车式抬耙刮泥机适用于污水处理厂平流式沉淀池。其主要功能是将沉降在池底的污泥刮集至积泥槽，以便污泥回流或浓缩脱水。
- 工作桥采用桁架结构，简洁、美观、轻巧。维护简单方便，运行费用低。传动减速机多种选择：采用轴装式，结构简单紧凑，检修方便；采用摆线针轮减速机，价廉物美、传动效率高。行走轮采用钢轮。系统控制柜采用户外型，安全可靠，可随机控制和远程控制。输电装置可以根据用户要求采用电缆挂架(标准配置)、滑触线、电缆滚筒等不同型式。
- Traveling type rake lifting sludge scraper is suitable for horizontal flow sedimentation tank in sewage treatment plant. Its main function is to scrape the sludge deposited at the bottom of the tank and collect it to the sludge collection pit, making it convenient for the sludge to return or be thickened and dewatered.
- Working bridge adopts truss structure. It's simple, aesthetic, light and handy. The maintenance is simple and convenient and the operating cost is low. The driving reducer is of a variety of choices. If it adopts the mounted shaft. It is of simple and compact structure and convenient maintenance. It also can adopt the cycloid pin wheel reducer. It is attractive in price and quality and the transmission efficiency is high. The walking wheel material is steel. Control cabinets of the system are of outdoor types. It is safe and reliable and it can be controlled remotely or on the equipment. According to user's requirements, the transmission device can adopt cable rack (standard configuration), conductor line, cable drum and other forms.



► MW-PGT 抬耙式刮泥机主要技术参数/The main technical parameters

型号规格 Model	池径 Tank Diameter (m)	池深 Water Depth (m)	周边线速度 Working Line Speed (m/min)	驱动功率 Driving Power (kw)
MW-PGT08	8	3.5~5	≤1	0.55×2
MW-PGT10	10			
MW-PGT12	12			
MW-PGT15	15			
MW-PGT18	18			
MW-PGT20	20			
MW-PGT22	22			0.75×2
MW-PGT25	25			
MW-PGT28	28			
MW-PGT30	30			

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

1 MW-QF 高效气浮
MW-QF High efficiency air flotation

- 高效气浮设备主要用于水中比重近于1.0的微细悬浮颗粒的分离和去除。气浮法(DAF)就是在水中通入大量微细气泡，使其粘附于杂质颗粒上造成整体密度 $\rho < 1$ 的状态，靠浮力使其上升至水面而使固液分离的一种净水法。DAF工艺的主要设计参数包括停留时间、絮凝时间、表面负荷率、回流比、溶气压力等。气浮池的水力停留时间大致为5~35 min；表面负荷率为2.5~8m³/(m².h)。
- 优化溶气压力和回流比能够有效地降低水厂的运行和维护费用。此外由于停留时间短，气浮池的基建费用比沉淀池少，但却能获得更好的处理效果。外形紧凑，占地小。设计合理，电耗省。溶气效率高，操作方便，维护简单。处理效果稳定，机电仪实现了一体控制。按不同的水质及工艺要求：可提供单溶气装置或双溶气装置；可提供溶气水压力调整系统。



- High efficiency air flotation equipment is mainly used in separation and removal of fine suspended particles whose specific gravity is close to 1.0 in water. Dissolved air flotation method(DAF) means to dissolve large numbers of air bubbles into the water and make them adhere to foreign particles so that their overall density ρ could be < 1 , then they will rise to the water surface because of buoyancy so that solid and liquid could be separated. The main design parameters of DAF process include residence time, coagulation time, surface loading rate, reflux ratio, dissolved air pressure. Hydraulic retention time of the flotation tank is approximately 5 ~ 35 min; and surface loading rate is 2.5 ~ 8m³ / (m².h). Optimization of dissolved air pressure and reflux ratio can effectively reduce operation and maintenance costs. Furthermore, as the residence time is short, the infrastructure costs of flotation tank is less than that of sedimentation tank, but it can get better treatment effect.
- Its compact structure enables it to occupy small area. It is reasonably designed and power saving. It is highly efficient in air dissolving, easy in operation and simple in maintenance. It has stable treatment effect, and the integrated control of mechatronics is achieved. According to different water quality and process requirements: single or dual air dissolving device are available; pressure regulating system of dissolved air water is also available.

► MW-QF 高效气浮主要技术参数/The main technical parameters

型号 Model	处理水量 Capacity (m ³ /h)	溶气水量 Dissolved Air Volume (m ³ /h)	分离区面积 Separation Area (m ²)	主电机 Main Motor (kW)	加气电机 Air Filling Motor (kW)	刮沫机 Shaving Machine (kW)	反应罐Reaction Tank 尺寸Size ΦD×H	搅拌机 Blender
MW-QF03	2~3	0.5~1	1	1.5	0.37	0.12	—	—
MW-QF05	3~5	1~2	1.5	2.2	0.37	0.25	0.8×1.3	0.37
MW-QF10	5~10	2~3	3	3	0.37	0.25	1×1.6	0.37
MW-QF15	10~15	3~5	4.5	4	0.37	0.25	1.2×1.6	0.37
MW-QF20	15~20	5~7	5.4	4	0.37	0.25	1.4×1.6	0.37
MW-QF30	20~30	6~10	8	5.5	1.5	0.25	1.5×2	0.55
MW-QF40	30~40	8~13	11	5.5	1.5	0.25	1.6×2	0.55
MW-QF50	40~50	15~20	13.5	7.5	1.5	0.25	1.6×2.5	0.55
MW-QF70	60~70	20~25	19.5	7.5	1.5	0.25	1.8×2.8	0.55
MW-QF80	70~80	25~28	21.5	15	1.5	0.37	1.8×3.2	0.75
MW-QF100	90~100	30~35	28	15	1.5	0.37	2×3.2	0.75

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

2 MW-QCF浅层气浮

MW-QCF Shallow air flotation



MW-QCF shallow air flotation is a kind of water purification equipment. By dissolved air water produced by dissolved air system, through rapid pressure reduction, it releases a great deal of micro-slim air bubbles. Some air bubbles stick on the surface of foreign particles flocculated in the water, which forms suspend substance with a complete density less than 1. Then they rise to the surface of water by floatage, separating solid and liquid finally. Based on traditional gas-float theory, and successfully using “shallow theory” and “zero speed” principle, high efficient shallow gas-float device is a kind of high efficient equipment for water purification, integrating agglomeration, gas-float, skimming, settlement and mud scraping together.

MW-QCF浅层气浮就是通过溶气系统产生的溶气水，经过快速减压释放在水中产生大量微细气泡，若干气泡粘附在水中絮凝好的杂质颗粒表面上，形成整体密度小的悬浮物，通过浮力使其上升至水面而使固液分离的一种净水法。高效浅层气浮装置，是在传统气浮理论的基础上，又成功地运用了“浅层理论”和“零速”原理，通过精心设计，集凝聚、气浮、撇渣、沉淀、刮泥为一体，是一种水质净化处理的高效设备。

► MW-QCF浅层气浮主要技术参数/The main technical parameters

型号 Model	外形尺寸 Dimension	处理量 Capacity (m³/h)	行走功率 Working Power (kw)	撇渣功率 Skim Power (kw)	H1	H2	进水管 Inlet Pipe Dg	出水管 Outlet Pipe Dg
MW-QCF-15	Φ2300	15	0.55	0.37	1150	850	80	80
MW-QCF-35	Φ3200	35			1250	850	80	
MW-QCF-65	Φ4100	65			1350	900	125	
MW-QCF-95	Φ4800	95			1450	950	150	
MW-QCF-130	Φ5500	130	0.75		1480	950	150	200
MW-QCF-180	Φ6300	180			1560	950	200	
MW-QCF-210	Φ6600	210			1560	950	200	
MW-QCF-250	Φ7400	250			1600	950	250	
MW-QCF-330	Φ8600	330	1.1	0.55	1800	950	300	300
MW-QCF-480	Φ10200	480			1840	950	350	
MW-QCF-540	Φ10400	540			1840	950	400	
MW-QCF-600	Φ11300	600			1860	950	400	
MW-QCF-730	Φ12100	730	1.5	0.75	1920	985	400	400

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

3 MW-QFS竖流式气浮

MW-QFS Vertical Current flotation reactor

MW-QFS型竖流式气浮其接触室在池的中央，水流向四处扩散，水利条件比平流式单侧出流要好，设备集成度较高,便于与后续构筑物配合，比较适用于中小型流量的处理.

The contact chamber of the vertical current flotation reactor is in the central of the pool, the water spread around, the water conditions in this equipment is more better than the parallel flow type which was unilateral flow.The integration of the equipment is high and convenient for cooperated with subsequent equipment. It is suitable for the small and medium flow processing.



► MW-QFS竖流式气浮主要技术参数/The main technical parameters

参数 Parameter		型号 Model	QFS-5	QFS-10	QFS-15	QFS-20	QFS-30	QFS-40	QFS-50
功率 Power (Kw)	溶气泵 Dissolved Pump		3	3	4	4	5.5	5.5	5.5
	空压机 Air Compressor		0.37	0.37	0.37	0.75	0.75	1.5	1.5
	刮渣机 Skim Machine		0.37	0.37	0.37	0.75	0.75	1.5	1.5

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

4 MW-GSF高速气浮 MW-GSF High speed air flotation



技术特性/Technical characteristics

- 高效纳米级气泡发生技术;
- 高性能溶气技术, 溶气效率达95%以上;
- 高效清水收集技术;
- 层流分离技术, 实现水流截面的“层流”, 形成二次絮凝反应, 增大絮状颗粒物的尺寸, 提高分离效率, 同时具备斜板沉淀分离的功能;
- 克服膜堵塞技术;
- 采用专用的高效无堵塞释放器, 维护简单;
- 处理效果稳定, 全自动控制, 可实现无人值守;
- High efficiency nanoscale bubble generation technology;
- High-performance air dissolving technology, whose air dissolving efficiency can be over 95%;
- Highly efficient clear water collecting techniques;
- Laminar flow separation technology enables the "laminar flow" of the water flow cross-section and a secondary flocculation, which enlarges the size of the floc particles, improving the separation efficiency. It also has the function of precipitation and separation of inclined plate;
- It has the technique which solves the problem of membrane clogging;
- Use of special highly efficient non-clogging releaser makes maintenance simple;
- Stable treatment effect and automatic control has made unattended operation possible;

MW-GSF高速气浮主要技术参数/The main technical parameters

型号 Model	处理量 Capacity (m³/h)	池体尺寸 Tank Size (mm)	空载重量 No-Load Weight (T)	满载重量 Full Load Weight (T)	回流水泵 Backflow Pump (kw)	空压机 Air Compressor (kw)	排渣机 Slag Extractor (kw)
MZ-GSF300	300	10800*3200*3300	15.5	103.7	22	4	0.8
MZ-GSF400	400	11800*4000*3300	21.5	141.2	22	4	0.8
MZ-GSF500	500	13800*4000*3300	25.4	170.3	30	5.5	1.5
MZ-GSF600	600	15800*4000*3300	31	210	30	5.5	1.5
MZ-GSF800	800	17800*4000*3300	39.8	266.6	44	7.5	2.2
MZ-GSF1000	1000	20000*4000*3300	44.25	295.25	60	11	2.2

注: 特殊规格可根据需要定制。
Remark: Special requirements can be customized.

5 MW-PSX 旋转式撇水器 MW-PSX Rotary decanter



- 撇水器, 又名滗水器, 是SBR (CASS) 工艺的关键设备。由于各种序批式活性污泥法都是采用周期排水, 排水时池中的水位是变化的, 为保证排水时不会扰动池中各水层, 使排出上清液始终位于最上层, 这就要求使用一种能随水位变化而调节的出水系统, 即撇水器。
- 旋转式撇水器是本公司在消化国外技术的基础上开发研制的高新技术产品, 该设备专门为序批式生物处理系统而设计, 具有极好的水力机械性能。其独特的铰链四连杆驱动机构能确保撇水过程中进入出水系统的水流呈层流状态, 撇水速度平稳可调。
- 独特的四连杆驱动机构, 可确保排水效果。独特稳固的水下支撑, 杜绝重大隐患。独有的渣液分挡装置, 可完全避免浮渣进入出水系统。独特的结构, 可实现灵活的出水方式。能耗极小, 效率极高。

- Skimmer, also known as decanter, is critical equipment in SBR (CASS) process. As all kinds of sequencing batch activated sludge process are based on periodic drainage, water level in the tank is variable during the period of drainage. In order to ensure the undisturbance of water layers during the drainage process and to make sure that the discharged supernatant is always at the top, a kind of water discharge system which can regulate according to the change of water level, namely water skimmer, is required.
- Rotary decanter is high-tech product developed by our company on the basis of digesting foreign technology. Specially designed for sequencing batch biological treatment system, this equipment has excellent hydraulic and mechanical properties. Its unique hinge four-bar linkage drive mechanism ensures that the water flows into the water system is in laminar flow state in the process of skimming and skimming speed is stable and adjustable.
- The unique four-bar linkage drive mechanism ensures draining effect. Unique and solid underwater support prevents major risks. Exclusive separate water and slag trapping device can completely prevent the scum from entering the water system. Unique structure enables flexible water discharging modes. Its energy consumption is very low while its efficiency is extremely high.



MW-PSX 旋转式撇水器主要技术参数/The main technical parameters

型号 Model	处理量 Capacity (m³/h)	撇水深度 Water Discharge Depth (m)	出水堰长 Outlet Weir Length (m)	出水总管管径 Outlet Pipe Diameter (mm)	驱动功率 Driving Power (kw)
MW-PSX100	100	1 ~ 3	1	200	0.37
MW-PSX200	200		2	300	0.37
MW-PSX300	300		2.7	350	0.37
MW-PSX400	400		3.5	400	0.37
MW-PSX500	500		4.2	500	0.37
MW-PSX600	600		5.2	500	0.55
MW-PSX800	800		7	600	0.55
MW-PSX1000	1000		8.2	600	1.1
MW-PSX1250	1250		10	700	1.1
MW-PSX1500	1500		12	600(双出水)	1.1
MW-PSX1750	1750		14.5	600(双出水)	1.1
MW-PSX2000	2000		16	700(双出水)	1.1
MW-PSX2500	2500		20	700(双出水)	1.1
MW-PSX3000	3000		24	800(双出水)	1.5

注: 特殊规格可根据需要定制。
Remark: Special requirements can be customized.

6 MW-LSF砂水分离器 MW-LSF Sand-water separator

- 砂水分离器适用于污水处理厂的沉砂池，是污水中有机砂分离及提升的一体化设备，可分离出粒径 $\geq 0.2\text{mm}$ 的颗粒。有较高的分离效率，设备采用无轴螺旋，无水中轴承，具有重量轻、结构紧凑、运行可靠、安装方便等特点，是一种理想的砂水分离设备。
- 分离效率可达96%~98%，可分离出粒径 $\geq 0.2\text{mm}$ 的颗粒；采用无轴螺旋,无水中轴承,维护方便；结构紧凑,重量轻；衬条为快装式,便于更换；螺旋轴向位置可调,便于调整其尾部 and 箱壁的安全间隙。

- Sand water separator is suitable for grit chamber in wastewater treatment plants. It is the integrative equipment in the separation and and elevation of organic sand in sewage, capable of separating particles whose diameter is $\geq 0.2\text{mm}$. It has relatively high separation efficiency. The equipment uses shaftless screw and it has no underwater bearing. With the characteristics of easy maintenannce, compacted design and light weight, it is a kind of idel sand-water separating equipment.
- Its separation efficiency can be up to 96% to 98% and is capable of separating particles whose diameter is $\geq 0.2\text{mm}$; it uses shaftless screw and it has no underwater bearing. It is also compact in structure, which makes it light in weight; the lining is of fast-loading type, making it easy to replace; the axial position of the screw is adjustable, making it easy to adjust the security clearance between its tail and wall of the box.



➤ MW-LSF砂水分离器主要技术参数/The main technical parameters

型号 Model	MW-LSF260	MW-LSF320	MW-LSF360	MW-LSF420	MW-LSF460
参数Parameter					
螺旋外径 Screw Diameter mm	220	280	320	380	420
处理量 Capacity m³/h	18~43	43~72	72~97	97~126	126~155
电机功率 Motor Power kw	0.37		0.75	1.5	1.5
转速 Speed r/min	5		4.8	5	
分离粒径 Separating Particle Size mm	≥0.2				

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

1 MW-WS无轴螺旋输送机 MW-WS Shaftless screw conveyor



- 无轴螺旋输送机与传统有轴螺旋输送机相比，采用了无中心轴设计，利用具有一定柔性的整体钢制螺旋推送物料，具有以下突出优点：抗缠绕性强。螺旋输送机具有结构简单,制做成本低,密封性强、操作安全方便等优点,中间可多点装、卸料。广泛用于化工、建材、冶金、粮食等部门,在倾角 $\beta < 20^\circ$ 的情况下,输送粘度不大、不易变质、不遑（来不及）结块的粉状、颗粒状和小块物料。
- Compared with the tradition shaft screw conveyor, shaftless screw conveyor has the following outstanding advantages: strong winding resistance as it is designed without central shaft and uses steel screw which is flexible in a certain degree to convey material.
- Screw conveyor has advantages of simple structure, low manufacturing cost, strong sealing, safe and convenient operation and so on. Loading and unloading can be carried out on several locations in the middle. It is widely used in chemical industry, building materials, metallurgy, food, etc. When inclination angle β is $< 20^\circ$, it can convey low viscosity, non-perishable, not agglomerated powder, granular and small pieces of material.



➤ MW-WS无轴螺旋输送机主要技术参数/The main technical parameters

参数Parameter	型号 Model	MW-WS200	MW-WS260	MW-WS320	MW-WS355	MW-WS420	MW-WS500
输送量 Capacity (m ³ /h)	0°	2	3.5	9	11.5	15	30
	15°	1.4	2.5	6.5	7.8	11	25
	30°	0.9	1.5	4.1	5.5	7.5	21
输送长度 Conveying Length (m)		10		15	20		20
转速 Speed(r/min)		20	20	20	20	20	20
螺旋直径 Screw Diameter (mm)		200	260	320	355	420	500
设备宽度 Equipment Width (mm)		310	370	430	465	530	560

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

2 MW-DY带式压滤机

MW-DY Belt type filter press

- 我公司生产的MW-DY系列带式压滤脱水机，是在学习、引进、消化进口脱水机的基础上生产的一种新型脱水机。它广泛应用于煤炭、化工、冶金、建材、食品、造纸、市政给排水等行业的污泥（物料）的脱水，是物料回收和环境治理的理想设备。
- 配置先进的污泥预处理设备，污泥絮凝效果好，降低运行成本；配置布泥机构和布泥辊，布泥和滤饼厚度均匀，延长滤带使用寿命；配置节水型高压清洗喷嘴及喷嘴洗刷机构，滤带再生性好，脱水稳定，及时刷洗喷嘴；冲洗管路配置过滤器，可用二沉池出水冲洗滤带，节约冲洗水费用（按用户要求）；驱动机构选用进口的变频调速器，带速无级调速范围达1: 10，适应多种类型污泥脱水，提高污泥脱水率；重力脱水区设置了可抬起的污泥犁耙，重力脱水时间长，破坏污泥表面张力，提高重力脱水效果；机架整体布置为敞开式，便于观察设备运行情况，压辊滤布的清洗；合理的气路设计及优质的气动元件，保证设备的稳定运行，提高设备使用寿命，减少维修费用；
- The MW-DY series of belt filter press dewatering machine produced by our company, is a new type of dewatering machine produced on the basis of learning, importing, digesting imported dewatering machine. It is widely used in sludge (material) dehydration of coal, chemical industry, metallurgy, building materials, food, paper, municipal water supply and drainage industry and so on. It is the ideal equipment for material recovery and environmental governance.
- It is equipped with advanced sludge pre-treatment equipment, which has good sludge flocculation effect and reduces the operating costs; it is equipped with sludge distribution mechanism and sludge distribution roll, which enables the even distribution of sludge and even thickness of sludge cake to extend the service life



of the filter belt; equipped with water-saving high-pressure cleaning nozzle and the nozzle washing mechanism, the filter belt could have good reproducibility, dehydrate stably, and nozzle could be washed timely; washing pipes are equipped with filter, which could take advantage of effluent water of secondary sedimentation tank to wash filter belt, saving flushing water cost (according to user requirements); drive mechanism selects the imported inverter, which enables the stepless speed range of belt to be up to 1:10. It could adapt to various types of sludge dewatering, increasing sludge dewatering rate; the gravity dewatering zone is equipped with sludge rake which can be lifted. The long time of gravity dehydration destroys the surface tension of sludge and improves the gravity dehydration effect; overall layout of the frame is open type, making it easy to observe the operation of equipment and cleaning of the filter cloth on the roll; Reasonable pneumatic path design and high-quality pneumatic components, ensures the stable operation of equipment, improves equipment service life and reduces maintenance costs;

➤ MW-DY带式压滤机主要技术参数/The main technical parameters

型式 Model	处理能力 Capacity m³/h	滤带 Filter Belt		清洗用水 Cleaning Water		气压 Air Pressure MPa	泥饼含水率 Mud Cake Moisture Content %
		宽度 Width mm	速度 Speed m/min	水量 Water Volume m³/h	水压 Water Pressure MPa		
MW-DY500	1.5~3	650	0.5~5	8	0.6	0.6~0.8	65~85
MW-DY1000	3~5	1150	0.5~5	11	0.6	0.6~0.8	
MW-DY1500	5~7.5	1650	0.5~5	15	0.6	0.6~0.8	
MW-DY2000	9~12	2150	0.5~5	18	0.6	0.6~0.8	
MW-DY3000	12~15	3150	0.5~5	25	0.6	0.6~0.8	

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

3 MW-DYN带式浓缩压滤机

MW-DYN Belt type thickener filter press



- 带式浓缩压滤脱水机集污泥浓缩、脱水于一体，是一种连续运行的高效固液分离设备。适用于化工、冶金、矿山、食品、造纸、城市给排水等行业的固液分离，应用十分广泛。使用该设备工艺流程简单，工艺适用性强，运行连续省去污泥浓缩池的投资，且污泥停留时间短，脱磷效果好，处理效率高。
- 产泥量大，泥饼含水率低，固体回收率高，加长的重力脱水区；有效带宽增加150毫米；更多的压辊组成的合理辊系；加强的初压辊压榨力分布设计。
- As an integration of sludge thickening and dewatering, belt type thickener filter press dewatering machine is a kind of continuously operating highly efficient solid-liquid separation equipment. It is widely used for the solid-liquid separation in chemical, metallurgy, mining, food, paper, urban water supply and drainage industries. This equipment makes technical process simple and it has strong process applicability.
- Continuous operation save the investment of sludge thickening tank, and the sludge retention time is short, providing good dephosphorization effect and high processing efficiency. Large sludge production capacity and low mudcake moisture content produces high solid recovery rate. Extended gravity dewatering zone; increasing the effective bandwidth by 150 mm; reasonable roll system composed of more press rolls; strengthened the primary roll press force distribution design.



➤ MW-DYN带式浓缩压滤机主要技术参数/The main technical parameters

型式 Model	处理能力 Capacity m³/h	滤带 Filter Belt			清洗用水 Wash Water		气压 Air Pressure MPa	泥饼含水率 Mud Cake Moisture Content %
		宽度 Width mm	浓缩段速度 Enriching Section Speed m/min	压榨段速度 Press Section Speed m/min	水量 Water Volume m³/h	水压 Water Pressure MPa		
MW-DYN1000	15~40	1150	0.5~5	1~5		0.6	0.6	65~85
MW-DYN1500	20~60	1650	0.5~5	1~5		0.6	0.6	
MW-DYN2000	25~80	2150	0.5~5	1~5		0.6	0.6	
MW-DYN2500	40~100	2650	0.5~5	1~5		0.6	0.6	
MW-DYN3000	60~120	3150	0.5~5	1~5		0.6	0.6	

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

4 MW-DR叠螺污泥脱水机

MW-DR Overlapping screw sludge dewatering machine



- 叠螺污泥脱水机脱水本体采用游动环和固定环相互重叠的特殊构造，搭载独自の自动清洗系统。脱水作业时，游动环在螺旋轴的推动下，能够及时清扫滤缝，防止固形堵塞过滤面积；在节省清洗用水的同时，最大程度地保证设备持续、稳定运行。
- 叠螺式污泥脱水机可广泛用于市政污水处理工程以及石化、轻工、化纤、造纸、制药、皮革等工业行业的水处理系统。实际运行情况证明，叠螺式污泥脱水机可为客户创造可观的经济效益和社会效益。
- The body of overlapping screw sludge dewatering machine is specially structured with mutual overlapping of movable ring and fixed ring equipped with automatic cleaning system of their own. When dehydrating is in operation, driven by the screw shaft, movable rings could timely clean the filter seams, preventing solids from clogging the filtration area; ensuring the maximum degree of continuous and stable equipment operation while saving cleaning water at the same time.
- Overlapping screw sludge dewatering machine can be widely used in the water treatment systems of municipal sewage treatment works and petrochemicals, light industry, chemical fiber, paper, pharmaceuticals, leather and other industries. The actual operation proves that overlapping screw sludge dewatering machine can create considerable economic and social benefits for customers.

► MW-DR叠螺污泥脱水机主要技术参数/The main technical parameters

机型/浓度 Model/ Concentration		5000mg/L	10000mg/L	20000mg/L
MW-DR100 -1型	处理量 Capacity (kg/DS/h)	5（每小时绝干污泥量）		
	污泥量 Sludge Volume (m³/h)	≈1	≈0.5	≈0.25
MW-DR100 -2型	处理量 Capacity (kg/DS/h)	30（每小时绝干污泥量）		
	污泥量 Sludge Volume (m³/h)	≈6	≈3	≈1.5
MW-DR200 -1型	处理量 Capacity (kg/DS/h)	30（每小时绝干污泥量）		
	污泥量 Sludge volume (m³/h)	≈1	≈0.5	≈0.25
MW-DR200 -2型	处理量 Capacity (kg/DS/h)	60（每小时绝干污泥量）		
	污泥量 Sludge Volume (m³/h)	≈12	≈6	≈3
MW-DR300 -1型	处理量 Capacity (kg/DS/h)	60（每小时绝干污泥量）		
	污泥量 Sludge volume (m³/h)	≈12	≈6	≈3
MW-DR300 -2型	处理量 Capacity (kg/DS/h)	120（每小时绝干污泥量）		
	污泥量 Sludge Volume (m³/h)	≈24	≈12	≈6
MW-DR300 -3型	处理量 Capacity (kg/DS/h)	180（每小时绝干污泥量）		
	污泥量 Sludge Volume (m³/h)	≈36	≈18	≈9
MW-DR350 -1型	处理量 Capacity (kg/DS/h)	100（每小时绝干污泥量）		
	污泥量 Sludge Volume (m³/h)	≈20	≈10	≈5
MW-DR350 -2型	处理量 Capacity (kg/DS/h)	200（每小时绝干污泥量）		
	污泥量 Sludge Volume (m³/h)	≈40	≈20	≈10
MW-DR350 -3型	处理量 Capacity (kg/DS/h)	300（每小时绝干污泥量）		
	污泥量 Sludge Volume (m³/h)	≈60	≈30	≈1

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

1 MW-UASB厌氧反应器

MW-UASB Anaerobic reactor



- UASB反应器废水被尽可能均匀的引入反应器的底部，污水向上通过包含颗粒污泥或絮状污泥的污泥床。厌氧反应发生在废水和污泥颗粒接触的过程。在厌氧状态下产生的沼气（主要是甲烷和二氧化碳）引起了内部的循环，这对于颗粒污泥的形成和维持有利。在污泥层形成的一些气体附着在污泥颗粒上，附着和没有附着的气体向反应器顶部上升。上升到表面的污泥撞击三相反应器气体发射器的底部，引起附着气泡的污泥絮体脱气。气泡释放后污泥颗粒将沉淀到污泥床的表面，附着和没有附着的气体被收集到反应器顶部的三相分离器的集气室。
- 处理能力中分子为中温条件(35℃左右)，分母为常温条件(20-25℃)；反应器可为正方形、长方形或圆形，方形为钢筋浸凝土结构、圆形为钢结构或钢筋混凝土结构；反应器的具体尺寸需要根据进水的水质特征确定。

- The wastewater in the UASB reactor is introduced into the reactor bottom as uniform as possible, and then it goes upward through the sludge bed containing particles of the sludge or flocculent sludge. The reaction occurs in the process of anaerobic wastewater contacting sludge particles. Biogas (mainly methane and carbon dioxide) produced under anaerobic conditions causes the inner loop, which is favorable for the formation and maintain granular sludge. Some of the gas produced in the sludge layer adheres to the sludge particles, and the gas whether attached or not will rise to the top of the reactor. The sludge rising to the surface dashes against the bottom of the three-phase reactor gas emitter, causing degassing of the sludge floc which is attached to bubbles. After releasing of the bubbles, sludge particles will precipitate onto surface of the sludge bed, and the gas whether attached or not will be collected to the gas collecting chamber which is located on the top of the reactor.
- In the the processing capacity, molecule is medium temperature (about 35 ℃), and the denominator is the normal temperature (20-25 ℃); the reactor may be square, rectangular or round. Square is reinforced concrete structured and circle is steel or reinforced concrete structured; specific dimensions of the reactor is determined by the characteristics of the water quality.

► MW-UASB厌氧反应器主要技术参数/The main technical parameters

型号 Model	反应器有效容积 Effective Volume Of Reactor (m³)	处理能力 Capacity		
		高浓度 High Concentration	中等浓度 Middle Concentration	低浓度 Low Concentration
MW-UASB-50	50	1000/500	500/250	200/100
MW-UASB-100	100	2000/1000	1000/500	400/200
MW-UASB-200	200	4000/2000	2000/1000	800/400
MW-UASB-500	500	10000/5000	5000/2500	2000/1000
MW-UASB-1000	1000	20000/10000	10000/5000	4000/200

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

2 MW-IC厌氧反应器

MW-IC Anaerobic reactor

- 内循环厌氧反应器(Internal Circulation, IC) 是本公司最新推出的第三代高效厌氧反应器。与其他厌氧反应器相比，具有更高的处理效能，大大缩小了反应器的容积，降低了工程投资，节省了占地面积等特点。
- 极高COD负荷(8-15 kg CODcr/m³/d)；结构紧凑，节省占地面积；借沼气内能提升实现内循环，不必外加动力；抗冲击负荷能力强；具有缓冲pH的能力；出水稳定性好；高可靠性；基建投资低。

- Internal circulation (IC) anaerobic reactor is our company's newly launched third-generation of high-efficiency anaerobic reactor. Compared with other anaerobic reactors, it has characteristics of higher processing performance, greatly reducing the volume of the reactor, reducing the project investment, saving floor space and so on.
- Extremely high COD load (8-15kgCODcr/m³/d); compact structure, saving floor space; internal circulation can be achieved by biogas and external power is unnecessary; strong shock load capability; ability to buffer pH value; stable water production; high reliability; low capital investment.



► MW-IC厌氧反应器主要技术参数/The main technical parameters

型号 Model	直径 Diameter (mm)	高度 Height (m)	有效容积 Effective Volume (m³)	运行总重 Operating Weight (t)	处理能力Capacity	
					高浓度 High Concentration	低浓度 Low Concentration
MW-IC-1000	1000	20	16	25	375/440	250/310
MW-IC-2000	2000	20	63	82	1500/1760	1000/1260
MW-IC-3000	3000	20	143	170	3390/3960	2260/2830
MW-IC-4000	4000	20	255	300	6030/7030	4020/5020
MW-IC-5000	5000	20	398	440	9420/10990	6280/7850

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

3 MW-BOT沼气火炬

MW-BOT Biogas torch

- 沼气火炬应用于是现代污水处理厂、酒精厂、养殖场厌氧发酵产生的沼气。沼气其主要成分为50~65%的甲烷与30~50%的二氧化碳，同时还含有水蒸气、硫化物、氮化物等上百种成分，其中甲烷是主要的温室效应污染物之一。
- 根据污水处理厂、酒精厂、养殖场、垃圾填埋场不同的实际情况，沼气火炬分为封闭落地火炬、开放式火炬。
- 本公司生产的沼气火炬采用多级阻火安全设计；高负荷调节比；火炬塔体外表面温度低于60℃；燃尽率高于95%；点火成功率高于98%；封闭式火炬设计负荷内无明火；主要设备为撬装式设计，便于运输、安装。

- Biogas torch uses the biogas produced by anaerobic fermentation in modern wastewater treatment plant, alcohol factory and breeding farm. Its main components are 50 to 65% methane and 30-50% carbon dioxide, and it also contains hundreds of components like water vapor, sulfides and nitrides, in which the methane is one of the main pollutants in the greenhouse effect.
- According to the different actual situations of wastewater treatment plant, alcohol factory, breeding farm and landfill, the biogas torch can be divided into enclosed floor type and open type.
- The biogas torch produced by our company is equipped with the safety design of multistage fire stop mechanism; high load regulation ratio; temperature of torch tower surface is below 60℃; ignition success rate is higher than 98%; no open fire within the design load of enclosed torch; major equipment is of skid-mounted design, making it easy to transport and install.



► MW-BOT沼气火炬主要技术参数/The main technical parameters

型号Model	耗气量 Air Consumption Nm³/h	燃烧塔尺寸Combustion Tower Size (mm)			
		高度 Height	直径 Diameter	拉索高度 Inhaul Cable Height	气管直径 Tracheal Diameter DN
MW-BOT100	80-150	4100	480	3220	80
MW-BOT200	150-250	4340	630	3340	100
MW-BOT300	250-350	5050	690	3700	125
MW-BOT400	350-430	5340	790	3840	150
MW-BOT500	430-550	5840	840	4090	200
MW-BOT750	550-850	7000	950	5000	250
MW-BOT1000	850-1000	10000	1280	7000	300

型号Model	最大处理量 Maximum Capacity (Nm³/h)	法兰连接 Flange Connect	供气压力 Air Supplying Pressure	外形尺寸 Size (D×H)	安装尺寸 Installation Size	安装孔 Mounting Hole	点火电极 Ignition Electrode	重量 Weight (kg)
BIORS-300	300	DN150/PN10	>2KPa	Ø1400×7000	Ø1600	8-M30	1	3200
BIORS-600	600	DN200/PN10	>2KPa	Ø1600×7000	Ø1800	8-M30	1	4500
BIORS-1000	1000	DN250/PN10	>2KPa	Ø1800×8000	Ø2000	8-M30	1	5500
BIORS-1500	1500	DN300/PN10	>2KPa	Ø2000×8000	Ø2200	8-M30	1	6400
BIORS-2000	2000	DN350/PN10	>2KPa	Ø2200×8000	Ø2400	8-M30	2	7600
BIORS-2500	2500	DN400/PN10	>2KPa	Ø2200×8000	Ø2400	8-M30	2	8000
BIORS-3000	3000	DN450/PN10	>2KPa	Ø2200×10000	Ø2400	16-M30	2	9000
BIORS-5000	5000	DN500/PN10	>2KPa	Ø2400×10000	Ø2600	16-M30	2	11000

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

4 MW-BAF生物曝气滤池

MW-BAF Biological aerated filter

曝气生物滤池简称BAF，是80年代末在欧美发展起来的一种新型生物膜法污水处理工艺，于90年代初得到较大发展，最大规模达几十万吨每天，并发展为可以脱氮除磷。

Biological aerated filter, referred to as BAF, is a new type of biofilm wastewater treatment process developed in the late 1980s in Europe. It gets greater development in the early 1990s, during which the largest scale can be up to several hundred thousand tons per day, and is developed into nitrogen and phosphorus removal.

- 曝气生物滤池虽是生物膜处理方法的一种,但与传统生物滤池相比,仍具有明显特点:
 - BAF采用的粗糙多孔的小颗粒填料作为生物载体,可在填料表面保持较高的生物量(可达10 ~ 15 g/L),易于挂膜且运行稳定;
 - 生物复杂,菌群结构合理,反应器内具有明显的空间梯度特征,能耐受较高的有机和水力冲击负荷,不同的污染物可以在同一反应器被渐次去除,同步发挥生物氧化作用、生物吸附絮凝和物理截留作用,出水水质好,可满足回用要求;
 - 区别于一般生物滤池及生物滤塔,在去除BOD、氨氮时需进行曝气,但粒状填料层具有较高的氧转移效率,曝气量低,运行能耗较低,硝化和反硝化效率高;
 - BAF滤池为半封闭或全封闭构筑物,其生化反应受外界温度影响较小,适合于寒冷地区进行污水处理;
 - 高浓度的微生物量增大了BAF的容积负荷,进而降低了池容积和占地面积,使基建费用大大降低;
 - 滤池运行过程中通过反冲洗去除滤层中截留的污染物和脱落的生物膜,无需二沉池,简化了工艺流程,采用模块化结构设计,使运行管理更加方便;
 - 减少了污水厂异味,无污泥膨胀问题,无需污泥回流。
- Although BAF is a kind of biofilm treatment method, but when compared with the traditional biofilter, it still has the following distinctive features:
 - BAF uses rough and porous small particles filler as a biological carrier. It can maintain a larger amount of biomass in the surface of the filler (up to 10~15g/L), making biofilm formation easy and maintaining stable operation at the same time;
 - Complex biofacies, reasonable microflora and obvious characteristics of spatial gradients within the reactor makes it capable of withstanding high organic and hydraulic shock loads. Different pollutants can be removed gradually in the same reactor, and biological oxidation, biological adsorption and flocculation as well as physical interception can work synchronously to ensure good water quality and meet the reuse requirements;
 - Different from the general biological filter and biofilter, it requires aeration when removing BOD and ammonia. However, particulate filler layer has higher oxygen transfer efficiency and low aeration rates. Its energy consumption is low while its nitrification and denitrification efficiency is high;
 - BAF filter is suitable for wastewater treatment in cold areas as it is semi-enclosed or fully enclosed structure, in which the biochemical reactions are less affected by ambient temperature;
 - High concentration of microbial biomass increases volumetric loading of BAF, thereby reducing the volume and area of the tank and greatly reducing the capital costs;
 - During running of the filter tank, contaminants and fallen biofilm trapped on the filter layer can be removed through backwashing. This leaves out secondary settling tank and simplifies the technical process. The modular design makes operation and management more convenient;
 - Reducing the peculiar smell of sewage plant, no bulking and there's no need of sludge return.



5 MW-AO地理式污水处理一体化设备

MW-AO Underground sewage treatment integrative equipment

地理式污水处理设备是一种模块化的高效污水生物处理设备，是一种以生物膜为净化主体的污水生物处理系统，充分发挥了厌氧生物滤池、接触氧化床等生物膜反应器具有的生物密度大、耐污能力强、动力消耗低、操作运行稳定、维护方便的特点，使得该系统具有很广的应用前景和推广价值。

Underground sewage treatment integrative equipment is a kind of modular highly efficient biological wastewater treatment equipment, a kind of wastewater biological treatment system which uses biological membrane as the main part of purification. It gives full play to the features of high density organism, strong stain resistance capability, low power consumption, stable operation and running, easy maintenance of biofilm reactor like anaerobic biological filter and contact oxidation bed. All of these endow the system with wide application prospect and popularization value.



► MW-AO地理式污水一体化设备主要技术参数/The main technical parameters

项目/型号 Item/Model		MW-AO0.5	MW-AO1	MW-AO3	MW-AO5	MW-AO7.5	MW-AO10	MW-AO15	MW-AO20	MW-AO30	MW-AO40	MW-AO50
处理量 Capacity m³/h		0.5	1	3	5	7.5	10	15	20	30	40	50
设备件数 Equipment No.		1	1	1	1	1	2	2	2	3	4	4
污泥吸附及初沉池 Sludge Adsorption And Primary Sedimentation Tank		1	1.8	5.5	9	14	18	27	36	50	82	100
接触氧化池 Contact Oxidation Tank (m³)		2.5	5	14.5	24	36	44	63	83	130	170	200
二沉池表面负荷 Secondary Sedimentation Tank Surface Load(m³/m²h)		1.2	1.2	1.3	1.3	1.3	1.2	1.2	1.5	1.5	1.5	1.6
消毒池 Disinfecting Tank(m³)		0.3	0.6	1.8	2.8	4	5.5	8	10	15	20	25
风机 Fan	型号Model	HC-25IS	HC-25IS	HC-30IS	HC-50C	HC-50IS	HC-60IS	HC-80S	HC-100S	HC1-100S	HC-100S	HC-100S
	功率Power(kw)	0.4	0.4	0.75	1.5	2.2	2.2	3.7	5.5	5.5	5.5×2	5.5×2
	台数No.	2	2	2	2	2	2	2	2	2	3	3
水泵 Pump	型号Model	AS10-2CB						AS16-2CB			AS30-2CB	
	功率Power (kw)	1						1.6			2.9	
最大件重 Maximum Weight(t)			5	6	7	10	8	10	10.5	10.5	10.5	12
设备总重 Total Weight(t)			5.5	6.5	8	11	17	20	21	29	38	42
占地面积 Area Covering (m²)			6	14	20	30	50	65	75	115	155	185

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

1 MQ-JYZ加药装置

MQ-JYZ Dosing device

- MQ-JYZ加药装置是一种具投药、搅拌、输送液体、自动控制为一体的成套设备。本设备具有结构紧凑、安装操作方便、性能稳定等特点，而且能耗小、耐腐蚀、低噪音。
- 该设备普遍适用于给水工程中混凝剂、助凝剂、消毒剂的溶解、搅拌及投加；各种酸碱溶液的配制及投加；软化、脱盐水处理中再生液的配制及投加；循环冷却水水质稳定剂的配置及投加。
- 本产品根据客户要求另行设计

- MQ-JYZ medicine filling equipment is a whole set of equipment combining medicine feeding, stirring, liquid conveying, and automatic control together. This equipment is featured with compact structure, easy installation and operation, stable performance, small energy consumption, corrosion resistance and low noise.
- Normally, it is applicable for dissolution, stirring and feeding of coagulant, coagulation aid and disinfectant; production and feeding of various acid and alkali solution; production and feeding of regeneration liquid in softening and desalinated water treatment; production and feeding of water quality stabilizer in circulating cooling water.
- Attention: This equipment can be designed separated according to the requirement of the customer.



► 订货说明/Order Description

- 订货时请注明所需设备处理水量。
- 提供加药量及药品名称。
- 若对设备材质有特殊要求可另行注明。
- Please mark the treatment capacity.
- Please provide the dosage and drug name.
- Mark separated if other requirement of the equipment is need.

2 MQ-CXD臭氧加压消毒系统

MQ-CXD Ozone pressurizing disinfection system

- MQ-CXD臭氧加压消毒系统一般用于小型自来水厂、化工氧化、化工污水处理、中水回用、大型空间消毒、医药食品车间、自来水处理、游泳池水、养殖水、生产循环水以及相关行业的消毒、除味、净化。
- 本产品根据客户要求另行设计

- MQ-CXD ozone pressurizing system is generally used in the following aspects: small-sized water plant, chemical oxidation, sewage treatment in chemical industry, water reuse, antiseptis in large spaces, workshops in medicine and food industry, tap water treatment, swimming pool water, water for livestock breeding, circulating water in production as well as the disinfection, smell remove and purification in related industry.
- Attention: This equipment can be designed separated according to the requirement of the customer.



► 订货说明/Order Description

- 订货时请注明本设备所需处理水量。
- 注明本产品所用的行业。
- 请提供原水水质参数和出水要求。
- 若对产品材质有特殊要求请另行注明。
- Please mark the treatment capacity.
- Please indicate the equipment you want to use in which industry.
- Please provide the raw water quality parameters and treated water standard.
- Mark separated if other requirement of the equipment is need.

加药消毒设备

Dosing disinfection equipment

3 MQ-PT全自动加药装置

MQ-PT Automatic dosing device

采用时间程序控制，此控制方式无需仪表的支持，首先根据系统的运转需要设定自动加药的周期、加药量、加药时间和加药频率。在以后的系统运转过程中，到加药周期，计量泵自动打开加药，加到规定的时间计量泵关闭；到排污周期，计量泵停止加药，排到规定的时间后，计量泵继续开启，补充排污损失掉的药剂，把系统的含药量维持在正常的水平、加到规定的时间计量泵关闭。

It use time program control, which does not need support of the instrument. First, the cycle, dosage, dosing frequency and dosing time of automatical dosing program is set according to the system operating needs. In future operation of the system, when it gets to the dosing period, the metering pumps will start automatically and dosing begins, and then it will stop when the predetermined time comes; when it gets to the pollution discharging period, the metering pump stops dosing and when the predetermined discharging time is up, the metering pump will continue to work to supplement the lost agent so that the agent content of the system is maintained at normal level; when predetermined time is up, metering pump will stop.



► MQ-PT全自动加药装置主要技术参数/The main technical parameters

型号Model	PT200	PT430	PT958	PT1340	PT2660	PT4165	PT6660	PT10940
长 Length (mm)	940	1370	1800	2130	2450	2780	3100	3970
宽 Width (mm)	470	680	900	1070	1220	1390	1550	1990
高 Height (mm)	1450	1450	1620	1620	2000	2250	2650	2650
投加量 Dosage (L/h)	200	430	958	1340	2660	4165	6660	10940
槽体容积 Tank Volume (L)	350	750	1580	2200	4050	6170	9610	15780
进水量 Influent Volume (m³/h)	0.12~0.6	0.3~1.5	0.6~3	0.8~4	1.6~8	2.4~12	4.2~20	6~30
熟化时间 Curing Time (h)	1.0~1.5	1.0~1.5	1.0~1.5	1.0~1.5	1.0~1.5	1.0~1.5	1.0~1.5	1.0~1.5
进水管径 Inlet Diameter	DN20	DN25	DN25	DN32	DN40	DN40	DN50	DN65
加药管径 Dosing Diameter	DN20	DN25	DN25	DN32	DN40	DN40	DN50	DN65
放空管径 Vent Pipe Diameter	DN20	DN25	DN25	DN25	DN40	DN40	DN40	DN50
溢流管径 Overflow Pipe Diameter	DN32	DN32	DN40	DN40	DN50	DN65	DN65	DN80
总功率 Total Power (KW)	0.54	0.92	1.3	1.7	2.4	3.2	4.8	6.4
重量 Weight (Kg)	250	350	480	560	790	1050	1200	1450

注：特殊规格可根据需要定制。
Remark: Special requirements can be customized.

4 MQ-GSF管式反应器

MQ-GSF Tubular reactor



管式反应器一种呈管状、长径比很大的连续式操作反应器。反应器的结构可以是单管，也可以是多管并联；可以是空管，如管式裂解炉，也可以是在管内填充颗粒状催化剂的填充管，以进行多相催化反应，如列管式固定床反应器。通常，反应物流处于湍流状态时，空管的长径比大于50；填充段长与粒径之比大于100(气体)或200(液体)，物料的流动可近似地视为平推流。

Tubular reactor is a kind of continuous operating of the reactor which is tubular and has a large aspect ratio. Structure of the reactor may be a single tube or the parallel connection of several tubes; it can be empty tube such as tubular cracking furnace, or packed tube filled with granular catalyst for heterogeneous catalysis reaction, such as parallel multitubular fixed bed reactor. Generally, when the reactant is in turbulent state, the aspect ratio of empty pipe is greater than 50; when the ratio between length of the filling zone and particle diameter is greater than 100 (gas) or 200 (liquid), the flow of material can be approximately regarded as plug flow.

► 主要特点/The main characteristics

- 由于反应物的分子在反应器内停留时间相等，所以在反应器内任何一点上的反应物浓度和化学反应速度都不随时间而变化，只随管长变化。
- 管式反应器具有容积小、比表面大、单位容积的传热面积大，特别适用于热效应较大的反应。
- 由于反应物在管式反应器中反应速度快、流速快，所以它的生产能力高。
- 管式反应器适用于大型化和连续化的化工生产。
- 和釜式反应器相比较，其返混较小，在流速较低的情况下，其管内流体流型接近于理想流体。
- 管式反应器既适用于液相反应，又适用于气相反应。用于加压反应尤为合适。
- 此外，管式反应器可实现分段温度控制。其主要缺点是，反应速率很低时所需管道过长，工业上不易实现。

- As the residence time of reactant molecules in the reactor is equal, the concentration of reactants and the chemical reaction rate at any point of the reactor will not change over time, only change with tube length.
With the characteristics of small volume, large surface area, large heat transfer area per unit volume, tubular reactor is especially suitable for reactions with larger thermal effects.
- As the reaction speed and flow speed of the reactants in tubular reactor is high, so it has high production capacity.
- Tubular reactor suitable for large-scale and continuous chemical production. Compared to tank reactors, its backmixing is relatively small, and at low flow rates, the fluid flow type inside the tube is close to the ideal type of fluid.
- Tubular reactors are not only suitable for the liquid phase reaction but also gas phase reactions.
- In addition, the tubular reactor can achieve temperature-segmentation control. Its main disadvantage is that the required pipe is too long when the reaction rate is very low, which is not easy to implement in industry.

管式反应器是应用较多的一种连续操作反应器，常用的管式反应器有以下几种类型：

Tube reactor is one of the most widely used continuous operating reactor and the tube reactor has the following types:

水平管式反应器 /Horizontal tube reactor

立管式反应器 /Vertical tube reactor

盘管式反应器 /Coil tube reactor

U形管式反应器 /U-tube reactor



5 MQ-ZW紫外线消毒器

MQ-ZW Ultraviolet sterilizer

MQ-ZW紫外线杀菌器是利用波长为225-275nm的紫外线对微生物的杀灭作用而使水中菌类得以净化的。当水流经消毒仪时，高强度杀菌作用的紫外线将水中细菌杀灭。本产品彻底解决了饮用水二次污染细菌超标问题，同时也适用于饮料、食品、游泳池等用水的消毒处理。

UV ray with a wave length of 225-275nm can kill micro-organism in the water. By this character, MQ-ZW ultraviolet sterilizer can purify water. When water flows through sterilizer, UV ray with a high sterilization ability can kill bacteria in the water. This equipment can solve the problem of bacteria excess caused by secondary pollution thoroughly. Meantime, it can also be applied in the sterilization treatment in beverage, food, swimming pool, etc.

► 主要特点/The main characteristics

- 杀菌速度快、效果好，不改变水的物理、化学性能，不增加水的嗅味，不产生致癌的三氯甲烷，操作简单，管理方便。
- 具有先进的报警功能，可实时监控每一支紫外灯管的工作状态。
- 筒体采用进口优质不锈钢制成，使用寿命是铝合金的5-10倍，耐压高，无金属离子污染。
- 紫外线灯选用国家卫生部门、防疫部门鉴定的专业产品，低压30W，主谱线253.7nm，此波长的紫外线杀菌率最高，达98%以上，且能耗低，连续使用寿命长。
- High sterilization speed with good effect; don't change water's physical and chemical performances; don't add extra taste and odor to water; don't cause cancerogenic chloroform; easy in operation and convenient in management.
- With advanced alarming function, it can monitor every UV tube's working conditions in real time.
- The main body adopts imported high-quality stainless steel, whose useful life is 5-10 times longer than that of aluminum alloy. It has a high resistance to pressure and has no metal ions pollution.
- UV lamp adopts professional products certified by national hygiene department and epidemic prevention section, low voltage 30W, main spectral line 253.7nm, this wave length's sterilization rate is the highest, which can reach above 98%, low in power consumption and long in continuous use life.

► 订货说明/Order Description

- 订货时注明水处理量及原水中含菌量。
- 请提供出水要求。
- 若对材料有特殊要求可另行注明。
- Please mark the treatment capacity and bacterial content of the raw water.
- Please provide treated water standard.
- Mark separated if other requirement of the equipment is need.

