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 **环保设备**
ENVIRONMENTAL PROTECTION EQUIPMENT
山东贝特尔环保科技有限公司
SHANDONG BETTER ENVIRONMENTAL PROTECTION TECHNOLOGY CO., LTD.

山东贝特尔环保科技有限公司
SHANDONG BETTER ENVIRONMENTAL PROTECTION TECHNOLOGY CO., LTD.

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中国环保产业协会会员单位





污水处理行业专家
SEWAGE TREATMENT
INDUSTRY EXPERT



携手贝特尔环保共创绿色家园
Hand In Hand With BETTER, Create A Green Homeland Together

思路决定未来 我们和**世界**同步
Ideas Determine The Future, we Synchronise With The Rhythms Of The World

细节决定品质 我们总能**领先**
Details Achieve The Quality, we Always Be In The Lead

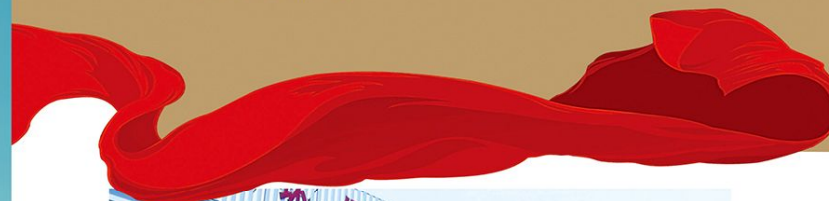


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+
+
Accumulation,
Innovation And Technology
雁渡寒潭, 乃领先者之功



优秀的团队·专业的服务

对中国市场运作的深刻了解以及专业的从业经验让我们赢得了广大顾客的信赖和支持, 专业、专注、专一, 为了共同的目标, 我们不断前行。

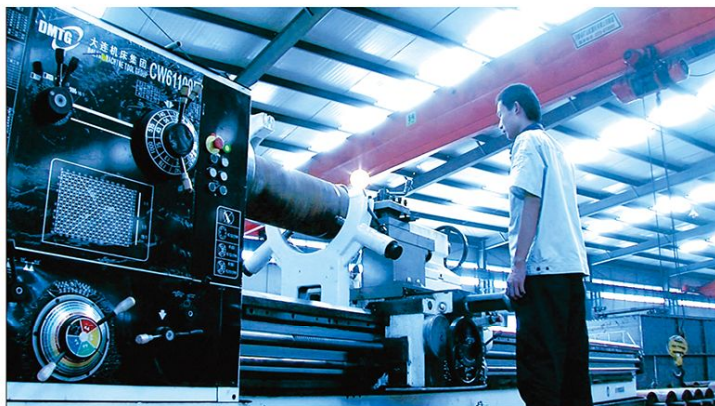


先进的设备 Advanced equipment

精工制造 品质护航

ELABORATE MANUFACTURE, EXCELLENT QUALITY

- 我们与研发团队紧密配合共同协作，用最先进的设备、最合理的工艺、最优化的设计打造出最完美、最富性价比的精品。
- 对每一个企业的发展而言，创新、突破、是保持一个企业快速、稳定发展的先决条件，先进的生产设备富有开拓精神的研发团队，保证了我们产品高品质。
- Closely work together with the R&D department to create and design the most perfect and cost-effective products by the most advanced equipment, reasonable process and optimized design.
- For the development of every enterprise, innovation, breakthrough, is the precondition to maintain rapid and stable development of an enterprise. Advanced production equipment and a development team with rich pioneering spirit of research ensure the high quality of our products.



Company Quality

Standards
公司质量标准



BTE 环保设备
ENVIRONMENTAL PROTECTION EQUIPMENT



- 贝特尔致力于培养员工具备“质量就是企业生命”的理念；完善售后服务管理体系；设计精准的客户解决方案来改革和重塑市场，采用标准化软件管理、设计、研发、制造行业最优质的产品。
- BETTER requires the employees to possess the belief of quality is life, improves after-sale service management system and designs the precise solution to innovation and remold market. Standard software management, design and research are applied with BETTER strong productivity to manufacture the most qualified products in environmental protection field.

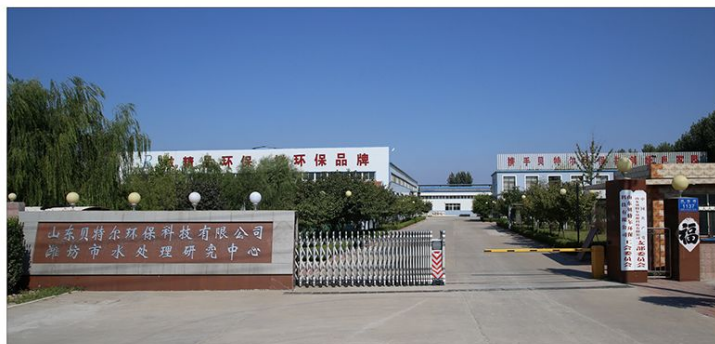
企业简介

山东贝特尔环保科技有限公司是通过引进美国技术成立的一家集专业设计、开发、生产、销售污水处理、固液分离、垃圾焚烧等环保设备,现已申报国家专利20多项,是国内知名的成套环保设备供应商。我公司是中国环保机械产业协会理事单位,山东省高新技术企业,拥有环保工程施工资质,有较强的非标设计、制造和服务能力及工程施工能力。企业通过了ISO9000质量管理体系认证,并获得了“国家级科技创新基金”,主持制定了“气浮机”的国家行业标准。

公司坐落于山东诸城,位于山东半岛东南部,占地面积33000平方米,注册资金2300万元,拥有固定资产5000余万元,现有员工200多人,其中大专以上学历或具有中级以上职称的专业技术人员76人。诸城因上古名君虞舜生于诸冯而得名,历史悠久,文化灿烂,名人辈出。这里因出土了世界最大的鸭嘴恐化石,又被称为“龙城”。诸城地理位置优越,交通便利,北依世界风筝都潍坊,东临滨海名城青岛,南靠新兴港口城市日照,是山东半岛重要的交通枢纽。胶新铁路和济青高速公路南线贯穿诸城,市内6条干线公路四通八达,乘车1小时可达青岛、日照两大港口和青岛、潍坊两大机场。

我公司依靠完善的生产检测设备,稳定可靠的产品质量,产品广泛应用于工业污水和市政生活污水的各个领域,设备现畅销全国,并出口到日本、荷兰、巴基斯坦及南美、非洲、东南亚等三十多个国家和地区。

“没有最好,只有更好”,是贝特尔人永远的追求。贝特尔全体员工热忱欢迎中外朋友光临指导、洽谈业务!愿与您真诚合作,共谋环境保护的崇高事业。



Company Profile

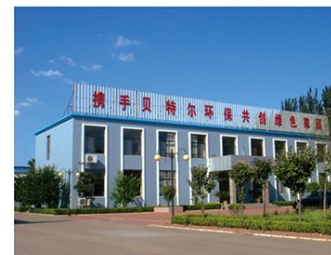
Shandong Better Environmental Protection Technology Co., Ltd. is a high-tech enterprise which was established through the introduction of US technology and specialized in technical research and development, production, design and construction. The company is located in Shandong Zhucheng, facing the coastal city Qingdao on the east and emerging port Rizhao port on the south, which has a superior location, convenient traffic and well equipped foundation. The company covers an area of 33000 m², with a registered capital of 23 million yuan and the fixed asset 50 million yuan. At present, there are 185 employees in the company, among the existing staff, there are 76 professional personnel with college degree above or intermediate title above.

Over the past few years, the company has been a member of Chinese Environmental Protection Industry, and usually cooperate with Tsinghua University Environment Institute and other renowned domestic professional institutes with a strong ability of non-standard design, manufacture and service. Moreover, the establishment of "Weifang Water Treatment Research Center" gives more strength to the company's technical research and development. With the qualification of environmental protection engineering design and equipment production, the company is able to provide the customers with technical advice, process design, area layout, equipment installation and debugging service, etc.

Depend on the perfect production and reliable quality, the products are widely used in the industrial and municipal sewage area. Now the products sell well at home, and once exported to other countries such as Japan, Holland, Pakistan, South America, Africa and Southeast Asia more than 30 countries and regions.

The company was awarded of "China Patent Shandong Star Enterprise" "Provincial High-tech Enterprise" "The State Science and Technology Commission on Environmental Protection Project Technology Promotion Supporting Institution" "Quality Service Prestige AAA Enterprise" "Abiding by Contracts and Keeping Promises Enterprise" and other rewards. Besides, the company has got the ISO9000 Quality Management System Certification, and the brand "BETTER" was named "China Famous Brand".

"There is no best, only BETTER", it is the pursuit we will never stop. We sincerely look forward to cooperating with friends at home and abroad and warmly welcome you to cooperate together for creating the better future.



公司科研楼



车间一角

荣誉证书 Certificates of honor



企业文化 company culture

我们的价值观：

客户：客户是上帝，满足客户的一切价值需求。

质量：质量如命，只有一次。

诚信：诚信是我们的命脉。

团队：团结互助，热爱奉献。

责任：服务客户，成就员工。

感恩：用感恩的心做人，用感恩的心待人。

我们的核心理念：

生存理念：客户是上帝，满足客户的一切价值需求。

服务理念：以客户为中心，追求感动的服务。

销售理念：为客户提供超值卓越的产品。

晋升理念：为客户提供超值服务，创造业绩，得以提升。

用人理念：德才兼备，德为先。

成长理念：屈辱和磨难是成功者的必修课。

我们的誓词：

我是个职业人，我对自己的工作尽职尽责。

我是个领导者，我对自己的行为负责。

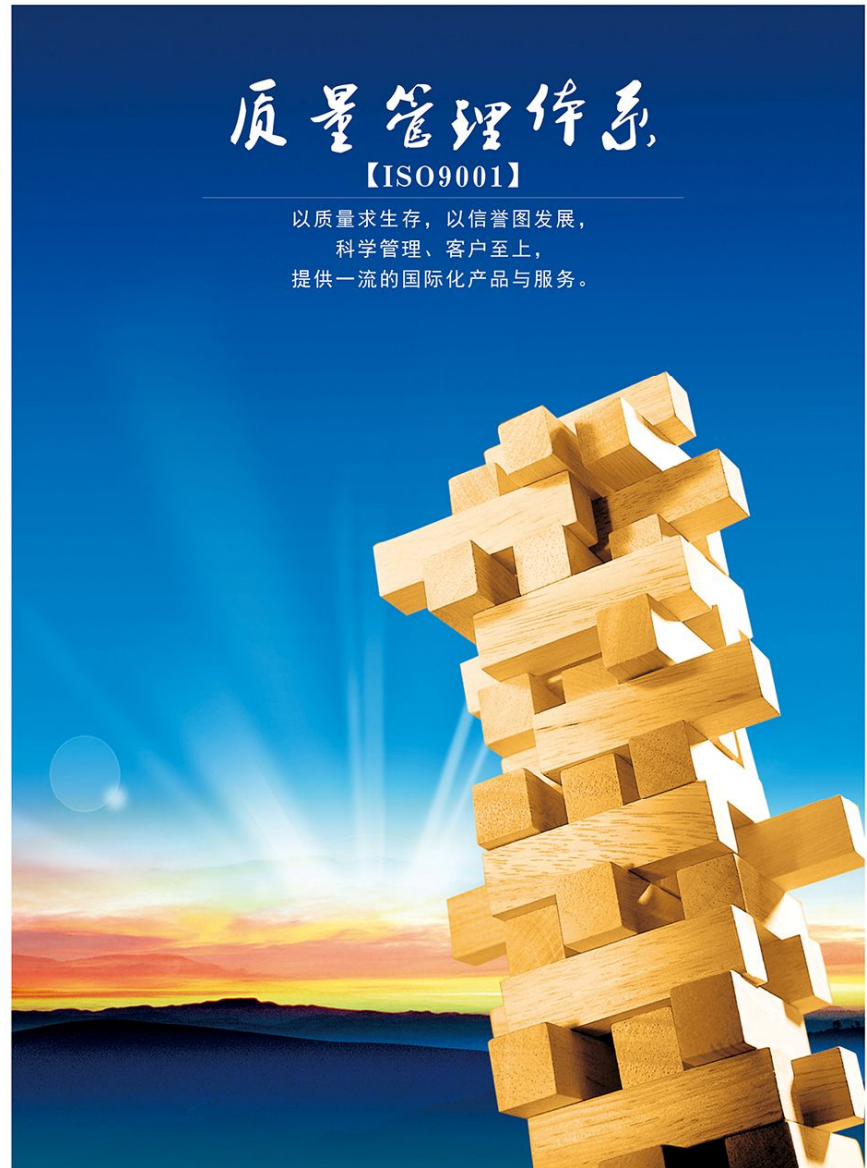
我是自己的主人，我对自己的幸福快乐负责。



质量管理体系

【ISO9001】

以质量求生存，以信誉图发展，
科学管理、客户至上，
提供一流的国际化产品与服务。



我们致力于
把地球变得更绿
We Are Committed To
Make A Better And Greener Earth

产品目录 Product catalog

一体化污水处理设备**01-04** Integrated Sewage Treatment Device

埋地式污水处理装置
智能型中水回用一体化装置
水质净化器
膜生物反应器 (MBR)

气浮设备、过滤设备、生化设备**05-15** Air Floatation Equipment, Filtration Equipment

溶气气浮机(平流式)
溶气气浮机(辐流式)
溶气气浮机(尼可尼泵式)
平流式气浮沉淀一体机
涡凹气浮机
CAF曝气机(微气泡发生器)
气浮过滤一体机
机械过滤器
浅层气浮机
无阀滤池过滤器
IC厌氧反应器
曝气生物滤池

脱水设备、固液分离设备**16-27** Dewatering Machine, Solid-liquid Separation Equipment

带式压滤机
真空带式过滤机
污泥浓缩压滤一体机
移动盘式真空过滤机
微滤机(转筒式格栅)
螺旋脱水机
板框式(污泥)压滤机
卧式螺旋离心机
机械格栅除污机
无轴螺旋输送机
斜管(板)沉淀器
陶瓷真空过滤机
XSC型螺旋钟式除砂机
LSF型砂水分离器

刮泥、吸泥设备**28-30** Mud Scraping, sucking Equipment

周边传动刮(吸)泥机
中心传动刮(吸)泥机
链板式刮油、刮渣机
行车式刮(吸)泥机

垃圾焚烧设备**31-31** Mud Scraping, sucking Equipment

焚烧炉

其它设备**32-38** Othe Equipment

氨氮吹脱塔
二氧化氯发生器
潜水式曝气机
加药装置
管道混合器
BTBS型淹水器
餐饮业含油污水处理器
释放器
格栅配件

设备配件及生化填料**39-41** Accessories & biochemical Fillings

INTEGRATED SEWAGE TREATMENT DEVICE(UNDERGROUND TYPE)

地埋式污水处理装置

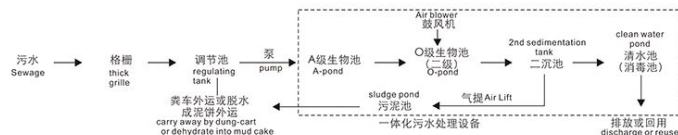
概述 DESCRIPTION

- 该设备采用国际先进的生物处理工艺，在总结国内外生活污水处理装置的运行经验的基础上，结合我公司自己的科研成果和工程实践，设计出一种可地埋设置的成套有机废水处理装置，集去除BOD₅、COD、NH₃-N于一身，具有技术性能稳定可靠，处理效果好，投资省，自动化运行，维护操作方便，不占地表面积，不需盖房，不需采暖保温等优点。地面之上可种植花草，不影响周围环境。
- 该设备适用于住宅小区、村庄、村镇、办公楼、商场、宾馆、饭店、疗养院、机关、学校、部队、医院、高速公路、铁路、工厂、矿山、旅游景区等生活污水和与之类似的屠宰、水产品加工、食品等中小型规模工业有机废水的处理和回用。经该设备处理的污水，水质达到国家排放标准。我公司可根据用户要求同时配套中水回用设备。



- This machine is developed on the basis of operational experience of sewage treating device of home and abroad with advanced biological treating method, while combining our own research and practice. It can remove BOD₅, COD, NH₃-N with stable performance and effective treating capacity, characteristics of auto-run and non-floor occupation saves cost and enjoys easy maintenance. Grass and flowers can be planted on the surface so the environment won't be affected.
- It is suitable for recovery and reuse of water from hotels, restaurants, sanitariums, hospitals, home communities, villages and towns, stations, airports, harbors, factories, mines, troops, scenic spots, industrial organic sewage similar to municipal sewage etc and from slaughter industry, food industry after treated. Water outlet quality meets national discharge standard and reclaimed water reuse system can be designed together with underground sewage disposal system according to client's actual needs.

● 工艺流程示意图 PROCESS FLOW DIAGRAM



设备技术参数 Technical parameter

型号 Model		WSZ						
项目 Item		0.5	1	3	5	10	20	30
处理量 (m³/h) Capacity(m³/h)		0.5	1	3	5	10	20	30
风机 Air blower	型号 Model	HB-0.75		HB-1.1	HB-2.2	HB-4.4	HB-8.8	HB-11.5
	功率 (KW) power	0.75		1.1	1.2	4.4	4.4x2	11.5
水泵 pump	型号 Model	40QW7-10-0.75		40QW10-7-0.75		50QW10-10-1.1	50QW25-7-1.5	50QW42-9-2.2
	功率 (KW) power			0.75-1.1			1.5	2.2
进水 Inlet water	BOD,mg/L	150-400						
出水 Outlet water	BOD,mg/L	20-60						
占地面积(m²)Floor space		4.5	6.5	12	15	35	51	76

备注：1、表中风机和水泵型号仅供参考。

2、表中设备尺寸仅供参考，实际尺寸以图纸设计尺寸为准。

3、本设备是非标产品，表中仅是部分规格，我公司可根据用户的实际水量、水质情况并结合现场进行非标设计。

Note: 1. fan and pump type is only for reference.

2. device dimensions are for reference only, the actual size see the design drawings size as.

3. this equipment is non-standard products, the table shows only part of the specification, the machine can also be customized according to different requirements.



山东贝特尔环保科技有限公司
一体化污水处理设备

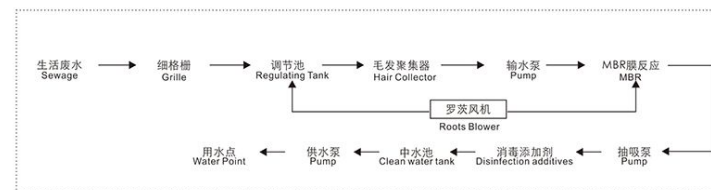
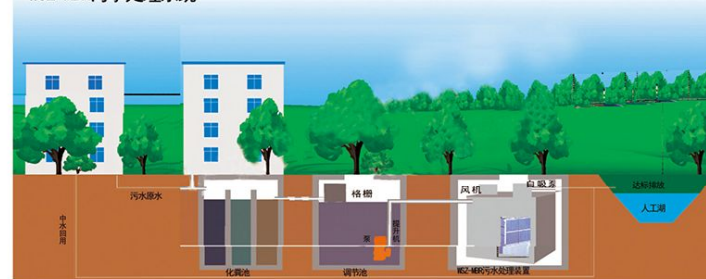
INTEGRATED INTELLIGENT WASTEWATER REUSE DEVICE-WSZ-MBR SEWAGE TREATMENT DEVICE

智能型中水回用一体化装置

概述 DESCRIPTION

- 智能型中水回用一体化装置是将MBR膜分离技术和生物处理技术与智能化控制技术有机结合起来的一体化成套水处理设备，克服了传统污水处理工艺的流程冗长，占地面积大，操作管理复杂等缺点，具有结构紧凑，外观美观，占地面积小，运行费用低，稳定可靠，自动化程度高，维护操作方便等优点。该装置工艺取代了传统工艺中的二沉池，它可以高效地进行固液分离，得到直接使用的稳定中水。又可在生物池内维持高浓度的微生物量，工艺剩余污泥少，极有效地去除氨氮，出水悬浮物和浊度接近于零，出水中细菌和病毒被大幅度去除，出水水质优于中水水质标准（超过国家一级A标准）。该装置适用于住宅小区、办公楼、商场、宾馆、饭店、机关、学校、部队、医院、高速公路、铁路、工厂等生活污水和与之类似的屠宰、纺织、啤酒、造纸、制革、食品、化工等行业中小型规模工业废水的处理和回用。我公司生产的智能型中水回用一体化装置有5t/d、25t/d、50t/d、100t/d、150t/d、200t/d、300t/d、500t/d等规格（可根据用户要求订做）。
- This is a kind of machine that combines MBR membrane separation technology with biological treatment technology and intelligent control technology. It features compact design, aesthetic appearance, small area, low cost, reliable operation, high automation as well as simple maintenance while discards defects in traditional sewage treatment technology. Secondary sedimentation tank was replaced and reclaimed water can be obtained through effective solid-liquid separation. It also boasts high concentrated microbial biomass in biological tank, less excess sludge, effective removal of ammonia nitrogen, near zero suspended substance in the effluent and turbidity, elimination of bacteria and virus to a great extent and effluent quality is much better than reclaimed water quality (exceeds national first level standard A). This system is suitable for waste water treatment of residence communities, offices, commercial buildings, hotels, restaurants, schools, hospitals, high ways, railways, factories etc., as well as for industries like slaughter, textile, beer, paper mill, leather, food, chemicals etc. Specifications we produce are as follows: 5t/d, 25t/d, 50t/d, 100t/d, 150t/d, 200t/d, 300t/d, 500t/d (manufacture according to client's requirement)

WSZ-MBR污水处理系统



WATER PURIFIER

水质净化器

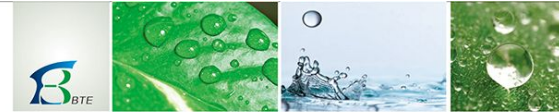


概述 DESCRIPTION

- 该设备是集混合、反应、沉淀、过滤于一体的一元化设备，适用于电镀、陶瓷、蓄电池、冶炼、机械、轻工业等行业混合废水的治理，可有效去除废水中的各种重金属离子、氰化物、泥沙及悬浮物等有害物质，处理后的水可回用；也可用于分散的厂矿企业、部队单位、边远的多山地区以及广大的农村给水净化。浑浊的地面水、洗煤水、制泥水经过该设备处理后能有效去除水中的浊度、浮类、微生物、臭味等。
- 设备采用大阻力配水系统，在反应区采用新技术、加强了吸附凝聚反应。沉淀部分采用斜管、提高其沉淀效率。过滤系统采用价格低、强度大、耐磨损、易冲洗的轻质滤料。同时该设备具有结构紧凑、体积小、操作管理简便和性能稳定等优点，是一种成功的净水设备。
- This machine integrates mix, reaction, sedimentation and filtration and is used for water treatment of electroplating, pottery, battery, smelt, light industry and machinery industries etc.. It can effectively eliminate various harmful substances such as heavy metal ion, cyanide compounds, sediments and suspension particles, water after treated meet national discharge standard and can be reused. It is also used for water purifying for factories and companies, rural areas and countryside areas. Turbidity in groundwater, coal washing water and pudding water after treated can be less than 3mg/L and meet national drinking water standard. It can be said that this machine plays the role of a waterworks.
- With large resistance water distribution system, it adopts new technology in reaction part which enhances absorption and cohesion; chute in precipitation part improves efficiency and for filter system, low cost, great intension, abrasion resistance and easy flushing light filter material is used. Its compact structure, small size, easy operation and stable performance all contributes to the success.

设备技术参数 Technical parameter

型号model	处理水量Capacity(t/h)	外型尺寸Overall size (m)	运行总重量Weight in operation (t)
HR-5型	5	3×1.5×2.7	11
HR-10型	10	3.5×2×2.8	17
HR-15型	15	4.8×2×2.8	24
HR-20型	20	6×2×2.8	30



山东贝特环环保科技有限公司
一体化污水处理设备

MEMBRANE BIOREACTOR (MBR)

膜生物反应器 (MBR)



概述 DESCRIPTION

- 膜生物反应器 (MBR) 是高效膜分离技术与活性污泥法相结合的新型污水处理技术。可用于有机物含量较高的市政或工业废水的处理，可代替传统活性污泥法中的二次沉淀池去除悬浮固体，可提高氮的去除率和有机物的降解。
- MBR是一种操作简单、自动化程度高、模块化设计的污水处理系统，具有以下优势：
- 与传统处理系统相比，可节省50%占地面积。
- 系统可维持较高的MLSS值 (<15g/L) 和较长的污泥停留时间 (<60天)。
- 对于不同的进水，有稳定的产水水质。
- 剩余污泥量少，减少了污泥处理费用。
- 耗能低，清洗简单，运行费用低。
- MBR is a kind of new technology for waste water treatment by combining membrane separation technique with activated sludge method. It can be used for municipal sewage and industrial waste water treatment and substitute for secondary sedimentation tank in removing suspended particles, so as to increase nitrogen removal rate and organics degradation rate.
- As a waste water treatment system features simple operation, high automation and modular design, it also has below advantages:
- Save 50% occupying area compared with traditional system.
- Relative high MLSS value (<15g/L) and long residue time for sludge (<60days).
- Stable producing water quality for different inlet water.
- Less sludge residue reduces cost for sludge treatment.
- Low energy consumption, simple cleaning and low operation cost.

设备技术参数 Technical parameter

膜片型号 Model	外型尺寸长X宽(mm) Size (mm)	膜面积 (m²) MBR area	产水量 (m³) Water amount	出水浊度 (NTU) Water turbidity	出水悬浮物 (mg/l) SS
MBR-8	810×525	8	1.0~1.2	<1	<10
MBR-10	1050×525	10	1.2~1.5	<1	<10
MBR-16	1050×535	16	2.0~2.5	<1	<10

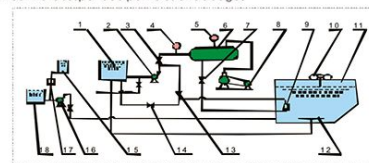
测定条件: 1、运行压力: -0.03MPa 2、膜通量: 6-8L/(m²·h) Test condition: 1. Running pressure: -0.03Mpa 2. MBR flux: 6-8L/(m²·h)

DISSOLVED AIR FLOATATION MACHINE (FLAT-FLOW TYPE)

溶气气浮机(平流式)

概述 DESCRIPTION

- YW系列溶气气浮机主要用于固-液或液-液分离。通过溶气和释放系统在水中产生大量的微细气泡，使其粘附于废水中密度与水接近的固体或液体微粒上，造成整体密度小于水的状态，并依靠浮力使其上升至水面，从而达到固-液或液-液分离的目的。
- YW series Dissolved Air Floatation Machine is mainly used for solid-liquid or liquid-liquid separation. Large sum of micro bubbles produced by dissolving and releasing system adhere to solid or liquid particles which with the same density as waste water to make the whole float to the surface thus achieve the goal of separation.
- 在水处理领域气浮机应用于以下方面
In sewage disposal area, this machine is mainly used in the following aspects:
1、分离地表水中细小悬浮物，藻类等微聚体。
2、回收工业废水中有用物质，如造纸废水中纸浆等。
3、代替二沉池分离和浓缩水中污泥等悬浮物。
1. Separate small particles and algae in groundwater.
2. Recover valuable products in industrial sewage such as paper pulp.
3. Act as secondary sedimentation tank to separate and concentrate suspended particles and sludge.



设备技术参数 Technical parameter

型号 Model	处理能力Capacity (m³/h)	溶气水量m³/h Dissolved gas water	主电机功率Kw Main dynamo power	刮沫机功率Kw Foam scraper power	空压机功率Kw Air compressor power	溶气罐规格mm Dissolved air tank size	外型尺寸mm Overall dimension
YW-5	4-5	1.5-2	3	0.55	1.5	φ400×1000	3300×1800×2200
YW-10	8-10	2-3	4	0.55	1.5	φ500×1512	4000×2100×2200
YW-15	10-15	4-6	7.5	0.55	1.5	φ500×1512	4400×2400×2200
YW-20	15-20	5-7	7.5	0.55	1.5	φ500×1512	4600×2400×2200
YW-30	20-30	6-10	7.5	0.55	1.5	φ500×1512	5200×2600×2400
YW-40	30-40	8-13	7.5	0.75	1.5	φ600×1880	6000×2600×2400
YW-50	40-50	15-20	7.5	0.75	2.2	φ600×1880	7000×2600×2400
YW-60	50-60	18-27	11	0.75	2.2	φ600×1880	7600×2800×2400
YW-70	60-70	22-30	11	0.75	2.2	φ650×2034	8400×2800×2400
YW-80	70-80	24-32	11	0.75	2.2	φ650×2034	9200×2800×2400
YW-105	90-105	30-35	15	1.1	3	φ700×1980	10000×2800×2400
YW-150	125-150	60-80	22	1.1	4	φ700×1980	13500×2800×2400
YW-200	175-200	80-100	30	1.1	5.5	φ800×2100	15800×2800×2400
YW-250	225-250	100-120	37	1.1	5.5	φ800×2400	15200×3400×2400
YW-300	280-300	120-180	37	1.1	5.5	φ1000×2900	19200×3400×2800

溶气气浮设备处理能力可分为：5、10、20、30、40、50、60、80、100、150、200、250、300m³/h等规格，也可按用户要求设计。
注：可根据用户要求为用户提供混凝土箱体设计，并提供内部全套配件。
Note: we can also design the concrete tanks according to user's requirements and provide the complete spare parts.



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气浮设备、过滤设备、生化设备

DISSOLVED AIR FLOATATION MACHINE (RADICAL-FLOW TYPE)

溶气气浮机(辐流式)



概述 DESCRIPTION

- ZSF系列超级溶气气浮机为钢制结构，其工作原理是：空气通过泵送入压力容器罐，在0.5Mpa压力下被强制溶解在水中，在突然释放的情况下，溶解在水中的空气析出，形成大量至密的微气泡群，在缓慢上升过程中吸附悬浮物，使悬浮物密度下降而上浮，达到去除SS和CODcr的目的。该产品适用于石油、化工、造纸、皮革、印染、食品、淀粉等场合用来去除油或悬浮物。
- ZSF series Dissolved Air Floatation Machine is of steel structure, the working principle: air is pumped into pressure tank and dissolves in water under 0.5Mpa pressure, exhaled gas accumulates to form of micro-bubble group which absorb SS when rising slowly to the surface. Density of suspended particles decreased thus SS and CODcr is removed. It can be used for removing oil or SS in industries like petroleum, chemicals, paper mill, leather, printing, food, starch etc.

设备技术参数 Technical parameter

型号 Model	处理能力Capacity (m³/h)	罐体直径Diameter (mm)	罐体高度 Height (mm)
ZSF-10	10	2000	2500
ZSF-20	20	2400	2500
ZSF-30	30	2400	3750
ZSF-50	50	2800	4000
ZSF-75	75	3400	4250
ZSF-100	100	4000	5000
ZSF-150	150	4800	5000
ZSF-200	200	5600	5500
ZSF-250	250	6000	5500
ZSF-300	300	6800	5500

溶气气浮设备处理能力可分为：5、10、20、30、40、50、60、80、100、150、200、250、300m³/h等规格，也可按用户要求设计。
注：可根据用户要求为用户提供混凝土箱体设计，并提供内部全套配件。
Note: we can also design the concrete tanks according to user's requirements and provide the complete spare parts.

NIKUNI PUMP AIR FLOTATION MACHINE

溶气气浮机(尼可尼泵式)

概述 DESCRIPTION

- 本气浮机采用泵内加压混合，边吸水边吸气，产生的微细气泡粒径20-50微米，省略了加压机、空气压缩机、射流器、溶气罐等复杂设计。自动气液分离罐的溶气系统能自动调节，性能稳定，“一分钟”调试，可以频繁的开机、关机而不需要重新调试。本机适用于市政、造纸、化工、饮料、印染、纺织、炼油、电镀、食品、屠宰、皮革等行业的悬浮物、混凝反应絮体及油水分离等方面的应用。
- This machine adopts pump pressured mixture system that can absorb water and air at the same time, diameter of micro bubble produced by it is about 20-50um thus pressure pump, air compressor, jet device and dissolved air vessel are unnecessary. With auto-adjustable dissolved air system for gas-liquid separation tank, its stable performance for "one-minute" debugging ensures frequently switch without being readjusted. It is applicable for treating suspended particles, coagulation flocus and oil-water separation for municipal, paper mill, chemical engineering, beverage production, printing and textile, oil refining, electroplating, food, slaughtering and leather industry.



HORIZONTAL FLOW TYPE AIR FLOTATION AND SEDIMENTATION MACHINE

平流式气浮沉淀一体机

概述 DESCRIPTION

- 该设备是本公司引进国外技术，最新研制开发的产品，获得山东省环境保护产品使用认可证书。该系统对COD、BOD去除率达85%以上，SS去除率达90%以上。耗电量仅为传统气浮法的1/10。不用机械刮泥设备，每个泥斗单独设排泥管，各自独立排泥，互不干扰，保证沉淀浓度。曝气机可以调节气泡大小，以保证最有效的絮凝效果，集沉淀、絮凝、气浮于一体。广泛应用于造纸、化工、印染、炼油、淀粉、食品等行业的工业污水和城市污水的达标治理。



- It is the latest product developed on the basis of foreign technology which won approval certificate for usage of environmental protection product of Shandong province. Its removal rate reaches 85% for COD, BOD and 90% for SS, and power consumption is only 1/10 compared with traditional system. Sludge scraper is unnecessary because sludge disposal pipe for each bucket ensures sedimentation concentration that wouldn't be interrupted by each other during sludge discharging. Aerator can adjust bubble size for best flocculation, with function of sedimentation, flocculation and air flotation. It is widely used in waste water treatment for industries of paper mill, chemicals, printing, oil refining, starch manufacturing, food and so on.



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CAVITATION-AIR FLOTATION MACHINE

涡凹气浮机



概述 DESCRIPTION

- 用于去除工业和城市污水中的固体悬浮物、油脂、胶状物等杂质。在化学絮凝剂的帮助下，可以最大程度上降低污水中的SS和COD。在造纸工业中，该机可用于纸机白水及中段废水如脱墨废水的处理，一方面可以回收纤维，另一方面可以使处理后的污水再次利用或达标排放，从而大大减轻了环保方面的压力。该产品依照美国流行样机设计，技术先进，结构简单，维修方便。
- It is used to remove impurities such as solid suspended particles, grease and jelly etc. SS and COD can be eliminated to the greatest extent under help of chemical flocculant. This machine is applicable for white water and middle-stage wastewater treatment of paper mill. With fiber recovery and reuse of water after treatment helps release environmental pressure. Designed according to popular style of USA, it features advanced technology, simple structure and easy maintenance.

设备技术参数 Technical parameter

型号 Model	处理能力(m³/h) Capacity	功率(KW) Total Power	长(m) Length	宽(m) Width	高(m) Height
ZCAF-5	5	2.75	2.44	0.93	1.26
ZCAF-10	10	2.75	3.05	1.23	1.26
ZCAF-15	15	2.75	3.96	1.23	1.26
ZCAF-20	20	2.75	4.57	1.23	1.26
ZCAF-25	25	2.95	5.00	1.50	1.26
ZCAF-30	30	2.95	5.50	1.52	1.26
ZCAF-35	35	2.95	6.00	1.52	1.26
ZCAF-50	50	2.95	5.33	1.80	1.83
ZCAF-75	75	3.3	6.55	2.41	1.83
ZCAF-100	100	5.5	7.71	2.41	1.83
ZCAF-150	150	6.6	11.13	2.41	1.83
ZCAF-175	175	8.8	12.95	2.41	1.83
ZCAF-200	200	8.8	15.09	2.41	1.83
ZCAF-320	320	11	15.09	3.05	1.83
ZCAF-400	400	13.2	16.60	3.50	1.83
ZCAF-500	500	15.4	20.60	4.40	1.83



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气浮设备、过滤设备、生化设备

CAF AERATOR(MICRO BUBBLE GENERATOR)

CAF曝气机(微气泡发生器)



概述 DESCRIPTION

- CAF微曝气机是我公司借鉴美国麦王公司先进技术，根据我国国情，结合多年来污水处理工作的实践经验，研制开发的专利产品。主要用于石化、纺织、食品、造纸、印染、酿造、制药、制革等工业污水处理及城市生活污水处理工艺中气浮池的高效曝气。根据曝气量大小需要，可选用单只或多只，具有单只曝气量大而充分，不需空压机及溶气罐、气泡小而密集、动力消耗小等特点。
- 该设备由电机、联轴器、进气管轴、曝气机体、散气叶轮等构成。
- Learn from advanced technology of Mcwang USA co., based on national condition and long years experience in this industry, we developed patented product CAF cavitation aerator. It is mainly used for high-rate aeration of flotation tank in water treatment for industries like petrochemical, textile, paper mill, printing, beer, leather etc. and for municipal sewage. Single or multi sets can be selected according to actual needs of aeration vol., air compressor and dissolved air tank is unnecessary for single aerator, with dense micro bubbles consumes less power.
- It is composed of motor, coupling, intake shaft, main frame and impeller etc.

设备技术参数 Technical parameter

型号 Model	动力 (kw) power	冲氧能力 (m³/h) Aerator Capacity	气泡直径 (μm) Bubble Diameter	适用池深 (mm) Pond Depth
CAF1	1.5	1-80	20-80	用户自定 According To The User
CAF2	2.2			
CAF3	3			
CAF4	4			

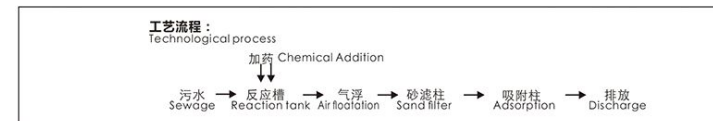
AIR FLOTATION AND FILTRATION MACHINE

气浮过滤一体机



概述 DESCRIPTION

- 本设备主要适用于处理废水经反应后絮体比重接近于水的各类废水，广泛应用于机械、化工、轻纺、交通、食品等行业，特别适用于油田钻井污水、油田回注水、炼油厂污水的处理。
- 本机主要处理工艺采用物理化学法。将化学法、气浮法、过滤吸附法等传统成熟工艺经过有机组合设计而成。具有工艺简单合理、适应性广、结构紧凑、运输安装方便、操作简便、性能稳定可靠的特点。对油水分离、悬浮物、COD、BOD的去除有很好的效果，一般废水经处理后都能达到排放标准。
- 整个装置由污水泵、计量装置、加药箱、反应槽、气浮槽、气浮系统、砂滤器、活性炭吸附柱及电控系统组成，10t/h 以下组合于同一基座，10t/h 以上为方便运输由散件到现场组装成整体。当整个装置调整至正常工作后，基本可处于自动运行状态，操作方便。
- It is mainly used for treating sewage with floc specific gravity close to water in industries like machinery, chemical, textile, transportation and food, especially for treating oil drilling sewage, oilfield reinjected water and refinery waste water. It adopts physical-chemical process as main technology. Combined traditional chemical method, flotation method with filter & absorb method, it boasts simple operation, wide application, compact structure, convenient installation and stable performance. It works well in separating oil and water, removing suspended particles, COD, BOD and water after treated can meet discharging standard.
- It is composed of sewage pump, measuring device, dosage tank, reaction tank, air flotation tank, air flotation system, sand filter, active carbon absorption column and electric control system. They are fixed on the same base for machine with treating capacity less than 10T/H. If treating capacity exceeds 10T/H, these components will be transported individually and installed at the site. It will auto-run after the installation.



设备技术参数 Technical parameter

型号 Model	处理量 (t/h) Capacity	外型尺寸 (LXBXH) Overall Size	耗用功率 (kw) Power	进水管径 Inlet Pipe Dia.	出水管径 Outlet Pipe Dia.	重量 (kg) Weight
FLY-1	1	2300×1600×2000	3.5	DN25	DN25	2000
FLY-3	2~3	3500×2000×2300	4.0	DN32	DN32	3000
FLY-5	3~5	4100×2200×2500	6.0	DN40	DN40	4500
FLY-10	7~10	7500×3000×3200	8.0	DN65	DN65	8000

MECHANICAL FILTER

机械过滤器



概述 DESCRIPTION

- 本设备适用于要求经过过滤出水浊度一般在5毫克/升以内，能符合饮用水水质标准的工业用水或生活用水的工矿企业和城镇给水处理设备。水中含有的悬浮物、凝聚的片状物、泥沙、铁质、锰以及用沉淀方法所不能去除的粘胶胶质颗粒等，可通过压力过滤器内所装的滤层，使水达到透明。对工业污水中的悬浮物、固体物等也有很好的去除效果。
- 本产品分两种进水情况选择：单层滤料过滤器适用于进水浊度经常在100毫克/升左右，未经混凝沉淀的原水(如经常用浊度更高的原水时，应注意运行周期的缩短或滤速的降低)，此种过滤器在使用时应在前投加混凝剂。双层滤料过滤器适用于进水浊度一般在15毫克/升以下，最高不大于20毫克/升左右的沉淀水。
- 本设备按过滤介质分有：石英砂过滤器、活性炭过滤器、纤维球过滤器等。
- Water after being treated by this machine can meet the requirement of drinking water standard with turbidity less than 5mg/l. Filtering layer in pressure filter helps cleanse water by removing suspended particles, coagulum, sand, iron, Mn, and colloidal particles that is difficult to be eliminated by ways of precipitation. Suspended particles and solids in industrial waste water can also be well removed.
- There are two ways for water inlet: Single-layer filter is suitable for water with turbidity over 100mg/l, raw water that hasn't been coagulation-precipitated (reduce filter speed or circulating period for water with higher turbidity), add coagulant before water flows into this filter; Multi-layer filter is suitable for precipitated water with turbidity between 15-20mg/l.
- Filtering media are quartz filter, active carbon filter and fiber ball filter etc.

设备技术参数 Technical parameter

型号 Model	外型尺寸 (LXBXH) Outline size		工作温度 Working Temp	工作压力 Working Pressure	单层高 (m) Single Height	双层高 (m) Double Height		设计出水 (m³/h) Water Outlet	本机净重 (kg) Weight in empty	运行重量 (kg) Weight in operation
	高 high	外径 Diameter				石英砂	白煤			
RBGL-1000	2897	1012	5-50℃	4.5kgf/cm²	1.2	0.7	0.5	7.85	880	2638
RBGL-1500	3469	1516			1.2	0.7	0.5	17.7	1506	5400
RBGL-2000	3610	2016			1.2	0.7	0.5	31.4	2455	9450
RBGL-2400	4020	2420			1.2	0.7	0.5	45.2	4179	14200
RBGL-2500	4020	2524			1.2	0.7	0.5	49.1	4679	15790
RBGL-3000	4480	3020			1.2	0.7	0.5	71	6355	23000
RBGL-3200	4645	3224			1.2	0.7	0.5	81	7220	25000



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气浮设备、过滤设备、生化设备

SHALLOW AIR FLOTATION MACHINE

浅层气浮机



概述 DESCRIPTION

- 在给水处理工艺程序中，固、液分离技术及其设备是关键工艺之一。对于比重接近于水的微小悬浮颗粒的去除，气浮是最有效的方法。该设备成功运用“浅池理论”和“零速”原理进行设计，集絮凝、气浮、撇渣、沉淀、刮泥于一体，是一种高效节能的水质净化设备。广泛应用于给排水处理工程。第一，应用于以湖泊为水源自来水厂的水处理，除藻降浊。第二，应用于工业污水处理工程，如石油化工、造纸、纺织、印染、电镀、制革、食品工业等领域。第三，应用于污水中有用物质的回收，如：造纸、浆粕水中的纤维回收等。
- Solid-liquid separation technology has been one of the key technologies in water treatment. Air flotation method is the best choice for removal particles with gravity the same as water. This machine is designed by the principle of "shallow tank theory" and "zero-speed", integrates flocculation, air flotation, skimming, sedimentation and sludge scraping, symbols high-effective and energy-saving water purifying device. First, it is used for waterworks to remove algal and descend turbidity with lake water as water source. Second, it is used for industrial water treatment such as petrochemical, paper mill, textile, printing, electroplate, leather, food industries etc. Third, it is used for recovery of valuable products from sewage such as fiber recovery from paper mill water and wood pulp water.

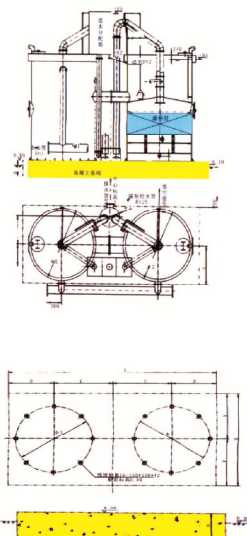
设备技术参数 Technical parameter

型号 Model	池径 (mm) Diameter	固盘总高度 (mm) Height	处理量 (m³/h) Capacity	主机总功率 (kw) Power	分离区面积 (㎡) Separation zone area	工作载荷 (t) Working load	配气系统功率 (kw) Air dissolved system power
ZCQJ25	Φ3000	1100	25	1.3	6	12	7
ZCQJ45	Φ3500	1100	45	1.85	10	16.8	7
ZCQJ70	Φ5000	1100	70	2.6	16	21.1	9
ZCQJ110	Φ6000	1100	110	3.3	26	28	17
ZCQJ150	Φ7000	1125	150	3.3	35	40	21
ZCQJ200	Φ8000	1150	200	3.3	46.4	45	23.5
ZCQJ250	Φ9000	1200	250	3.3	58	46	23.5
ZCQJ300	Φ10000	1200	300	5.2	70	57	31.5
ZCQJ400	Φ11000	1200	400	6.2	93	68	45
ZCQJ450	Φ12000	1200	450	6.2	105	81	45
ZCQJ500	Φ13000	1200	500	6.2	115	93	46.5
ZCQJ600	Φ14000	1200	600	6.2	140	110	46.5

VALVELESS FILTER 无阀滤池过滤器

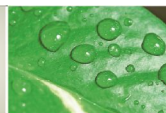
概述 DESCRIPTION

- 无阀过滤器属重力过滤，即利用水体自身的重力自动运行完成稳定的过滤及反冲洗过程。在运行过程中不需要人工操作，有效减轻工人劳动强度，且出水水质好，普通砂质滤料即能完成地表水的过滤，当经适当改造，采用其它相应的滤料后还可实现地下水的过滤，当经适当改造，采用其它相应的滤料后还可实现地下水的除铁除锰以及工业用水的软化除盐等。
- No valve filter belongs to gravity flow filtration, namely the use of water by gravity automatic run stable filtration and backwashing process. In the process of operation does not need manual operation, reduce the labor intensity, and good water quality, common sand filter can complete the surface water filtration, when after proper transformation, the other corresponding filter can also realize the underground water table of the filter, when the appropriate transformation, iron and manganese as well as industrial water softening in addition to salt used in the other corresponding filter material can also realize the groundwater.



设备技术参数 Technical parameter

平均流速 (m/h)	The average speed of filter	10
平均反冲洗强度 (L/m ² .s)	The average backwashing intensity	15
反冲洗历时 (min)	Backwash duration	5
期终水头损失 (m)	The final head loss	1.5/1.7/1.9
自来水过滤 Tap water filter	进water penetrationSS(mg/l)	≤15
	进water penetrationSS(mg/l)	≤3
循环水过滤 Xun central water filter	进water penetrationSS(mg/l)	15-30
	进water penetrationSS(mg/l)	≤5
加药絮凝过滤 Dosing flocculation filtration	进water penetrationSS(mg/l)	50-100
	进water penetrationSS(mg/l)	≤5



山东贝特尔环保科技有限公司
气浮设备、过滤设备、生化设备

IC ANAEROBIC REACTOR IC厌氧反应器

概述 DESCRIPTION

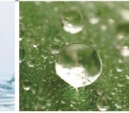
- 1、具有很高的容积负荷率
- 2、C厌氧反应器由于存在着强大的内循环、传质效果好、生物量大、其容积负荷率比普通的UASB反应器高，一般可高出3倍左右。处理高浓度有机废水，当COD为10000-15000mg/l时，容积负荷率可达10-18CODm³·d。
- 3、节省基建投资和占地面积
- 4、C反应器比普通的UASB反应器高3倍左右容积负荷率，比普通UASB反应器占地面积的1/4-1/3左右，所以可以降低反应器的基建投资。IC反应器不仅体积小，而且具有很大的高径比，所以占地面积特别省，非常适用于紧张的厂矿企业新、扩建工程。
- 5、抗冲击负荷能力强
- 6、C反应器实现了自身的内循环，循环量可达进水的10-20倍。因为循环水与进水在反应器底部充分混合，使反应器底部有机物浓度降低，从而提高了反应器的耐冲击负荷能力；同时大量也使底部污泥得以分散，保证了废水中的有机物与微生物的充分接触反应，提高了处理负荷。
- 7、出水稳定性好
- 8、因为IC反应器相当上下两个UASB反应器的串联运行，下面一个反应器具有很高的有机负荷率，起“粗”处理作用，上面一个反应器的负荷低，起“精”处理作用，使出水水质好且稳定。



- 1. High Volume Load Rate
Due to the powerful inner circulation, good mass transfer effect and large biomass, the inlet water load rate of IC Anaerobic Reactor is 3 times higher than ordinary UASB Reactor. When treating high concentration organic wastewater and COD is 10000-15000mg/h, volume load rate can reach 10-18CODm³·d.
- 2. Saving Infrastructure Investment and Floor Occupation
Volume load rate is 3 times higher than ordinary UASB, but floor occupation is only around 1/4-1/3, so that the infrastructure investment of reactor is lower. Small volume and high aspect ratio make floor occupation economize. It is very applicable to small industrial enterprises and new expansion project.
- 3. Powerful Resistance to Impact Load Ability
It realized the inner circle itself and circulation can reach 10-20 times to inlet water. Circulating water and inlet water's fully mixing make the concentration of organic matter lower, so that the resistance to impact load ability is improved. Meanwhile, homodisperse of bottom sludge insure that organic matter and microbes in wastewater contact and react fully, thus improve processing load ability.
- 4. Good Outlet Water Stability
IC Reactor is equivalent to series operation of two UASB reactors up and down. The bottom one has high organic load rate to do rough treatment, and the upper one has lower organic load rate to do fine treatment, thus, the quality of outlet water is good and stable.

设备技术参数 Technical parameter

产品型号 Model	反应器有效容积 Effective Volume [m ³]	直径 (m) Diameter	高H (m) Height	污水水量 (m ³ /d) Capacity	进口 Inlet COD (mg/L)	出口 Outlet COD (mg/L)	容积负荷 Volume Loading (kgCOD/m ³ ·d)	COD去除率 Removal Rate	每天产气量 Gas production Quantity/D (m ³ /d)
IC700	700	7	18	1000	10000	<1000	10-18	90%	4500
IC1000	1000	8.5	18	1500	10000	<1000	10-18	90%	6750
IC1500	1500	10.5	18	2500	10000	<1000	10-18	90%	10800
IC2000	2000	12	18	3000	10000	<1000	10-18	90%	15138
IC2500	2500	13.5	18	4500	10000	<1000	10-18	90%	24025



山东贝特环保科技有限公司
脱水设备、固液分离设备

BIOLOGICAL AERATED FILTER (BAF)

曝气生物滤池



概述 DESCRIPTION

- 曝气生物滤池简称BAF，是我公司在普通生物滤池的基础上，借鉴给水滤池工艺而开发的污水处理新工艺，目前，已成功地将该工艺应用在印染废水的深度处理等领域。
- BAF, a new sewage treatment technology developed on the basis of common biological filter and water filter technology. At present, it has been successfully applied in the advanced waste water treatment and other fields.

工作原理 WORKING PRINCIPLE

- 原水无进入缓冲配水区，在向上流过滤料层时，经滤料上附着生长的微生物膜净化处理后经过出水区排出，在滤池反冲洗时，较轻的滤料有可能被水流带至出水口处，可在斜板沉淀区沉降，而回流至滤池内，以保证滤池内微生物量的浓度。
- Raw water enters in the buffer water area, while flowing to the filter media, the water be discharged after the purification of microbial membrane on the media. On backwash process, the light filter material is likely to be brought to the outlet with flowing water, can be settled by oblique plate sedimentation area and then flow back to the filter tank to ensure the concentration of microbes in the filter tank.

应用范围

- 富营养化水处理
- 各种工业废水
- 城市污水、尤其适用于城市污水深度处理
- 污水回用处理

APPLICATION SCOPE

- Eutrophication water treatment
- Industrial wastewater
- Municipal sewage, especially for the deep treatment
- Wastewater reused treatment

BELT (TYPE) FILTER PRESS

带式压滤机



概述 DESCRIPTION

- RBYL系列带式压滤机是消化吸收国外先进技术研制开发的一种脱水设备。具有处理能力大，脱水效率高，使用寿命长等特点，作为污水处理的配套设备，可将气浮处理后的悬浮物及沉渣压滤脱水，压成泥饼，达到防治二次污染的目的；该机还可用于浆料浓缩、黑液的提取等工艺处理。
- RBYL series belt (type) filter press is a kind of dewatering machine developed on the basis of advanced foreign technology. It features large treating capacity, high dewatering capacity and long life time. As a part in waste water treatment system, it is used for dewatering of suspended particles and residue after treated so as to avoid secondary pollution. It is also applicable for treatment of thicker concentration and black liquor extraction.

● 性能特点

- 1、超长的重力脱水区，承载量大，处理能力强、耗能少，运行成本低。
- 2、独特的料式加长楔形区设计，运行更稳定，处理量大。
- 3、多组恒速或变频驱动，布局紧凑，滤饼含水率低。
- 4、配备新型自动纠偏和涨紧系统，工作平稳，大大提高使用寿命。
- 5、采用两套独立的反冲洗系统。

● Feature

1. Long gravity dewatering area with strong treating capacity, heavy load capacity, low energy consumption and low cost.
2. Unique belt and long wedge area ensures stable performance.
3. Multi-roller decreasing dia. is compact in configuration and improves solid-content of filter cake.
4. New auto-adjusting and filling system greatly improves life time of filter belt.
5. Adopts two independent backwash systems.

设备技术参数 Technical parameter

型号 Model	能力 Capacity (m ³ /h)	带宽 Belt width (mm)	功率 power kw	主机 Main motor	空压机 air compressor	冲网水 Rushing water network	耗水量 (m ³ /h)	压力 (Mpa)	耗气量 (m ³ /min)	给料浓度 Feed concentration	出料浓度 Discharge concentration	长×宽×高 (mm) Overall Size
RBYL500	3-4	500	1.5	3	3	3.0	3.0	≥0.5	0.2			4920×978×2350
RBYL700	4-6	700	2.2	3	3	3.5	3.5	≥0.5	0.2			4920×1178×2350
RBYL1000	5-7	1000	2.2	3	3	5.0	5.0	≥0.5	0.2			4920×1478×2350
RBYL1500	8-10	1500	2.2	3	3	8.0	8.0	≥0.5	0.3			4920×1978×2350
RBYL2000	12-15	2000	2.2	3	3	10.5	10.5	≥0.5	0.3	0.8-8%	25-45	4920×2478×2350
RBYL2200	14-16	2200	2.2	3	3	15.0	15.0	≥0.5	0.3			4920×2678×2350
RBYL2500	15-18	2500	3.0	3	3	17.0	17.0	≥0.5	0.3			4920×2978×2350
RBYL3000	18-25	3000	4.0	4	4	20.0	20.0	≥0.5	0.3			4920×3478×2350

VACUUM BELT (TYPE) FILTER

真空带式过滤器

概述 DESCRIPTION

- 真空带式过滤器是一种自动化程度高的新型过滤设备。该机以过滤布或滤网为介质，使料浆水平布置于过滤介质之上，充分利用料浆重力和真空吸水实现固液分离。连续水平带式真空过滤器可适用于多种浓度条件下的物料，过滤效率高，因而被众多工业界优先采用。
- DU rubber vacuum belt filter press is a high efficient solid-liquid separation device. By using filtering cloth or screen as media, make the slurry lay on the media and reach solid-liquid separation by vacuum attraction and gravity of slurry. It features in high filtering efficiency and widely used in industry area.



● 此款污水处理设备特点:

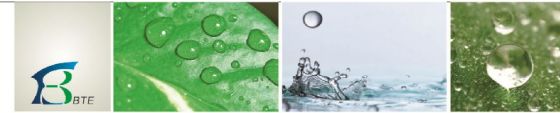
- 1: 自动化程度高; 下料、过滤、洗涤、脱水、滤布清洗均为连续自动化, 提高生产效率, 降低运行成本, 极大减轻工人劳动强度, 改善工作环境。
- 2: 过滤速度快: 物料通过沉淀区, 大颗粒在底层, 小颗粒在上层, 滤饼结构合理, 滤液通透阻力小, 可进行薄层快速过滤。
- 3: 过滤工艺方便: 滤饼厚度、滤水量、逆流洗涤级数、真空度、滤布速度任意调整, 以达到最佳过滤效果。
- 4: 洗涤效果好: 可实现多级逆流或顺流洗涤, 洗涤均匀彻底, 母液和洗涤液根据工艺需要可分收集和再利用。

● This section of the sewage treatment equipment:

1. High auto degree: Consecutive auto feeding, filtering, washing, dewatering, discharging, cloth cleaning improves production efficiency.
2. Fast filter speed: large particles will settle at the lower layer while small particles in upper layer when material goes through sedimentation area. Reasonable structure of filter cake ensures low resistance of liquid for fast filter of thin layer.
3. Convenient filter technology: cake thickness, water vol., counter current decantation stages, vacuum degree, filter speed can be adjusted for optimistic effect.
4. Fine washing effect: even and thorough multi-stage advection or counter current decantation makes collection and reuse of mother liquor and washing liquor separately.

设备技术参数 Technical parameter

型号model	过滤面积m² Filter area	过滤有效长度mm Filter length	主电机功率kw Main motor power	真空耗量m³/min Vacuum consumption	真空机功率kw Vacuum box power
400	1.0	2500	3	2	11
	5.0	7900	3	15	30
	6.3	10000	3	15	30
630	7.3	5600	5.5	15	30
	9.1	7000	5.5	20	37
	10.9	8400	5.5	20	37
	14.6	11200	5.5	20	37
	18.2	14000	7.5	30	45
1300	20.0	15400	7.5	30	45
	20.0	11200	7.5	30	45
	25.0	14000	11	42	55
	30.0	16800	11	42	55
	20.0	10000	11	42	55
1800	25.0	12500	11	42	55
	29.0	14000	11	42	55
	33.6	16800	11	66	55
	39.2	19600	15	66	75
	25.0	10000	11	30	55
2000	30.0	12000	11	42	55
	35.0	14000	15	42	75
	42.0	16800	22	86	110
	49.0	19600	22	86	110
	56.0	22400	30	97	160
2500	61.7	19600	30	100	另选
	70.6	22400	30	123	另选
	79.4	25200	30	141	另选



山东贝特环保科技有限公司
脱水设备、固液分离设备

SLUDGE CONCENTRATING AND DEWATERING MACHINE

污泥浓缩压滤一体机



概述 DESCRIPTION

- 我公司在RBYL型带式压滤机的基础上, 吸取了国外最新机械浓缩、压滤脱水的原理和技术, 开发了新型带式浓缩压滤一体机, 组成全新一代浓缩——压滤脱水一体机。污泥经投加凝聚剂后进行充分混合反应流入浓缩段的进料分配器, 将污泥均匀到倾斜式的浓缩段上, 并在泥耙的双向导流和重力作用下, 污泥随着滤布的移动, 迅速脱去污泥的游离水。重力脱水后浓缩污泥反转机构将污泥输送至带式压滤机的重力脱水段进一步脱水。然后喂入“S”形压榨段, 在“S”形压榨段中, 污泥被夹在上、下两层滤布中间, 经若干个不同直径辊筒反复压榨, 促使泥饼再一次脱水, 最后通过刮刀将泥饼刮落, 而上下网带在运行过程中不断地被自动清洗。该机具有生产能力强, 污泥脱水率高的特点。被广泛的应用于市政污泥、尾矿、酒精废液、洗煤厂煤泥、造纸厂污泥、屠宰厂污泥、洗车厂污泥以及各类污水处理工艺中产生的污泥。
- On the basis of RBYL belt filter press, we absorbed the latest mechanical concentration and dewatering method in foreign countries and developed the new integrative concentrated, press filter and dewatering machine for sludge. Sludge fully reacts with coagulant will flow into material distributor in concentration part then dewatered along the movement of filter cloth under two-way guidance of mud rake and gravity. Reverse mechanism will transfer sludge to gravity dewatering area for further dewatering and in S-shape area pressed by roller with different diameters, sludge is again dehydrated between upper-lower filter cloth. Finally it will be scraped and cloth be cleaned during operation automatically. It features large productivity and high dewatering capacity and is applicable for treating sludge produced from tailings, ethanol residue, coal mud, paper mill, slaughter industry and car wash factories etc.

设备技术参数 Technical parameter

型号 Model	带宽 bandwidth	功率 (kw) Power		冲网水 Blunt water net		压缩空气 compressed air		运行重量 (kg) weight
		浓缩 enrichment	压滤 filter	耗水量(m³/h) water consumption	压力 (Mpa) pressure	耗气量 Gas consumption	压力 (Mpa) pressure	
DNY-500	500	500	500	5.0	>0.5	0.3	68.6	6800
DNY-1000	1000	1000	1000	7.5	>0.5	0.3	68.6	11600
DNY-1500	1500	1500	1500	12.0	>0.5	0.3	68.6	12200
DNY-2000	2000	2000	2000	15.0	>0.5	0.4	68.6	13800
DNY-2500	2500	2500	2500	25.0	>0.5	0.4	68.6	14300
DNY-3000	3000	3000	3000	30.0	>0.5	0.4	68.6	16600

REMOVABLE DISC TYPE VACUUM BELT FILTER

移动盘式真空过滤机



一、概述 DESCRIPTION

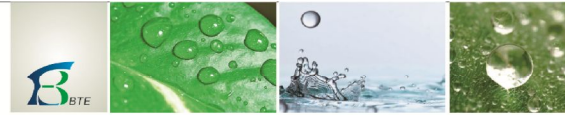
- D型移动盘式真空过滤机是一种高效、应用非常广泛的真空过滤设备。它主要由进料装置、滤饼洗涤装置、真空室（滤盘）、驱动辊、滤带、滤布张紧装置、滤布导向装置、滤布清洗装置、驱动装置、真空切换阀、气控箱、卸料装置等组成。工作时，真空室（滤盘）随滤带一起水平移动，并且过滤、洗涤、脱水、卸饼等操作同时进行；当真空室（滤盘）移动到一定位置时，由于气控系统和真空切换阀的动作，真空室（滤盘）除去真空，迅速返回初始位置，再恢复真空，吸上述带继续向前移动。如此周而复始。
- Removable disc type vacuum filter is a kind of vacuum filtering equipment with high efficiency and wide application fields. It mainly consists of feeding device, filter cake washing device, vacuum chamber (filter disc), driving roller, filter belt, filter cloth tension device, filter cloth guide device, filter cloth washing device, driving device, vacuum switch valve, gas control box, discharging device, etc. While working, vacuum chamber (filter disc) is moving along with filter belt, at the same time it is filtering, washing, dewatering, discharging filter cake etc.; when vacuum chamber (filter disc) move to a certain position, because of the action of gas control system and vacuum switch valve, it removes off the vacuum, then returns to the initial position rapidly to restore vacuum and takes filter belt to continue moving forward. It runs in cycle like this.

二、产品优点

- 1、性能优势：
D型移动盘式真空过滤机过滤效率高、滤饼洗涤效果好、滤布再生彻底、操作灵活、维修费用低，滤饼洗涤方式可采用多级逆流或并流洗涤。特别适合于沉降速度较快、滤饼需多级洗涤的工艺过程
- 2、配备优势：
(1) 专利技术的真空自动平衡排水系统。无须控制，自动排水。A、B两种型号供选择；
(2) 新型滤带自动快速纠偏装置；
(3) 新型滤液集流系统；
(4) 气控切换系统。切换快速，动作准确；
(5) 特别的真空密封装置。密封性能好，使用寿命长
- 3、性能优势
High filtering efficiency, good filter cake washing efficiency, filter cloth recycling thoroughly, flexible operation, low maintenance cost. For filter cake washing way, it can use multistage counter-current or cocurrent flow. It is especially suitable for technical process with faster sedimentation velocity and the filter cake need multistage wash.
- 4、配备优势
1). The patented technology of vacuum automatic balanced drainage system. It doesn't need to control and discharges liquid automatically. Two models A and B can choose.
2). New filter belt with automatic speedy correction device.
3). New filtrate collecting system.
4). Gas control switching system. Switch fast, act accurately.
5). Special vacuum sealing device. Good seal performance, long service life.

三、应用范围：

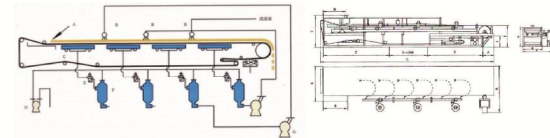
- 化学工业：酒精、碳酸钙、硫化钠、氯酸钾、合成树脂、各种单体、活性碳、氢氧化铝、铬酸盐、塑料、橡胶助剂、杀菌剂、氧化铁、氧化铅、涂料、染料及其中间体、分子筛、催化剂等。
- 肥料：碳酸钙、磷石膏、硝酸钙、钙（NPK）、硝酸钙的泥聚。
- 食品：柠檬酸钙、柠檬酸（在钙中）、乳糖、蛋白质（马铃薯）、植物油、蔗糖、草酸钙、漂白土油等。
- 医药：抗菌素、氯化铵、氯化苏打、酶、轻泻剂、青霉素盐、镇静剂、维生素等。
- 矿业冶金：钛铁矿、钨矿的分解物、钨矿的提取、稀土矿的浸出和提取、氢氧化铝、氧化铝、金红石、光卤石、钾盐、铜渣、金属的浮选精矿、金精矿、红泥、黄金的沉淀物、煤的泥聚（煤的浮选物和细粉）等。
- 造纸：造纸废水、工业废水、造纸纸浆等。环境保护：工业的排放废水、污水泥聚。



山东贝特尔环保科技有限公司
脱水设备、固液分离设备

Application Scope

Chemical industry: alcohol, calcium carbonate, sodium sulfide, potassium chlorate, synthetic resin, all kinds of monomer, active carbon, aluminum hydroxide, chromate, plastic, rubber industry additives, fungicide, ferric oxide, lead oxide, coating, dye and its intermediates, molecular sieve, catalyst, etc.
Fertilizer: slurry after calcium carbonate, phosphogypsum, nitrate of lime, calcium sulfate (NPK) and saltpetre phosphorus methods.
Foods: calcium citrate, citric acid (in calcium sulfate), lactose, protein (potatoes), vegetable oil, cane sugar, calcium oxalate, bleaching earth oil, etc.
Medical field: antibiotics, ammonium chloride, fluoride soda, enzymes, aperient, penicillin salt, sedative, vitamin, etc.
Mining metallurgy: limonite, uranium decomposer, aluminum ore extraction, rare earth mineral leaching and extraction, aluminum hydroxide, alumina, rutile, canellite, sylite, copper slag, metal flotation concentrate, gold concentrate, red mud, gold precipitate, coal mud (coaly floatation and fines), etc.
Paper: paper-making effluent, industry waste water, filter paper pulp, etc.
Environmental protection: industrial wastewater, sewage mud.



A、加料装置 H、真空室 G、退水泵 F、排液分离器 E、切换阀 D、洗布装置 C、纠偏装置 B、洗涤装置
A. Feeding device H. vacuum pump G. backwater pump F. drainage separator E. changeover valve
D. cloth washing device C. adjusting device B. washing device

设备技术参数 Technical parameter

过滤宽度	0.625-2.0(m)				2.5-3.0(m)		0.625m		1.25		1.6		2.0		2.5		3.0	
过滤长度	N	L	N	L	过滤面积	重量	过滤面积	重量	过滤面积	重量	过滤面积	重量	过滤面积	重量	过滤面积	重量	过滤面积	重量
3000	0	6125	1	6150	1.9	2400	3.8	2850	4.8	3100	6.0	3400	7.5	3800	9.0	4200		
4500	1	7625	2	7650	2.8	2600	5.6	3100	7.2	3400	9.0	3750	11.3	4200	13.5	4650		
6000	2	9125	3	9150	3.8	2800	7.5	3350	9.6	3700	12.0	4100	15.0	4600	18.0	5100		
7500	3	10625	4	10650	4.7	3000	9.4	3600	12.0	4000	15.0	4450	18.8	5000	22.5	5550		
9000	4	12125	5	12150	5.6	3200	11.3	3825	14.4	4300	18.0	4800	22.5	5400	27.0	6000		
10500	5	13625	6	13650	6.6	3400	13.1	4100	16.8	4600	21.0	5150	26.3	5800	31.5	6450		
12000	6	15125	7	15150	7.5	3600	15.0	4350	19.2	4900	24.0	5500	30.0	6200	36.0	6900		
13500	7	16625	8	16650	8.4	3800	16.9	4600	21.6	5200	27.0	5850	33.8	6600	40.5	7350		
A					600		600		600		600		500		500			
B					2400		2400		2400		2400		2000		2000			
C					3000		3000		3000		3000		2000		2000			
D					1550		1550		1650		1650		1700		1700			
E					1100		1880		2200		2600		3150		3650			
F					2100		2800		3200		4200		4150		4650			
G					973.5		973.5		973.5		973.5		1028.5		1028.5			
H					1348.5		1348.5		1348.5		1348.5		1403.5		1403.5			
I					585		585		585		585		612		612			
J					1104		1104		1104		1104		1163		1163			
K					2030		2030		3136		3536		4146		4646			
M					1300		1300		1300		1300		1300		1300			
R					1250		1250		12500		1250		1350		1350			
S					1400		1400		2500		2900		3450		3950			
T					1670		1670		1770		1770		1870		1870			

MICRO FILTRATION MACHINE

微滤机(转筒式格栅)



概述 DESCRIPTION

- 该设备是吸收新西兰万全机技术，针对我国国情开发的一种新型微滤机。它广泛用于需进行固液分离的各种场合，如城市生活污水、造纸、纺织、印染、化工、屠宰污水等的过滤。尤其适用于造纸白水的处理，达到封闭循环重复使用。
- It is developed on the basis of New Zealand machine, a new kind of micro filter device suitable for our country. It is widely used for solid-liquid separation, such as filtering of domestic sewage, paper mill, textile, printing, chemicals, slaughtering sewage etc. Especially for white water treatment so as for water reuse.

设备技术参数 Technical parameter

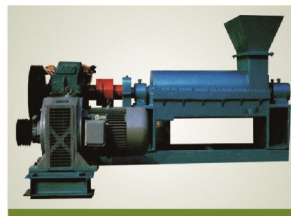
型号model	RBWL ₁	RBWL ₂	RBWL ₃	RBWL ₄	RBWL ₅	RBWL ₆
处理水量 (m³/h) Capacity	50-100	80-150	100-200	120-240	150-300	250-500
过滤面积 (m²) Filter area	5	7	9	11	14	20
网目Mesh	60-250					
功率 (kw) Power	1.5	2.2	2.2	2.2	3	4

SPIRAL DEWATERING MACHINE

螺旋脱水机

设备技术参数 Technical parameter

型号model	ZSJ-250	ZSJ-400
生产能力t/d Capacity	10-50	30-40
螺旋直径mm Screw Diameter	250	400
螺旋转速/min Rotate Speed	10-20	
进浆浓度% Feeding Concentration	7-11	
出浆浓度% discharge Concentration	30-40	
减速机 Speed Reducer	ZQ500-V-II	ZQ650-V-II
电动机 Motor	YCT250-4B/22	YCT315-4B/45
设备重量kg Weight	3200	5500



概述 DESCRIPTION

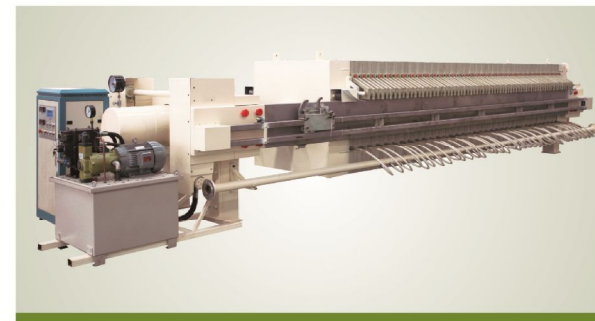
- 螺旋脱水机是我公司吸收借鉴国外同类设备而开发一种产品，是一种全新的连续式脱水设备，适用于渣类、纤维、藻类等非流体物料的脱水。该机还是造纸制浆过程中黑液提取及洗涤的理想设备，可以减少漂洗次数和时间，节约水资源。
- Drawn on the experience of overseas technology, we developed our new consecutive dewatering equipment that can be used for dewatering of non-fluid material such as dregs, fiber and alga etc. As an ideal device for black liquor extraction and rinsing during pulping, it reduces rinsing time and improves water conservation.



山东贝特尔环保科技有限公司
脱水设备、固液分离设备

PLATE-AND-FRAME (TYPE) FILTER PRESS

板框式(污泥)压滤机



概述 DESCRIPTION

- 板框式压滤机是一种间歇性固液分离设备，是由滤板、滤框排列构成滤室，在输入泵的压力作用下，将料液送进各滤室，通过过滤介质，将固体和液体分离。广泛用于化工、染料、石油、陶瓷、制药、制糖、食品、淀粉、饴糖、油漆、冶金及各行业的污水处理等。它具有分离效果好、适用范围广、操作简单、投资省等优点，特别是对粘细物料的分选，有着不可比拟的优越性。
- Plate-and-frame type filter press is a device for intermittent solid-liquid separation with plate, frame as filter room where liquid was transferred into by conveying pump, solid-liquid separation will be achieved by filter media. It is widely used in wastewater treatment for industries, such as chemical engineering, dyes, petroleum, pottery, pharmaceutical, sugar and food manufacturing, starch, syrup, painting, metallurgy and so on. It has a superiority in separation of adhesive material with advantages of good performance, wide application, easy operation, low cost etc.

设备技术参数 Technical parameter

1、手动（液站）压紧

规格Spec	过滤面积Filter area	材质Material	形式Form
450	1²~30²	聚丙烯、钢骨架复合橡胶PP, Steel compound rubber	箱式、板框式Box, plate-frame
630	10²~40²	聚丙烯、钢骨架复合橡胶PP, Steel compound rubber	箱式、板框式Box, plate-frame

2、XJ型机械压紧压滤机

规格Spec	过滤面积Filter area	材质Material	形式Form
630	15²~40²	聚丙烯、钢骨架复合橡胶PP, Steel compound rubber	箱式、板框式Box, plate-frame
870	40²~100²	聚丙烯、钢骨架复合橡胶PP, Steel compound rubber	箱式、板框式Box, plate-frame

3、XJ型液站压紧、机械锁紧压滤机

规格Spec	过滤面积Filter area	材质Material	形式Form
930	40²~100²	聚丙烯PP	箱式、一板一框Box, one plate one frame
1000	100²~80²	聚丙烯、钢骨架复合橡胶PP, Steel compound rubber	箱式、一板一框Box, one plate one frame
1250	130²~300²	聚丙烯、钢骨架复合橡胶PP, Steel compound rubber	箱式Box

4、XJZ型全自动压滤机

规格Spec	过滤面积Filter area	材质Material	形式Form
1000	100²~180²	聚丙烯、钢骨架复合橡胶PP, Steel compound rubber	箱式、一板一框Box, one plate one frame
1250	130²~300²	聚丙烯、钢骨架复合橡胶PP, Steel compound rubber	箱式Box
1500	160²~500²	聚丙烯、钢骨架复合橡胶PP, Steel compound rubber	箱式Box

HORIZONTAL TYPE SPIRAL CENTRIFUGAL MACHINE

卧式螺旋离心机

概述 DESCRIPTION

- 卧式螺旋沉降离心机简称卧螺离心机，它是一种卧式螺旋卸料、连续操作的高效离心分离、沉降设备。卧螺离心机一般可分为卧式螺旋过滤离心机和卧式螺旋沉降离心机。卧螺离心机适用于对工业和民用污水处理过程中产生的污泥进行脱水，同时也广泛用于化工、轻工、制药、食品、环保等行业。
- Horizontal type spiral precipitated centrifugal machine is called horizontal type spiral centrifugal machine for short. It is a high efficiency horizontal type spiral centrifugal equipment for discharging and separation and precipitation. Generally, it can be divided into horizontal type spiral filtering centrifugal machine and horizontal type spiral precipitated centrifugal machine. It is widely used for dehydration for the sludge in industrial and domestic sewage, besides, it is also used in chemical industrial, pharmacy, food and environmental protection industry, etc.

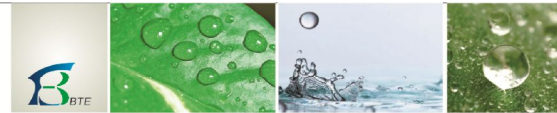


工作原理 WORKING PRINCIPLE

- 转鼓与螺旋以一定差速同向高速旋转，物料由进料管连续引入输料螺旋内筒，加速后进入转鼓，在离心力场作用下，较重的固相物沉积在转鼓壁上形成沉渣层。输料螺旋将沉积的固相物连续不断地推至转鼓锥端，经排渣口排出机外。较轻的液相物则形成内层液环，由转鼓大端溢流口连续溢出转鼓，经排液口排出机外。本机能在全速运转下，连续进料、分离、洗涤和卸料。
- While drum and spiral are rotating fast with a certain differential speed, material are introduced into transporting spiral internal cylinder continuously from feed pipe, then enter into drum after speeding up. The heavier solid phase matter would deposit on the drum wall and form sediment layer under the role of centrifugal field. Transporting spiral will push the sedimentary solid phase content to the cone point of drum continuously, and discharge out of the machine from slag-drip opening. The lighter solid phase matter form lining liquid loop, and overflow out of drum from main opening, then discharge out of machine from drain connection. This machine can complete feeding, separating, washing and discharging continuously while working at full speed.

设备技术参数 Technical parameter

数据	项目	转鼓直径 × 长度	鼓转速 r/min	最大 分离 因数	混合液 处理量 m³/h	差转速	电动机			主机 重量kg	外形尺寸	转鼓 结构	工作 方式	备注
机型							型号	转速	主机 功率kw	辅机 功率kw				
LW-250	φ250×963	4800	3226	2.5	20	YD1325-2/4	2920/1460	5.5/4.5		1000	1890×1100×700	单链	连续	
LW-250A	φ250×1040	4800	3226	3-6	3-35	Y132S-2	2900/2870	7.5	3	1200	2330×1200×755	单链	连续	双电机 双变频
LW-350	φ350×1300	4500	3969	3-10	16	YD160M2-2	2920/1460	11/9		1800	2330×1200×755	单链	连续	
LW-350-1	φ350×1530	4500	3969	4-12	16	Y160M2-2	2930	15		2000	2830×1200×755	单链	连续	
LW-350A		4500	3969	5-15	5-35	Y160M2-2	2930/2900	15	7.5	2000	2880×1200×755	单链	连续	双电机 双变频
LW-360	φ360×1500	4500	4078	5-15	3-20	Y180M2-2	2950	22	7.5	2050	2850×1400×800	单链	连续	双电机 双变频
LW-430		4000	3853	5-25	20	Y20CL1-2	2950	30		2700	3160×1380×665	单链	连续	
LW-430A	φ430×1763	4000	3853	6-30	5-30	Y20CL1-2	2950/2900	30	7.5/11	3000	3160×1410×666	单链	连续	双电机 双变频
LW-450		4000	4032	6-30	20	Y20CL1-2	2950	30		3200	3210×1420×930	单链	连续	
LW-450A	φ450×1800	4000	4032	10-35	5-35	Y20CL2-2	2950/2930	30	11	3500	3210×1470×930	单链	连续	双电机 双变频
LW-500	φ500×1858	4000	4480	6-25	20	Y225S-4	1480	30		3700	3680×1560×960	单链	连续	
LW-500A	φ500×2100	4000	4480	15-50	5-35	Y225M-4	1480/1460	37	15	4000	3680×1650×960	单链	连续	双电机 双变频
LW-530A	φ530×2230	3800	4286	20-70	5-35	Y225M-4	1480/1470	37	15	4500	3820×1750×1000	单链	连续	双电机 双变频
LW-650A	φ650×2600	2800	2854	30-90	5-35	Y280S-4	1480/1470	55	18.5/22	6000	4260×1900×1150	单链	连续	双电机 双变频
LW-720A	φ720×2880	2520	2520	40-110	5-35	Y280M-4	1480/1470	75	22	8000	4700×2200×1400	单链	连续	双电机 双变频



山东贝特尔环保科技有限公司
脱水设备、固液分离设备

MECHANICAL GRILLE

机械格栅除污机



概述 DESCRIPTION

- 自清式格栅除污机主要由机架、驱动装置、齿耙及传动链条组成。由ABS工程塑料、尼龙6、尼龙1010或不锈钢制成特殊形状的耙齿按一定次序装配在齿耙轴上，形成一条封闭的耙齿链。水下栅片（耙齿）截留污物沿轨上行，当达到顶部时，因弯轨和齿轮的导向作用，使相邻耙齿间产生相对推移运动，将污物外推，依自重卸入污物盛器内。同时特制刮刷将齿面上微量残留污物剔除干净。
- 本产品广泛应用于给水、排水的二道格栅及无粗大漂浮物的取水构筑物进水口；也可用于造纸、纺织、皮革、酿酒、榨糖、水产等工业废水及市政污水。
- 链条回转式多耙平面格栅除污机是在消化吸收国内外同类产品先进技术的基础上进行开发研制的新机型，它由多块齿耙（一般4-8块）按一定的间隔均匀分布在牵引环链上，组成多耙回转体，齿耙从拦污栅条后方下行，通过水下链轮换向后运行至栅条前部，自下而上把除栅条截留的污物，沿挡板捞至卸渣口，卸入污物贮桶或通过输送机、压榨机等附属设备外排。
- 本产品适用于给水、排水、取水构筑物进水口的头道、二道格栅井。
- Self-cleaning screen waste remover is composed of main frame, driving device, tooth harrow and transmission chains. Teeth with ABS, nylon 6, nylon 1010 or stainless steel material are ranked on axis to form a seal chain. It pushes waste to flow into tank instead of to the top guided by rail and wheel. And brush will clean the residue on teeth.
- It is installed at water inlet of secondary grill and other water intake units where no large particles are in water. It is also can be used for industrial and municipal sewage of industries such as paper mill, textile, leather, wine and sugar making, fishing etc.
- Chain rotor multi teeth screen waste remover is developed on the basis of advance technology from similar products both at home and abroad. Several teeth (4-8 pcs) are uniformly placed on chains with certain space, it moves from back of grill to front so as to push waste to discharging pole along preventing board where waste can be moved by transferring device or presser.
- It is suitable for usage at premier and secondary fence of water inlet of water intake units.

设备技术参数 Technical parameter

型号 Model	有效栅宽 Grille width	沟渠宽度 Channel width	栅齿间隙 (mm) Grille interstice	栅网速度 (m/min) Grille speed	卸渣高度 Discharge height	格栅倾角 Grille angle	电机功率 (kw) Power
GSC300	300	500	1-60	2.2	用户自定By User	60-80°	0.75
GSC500	500	700	1-60	2.2	用户自定By User	60-80°	0.75
GSC800	800	900	1-60	2.2	用户自定By User	60-80°	1.1
GSC1000	1000	1200	1-60	2.2	用户自定By User	60-80°	1.1
GSC1200	1200	1400	1-60	2.2	用户自定By User	60-80°	1.5
GSC1500	1500	1700	1-60	2.2	用户自定By User	60-80°	1.5
GSC1800	1800	2210	1-60	2.2	用户自定By User	60-80°	2.2
GSC2200	2200	2610	1-60	2.2	用户自定By User	60-80°	3.0

SHAFTLESS SCREW CONVEYOR 无轴螺旋输送机

概述 DESCRIPTION

- 该设备适用于连续均匀输送较松散的、有粘性的、易缠绕物料，输送物料温度最高可达100℃，最大倾角小于45°。广泛应用于建材、化工、环保、电力、医药、冶金、食品等行业。特别适用于污水处理厂中输送泥沙、格栅渣和污泥脱水后产生的泥饼等物料。物料从进料斗进入螺旋管，无轴螺旋体将物料输送到需要的位置排放。
- 本产品主要由驱动装置、输送螺旋、U形槽、衬板、盖板、进料口、出料口、机盖（需要时）、底座等组成。
- 螺旋压榨机主要用来对格栅分离出的栅渣进行螺旋压榨脱水，减小栅渣的容积，去除栅渣中绝大部分水份，以利于运输与填埋。
- It is for consecutive transferring of loosen, adhesive and tangling material with max. temperature reaches 100℃ while max. inclination of machine is less than 45°. It is widely used in industries such as construction material, chemical engineering, environmental protection, electrical power, pharmaceutical and food, especially for conveying sand, grill residue and mud from sludge dewatering etc.. Material enters into spiral pipe from feed hopper and will be discharged at the correct position.
- This machine is mainly composed of driving device, transferring spiral, U-shape slot, lining board, cover plate, inlet and outlet, machine lid (if necessary) and base etc.
- Spiral pressure is used for dewatering of grill residue so as to reduce the vol. for easy transportation and landfill.



设备技术参数 Technical parameter					
型号 Model	槽体宽度 (mm) Width of blade	螺旋 (mm) Screw pitch	转速 (r/min) Rotate speed	输送量 (M³/h) Delivery amount	
WLS200	55	180	12-20	4	
WLS250	75	200	12-20	8	
WLS300	100	280	12-20	12	
WLS350	120	350	12-20	20	
WLS400	135	350	12-20	28	
WLS500	160	400	12-20	40	

OBLIQUE TUBE (PLATE) SEDIMENTATION DEVICE 斜管(板)沉淀器

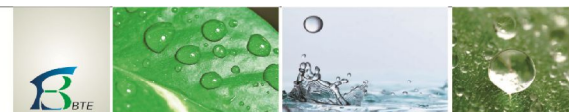
概述 DESCRIPTION



- 斜板(管)沉淀器是根据浅池沉淀理论设计出的一种高效组合式沉淀器,也统称为浅池沉淀器。在沉降区域设置许多密集的斜管或斜板,使水中悬浮杂质在斜板或斜管中进行沉淀,水沿斜板或斜管上升流动,分离出的泥渣在重力作用下沿着斜板(管)向下滑至池底,再集中排出。这种池子可以提高沉淀效率50~60%,在同一面积上可提高处理能力3~5倍。该设备适用于电镀、煤矿、选矿、印染、漂染、制革、食品、化工等工业废水的处理。
- Plate (tube) sedimentation tank is a high-efficiency combination type sedimentation tank designed on the basis of shallow tank theory. With dense plates or tubes in depression area, suspended impurities will sediment while water flow along those plates or tubes. Separated sludge will settle to the tank bottom by gravity and be discharged from there. This tank can increase efficiency 50%-60% or treating capacity 3-5 times on the same area. It is used for waste water treatment of electroplate, ore dressing, printing, leather, food, chemical industry and so on.

设备技术参数 Technical parameter

型号 Model	XG-5	XG-10	XG-15	XG-20	XG-25	XG-30	XG-40	XG-50
处理能力 (T/H) Capacity	5	10	15	20	25	30	40	50
设备尺寸 (m) Size	2.5×2×2.7	3.5×2×2.7	5×2×2.7	6×3×2.8	8×3×2.8	9×3×2.8	10×3×2.8	12×3×2.8



山东贝特环保科技有限公司
脱水设备、固液分离设备

CERAMIC FILTER 陶瓷真空过滤机



概述 DESCRIPTION

- BTC陶瓷真空过滤机集机电、微孔陶瓷、超声技术为一体，依靠真空吸力和毛细作用实现固液分离的新型高效、节能过滤设备。广泛应用于矿山、冶金、化工、环保等行业。
- BTC ceramic vacuum filter sets Electromechanical, porous ceramic, ultrasonic technology as a whole, rely on efficient, energy-saving vacuum suction filtration equipment and capillary action to achieve solid-liquid separation. Widely used in mining, metallurgy, chemical industry, environmental protection and other industries.
- 高真空度 (真空度0.09~0.098Mpa), 滤饼水分低, 滤液含固量<50ppm。可反复利用, 减少排放。
- 与传统过滤设备相比能节省约90%以上, 能耗低, 运行成本低。
- 与传统陶瓷过滤机相比增加了滤饼洗涤, 适用需洗涤的物料。
- 自动化程度高, 降低劳动强度。
- 结构紧凑, 占地面积小, 安装维护方便。
- 采用先进的排液系统, 可适合任何工况条件下使用。
- High vacuum (pressure 0.09~0.098Mpa), low moisture of filter cake, Solid content of filtrate < 50ppm. Can be repeatedly used, reducing emissions. Compared with traditional filtering equipment energy saving about 90% above, low energy consumption, low operation cost. Added compared with traditional ceramic filtering device filter cake washing, suitable for washing materials. A high degree of automation, reducing labor intensity, Compact structure, small occupation area, convenient installation and maintenance. Advanced drainage system, suitable for any use of working conditions.

设备技术参数 Technical parameter

型号 Model	滤盘(圈) Filter plate(circle)	滤板数量(块) number plate (block)	槽体容积 (m³) Tank volume	装机功率 (kw) Installed power	运行功率 (kw) Operating power	长×宽×高 (m) Length x width x height
BTC-1	1	12	0.4	7.6	6.6	2.2×1.95×1.63
BTC-4	2	24	0.79	9	7.32	2.45×2.25×1.83
BTC-6	3	36	0.94	10.5	7.98	2.7×2.25×1.83
BTC-8	4	48	1.28	11.5	8.14	3.04×2.25×1.83
BTC-12	6	72	1.79	13	7.96	3.6×2.25×1.83
BTC-24	8	96	3.96	23	16.28	4.45×2.85×2.25
BTC-30	10	120	4.6	25.15	17.95	5.1×2.85×2.24
BTC-45	10	120	5.9	40	30.4	5.7×3.2×2.5
BTC-60	14	168	8.1	43.81	30.37	6.82×3.2×2.5



山东贝特尔环保科技有限公司
刮泥、吸泥设备

XSC BELL TYPE SAND REMOVING MACHINE

XSC型螺旋钟式除砂机

概述 DESCRIPTION

- 钟式除砂机系统是一种新引进的技术，用于给排水工程去除直径0.2以上的大部分砂粒，去除率98%以上。
- 污水从沉砂池的切向进入，具有一定的流速，从而对砂粒产生离心力，使较重的砂粒，沿池壁及沉砂池独特的结构沉降到池底集砂槽，同时防止细小砂粒下沉。通过先进的空气提升系统为沉砂的排出提供良好的条件，直接将沉砂粒输送到砂水分离器设备中，实现砂粒与污水的彻底分离。
- 钟式除砂机系统在运行中，进出口水流速较高，处理量大，出砂效果好，占地面积小，设备结构简单，节约能源，运行可靠，操作及维护方便，适合大中小型污水处理厂使用。
- Over 98% of sand particles with dia. not less than 0.2 can be removed by this bell type sand removing machine.
- Centrifugal force created from sewage flowing into sediment tank tangentially with certain speed makes heavy particles settle to bottom sand tank. Advanced air lifting system offers favorable condition for discharging sand to separation device directly.
- High flow rate in inlet and outlet during operation ensures large treating capacity and good treating effect. It is suitable for various sewage treating factories with features of small occupation, simple structure, energy saving, stable performance and convenient maintenance.



设备技术参数 Technical parameter

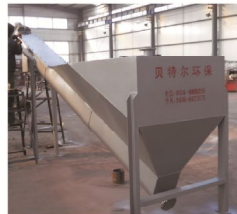
型号 Model	XSC1.8	XSC3.6	XSC6.0	XSC10	XSC18	XSC30	XSC46	XSC60	XSC78
流量 Capacity	180	360	600	1000	1800	3000	4600	6000	7800
电机功率 Power	0.55	0.55	0.55	0.75	0.75	1.1	1.1	1.5	2.2

LSF SERIES SAND-WATER SEPARATOR

LSF型砂水分离器

概述 DESCRIPTION

- 螺旋式砂水分离器适用于污水处理厂（站）的沉砂池，是污水处理中处理砂水混合液的设备。砂水混合液从分离器一端顶部输入水箱，混合液中类似干砂粒等比重较大的杂质沉积于槽形底部，在螺旋叶片的推动下，砂粒沿斜置的U型槽底提升，离开液面后继续推移一段距离，在砂粒充分脱水后经排砂口卸至盛砂桶。而与砂分离的水则从溢流口排出，达到砂水分离的目的。另外，砂水分离器进水口处还可设置一套筒式旋流分离器，污水沿筒切线方向进入旋流使砂粒下沉进入螺旋分离器，溢流液同沉砂池或格栅井，起到预沉砂及调节水量的作用，提高砂水分离器的分离效果。
- Spiral type grit-water separator, a kind of machine for treating grit-water mixed liquor is used for grit chamber in waste water treatment plant. Liquid goes into water tank from top of separator. Impurities with big gravity such as sand particles will settle to the slot bottom and flow along tilt U-shape slot by helical blade to sand bucket through discharging hole after fully dewatered while water to overflow port. A cylindrical cyclone pre-separator can be used at water inlet before separator, waste water will flow into eddy current in tangential direction and sand particles will settle into separator while water flow to grit chamber or screen so as to realize pre-sifting and water regulation and enhance effect of separator.



设备技术参数 Technical parameter

型号 Model	LSF-260	LSF-320	LSF-360	LSF-420
螺旋直径 (mm) Screw diameter	220	280	320	380
处理量 (L/s) Capacity	5~12	12~20	20~27	27~35
电机功率 (kw) Power	0.37		0.75	
转速 (r/min) Rotate speed	5		4.8	

PERIPHERAL DRIVE MUD SCRAPER

周边传动刮(吸)泥机

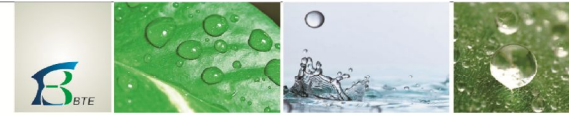


概述 DESCRIPTION

- 该机适用于大中型辐流式二次沉淀池的排泥与除渣。
- 该机为中心支墩双（单）周边传动，其传动力矩大、节能。采用中心进水和排泥，周边排水，保证水流均匀，利用液位差自吸式排泥，设有过载保护装置，可与微机联网控制。
- 工作时，污水由中心支墩处经导流筒扩散，混合液中粗大的颗粒经沉淀后在池底形成污泥层，比重较轻的浮于液面。工作桥在周边驱动机构的带动下，沿中心支墩缓慢旋转，带动刮臂刮板将污泥逐层由池周刮向中心集泥孔排出池外，浮渣刮板导流筒将浮于液面的浮渣抛向池周的排渣斗内，排出池外。
- This machine is used to discharge sludge and remove ash for large and medium radial flow type secondary settling tank.
- Its central buttress double (single) traction ensures large drive torque and energy saving. Central water inlet and sludge discharge together with peripheral drainage ensures even water flow and self-suction type of sludge discharge by hydraulic level difference. Over-load protective device can be connected with computer.
- Waste water will diffuse through draft tube from central buttress during work and large particles settle at the bottom of the tank to form sludge layer while light weight particles float on the liquid surface. Driven by peripheral driving device, service bridge rotates around central buttress slowly thus sludge was accumulated to central pole by scraping plate, scum scraper helps discharge sludge by throwing them into peripheral slag hopper through draft tube.

设备技术参数 Technical parameter

型号 Model	池径m Pond diameter	周边线速度m/min Speed	电机功率kw Power		推荐池深m Pond depth	池低坡度 Gradient
			全桥 whole bridge	半桥 half bridge		
ZBX-16	16	1~2	0.37×2	0.37	3~4	1:10
ZBX-20	20		0.55×2	0.55		
ZBX-24	24		0.75×2	0.75		
ZBX-30	30		0.75×2	0.75		
ZBX-35	35		0.75×2	0.75		
ZBX-40	40		1.1×2	1.1		
ZBX-45	45		1.5×2	1.5		
ZBX-50	50		1.5×2	1.5		



山东贝特尔环保科技有限公司
刮泥、吸泥设备

CENTRE DRIVE MUD SCRAPER

中心传动刮(吸)泥机

概述 DESCRIPTION

- ZXG型中心传动浓缩刮泥机，适用于各种圆型污泥浓缩池的刮泥与排泥。该机为中心传动，其传动力矩大，节能。通过上部进水管，经稳流筒配水，中心排泥，周边排水，保证水流均匀。设有过载保护装置，可与微机联网控制。
- ZXG center drive mud scraper is suitable for scraping and discharging sludge of round concentrated tanks. Its central drive type ensures large drive torque and energy saving. Upper water inlet pipe and steady flow tank for water distribution together with central discharge and peripheral drainage ensures even water flow. Over-load protective device can be connected with computer.



设备技术参数 Technical parameter

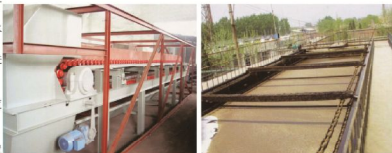
型号 Model	池径m Diameter	周边线速度m/min Speed	电机功率kw Power	推荐池深m Pond depth	重量kg Weight
ZXG-08	8	0.85	0.55	3-5	3100
ZXG-10	10	1.10	0.55	3-5	3700
ZXG-12	12	1.30	0.75	3-5	4500
ZXG-14	14	1.50	0.75	3-5	5700
ZXG-16	16	1.70	0.75	3-5	5850
ZXG-18	18	1.90	0.75	3-5	6100

CHAIN TYPE OIL/DREGS SCRAPER

链板式刮油、刮渣机

概述 DESCRIPTION

- 链板式刮油刮渣机适用于炼油厂、水厂或污水处理厂的沉淀池、沉沙池、隔油池等矩形池的撇浮油、浮渣和刮泥沙。
- 本设备应与集油管、排泥阀等辅助装置配合使用，才能将水面浮油渣和池底的泥沙分离出来，完成初次净化处理。
- 污水进入沉淀之前必须先经格栅初滤，防止较大的漂浮物进入池内。
- 链板式刮油刮渣机的特点：
- 刮板在二平行链的带动下，在池中作连续直线运动。运行速度较慢，对污水扰动小，有利于泥沙的沉淀和刮泥能力的提高。
- 二条平行封闭链的循环运行，使上下链的运行方向自然转向。不必控制住返转向，简化了控制程序，节约了成本。驱动装置设在池顶的平台上，方便了设备电器的护理和维修。
- Chain type skimming-oil and scraping-sediment machine is suitable for oil skimming and sediment scraping of rectangle pool such as sedimentation basin and separation tank in oil refinery factory, water production factory and wastewater treatment factory.
- This machine should be used together with oil gathering pipe and sludge discharging valve to separate oil residue and sand for primary purification.
- Wastewater should flow into tank through grill so as to prevent large vol. particles.
- Features:
- Driven by two parallel chains, scraper moves linearly with a low speed that improves sedimentation and scraping capacity while causes no big disturbance to waste water.
- Circulating movement of two parallel closed chains ensures natural steering which simplifies control system and reduces cost. Driven device is installed on the platform of tank for convenient maintenance of machine.



LANE DRIVING TYPE MUD SCRAPING MACHINE(SUCTION)

行车式刮(吸)泥机



概述 DESCRIPTION

- 行车式刮(吸)泥机广泛用于平流式沉淀池的污泥刮、吸。本机结构紧凑，工作可靠，并配有自动控制和过载保护系统。轨道间距4米以下吸泥机采用中间集中驱动，间距6米以上时采用两端同步驱动。
- On rail type mud scraper is suitable for scraping and suction sludge of horizontal-flow sedimentation tank. It features compact structure and reliable performance with auto-control and over-load protective device. Rail distance less than 4m adopts central drive type and for distance exceeds 6m adopts both ends drive type.

设备技术参数 Technical parameter

型号 Model	池宽m Pond width	池深m Pond depth	行走速度m/min Speed	泵吸排泥量m³/h Mud discharge	功率kwPower		配用轻轨kg/n Light rail	
					行走Motor	泵吸Pump		
HJX-4	4	3.5-5	1-1.2	20-35	0.37	3	15	
HJX-6	6			2× (15-30)	2×0.37	2-22		
HJX-8	8			2× (15-35)				
HJX-10	10			2× (50-70)	2×0.55	2-30	18	
HJX-12	12							
HJX-14	14							
HJX-16	16				3× (50-70)	2×0.75		3-30
HJX-18	18							
HJX-20	20							
HJX-22	22			4× (50-70)	4-30	24		

INCINERATOR

焚烧炉

概述 DESCRIPTION

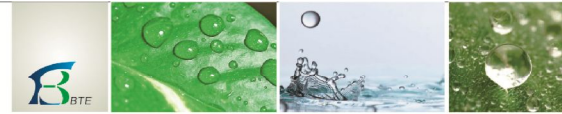
- WFS系列生活（医疗）垃圾焚烧炉采用的是目前最先进的一次热解气化+环境风温燃+二次焚烧+燃尽处理的焚烧方式。该焚烧炉的一次燃烧室的设计由于采用了气化焚烧技术使焚烧炉的炉内气温由200℃向400℃推移，垃圾在焚烧过程中不会产生凉块、渣块、烧结等问题。在二次混合焚烧室内设置有二次焚烧燃烧器与环向给风装置。在高温下，烟气中可燃气体能够充分燃烧，可以高效率的把气化炉所产生的气与空气充分混合燃烧，防止气流中的碳物质逸出和迟烧的现象发生。烟气在进入高温燃烧室时由于采用了切向进入及助燃空气切向进入等助燃方式，使烟气在燃烧室内可以再次充分燃烧的同时利用旋转气流进行烟气除尘。焚烧烟气在炉内的停留时间大于2秒，使烟气中可燃气体与飞灰中的可燃物完全焚烧，在焚烧炉的上部设有干式尾气净化设备，对焚烧中产生的氯化氢、硫氧化物等进行吸附处理，烟气中的氨气等成分在高温下被分解。烟气净化系统设有氯化钙滤砖与酸性气体进行中和反应，达到吸附酸性气体、净化尾气的目的。使烟气中有害成分降低到国家“危险废物焚烧污染控制标准（GB18484-2001）”等标准规定值以下。



- WFS series of life (medical) waste incinerator is used in a pyrolysis gasification and the most advanced around the wind mixed fuel + two + burn treatment of incineration incineration. The incinerator in a combustion chamber design due to the gasification incineration technology makes the temperature of incinerator furnace goes from 200 °C to 400 °C, never produced in combustion process clinker, slag, sintering and other problems. In the two mixed burning chamber is provided with two times burning burner and tangential air-supply device. At high temperature, the combustible gas in the flue gas can burn fully, can be efficient to gas and air produced by the gasification furnace is fully mixed combustion, prevent the occurrence of carbon material escape styles and delayed firing phenomenon. The flue gas in the high temperature combustion chamber with tangential entry and combustion air into the combustion mode etc., the flue gas in the combustion chamber can be fully burning and the use of rotary flow of flue gas dust removal, incineration flue gas residence time in the furnace more than 2 seconds, the combustible gas in the flue gas and flyash completely burned, a dry exhaust gas purification device on the upper part of the incinerator, the adsorption of hydrogen chloride, sulfur oxide generated in the incineration, flue gas odor components are decomposed at high temperature. With calcium hydride filter tiles and acid gas and reaction gas cleaning system, the adsorption of acid gases, the purpose of tail gas purification. The harmful components in smoke is reduced to the national " hazardous waste incineration pollution control standards (GB18484-2001) " and other standard below the specified value.

设备技术参数 Technical parameter

型号 Item	项目 Model	WFS-30	WFS-50	WFS-150	WFS-300	WFS-500
焚烧能力 Capacity	20-30kg/次 (每天可 焚烧3-6次) 20-30kg/time (3-6 times/day)	30-50kg/次 (每天 可焚烧3-6次) 30-50kg/time (3-6 times/day)	100-150kg/次 (每天 可焚烧3-6次) 100-150kg/time (3-6 times/day)	200-300kg/次 (每天 可焚烧3-6次) 200-300kg/time (3-6 times/day)	300-500kg/次 (每天 可焚烧3-6次) 300-500kg/time (3-6 times/day)	
焚烧尺寸m (L×B×H) Capacity Size	1.45×0.9×1.75	1.8×1.15×3	2×1.4×3.5	2.2×1.55×3.8	3×2×4.8	
垃圾入口尺寸 (mm) Waste inlet size	480×600	620×800	760×960	900×1100	1080×1280	
烟囱 (mm) chimney	外径Φ280 Outer Diameter	外径Φ280 Outer Diameter	外径Φ300 Outer Diameter	外径Φ400 Outer Diameter	外径Φ460 Outer Diameter	
引风机 Air Fan	0.37KW	0.37KW	0.55KW	0.75KW	1.1KW	
助燃器 Combustion Burner	功率0.11KW, 耗油量4-6kg/h Power:oil Consumption	功率0.11KW, 耗油量4-10kg/h Power:oil Consumption	功率0.11KW, 耗油量5-12kg/h Power:oil Consumption	功率0.22KW, 耗油量7-14kg/h Power:oil Consumption	功率0.22KW, 耗油量7-14kg/h Power:oil Consumption	
再燃器 Re-combustion Burner	功率0.11KW, 耗油量4-6kg/h Power:oil Consumption	功率0.11KW, 耗油量4-10kg/h Power:oil Consumption	功率0.22KW, 耗油量7-14kg/h Power:oil Consumption	功率0.37KW, 耗油量10-20kg/h Power:oil Consumption	功率0.37KW, 耗油量15-26kg/h Power:oil Consumption	
运行电压 Voltage	380v或220v	380v或220v	380v或220v	380v或220v	380v或220v	
重量约 (kg) Weight	2300	4000	7000	8000	13000	



山东贝特尔环保科技有限公司
其它设备

AMMONIA NITROGEN STRIPPING TOWER

氨氮吹脱塔

概述 DESCRIPTION

- 根据氨氮废水工艺类别、浓度区间、盐分含量及地区温度，对7种高浓度氨氮废水去除方法进行有效工艺组合，解决了工业高浓度氨氮废水处理的问题。对于化工、冶金、焦化、化肥、制药等行业高浓度氨氮废水的处理可以采用我公司专用催化剂和处理设备，采用催化氧化—吹脱工艺，对氨氮废水一次处理即可达到排放标准。该项技术可单独使用，也可与生化工艺结合使用，与传统工艺相比，具有处理效率高、运行稳定、且能耗低的优点，是工业高浓度氨氮废水处理技术的重大突破。废水中的氨氮主要是以铵盐（NH₄⁺）和游离氨（NH₃）两种形态存在，氨氮的去除必须在一定条件下，将铵盐（NH₄⁺）最大限度地转化成游离氨（NH₃），同时采用空气迅速将其吹脱，氨氮去除率稳定在85%—94%之间。并可对吹脱出的氨气进行回收利用，杜绝了二次污染，降低了运行成本。



compared with traditional technology. Ammonia nitrogen exists as two forms: NH₄⁺ and NH₃ in wastewater. Ammonia nitrogen removal must be in certain conditions, convert NH₄⁺ to NH₃ maximally and stripping them by using air, the ammonia nitrogen removal rate is steady between 85% and 94%. The ammonia after stripping can be reused so that secondary pollution is prohibited and operating cost is reduced.

设备技术参数 Technical parameter

PH	20℃	30℃	35℃
9.0	25	50	58
9.5	60	80	83
10.0	80	90	93
11.0	98	98	98

CHLORINE DIOXIDE GENERATOR

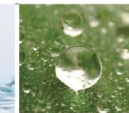
二氧化氯发生器



- 反应原理: $\text{NaClO}_3 + 2\text{HCl} \rightarrow \text{ClO}_2 + 1/2\text{Cl}_2 + \text{NaCl} + \text{H}_2\text{O}$
- 产品组成: 由供料系统、反应系统、温度控制、自控系统、吸收系统、安全系统、反应液自动处理系统组成。
- 性能特点:
 - BT二氧化氯发生器以氯酸钠和盐酸 (31%) 为原料, 生产以二氧化氯为主、氯气为辅的复合消毒剂。
 - 反应系统采用最新耐高温复合材料, 最佳的温度和五级反应结构, 原料转化率高达80%以上。(按有效氯计算)。安装简单, 操作、维护方便。
 - 原料输送采用进口的电磁隔膜计量泵, 运行稳定, 计量准确、安全可靠。
 - 温度控制显示, 调节计量泵显示, 系统状态控制显示。
- BTchlorine dioxide generator with sodium chlorate and hydrochloric acid (31 per cent) as raw materials, production of chlorine dioxide compound disinfectant for mainly, supplemented by chlorine. The reactor system using etchomagnetic diaphragm metering pump, the import of stable operation, accurate measurement, safe and reliable. Temperature control display, adjustable metering pump display, system control and display.

设备技术参数 Technical parameter

规格型号 Specifications And Models	产气量 (g/h) Available output chlorine	动力水压力 (Mpa) Pressure	DN (mm)	DN ₂ (mm)	功率 (KW) Power
BT-50	50	≥0.20	25	32	1.0
BT-100	100	≥0.20	25	32	1.0
BT-200	200	≥0.20	25	32	1.0
BT-300	300	≥0.20	25	32	1.0
BT-500	500	≥0.20	25	32	1.0
BT-800	800	≥0.25	25	32	1.0
BT-1000	1000	≥0.25	32	40	2.0
BT-2000	2000	≥0.25	32	40	2.0
BT-3000	3000	≥0.30	32	40	2.0
BT-4000	4000	≥0.30	40	50	2.0
BT-5000	5000	≥0.30	40	50	2.0
BT-6000	6000	≥0.30	40	50	3.0
BT-7000	7000	≥0.30	40	50	3.0
BT-10000	10000	≥0.30	50	60	3.0
BT-15000	15000	≥0.30	50	60	3.0
BT-20000	20000	≥0.30	50	60	3.0



山东贝特尔环保科技有限公司
其它设备

SUBMERSIBLE TYPE AERATOR

潜水式曝气机



概述 DESCRIPTION

- 潜水式曝气机利用马达直接传动叶轮旋转造成离心力, 使附近的低气压吸入水流, 同时, 叶轮进口处也制造真空以吸入空气, 在混气室中, 这些空气与水混合之后由离心力作用急速排出。
- 由于水流喷射强烈, 造成有效的对流循环, 而使空气分割成众多细小的气泡, 并由于气泡上升缓慢且不可计数, 其表面积很大, 这样使每个单位马力的传气率高于其他种类的曝气机。
- Submersible type aerator: Impeller was driven directly by motor to produce centrifugal force and low-pressure around was absorbed into water current, air was inhaled at the impeller inlet by vacuuming at the same time, then mixed air and water was discharged rapidly by centrifugal force.
- Effective convective circulation appeared by strong water jet and air was divided into micro bubbles, these numerous bubbles with large surface area rise slowly ensure relative high air-transmission rate for motor.

设备技术参数 Technical parameter

型号 Model	功率 Power HP KW	作用范围 Working Range	水深/米 BX (m) Depth	空气吸入管径 (mm) Air Inlet Pipe Dia	最大吸入空气量 Max Air Amount	溶氧量 (kg/h) Dissolved Air Amount	重量 (kg) Weight
AR-32-40	2 1.5	1.0-2.0	1-3.0	40	30	2-1	104
AR-33-50	3 2.2	2.5-5.0	1-4.0	50	40	3-2	117
AR-35-65	5 3.7	3.0-6.0	1-4.0	65	80	5-3	132
AR-37-65	7 1/2 5.5	3.5-7.0	1-4.0	65	128	9-5	279
AR-310-80	4 7.5	4.5-9.0	1.5-4.5	80	170	13-7	286
AR-315-80	15 11	5.0-10.0	1.5-4.6	80	265	18-8	340
AR-620-100	20 15	5.8-11.5	1.5-4.8	100	330	23-10	355
AR-325-100	25 18.5	5.9-11.8	2.0-5.0	100	385	29-14	405
AR-330-100	30 22	6.0-12.0	2.0-5.5	100	470	36-19	420
AR-340-150	40 30	7.3-14.5	2.0-6.0	150	510	41-21	1000
AR-350-150	50 37	7.5-15.0	2.0-6.0	150	570	52-22	1080
AR-360-150	60 45	7.8-15.5	2.0-6.0	150	630	62-25	1150
AR-370-150	75 55	8.0-16.0	2.0-6.0	150	825	82-40	1200

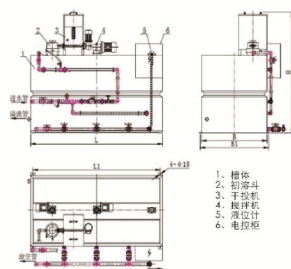
DOSAGE SYSTEM 加药装置



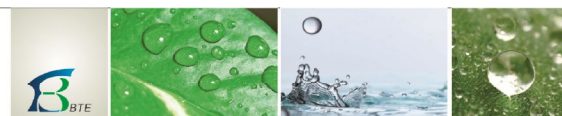
概述 DESCRIPTION

- PT型聚合物溶解加药装置
- 三槽一体连续制备，操作简单
- 干投机的高精度输送及预湿润装置的巧妙设计，可减少结粒（块）现象发生
- 干粉、进水均可调整，可任意制备需要浓度的药液
- 保证药液的熟化时间在45~60分钟
- 随机电控柜控制整个制备过程，使制备溶液融合均匀
- 料斗中干粉料位低时，发出声、光报警信号提醒操作人员加料
- 可选：液态聚合物进料功能
- 可选：真空上料机
- 可选：在线稀释系统/静态混合器
- 槽体材质可选：不锈钢S304或S316L，聚丙烯PP，高密度聚乙烯HDPE

● The system usually consists of a box, a set of pump, a set of electrical mixer, can also be designed as structures of one box, two sets of pump; two boxes, two sets of pump; two boxes, multi sets of pump; multi boxes, multi sets of pump. It boasts high security and stable performance, and is convenient for transportation, installation and maintenance. Electrical control box or centralized control (remote/auto control) can be chosen. It is used for making liquid-liquid, solid-liquid, gas-liquid solution and for quantitative transferring of flocculant, coagulant aid, antifoamer and disinfectant in waste water treatment.



1. 槽体
2. 料斗
3. 干投机
4. 搅拌机
5. 液位计
6. 电控柜



山东贝特尔环保科技有限公司
其它设备

PIPELINE MIXER 管道混合器

概述 DESCRIPTION

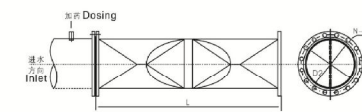
- 管道混合器是处理水与混凝剂、助凝剂、消毒剂实行瞬间混合的理想设备：具有高效混合、节约用药、设备小等特点，它是由二个一组的混合单元组成，在不需外动力情况下，水流通过混合器产生对分流、交叉混合和反向旋流三个作用，混合效率达90~95%。
- Pipeline mixed machine is an ideal device for mixing water with coagulant and disinfectant instantly, with characteristics of high efficiency, dosage saving and compact structure. It is composed of mixed single unit. Water goes through the machine in way of flow dividing, crossed mixing and reverse swirling enhances the effect to 90-95%.

产品特点 PRODUCT CHARACTERISTIC

- 1.不需外加动力。
- 2.水流通过混合器，产生成对分流，交叉混合和反向旋流，效果显著，混合率达90%-95%。
- 3.投资低廉，安装简单，一般不需维修、养护，管理方便，水头损失小。
- 4.混合器安装应尽量靠近沉淀
- 1. No powered 8 needed
- 2. Water flow through the mixer, produce in pairs, cross mix and shunt reverse hydrocyclone, mixed ratio effect significantly, 90% - 95%.
- 3. Investment cheap, easy installation, generally don't need repair, maintenance, Management convenient, head loss is small.
- 4. Mixer installation should close precipitation



外形结构 Structure



设备技术参数 Technical parameter

型号 Type	参数 Parameters	加药管径 d1 Dosing diameter d1	连接法兰 Connecting flange	
			D2	N-d
XZHF-100	700	25	φ170	4-φ18
XZHF-150	950	25	φ225	8-φ18
XZHF-200	1250	25	φ280	8-φ18
XZHF-300	1380	32	φ395	12-φ22
XZHF-400	1800	32	φ495	16-φ22
XZHF-500	2100	40	φ600	16-φ22
XZHF-600	2400	40	φ705	20-φ26
XZHF-700	2650	50	φ810	24-φ26
XZHF-800	2900	50	φ920	24-φ30
XZHF-900	3250	65	φ1020	24-φ30
XZHF-1000	3700	80	φ1120	28-φ30
XZHF-1200	4000	100	φ1320	32-φ30

BTBS TYPE WATER DECANTER

BTBS型滗水器

概述 DESCRIPTION

- BTBS型滗水器是排出SBR反应池中上清液的专用设备。BTBS型旋转式滗水器通过可变速的螺旋传动装置的驱动，滗水堰槽绕排水管转动，实现滗水器追随水位连续排水。
- BTBS type water decanter is a special equipment for discharging supernatant from SBR in the reaction tank. BTBS type rotary decanter screw transmission device driven by variable speed, decanting weir tank around the drainage pipe to rotate, realize the decanter follow level continuous drainage.



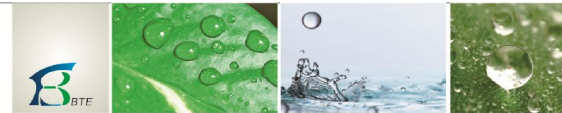
适用范围:

- 适用于SBR工艺的CASS、CAST、ICEAS、DAT-IAT等工艺流程，处理城市污水及工业废水。在造纸、酒精、染料、农药、皮革、粘胶、味精、制糖等行业工业废水（废液）的处理中均被广泛运用。
- 三、产品结构说明:
- BTBS型滗水器主要由电控箱、传动装置、机架、连杆缸筒、堰槽组件、浮筒组件、出水组件、行程控制、底座等部分组成。BTBS型滗水器由连杆缸筒把水下部分与执行机构连接起来，当需要排水时，中央控制系统给出信号，指令电机驱动螺杆旋转，螺母向下移动，通过连杆缸筒推动集水堰槽随水平管的转动而下降，完成定量排水，排出的上清液由排水管排出；当排水结束后，可由接近开关给出信号，电机反转，牵引集水堰槽上移，回到预设位置，等待完成下一个循环。螺杆螺母机构采用带自锁机构设计，以免在断电的情况下螺母下滑，影响整个动作过程程序执行。

- applicable scope:
CASS, CAST, ICEAS, DAT-IAT process used in SBR processing, processing of city sewage and industrial wastewater. In the paper, alcohol, dye, pesticide, leather, viscose, monosodium glutamate, sugar and other industrial wastewater (effluent) are widely used in the treatment.
- Three, the product structure:
BTBS type water decanter is mainly composed of the electric control box, frame, transmission device, the connecting rod of cylinder, the weir tank assembly, float assembly, outlet components, process control, such as the base part. BTBS type water decanter consists of a connecting rod of cylinder connecting part and the actuator under water, when the need for drainage, central control system gives a signal, command motor drive screw rotation, screw nut moves downward to rotate through the connecting rod, cylinder pushing water tank with horizontal tubes decreased, complete quantitative decanting, discharging supernatant discharged from a drain pipe; when the water drain after the end, by the proximity switch signal is given, the traction motor reversal, catchment weir tank up, back to the preset position, waiting for the next cycle. Design with self-locking mechanism adopts a screw nut mechanism, so as to avoid the nut in the case of power decline, affecting the whole action process of program execution.

设备技术参数 Technical parameter

型号规格技术参数	BTBS-100	BTBS-200	BTBS-300	BTBS-400	BTBS-500	BTBS-600	BTBS-700	BTBS-800	BTBS-1000	BTBS-1200
处理量(M ³ /H)	100	200	300	400	500	600	300	800	1000	1200
电机功率(kw)	0.37	0.37	0.55	0.55	0.75	0.75	0.55	1.1	1.5	1.5
排水时间(t/min)	65	65	65	65	65	65	65	65	65	65
堰长(m)	1	2	3	4	5	6	3	8	10	12
最大滗水深度(mm)	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
排水管径(mm)	150	220	250	300	350	400	250	450	50	600



山东贝特尔环保科技有限公司
其它设备

OILY WASTEWATER FACILITY FOR CATERING INDUSTRY

餐饮业含油污水处理器

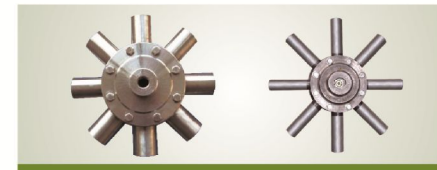
概述 DESCRIPTION

- 餐馆、快餐店、食堂、宾馆、酒店、饮食店等餐馆污水。RBYB餐饮业含油污水处理器是在引进国外技术基础上，加以改进完善而适于中国国情的一种先进、高效、低能耗、易维护的理想含油污水处理器。餐饮污水经处理后，水中的油脂（FOG）、总悬浮物（TSS）将大幅度降低。
餐饮污水→除渣槽→预隔油池→油水分离器→排放
- It can be used to treat waste water from restaurants, snack bars, cafeteria, hotels etc. RBYB oily wastewater facility for catering industry is a machine developed and improved on the basis of foreign technology with characteristics of high efficiency, energy saving, easy maintenance, FOG, TSS in water after treated was greatly reduced.
- Flow chart:
Waste water→ dump tank→ pre-oil separator →oil-water separator→discharge



DISSOLVED AIR RELEASER

释放器



概述 DESCRIPTION

- 溶气释放器是溶气气浮净水系统中关键装置。压力溶气水只有通过该装置降压消能后，才能释放出大量的微小气泡，释放器性能的好坏，涉及到气泡的微小度，它直接影响气浮净水的效果。本释放器可反冲洗，不易堵塞。
- Dissolved air releaser is a key device in air flotation system. Dissolved water can only release large sum of micro-bubble after depressurization and energy dissipation by this unit and unit characteristics will affect degree of micro-bubble thus decides water treatment effect. It can be backwashed and won't block.

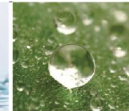
GRILLE ACCESSORIES

格栅配件



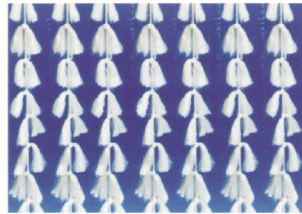
概述 DESCRIPTION

耙齿：不锈钢、尼龙、ABS、节距100 mm ~150 mm 栅隙自定
链条：不锈钢，中心距100 mm ~150 mm 厚度4 mm,5 mm
小轴套：不锈钢，轴用档圈，φ16、φ18、φ25。
大轴套：不锈钢，尼龙
Teeth: ss, nylon, ABS, pitch 100 mm ~150 mm grille gap determined by user
Chain: ss, centre distance: 100 mm ~150 mm thickness 4 mm,5 mm
Small shaft sleeve: ss, retaining ring, φ16、φ18、φ25。
Big shaft sleeve: ss, nylon



山东贝特尔环保科技有限公司
设备配件及生化填料

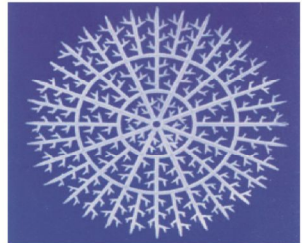
SOFT FILLING 软性填料



概述 DESCRIPTION

- 软性填料自试制成功以来,由于它的表面积大,利用率高、空隙可大可小,适用范围广、造价低、运费少等特点,近年来已被广泛地应用于印染、丝绸、毛纺、食品、制药、石油化工、造纸、医药、医院、含氯等废水处理中,为了使其发挥更大的产品特性和经济效益,近年来在有关科研单位的指导下,软性填料推陈出新,形式多样,结构合理,效果更佳,克服了原来出现的实际表面积不大,中心绳易断、纤维束中间结团等弊病,从而深受广大用户的欢迎。
- Since its successful pilot production, soft orifice has been widely used in sewage treatment for printing, silk, wool, food, pharmaceutical, chemical, paper mill, fiber, hospital industries etc. because of advantages of large surface area, high utilizing rate, variable non-block pore, wide application, low cost and easy transportation. With the aim to give better play to the effect and improve economic yields, in recent years, under the guide and help of relative research institutions, new kinds of soft orifice with higher quality (previous defects such as easy-broken connection and agglomeration of fiber bundles were conquered) had been developed and greatly welcomed by customers.

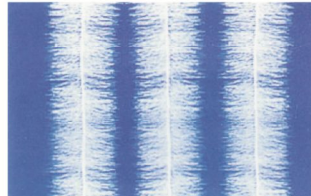
SEMI-SOFT FILLING 半软性填料



概述 DESCRIPTION

- 半软性填料具有散热性能好,阻力小,布水、布气性能佳,易长菌,又有切割作用。它所用的材料有聚丙烯、聚乙烯制成。用于污水、废水处理工程,配套于接触氧化塔、氧化池、氧化槽等设备。单元直径一般有 $\phi 120$ 、 $\phi 150$,中心绳有塑料绳及纤维绳,规格可根据设计部门及用户而定。
- Semi-soft filter is made of pvc and polytene with features as high heat dispersion rate, low resistance, well water & air distribution and bubble cutting. It is used for sewage treatment together with contact oxidation tower, oxidation tank etc.. Its dia. is usually $\phi 120$ 、 $\phi 150$, plastic rope and fiber rope as center rope (can also produce according to client's requirement).

ELASTIC FILLING 立体弹性填料



概述 DESCRIPTION

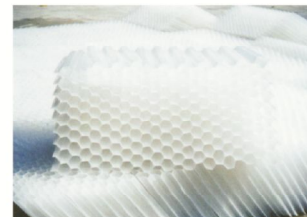
- 该填料筛选了聚乙烯类和聚丙烯类中的几种耐腐、耐温、耐老化的优质品种,混合以亲水、吸附、抗热氧等助剂,采用特殊的拉丝、丝织制毛工艺,将丝条穿结固着在耐腐、高强度度的中心绳上,由于选材和工艺配方精良、织造密度,使丝条呈立体均匀排列辐射状态,制成了悬挂式立体弹性填料的单体。填料在有效区域内能立体全方位均匀舒展满布,使气、水、生物膜得到充分湿渗接触交换,生物膜不仅能均匀的着床在每一根丝条上,保持良好的活性和空隙可变性,而且能在运行过程中获得愈来愈大的比表面积,又能进行良好的新陈代谢,这一特征与效果是国内外目前其它填料所不可比拟的。
- 该填料与弹性类蜂窝填料相比,孔隙可变性大,不堵塞;与软性类填料相比,材质寿命长,不粘连接团;与半软性类填料相比,表面积大,挂膜迅速,造价低廉。因此,该填料可确认为是继各种弹性类填料、软性类填料和半软性类填料后的第四代高效节能新穎材料。

- This kind of filling is made from some anti-corrosion, temperature-resisting and ageing resistance material among polyolefins and PA, mixing with hydrophilic, absorbent, thermo-oxidative resistant auxiliary agents by wire drawing technology. Fix strand on center rope, it is in vertical radiate shape because of good quality and filter is well distributed in effective area ensure fully mix of air, water and bio-membrane. Bio-membrane gains greater surface area during operation with activity and pore variability which is unparalleled by other domestic fillings.
- Compared with hard cellular packing, this fillings has bigger pore variability; compared with soft packing, it boasts long lifetime and non-adhesive connecting groups; compared with semi-soft packing, it enjoys bigger surface area, rapid film and low cost. Thus it is the new choice after those previous fillings.

COMPOUND FILLING 组合式填料



PLASTIC OBLIQUE TUBE HONEYCOMB FILLING 塑料斜管蜂窝填料



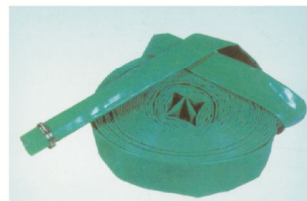
概述 INTRODUCTION

- 组合式填料集软性和半软性填料之优点,克服了两者的弊端,在污水的生化处理工程中为较理想的产品。它是有塑料环为骨架,负载着纤维绳,纤维绳紧贴在塑料环上,在污水中经水流分布均匀,易生膜、脱膜,并对污水浓度的适应性好。广泛应用于各种污水及废水处理。
- Compound filling, an ideal product for biochemical treatment of waste water, absorbs the advantages of soft and semi-soft packing while discards their defects. With plastic ring as framework, pva filament is fixed on it tightly and uniform distributed in waste water thus well suits water concentration. It is widely used in various kinds of waste water treatment.

概述 INTRODUCTION

- 斜管主要用于各种沉淀和除砂作用。是近十年来在给排水工程中采用最广泛而且成为一项水处理装置。它适用范围广,处理效果高,占地面积小等优点。适用于进水口除砂,一般工业和生活给水沉淀、污水沉淀、隔油以及尾矿浓缩等处理。既适用于新建工程,又适用于现有旧池的改造,均能取得良好的经济效益。
- Plastic oblique tube honeycomb filling, the widest used water treatment device in drainage project during the past ten years is mainly for sedimentation and sand removing. It features wide application, high treating efficiency and small occupation. It is used for sand removal in water inlet hole, industrial and domestic water precipitation, oil removal etc., so it is not only suitable for new projects, but also for reconstruction of original tanks.

VARIABLE MICRO-PORE AERATOR HOSE 可变孔曝气软管



概述 INTRODUCTION

- 可变孔曝气软管是以纤维增强改性塑料为材料制成的软管,在软管周边都打有微孔,在运行时曝气软管被膨胀,微孔张开。当停止运行时,软管受静水压力作用被压缩,在一定程度上避免了污泥倒灌。适用于各种污水处理工程曝气池的供气;污水调节池作搅拌和预曝气,防止大颗粒泥沙沉积。
- Variable micro-pore aerator hose is developed on the basis of western German technology. Thin-wall and straight pipe greatly reduced resistance loss, auto switch of variable pore and slit solved blockage of aerator; linear aeration ensures well distributed air and mixing by vertical circulation, thus achieves high oxygen utilization rate and dynamic efficiency.
- It is suitable for 1: petrochemical, textile, paper mill, printing, beer, leather industry etc. and for municipal sewage treatment. 2: Blend and pre-aeration of regulating reservoir helps avoid settle of large sand particles and remove certain organics. 3: Aeration for circulating water of aquaculture industry and fish pond etc. Synthesized by strengthened pvc and rubber, with chemical fiber inside is anti-acid, anti-corrosion and pressurization. Inner wall dia. is 42.5mm; 6500 during operation.

FIBER BALL PACKING/FILLING 纤维球填料



概述 INTRODUCTION

- 滤料特性：呈柔性、可压缩、孔隙率大、截污能力强；工作时滤层孔隙上疏下密，符合理想滤层的孔隙分布；比重略大于水，易反冲洗，材质优良有较佳的耐磨性和抗化学腐蚀性。
- Characteristics of filter material: soft and flexible, compressible, large porosity, strong capacity of pollution source holding-back; upper-loosen bottom-dense pore of filtering layer is ideal for pore distribution; gravity is a bit heavier than water for easy backwash; excellent material ensures strong anti-corrosion and wear resistance.

ROTATE-MIXING TYPE AERATOR 旋混式曝气器



概述 INTRODUCTION

- 旋混式曝气器是一种新型曝气装置，是在螺旋曝气器、散流式曝气器、金山型曝气器的基础上改进的一种新型曝气装置，该产品具有耐腐蚀性、氧利用率高、不易堵塞和安装方便等主要特点。
- 旋混式曝气器采用多层螺旋切割的形式进行充氧曝气，当气流进入螺旋时，气流首先通过二道螺旋切割系统，切割后进入下层的螺旋切割型气头，进行多层切割，使气泡切割成微气泡，这样大大提高了氧的利用率，具有布气均匀，充氧效率高的特点。
- rotate-mixing type aerator is a new aerating apparatus developed on the basis of spiral aerator, diffuse aerator and Jinshan aerator. Its main features are anti-corrosion, high oxygen utilization rate, un-blockable and easy installation.
- Series rotate-mixing type aerator uses multi-layer spiral type while aerating Air current enters into JY-mixing type aerator will go through spiral cutting system where it is cut by multi-layer zigzag head into micro-bubble, thus greatly increased oxygen utilization rate, with advantages of well-distributed air and high aeration efficiency.

DIAPHRAGM TYPE MICRO-PORE AERATOR 膜片式微孔曝气器



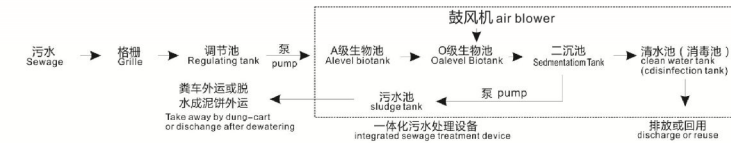
概述 INTRODUCTION

- 膜片式微孔曝气器是80年代研制的最新型曝气装置，该装置曝气气泡直径小，气液面积大，气泡扩散均匀，不会产生孔眼堵塞，耐腐蚀性强，经50多家用户多年使用效果良好（比常规产品固定螺旋曝气器、散流曝气器和穿孔管曝气器能降低40%，或增加污水处理量40%），特别适用于城市污水和大型工厂新建扩建和老曝气池改造，且曝气池可间歇运行。
- Diaphragm type micro-pore aerator is a device developed in the 1980s with characteristics of small dia. and well diffused bubble, large area gas liquid, un-block pore and anti-corrosion. It was tested by College of Environmental Science and Engineering, Tongji University and North China Municipal Engineering Design & Research Institute, and received positive feedback from over 50 users (40% low energy consumption or 40% more water treatment capacity compared with regular products such as spiral aerator, diffuse aerator and perforated pipe aerator). It is particular suitable for expansion and rebuilding of aerator tank of municipal sewage or large-scale factory project, and aerator tank allows intermittent operation.

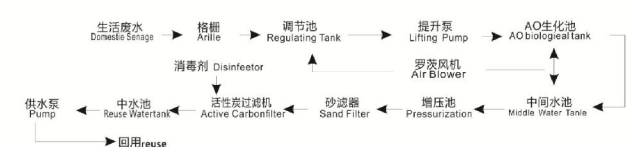


山东贝特尔环保科技有限公司
典型污水处理工艺

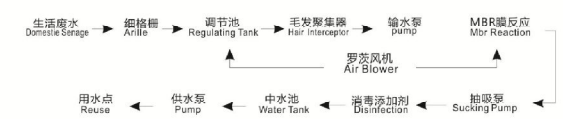
生活污水处理工艺流程图 Domesyic Sewage Treatment Process flow diagram



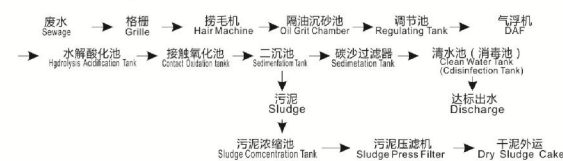
AO生化法中水回用工艺流程图 Ao Biological Water Reuse Process Flow Diagram



MBR膜生物法中水回用工艺流程图 MBR bioreactor process flow diagram



屠宰废水治理工艺流程图 Slaughtering Wastewater Treatment process flow diagram



淀粉废水处理工艺流程图 Starch Wastewater Treatment Process Flow Diagram



电镀废水处理工艺流程图 Electroplating Sewage Trwatment process flow diagram



企业愿景 corporate vision

成为最有价值的国际环保产业集团
**To be the most valuable
international environmental
protection industry group**

在行业快速整合的今天，不断发展中的贝特尔将继续立足中原，面向全国，融入全球，以开放思维整合社会资源，专注环保行业，持续提升企业核心竞争力，最终成为最有价值的国际环保集团。

With the rapidly developing industry ,BETTER will continue to be based in central plains,face the country,integrate into the world ,to consolidate social resources with open mind,focus on evnironmental protection industry,continute to improve the core competitiveness of enterprises, and ultimately to be the most valuable international environmental protection group.

Communication —— 交流与合作 跨地域的拥抱 and Cooperation

产业布局

面对高速增长的市场，贝特尔立足山东，面向全国，融入全球，先后在中原、华北、华东、东北、西南等区域布局构建安全、高效、统一、协同的现代产业链体系，实现了开放性成长和跨越式发展。

In the rapidly developing market,BETTER is based in Shandong,facing the country,integrating into the word,successgetic modern industrial system,to realize opengrowth and tapfrog development.

