GREENIFY®
ENVIRONMENTAL TECHNOLOGY LTD

ISO 9001:2015 CERTIFIED

Save Water.
The whole world depends on you.

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GREENIFY
ENVIRONMENTAL TECHNOLOGY LTD

Welcome to Greenify Environmental Technology Ltd, a leading expert in ETP, STP, WTP, and ZLD solutions in Bangladesh. At Greenify, we are dedicated to providing cutting-edge environmental technology services that prioritize sustainability and efficiency. Our team of experts specializes in designing, installing, and maintaining Effluent Treatment Plants (ETP), Sewage Treatment Plants (STP), Water Treatment Plants (WTP), and Zero Liquid Discharge (ZLD) systems tailored to meet the unique needs of our clients. With a commitment to environmental stewardship and innovative solutions, Greenify is your trusted partner for creating a cleaner and greener future for Bangladesh.

At Greenify, we are driven to create a better world through smart, sustainable water solutions. We help the world sustainably move, improve, and enjoy water, life's most essential resource. From our residential and commercial water solutions, to industrial water management and everything in between, Greenify is focused on driving innovation that helps our planet and people thrive.

Water is essential for life and the need for water touches nearly everything we do. SINCE We Start, the decisions we make, the products we supply, the solutions we offer, and the partnerships we form, are opportunities to positively impact people and our planet.

At Greenify, our mission is clear: to provide sustainable water treatment solutions. We are dedicated to protecting the environment and ensuring access to clean water for all. Together, let's create a greener future with our innovative technologies.

Our vision at Greenify is to be a global leader in sustainable water treatment solutions. We strive to make a significant impact by promoting environmental conservation, ensuring clean water accessibility, and driving innovation in the industry.

7 years of experience

Benefit from our extensive 7 years of experience in the field.

Best industry experts

Our team consists of top-notch industry experts, ensuring the highest level of expertise.

Innovation and Achievement

We strive for innovation and have a proven track record of successful achievements

Cost effective Solutions

We provide swift and efficient solutions to meet your needs promptly.

CERTIFICATE OF REGISTRATION

This Certificate has been awarded to

Greenify Environmental Technology Ltd
House# 23, Road# 3/C, Sector# 9, Uttara, Dhaka-1230, Bangladesh

In recognition of the organization's Management System which complies with

ISO 9001:2015
(Quality Management System)

The scope of activities covered by this certificate is defined below

Project, Product & Service for Effluent Treatment Plant (ETP), Sewage Treatment Plant (STP), Wastewater Treatment Plant (WWTP), Water Treatment Plant (WTP), Zero Liquid Discharge Plant (ZLDP), Air Treatment Plant (ATP), Flow Control & Measuring Machinery & Equipment Etc.

EA Code:- 18

Certificate Number: SIS370523Q150
Date of Issue of Original Certificate: 21.03.2023
Date of Issue of latest certificate: 21.03.2023
Expiry Date: 20.03.2026
Re-Certification Due on: 21.02.2026

Managing Director
Mr. Arunendra Dvivedi

Note: This is an accredited certificate issued by SIS Certifications Pvt. Ltd.

IAS ACCREDITED
IAF

EFFLUENT TREATMENT PLANT (ETP)

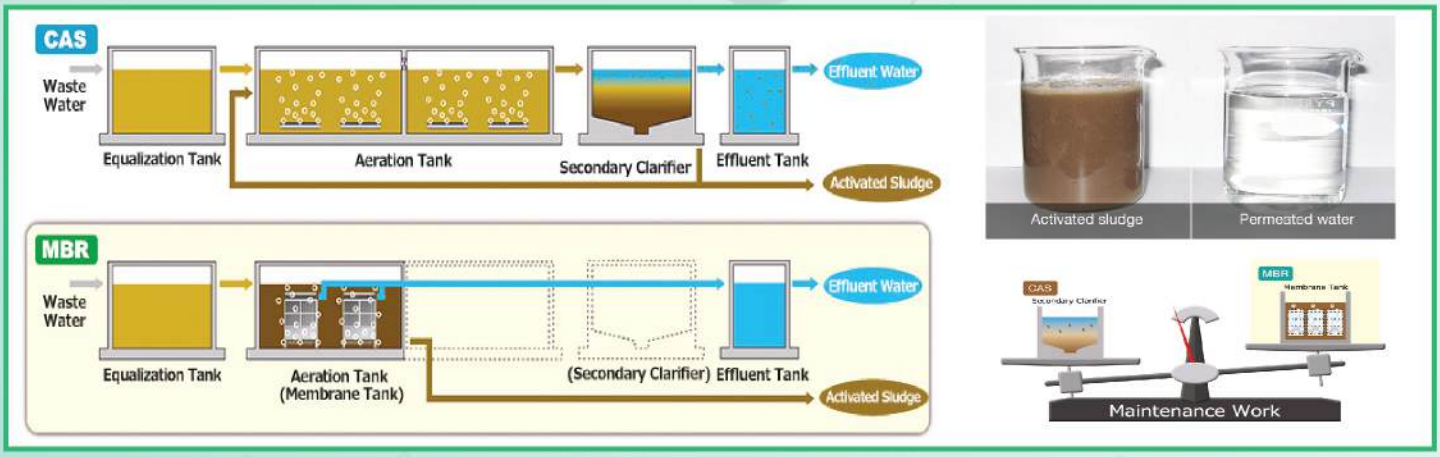
Greenify specializes in delivering proficient, cost-effective, and regulatory compliant wastewater treatment solutions, with its meticulously designed Effluent Treatment Plant (ETP). Throughout its more than era of existence, Greenify has consistently provided exemplary services & solutions, ensuring excellent performance in the Engineering, Procurement, and Commissioning of ETP systems.

Our ETP's are designed with Quality and economy at its focus, without cutting corners. The ETPs are designed, procured and commissioned by our passionate and experienced team of specialists. Such Plants have been commissioned nationally as well as internationally across various industries. Greenify configures ETP with advanced process design units with an objective to provide flexibility of either disposal of treated water or reusability with Zero Liquid Discharge (ZLD) treatment.

Our services encompass design, engineering, supply, installation, commissioning as well as operation and maintenance of ETPs with conventional as well as ZLD technologies. We also work closely with the groups of industries to set up a CETP in industrial estates/Industrial clusters with all essential resources required for the establishment.

MBR TECHNOLOGY:

From design to maintenance of MBR facility for various kind of effluent, our Kubota membrane has spread the application of KUBOTA Submerged Membrane Unit all over Bangladesh.



Excellent Permeate Quality

MBR treatment remove suspended solids (SS) via the physical barrier of a membrane filter, making MBR effluent extremely clear. Similarly E. Coli is completely removed, as it is larger than the membrane's pore size, so MBR effluent is safe & clean for many recycle uses. The longer Sludge Retention Time (SRT) of MBR systems can improve removal of organic material and total nitrogen (TN) removal and result in a more stable operation. As a result, effluent is cleaner and odorless. This makes MBR effluent good for both the environment and humans, and enables its reuse for groundwater recharge, irrigation, washing, and many other applications.

Remarkably Small Footprint

The MBR system requires less aerated volume than a CAS system. This is accomplished by increasing solids loading and MLSS concentration up to three times higher than a CAS system can handle. This is made possible by the large hydraulic capacity of the MBR system. MBR system also do not require a primary or secondary clarifier, since the membranes physically separate the water from the membrane tank where it is already partially thickened, reducing the amount of sludge thickening required. As a result the footprint of the MBR system is considerably smaller than that of a CAS system. Due to this advantage, retrofitting an existing plant with a MBR system can lead to increased treatment capacity without requiring any new tanks.

Simple Maintenance

The MBR system does not need a secondary clarifier, so microbe observation and adjustment of the Return of Activated Sludge (RAS) is not unnecessary this reduces operator training needs and simplifies maintenance overall.

MBBR TECHNOLOGY:

Greenify's comprehensive design and engineering processes contribute to the unique advantages the MBBR systems provide. The MBBR engineers at Greenify focus on minimizing the following elements:

Energy and operating cost: MBBR systems have optimal energy efficiency, resulting in lower operational costs.

Reactor volume and HRT: Greenify's MBBR systems have low hydraulic retention time (HRT), which enables MBBR to operate effectively in smaller reactors.

Control complexity: Since MBBR systems use a biological treatment process, microorganisms are responsible for the majority of the treatment. As a result, the system requires less operator attention and intervention, making operation simple.

Footprint: An MBBR system uses biofilm carriers, which provide substantial surface area for microbial growth. The additional mass of microorganisms offers more treatment capacity in a relatively smaller footprint.

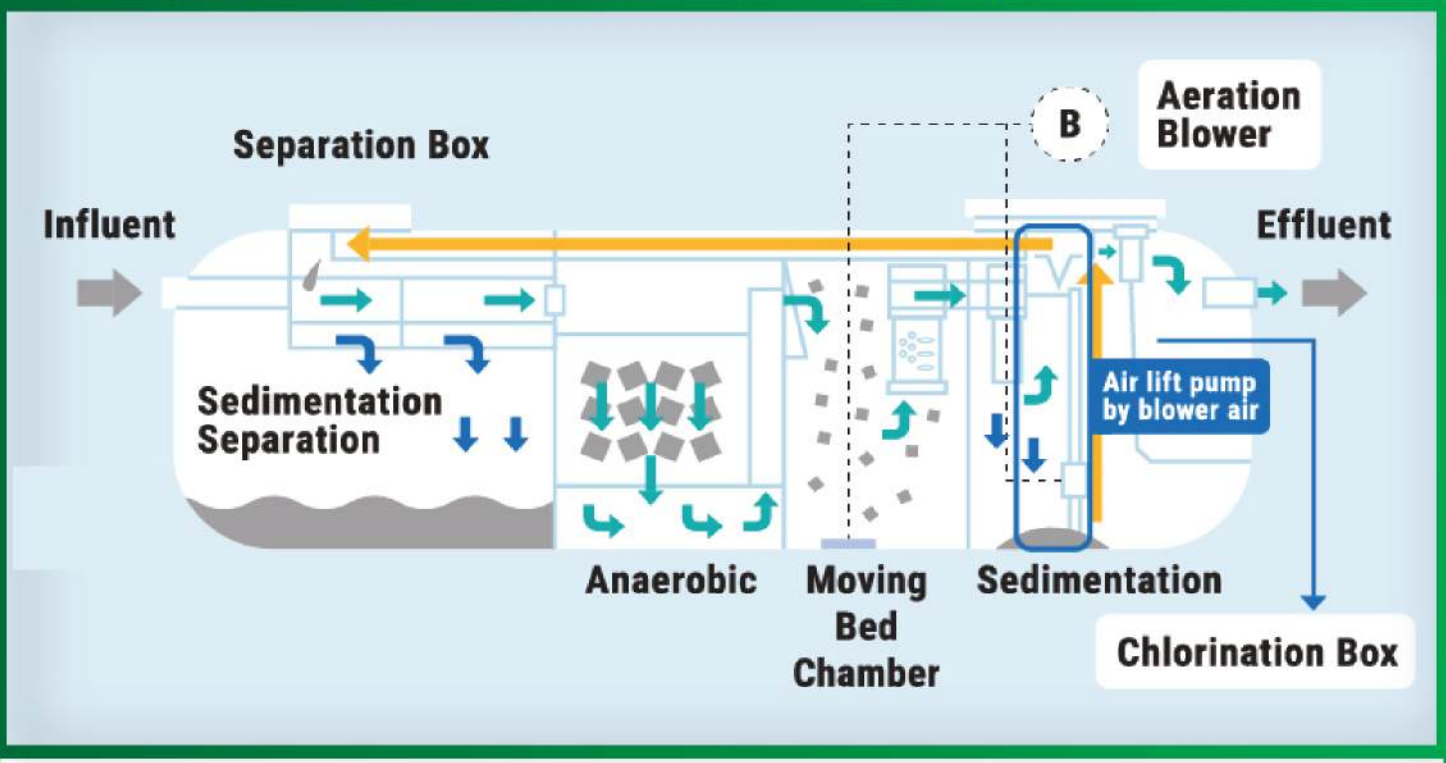
Additionally, GREENIFY's MBBRs increase factors such as treatment efficiency An MBBR offers better treatment efficiency than other types of effluent treatment systems at lower space and budget requirements.

Hydraulic capacity: MBBR systems can handle more water at a given time than other systems, enhancing overall efficiency.

Volumetric efficiency: With bacteria managing much of the treatment process, the parts in an MBBR system can stay in better condition. As a result, the system optimizes the amount of water flowing through the pumps.

Process life span: The biofilm media carriers that hold an MBBR system's bacteria have a long life expectancy. In turn, the system's process lifespan also increases.

SEWAGE TREATMENT PLANT (STP)



Greenify provides comprehensive engineering solutions for Sewage treatment plant (STP) which includes detailed designing, engineering and commissioning of the STPs.

Our expertise for STPs are in categories of conventional as well as packaged plants consisting primary, secondary and tertiary treatments units. The Packaged STPs have been proven as the best solution, which can be installed readily. Coupled with this advantage, our customization solutions per need provides utmost flexibilities to the clients.

We provide packaged STPs as per the required sizes at housing complexes, Municipal corporations, hotels and small community centers. Greenify has successfully designed and commissioned more than 70 STPs with a total cumulative installed capacity of 80,000 KLD.

The STPs set-up by Greenify are equipped with widespread biological treatment technologies of Conventional Activated Sludge Process, Moving Bed Biological Reactor (MBBR), Sequential Batch Reactor (SBR) and Membrane Bio Reactor (MBR).

Give priority to quality in development & manufacturing

Johkasou: which has been developed and manufactured in Japan, is one of the best solutions of wastewater treatment in areas where sewage infrastructure has not yet been improved worldwide.

Moving Bed Bio Reactor System

Moving bed biofilm reactor (MBBR) systems offer a revolutionary approach to biological wastewater treatment. With Greenify's MBBR systems, facilities can save on costs, energy and space while enhancing their overall operations.

Energy and operating cost: MBBR systems have optimal energy efficiency, resulting in lower operational costs.

Reactor volume and HRT: Greenify's MBBR systems have low hydraulic retention time (HRT), which enables MBBR to operate effectively in smaller reactors.

Control complexity: Since MBBR systems use a biological treatment process, microorganisms are responsible for the majority of the treatment. As a result, the system requires less operator attention and intervention, making operation simple.

Footprint: An MBBR system uses biofilm carriers, which provide substantial surface area for microbial growth. The additional mass of microorganisms offers more treatment capacity in a relatively smaller footprint.

Membrane Biorector System for Highly Advanced Water Treatment

Greenify's wastewater treatment plants are installed to preserve the environment in areas where sewage systems are rarely installed. Specifically, this is japanese membrane bioreactor system, a highly-concentrated activated sludge system is coupled with submerged fine-pore membranes to perform advanced water treatment. Treated water can be reused, without post-treatment, as flush water for toilet and spray water.

ZERO LIQUID DISCHARGE PLANT (ZLD)

We specialize in designing and setting up Zero Liquid Discharge (ZLD) plants with cutting-edge technologies. Our ZLDs plants are designed with RO & Ultrafiltration Units, Stripper System, Multi Effect Evaporator (MEE) and Agitated Thin Film Dryer (ATFD) system. Such ZLD systems have been deployed for ETPs of various industries as well as CETPs.

We have wide experience in establishing ETPs and ZLDs for various types of industries like Textiles, Pharmaceutical & Bulk drugs, Chemical, Sugar, Dairies, food processing and engineering industries. Around 250 ETPs have been designed successfully by GREENIFY with a cumulative capacity of more than 100,000 KLD.

ZLD Technology

Greenify's technology combines the advantages of thermal and membrane technologies, providing an optimal solution that harnesses the benefits of evaporation and membrane separation.

Maximize Water Recovery & Reuse

Greenify's zero liquid discharge systems enable reclamation of over 90% of wastewater, ensuring minimal water wastage and maximum utilization.

Recover Valuable Resources

Our solutions enable the recovery of valuable minerals and other byproducts from wastewater, adding economic value to your operations and minimizing waste generation.

Cost-Effective Solutions

Our minimum and zero liquid discharge solutions are designed to optimize efficiency and reduce costs at every stage of the treatment process.

Industries

1. Textile & Garments
2. Power Generation
3. Oil & Gas
4. Hydrocarbon Processing
5. Chemical Processing
6. Metals & Mining
7. Food & Pharmaceutical

Applications

1. Cooling tower blowdown
2. Produced water
3. FGD purge wastewater
4. IGCC wastewater
5. Reverse osmosis reject
6. Demineralization regeneration wastewater
7. Other complex industrial wastewaters

IRON REMOVAL PLANT (IRP)

Specification

> Capacity: 500-200,000 LPH
> Usage/Application: Domestic/Industrial
> MOC of Tank: FRP/MS/SS
> Filter Media: MnO_2, Quartz Sand, Activated Carbon
> Filtration Process: Iron Removal Filter, Multigrade Filter, Activated Carbon Filter, Micron filter.

Applications

> Municipal Water Supply: Treatment facilities for community drinking water sources.
> Industrial Applications: Sectors that require high-quality water for processes where iron impurities can cause damage (e.g., electronics, pharmaceuticals).
> Agriculture: Ensuring that irrigation water is free from contaminants that could affect crop yield.

An Iron Removal Plant (IRP) is a crucial facility dedicated to the purification of water by effectively removing iron contaminants, thereby ensuring the delivery of safe and clean drinking water. Iron, when present in water supplies, can lead to various issues such as unsightly staining of fixtures, unpleasant tastes, and potential health risks. To counter these problems, IRPs utilize advanced technologies including oxidation, which converts dissolved iron into solid particles, followed by filtration to capture these particles, and sedimentation to allow them to settle out of the water.

By treating water before it reaches consumers, IRPs play a significant role in enhancing public health and protecting infrastructure from corrosion and damage. These plants are designed to meet the needs of both residential customers and industrial users, making them vital components of effective water management strategies. Additionally, IRPs foster sustainable water use by ensuring that water quality standards are consistently maintained, thereby promoting a healthier environment. With the increasing demand for clean water, the role of Iron Removal Plants becomes ever more critical, contributing to improved water quality across communities and industries alike. As such, IRPs are fundamental to sustaining public health and supporting economic growth through responsible water management practices.

SOFTENER PLANT

A Softener Plant is a facility designed to reduce water hardness, primarily caused by high concentrations of calcium and magnesium ions. The plant employs ion exchange technology, which replaces these hard minerals with sodium ions, resulting in softer water suitable for various applications. Softened water improves the efficiency of soaps and detergents, minimizes scale buildup in pipes and appliances, and enhances the longevity of industrial equipment. Softener Plants serve residential, commercial, and industrial sectors, ensuring optimal water quality for domestic use, manufacturing processes, and heating systems. By promoting efficient water usage, these plants contribute to energy savings and reduced maintenance costs.

Specification

> Capacity: 500-200,000 LPH
> Usage/Application: Domestic/Industrial
> MOC of Tank: FRP/MS/SS
> Filter Media: Ion Exchange Resin, Quartz Sand, Activated Carbon
> Filtration Process: Activated Carbon Filter, Softener Filter, Micron Filter.

Applications

> Manufacturing: Prevents scale buildup in machinery and enhances product quality.
> Hospitality: Improves guest experience by maintaining clean, scale-free fixtures and equipment.
> Residential: Provides households with better water quality, extending the lifespan of plumbing.

REVERSE OSMOSIS (RO) PLANT

Specification
> Capacity: 500-200,000 LPH
> Usage/Application: Domestic/Industrial
> MOC of Tank: FRP/MS/SS
> Filter Media: Ion Exchange Resin, MnO_2, Quartz Sand, Activated Carbon
> Filtration Process: IRF/MSF/ACF/SF/MF & RO Unit

Applications
> Municipal Water Supply: Treatment facilities for community drinking water sources.
> Industrial Applications: Sectors that require high-quality water for processes where iron impurities can cause damage (e.g., electronics, pharmaceuticals).
> Agriculture: Ensuring that irrigation water is free from contaminants that could affect crop yield.

A Reverse Osmosis (RO) Plant is a water purification system that employs a semi-permeable membrane to remove impurities and contaminants. By applying pressure, water is forced through the membrane, effectively filtering out dissolved salts, bacteria, and other harmful substances. RO Plants are widely used in residential, commercial, and industrial sectors to provide high-quality drinking water and are essential in various applications, including food processing and pharmaceuticals. These plants contribute to safe water management and promote public health and environmental sustainability.

ULTRA-FILTRATION (UF) PLANT

Ultra-Filtration (UF) Plants are cutting-edge water treatment facilities that utilize a semi-permeable membrane to effectively separate suspended solids, bacteria, and larger macromolecules from water. Operating at relatively low pressures, UF technology ensures the efficient removal of contaminants, while simultaneously retaining essential beneficial minerals, resulting in high-purity filtered water.

These plants are particularly prevalent in various industries, including food and beverage, pharmaceuticals, and wastewater treatment. In the food and beverage sector, UF Plants are employed to ensure product safety and improve water quality for processing. In pharmaceuticals, they play a crucial role in achieving the stringent quality standards required for drug manufacturing. Furthermore, UF technology is instrumental in wastewater treatment, facilitating the recycling of water for reuse in industrial processes.

The clarity and safety of water produced by Ultra-Filtration Plants are vital for numerous applications, including drinking water production, industrial operations, and agricultural uses. By promoting health and environmental sustainability, UF technology not only enhances the overall quality of water but also contributes to resource conservation, making it an essential component of modern water management strategies. As global water demands rise, the role of UF Plants will continue to grow in importance.

Specification
> Capacity: 500-500,000 LPH
> Usage/Application: Industrial
> MOC of Frame: SS
> Filtration Process: MSF/ACF/SF/MF & UF Unit

Applications
> Municipal Water Supply: Treatment facilities for community drinking water sources.
> Industrial Applications: Sectors that require high-quality water for processes where iron impurities can cause damage (e.g., electronics, pharmaceuticals).
> Agriculture: Ensuring that irrigation water is free from contaminants that could affect crop yield.

DEWATERING SCREW PRESS

GETL series is a economical screw type mixing machine, the machine is made of steel body, the surface is sprayed with plastic processing, so the rigidity is good, high strength, and rectangular shape, beautiful appearance, it has the advantages of low noise, low temperature rise, safety and reliability. The machine adopts AC brush maintenance-free motor drive, electric control, door cover protection, so that your operation is safer, more convenient, more reliable.

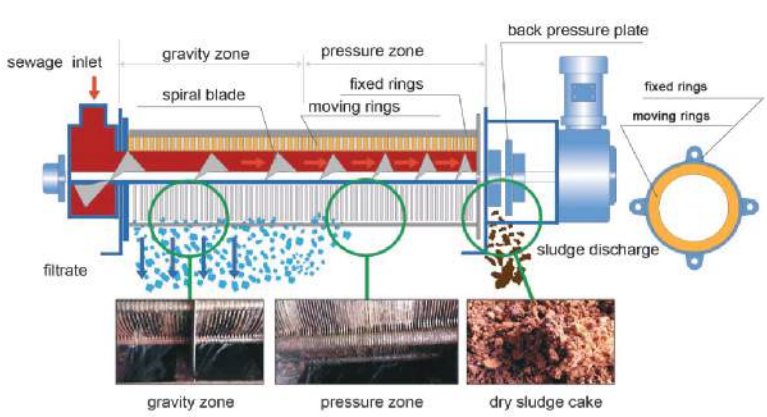


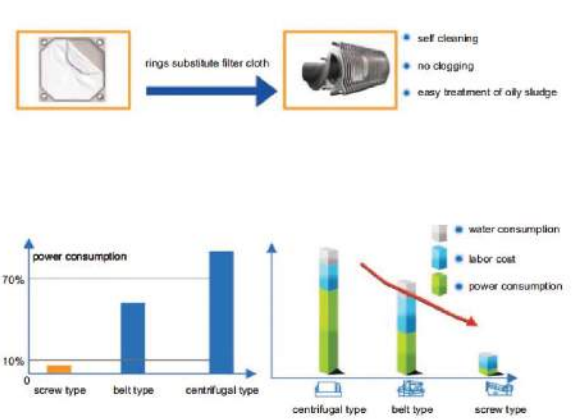

Specifications

Model	DS Sludge Treating Capacity	Acrew Specification	Motor Power(KW)			Clean Water qty(L/h)	NW(kg)	Operating Weight(kg)
			Screw Shaft	Mixer	Total			
GETL-101	5~7kg/h	0100*1	0.18	0.18	0.36	24	220	315
GETL-131	10~14kg/h	0130*1	0.18	0.18	0.36	48	250	395
GETL-201	15~20kg/h	0200*1	0.37	0.18	0.55	32	420	540
GETL-202	30~40kg/h	0200*2	0.74	0.55	1.29	64	550	660
GETL-203	45~60kg/h	0200*3	1.11	0.55	1.66	96	700	1010
GETL-301	50~70kg/h	0300*1	0.75	0.55	1.3	40	900	1300
GETL-302	100~140kg/h	0300*2	1.5	0.75	2.25	80	1350	2000
GETL-303	150~210kg/h	0300*3	2.25	1.1	3.35	120	1900	2700
GETL-304	200~280kg/h	0300*4	3	1.1	4.1	160	2500	3600
GETL-351	100~120kg/h	0350*1	1.1	0.75	1.85	60	1100	2000
GETL-352	200~240kg/h	0350*2	2.2	1.1	3.3	120	2100	3250
GETL-353	300~360kg/h	0350*3	3.3	1.5	.4.8	180	3100	4600
GETL-354	400~480kg/h	0350*4	4.4	1.5	5.9	240	4100	5700
GETL-401	130~160kg/h	0400°1	1.5	1.1	2.6	80	2200	4200
GETL-402	260~320kg/h	0400*2	3	1.5	4.5	160	3500	6000
GETL-403	390~480kg/h	0400°3	4.5	1.1+1.1	6.7	240	5500	8000
GETL-404	520~640kg/h	0400*4	6	1.1+1.1	8.2	320	7000	9500

Working Principles

GETL series is a economical screw type mixing machine, the machine is made of steel body, the surface is sprayed with plastic processing, so the rigidity is good, high strength, and rectangular shape, beautiful appearance, it has the advantages of low noise, low temperature rise, safety and reliability. The machine adopts AC brush maintenance-free motor drive, electric control, door cover protection, so that your operation is safer, more convenient, more reliable.





FILTER PRESS MACHINE

Filter presses separate suspended solids from liquids. What are the Four Main Components of a Filter Press?

01 Frame

02 Filter Plates

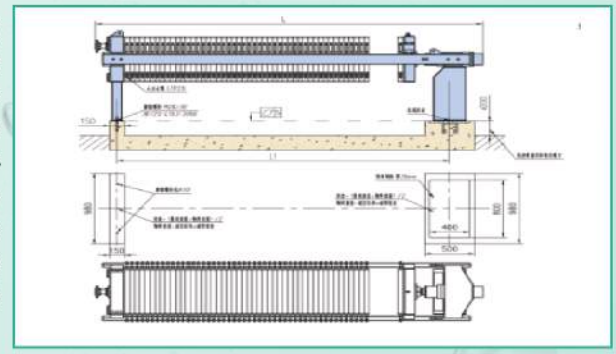
03 Manifold (piping and valves)

04 Filter Cloth (This is key for optimizing filter press operations.

Filter presses result in the driest cake with the cleanest filtrate when compared to other dewatering equipment for a respective application. Proper selection of cloths, plates, pumps and ancillary equipment/process, such as precoat, cake wash and cake squeeze is critical to optimal operation of the dewatering system. Greenify Filter Press is divided into Fast open filter press, High pressure filter press, Frame filter press, Membrane filter press with there are also dozens of filtering cloth types such as multifilament polypropylene filter cloth, polypropylene Mono/ multifilament filter cloth, polypropylene Monofilament filter cloth and Fancy twill weave filter cloth.

Working Principle

During the fill cycle, the slurry pumps into the filter press and distributes evenly during the fill cycle. Solids build up on the filter cloth, forming the filter cake in the void volume of the plate. The filtrate, or clean water, exits the filter plates through the ports and discharges clean water out the side of the plates.



Filter presses are a pressure filtration method. As the filter press feed pump builds pressure, the solids build within the chambers until they are completely full of solids. This forms the cake. The filter cakes release when the plates are full, and the cycle is complete.

Features

1) Simple structure in linear type ,easy in installation and maintation.
2) Adopting advanced world famous brand components in pneumatic parts ,electric parts and operation parts.
3) High pressure double crank to control the die opening and closing.
4) Running in a high automatization and intellectualization,no pollution
5) Apply a linker to connect with the air conveyor ,which can directly inline with filling machine .

Technical Parameters

Model	Filter Area(^{2})	Filter Chamber Volume(L)	Capacity(t/h)	Weight(kg)	Weight(kg)
GETL-50	50	748	1-1.5	3456	4110*1400*1230
GETL-80	80	1210	1-2	5082	5120*1500*1400
GETL-100	100	1475	2-4	6628	5020*1800*1600
GETL-150	150	2063	3-5	6628	5990*1800*1600
GETL-200	200	2896	4-5	13504	7360*1800*1600
GETL-250	250	3650	6-8	16227	8600*1800*1600

PORTABLE DOSING SYSTEM

Dosing Sysetm is widely used in water treatment for mixing, dissolving and storing various chemicals, and then adding the liquid chemicals to each dosing point through a metering pump or a water ejector. The shape of the dosing tank could be square and round, and the material is polyethylene (PE). It is formed by rotomolding technology at one time. The installation position of the metering pump and the mixer is preset on the upper part. The mixer, the dosing tank and the metering pump are three in one. It is very convenient to use.

Specifications

Tank Volume	Size	Impeller & Shaft Material	Shaft Dia (mm)	Shaft Length (mm)	Mixer
200L	F 550*900	SS304 / SS316L	200	L=700	09-11-0.75kW
300L	F 650*960	SS304 / SS316L	200	L=800	09-11-0.75kW
500L	F 800*1100	SS304 / SS316L	200	L=900	09-11-0.75kW
1000L	F 1030*1250	SS304 / SS316L	300	L=1000	09-11-0.75kW
1500L	F 1200*1500	SS304 / SS316L	300x2	L=1200	09-11-0.75kW
2000L	F 1300*1700	SS304 / SS316L	300x2	L=1300	10-11-1.1kW
3000L	F 1500*1800	SS304 / SS316L	400x2	L=1600	10-11-1.5kW
5000L	F 1760*2200	SS304 / SS316L	600x2	L=1900	11-17-2.2kW
6000L	F 1800*2600	SS304 / SS316L	600x2	L=2400	11-17-2.2kW

Customized Model Aviailable

DISSOLVED AIR FLOTATION SYSTEM (DAF)

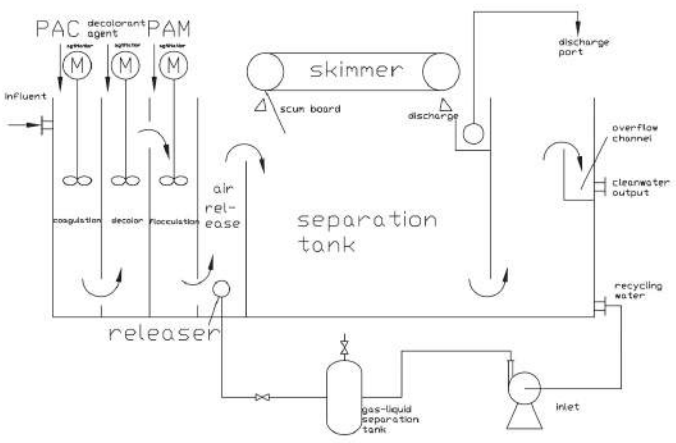
Dissolved Air Flotation (DAF) is an efficient flotation method for water clarification. The term refers to the method of producing flotation by dissolving air in the water under pressure and then releasing the pressure. When the pressure is released the solution becomes supersaturated with air as millions of small bubbles form. These bubbles attach to any particles in the water causing their density to become less than that of water. The particles then rapidly float to the surface for collection and removal, leaving the clarified water behind.

Specifications

Model (CETL)	Dimension (mm)	Skimmer Power(kw)	Mixer Power (kw)	Dissolved Air Pump Power(kw)	Air Compressor Power(kw)
GETL-2.5	3000*1500*2000mm	0.55kW	0.55kW*1	0.55kW	/
GETL-5	3500*2000*2000mm	0.55kW	0.55kW*2	1.1kW	/
GETL-10	4500*2100*2000mm	0.55kW	0.55kW*2	3.0kW	/
GETL-15	5000*2100*2000mm	0.55kW	0.55kW*2	3.0kW	/
GETL-20	5500*2100*2100mm	0.55kW	0.55kW*2	3.0kW	/
GETL-30	7000*2100*2100mm	0.75kW	0.75kW*2	5.5kW	1.5kW
GETL-40	8000*2150*2150mm	0.75kW	0.75kW*2	5.5kW	1.5kW
GETL-50	9000*2150*2150mm	0.75kW	0.75kW*2	5.5kW	1.5kW
GETL-60	9000*2500*2500mm	0.75kW	1.1kW*2	7.5kW	4.0kW
GETL-75	9000*3000*2500mm	0.75kW	1.1kW*2	7.5kW	4.0kW
GETL-80	1050*2800*2800mm	0.75kW	1.1kW*2	7.5kW	4.0kW
GETL-90	1050*3200*2800mm	0.75kW	1.1kW*2	7.5kW	4.0kW
GETL-100	1100*3200*3300mm	0.75kW	1.1kW*2	7.5kW	5.5kW
GETL-120	1300*3300*3500mm	0.75kW	1.1kW*2	7.5kW	5.5kW
GETL-150	1600*3300*3500mm	0.75kW	1.1kW*2	7.5kW	5.5kW

Features

1. Flow rate of one set: 2.5-150m³/h.
2. Recycle flow dissolved air flotation.
3. High efficiency pressurization system creating large quantities of micro bubbles large quantities. of small bubbles.
4. Custom design on different DAF equipment and recycle flow ratio according to the type of wastewater and treatment requirement to achieve target removal effect and stability.
5. Adjustable stainless steel chain type skimmer to suit the different quantity of sludge.
6. Integrated coagulation tank and or flocculation tank and cleaning water tank(as optional)is available to save the space and cost.
7. Automatic and remote controllable.



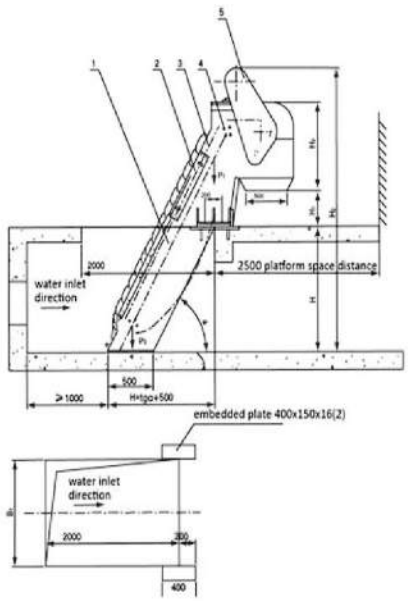
MECHANICAL BAR SCREEN

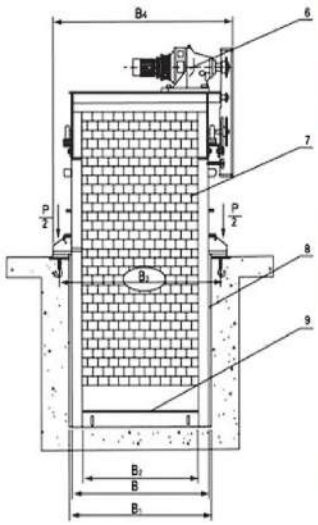
Mechanical Bar Screen is a kind of advanced solid- liquid separation device in water treatment, which can continuously and automatically remove debris from wastewater for sewage pretreatment. It is mainly used in municipal sewage treatment plants, residential quarters sewage pretreatment devices, municipal sewage pumping stations, waterworks and power plants, also it can widely be applied to water treatment projects of various industries, such as textile, printing and dyeing, food, fishery, paper, wine, butchery, curriery etc.

Specifications

Parameter \ Model			GETL -500	GETL -600	GETL -700	GETL -800	GETL -900	GETL -1000	GETL -1100	GETL -1200	GETL -1300	GETL -1400	GETL -1500
Flow Depth H3(m)			1.8										
Flow Velocity V (m/s)			0.8										
Grid Spacing b (mm)	1	Flow Rate Q(m^3/s)	0.03	0.04	0.05	0.06	0.07	0.08	0.08	0.09	0.10	0.11	0.12
	3		0.07	0.09	0.10	0.12	0.14	0.16	0.18	0.20	0.22	0.24	0.26
	5		0.09	0.11	0.14	0.16	0.18	0.21	0.23	0.26	0.28	0.31	0.33
	10		0.11	0.14	0.17	0.21	0.24	0.27	0.30	0.33	0.37	0.40	0.43
	15		0.13	0.16	0.20	0.24	0.27	0.31	0.34	0.38	0.42	0.45	0.49
	20		0.14	0.17	0.21	0.25	0.29	0.33	0.37	0.41	0.45	0.49	0.53
	25		0.14	0.18	0.22	0.37	0.31	0.35	0.39	0.43	0.47	0.51	0.55
	30		0.15	0.19	0.23	0.27	0.32	0.36	0.40	0.45	0.49	0.53	0.57
	40		0.15	0.20	0.24	0.29	0.33	0.38	0.42	0.46	0.51	0.55	0.60
	50		0.16	0.20	0.25	0.29	0.34	0.39	0.43	0.48	0.52	0.57	0.61

Appearance And Installation





DRUM FILTER SCREEN

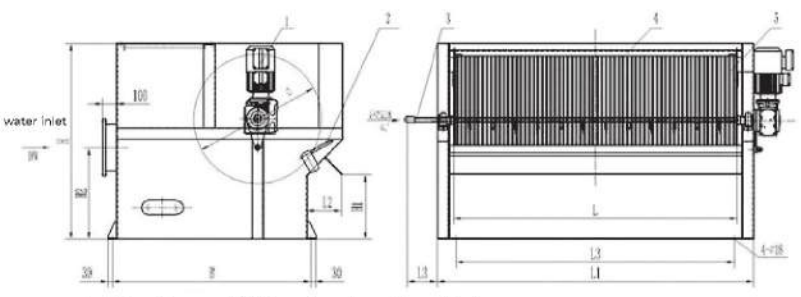
The Rotary Drum Filter Screen is a reliable and well-proven inlet screen for municipal sewage treatment plants, industrial wastewater and process water screening. Its operation is baesd upon a unique system that also allows a combination of screening, washing, transport, compaction and dewatering in a single unit.

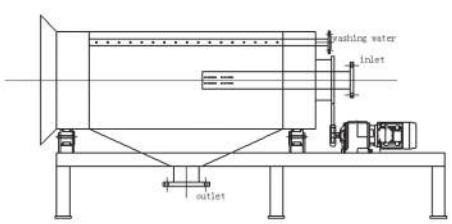
The screening elements can be either wedge wire spaced at 0.5-6mm, or 1-6mm perforated drums. Depending on the aperture size selected and the screen diameter(screen basket diameter of up to 3000 mm are available), the throughput can be individually adjusted to specific site requirements.

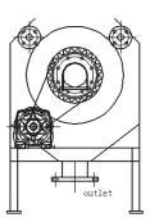
The Rotary Drum Screen is completely made of stainless steel and can be installed either directly in the channel or in a separate tank.

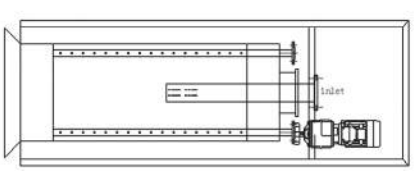
Specifications

Model			600	800	1000	1200	1400	1600	1800	2000
Drum Diameter (mm)			600	800	1000	1200	1400	1600	1800	2000
Drum Length l (mm)			500	620	700	800	1000	1150	1250	1350
Transport Tube d (mm)			219	273	373	300	300	360	360	500
Channel Width b (mm)			650	850	1050	1250	1450	1650	1850	2070
Max Water Depth H4 (mm)			350	450	540	620	750	860	960	1050
Installation Angle			35 °							
Channel Depth H1 (mm)			600-3000							
Discharge Height H2 (mm)			Customized							
H3 (mm)			Confirmed by the type of reducer							
Installation Length A (mm)			A=HX1.43-0.48D							
Total Length L (mm)			L=HX1.743-0.75D							
Flow Rate (m/s)			1.0							
Volume (m3/h)	Mesh (mm)	0.5	80	135	235	315	450	585	745	920
		1	125	215	370	505	720	950	1205	1495
		2	190	330	555	765	1095	1440	1830	2260
		3	230	400	680	935	1340	1760	2235	2755
		4	235	430	720	1010	1440	2050	2700	3340
		5	250	465	795	1105	1575	2200	2935	3600









MECHANICAL SCREW SCREEN

The SCREW SCREEN offers the waste water filtration and the transport of the effluents for the stocking, in a practical and efficient package.

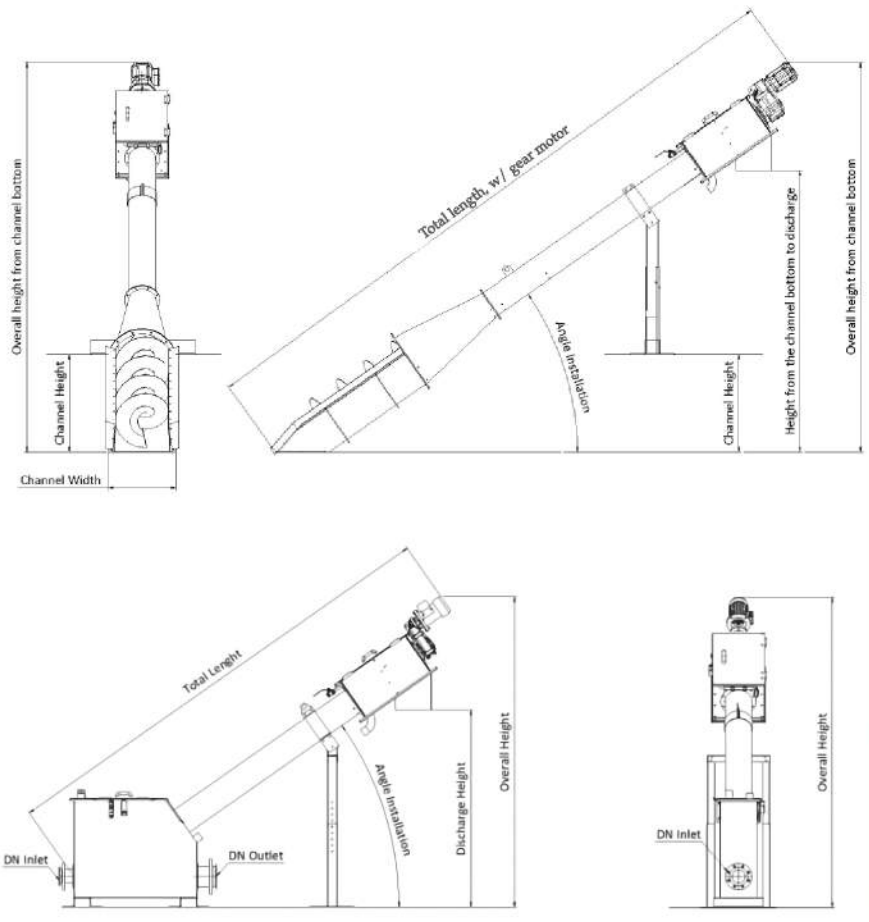
The SCREW SCREEN COMPACTOR is the more complete variant, with a compactor zone next to the discharge, which allows an important reduction in weight and volume of filtered waste (up to 50% less). The machine can be installed inclined (between 35° and 45° depending on the needs) into a concrete channel or in a stainless steel tank to receive the wastewaters from a fixed pipe.

The filtration zone for all the variant of the SCREW SCREEN is made up by a holed sheet (circular holes from 1 to 6mm) which filters the wastewater holding back the waste.

Into this zone, the shaftless screw is equipped with brushes for the cleaning of the filtration. There is also a washing system activatable by a manual valve or through solenoid valve (optional).

Specifications

Model	GETL-200	GETL-300	GETL-400	GETL-500	GETL-600	GETL-700
Total Length (mm)	5360	5350	5410	5420	5825	5165
Channel Width (mm)	800	800	800	800	800	1000
Ideal Channel width (mm)	250	350	460	560	660	760
Height from the channel bottom to dischare (mm)	2300	2300	2320	2325	2350	2550
Overall Height from the channel bottom (mm)	2990	3305	3325	3330	3740	3940
Angle Installation	35-45 °					



SLUDGE SCRAPER MACHINE

The central drive structure is generally used to scrape the bottom mud of various circular sedimentation tanks with a tank diameter of less than 18m (generally, the water site of a single tank is less than 600T/h). Normally, the sludge is discharged from the center, and water outlet from besides. **ZXG** central drive mud scraper is generally used for municipal sewage and similar sewage (such as petrochemical, paper making and other industries). The proportion of sludge is relatively light (generally less than 1.2T/m3), which is not easy to harden the bottom sludge of the pool. Generally, there is no scum scraping function. Inclined plates or pipes can be set in the pool to improve the sedimentation effect.

ZXN type central drive thickener is basically similar to ZXG type thickener. It is mainly used to further concentrate the sludge discharged from the ordinary sedimentation tank. In structure, the grid section is added to the sludge scraper (to increase the sludge compactness).

Working bridge structure: profiled steel beam shall be used for the pool diameter below 10m and split frame beam shall be used for the trunk of 10m

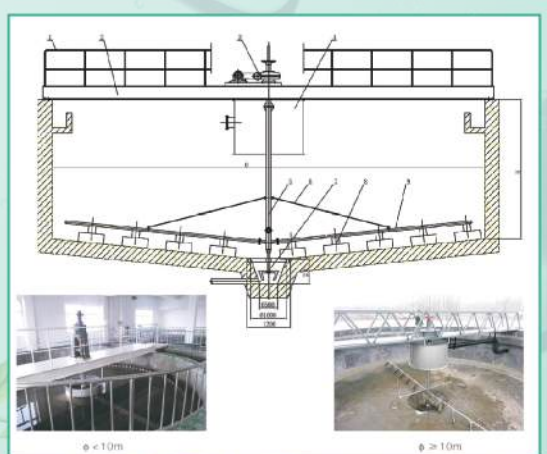
Advantage

1. Generally, it is larger than the three-stage cycloidal reduction drive. For large torque (generally more than 10000N/. m), the slewing ring structure should be used The drive is stable and the torque adjustment is convenient and safe.
2. The rake arm angle can be set to adapt to different slope bottoms (e.g. i=1:10)), and the rake can be lifted manually.
3. The function can be expanded, such as adding torque control indicator and automatic rake lifting structure.
4. The mud scraper adopts a rubber composite structure, which can scrape mud thoroughly.
5. The structure is simple and the installation and use are convenient The steel drum thickener is supplied in thousands of complete machines.

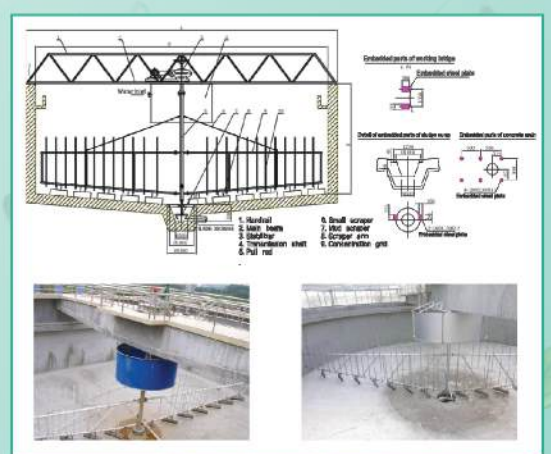
Parameters

CHANNEL DIAMETER (m)	OUTER EDGE LINEAR VELOCITY (m/min)		POWER (kw)		SUGGESTED CHANNEL DEPTH (m)	SUGGESTED CHANNEL GRADIENT (1)	
	ZXG	ZXN	ZXG	ZXN		ZXG	ZXN
3.6; 4; 4.5	Primary sedimentation tank; 2~3; Secondary sedimentation tank	≤2	0.37	0.37	2.5	1:12	1:10
5							
6							
7			0.55	0.55	3		
8							
9							
10			0.75	0.75	3.5		
12							
14							
16		2<v≤3.5	1.1	1.5			
18							
20							

ZXG SHAPE STRUCTURE



ZXN SHAPE STRUCTURE



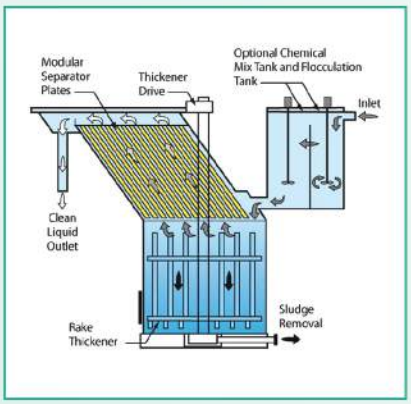
LAMELLA CLARIFIER SEDIMENTATION TANK

The lamella clarifier can be used as a supporting system equipment for water treatment processes such as air flotation and elevating methods, and can treat the following kinds of sewage.

1. The removal rate of waste water, copper, iron, zinc and nickel containing a variety of metal products in the electric water can be over 93%, and the discharge standard can be reached after treatment in the inclined tube inclined plate sedimentation tank.
2. The turbidity of coal mines and wastewater can be increased from 600-1600 mg/liter to 5 mg/liter.
3. The chromaticity removal rate of printing and dyeing, bleaching and dyeing and other industrial wastewater is 70-90%, and the COD removal rate is 50-70%.
4. The removal rate of COD can reach 60-80% in wastewater from leather, food and other industries, and the removal rate of impurity solids is more than 95%.
5. The COD removal rate of chemical wastewater is 60-70%, the chromaticity removal rate is 60-90%, and the suspended solids can meet the discharge standard.

Product Advantages

1. Simple structure, no wearing parts, durable and less maintenance
2. Easy to operate and maintain
3. Continuous operation
4. No moving parts
5. Standard flange connections
6. Low power consumption
7. Occupy smaller area, less investment and high efficiency



Specifications

Model	Capacity	Material	Dimensions (mm)
GETL-1	1m3/h	Carbon Steel (Expoxy Painted) or Carbon Steel (Expoxy Painted)+-FRP Lining	Φ1000*2800
GETL-2	2m3/h		Φ1000*2800
GETL-3	3m3/h		Φ1500*3500
GETL-5	5m3/h		Φ1800*3500
GETL-10	10m3/h		Φ2150*3500
GETL-20	20m3/h		2000*2000*4500
GETL-30	30m3/h		3500*3000*4500 Sedimentation area: 3.0*2.5*4.5m
GETL-40	40m3/h		3500*3000*4500 Sedimentation area: 3.0*2.5*4.5m
GETL-50	50m3/h		5000*3000*4500 Sedimentation area:4.0*2.5*4.5m
GETL-120	120m3/h		6000*3200*4500 Sedimentation area:4.0*2.5*4.5m

SUBMERSIBLE MIXER

It is mainly used for the purposes of mixing, agitating and making ring flows in the process of municipal and industrial sewage treatment and can also be used as the maintenance equipment for the landscape water environment,through agitation, they can achieve the function of creating water flow,improving the quality of the water body, increasing the oxygen content in water and effectively preventing the sedimentation of the suspended substances.

SUBMERSIBLE AERATOR

Specifications

Model	Motor Power (KW)	Rated Current (A)	RPM Of Vaneor Propeller (r/min)	Diameter of Vane or Propeller (mm)	Weight (kg)
GETL.37/-220/3-980/S	0.37	4	980	220	25/50
GETL.85/8-260/3-740/S	0.85	3.2	740	260	55/65
GETL5/6-260/3-980/S	1.5	4	980	260	55/65
GETL2.2/8-320/3-740/S	2.2	5.9	740	320	88/93
GETL4/6-320/3-960/S	4	10.3	960	320	88/93
GETL1.5/8-400/3-740/S	1.5	5.2	740	400	74/82
GETL2.5/8-400/3-740/S	2.5	7	740	400	74/82
GETL3/8-400/3-740/S	3	8.6	740	400	74/82
GETL4/6-400/3-980/S	4	10.3	980	400	74/82
GETL4/12-620/3980/S	4	14	480	620	190/206
GETL5/12-620/3-480/S	5	18.2	480	620	196/212
GETL7.5/12-620/3-480/S	7.5	28	480	620	240/256
GETL10/12-620/3-480/S	10	32	480	620	250/266

SUBMERSIBLE AERATOR

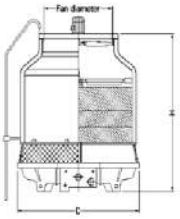
The GETL submersible aerator is used in aeration tanks and aeration sedimentation tanks of sewage treatment plants to aerate and mix the mixture of sewage and sludge, and perform biochemical treat- ment of sewage or aeration in aquaculture ponds. The intake air volume is 35~320m3/h, the oxygen increase capacity is 1.8~24kg02/h, the motor power is 1.5~22kW.

No	Model	Power	Current	Voltage	Speed	Max Depth	Standard air intake	Standard Oxygen transfer capacity
		kw	A	V	r/min	m	m^3/h	kg02/h
1	GXB-0.75	0.75	2.2	380	1470	1.5	10	0.37
2	GXB-1.5	1.5	4	380	1470	2	22	1
3	GXB-2.2	2.2	5.8	380	1470	3	35	1.8
4	GXB-3	3	7.8	380	1470	3.5	50	2.75
5	GXB-4	4	9.8	380	1470	4	75	3.8
6	GXB-5.5	5.5	12.4	380	1470	4.5	85	5.3
7	GXB-7.5	7.5	17	380	1470	5	100	8.2
8	GXB-11	11	24	380	1470	5	160	13
9	GXB-15	15	32	380	1470	5	200	17
10	GXB-18.5	18.5	39	380	1470	5.5	260	19
11	GXB-22	22	45	380	1470	6	320	24

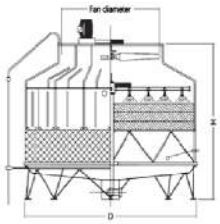
COOLING TOWER

NRT series counter flow induced draft cooling tower is designed with round type structure. Each part of the cooling tower is designed and made precisely and further permits easy installation and endurance. NRT Series Newin Cooling Tower Capacity is available from 10 RT to 1000 RT.

> Counter flow design with multi-layer infill
> PVC infill not exposure to sunshine, less legionella and algae, and long service life
> High efficiency, save energy to the largest extent
> Completely comply with national standards



NRT 10T~ 250T



NRT 300T~ 1000T

> Design Conditions Entrance temp. t_{1} = 37 deg * C
> Leaving temp. t_{2} = 32 deg * C
> Wet bulb temp. t WB 28^ C
> Dry bulb temp. t_{8} = 1.5 deg * C
> Atmospheric pressure P_{0} = 9.94 * 10 ^ 4 * Pa

1. Fan
2. Fan guard
3. Ladder
4. Casing
5. Fills
6. Fills support
7. Air inlet grid
8. Belts speed reducer
9. Motor
10. Motor support
11. Nozzel
12. Mainfold pipe
13. Tower support
14. Water basin

> Noise reduction upgrade
> High-temperature upgrade
> Vibration isolator & Rubber mat
> Anti- Freeze heater
> Stainless steel framework/bots and nuts (304/316

Specification

Model	Cooling Capacity (RT)	Dimension (mm)		Fan		Weight	
		Diameter	Height	Diameter (mm)	Power (kw)	Dry	Wet
NRT- 10	10	945	1530	600	0.18	120	460
NRT-20	20	1170	1530	770	0.37	150	700
NRT-30	30	1400	2400	770	0.55	180	860
NRT-40	40	1650	2420	890	1.1	240	1450
NRT-50	50	1830	2500	890	1.1	310	1790
NRT-60	60	2100	2550	1200	1.1	350	1970
NRT-80	80	2500	3100	1200	1.1	660	2310
NRT-100	100	2500	3000	1450	1.5	690	2400
NRT-125	125	2950	3800	1450	1.5	700	2400
NRT-150	150	2950	3800	1450	2.2	730	2450
NRT-175	175	2950	3600	1750	4	1020	2750
NRT-200	200	3420	3800	1750	4	1080	2940
NRT-250	250	3420	3700	2120	5.5	1320	4010
NRT-300	300	4160	4320	2120	5.5	1880	4880
NRT-350	350	4160	4220	2400	7.5	2180	5670
NRT-400	400	4730	4520	2400	7.5	2280	5800
NRT-450	450	4730	4320	2700	11	3450	7660
NRT-500	500	5760	5150	2700	11	3610	7800
NRT-600	600	5760	5000	3200	11	4850	11300
NRT-700	700	6600	5500	3400	15	5240	12800
NRT-800	800	6600	5350	3700	15	5530	13200
NRT-900	900	7600	5700	3700	15	5900	14600
NRT-1000	1000	7600	5700	4050	18.5	6350	15500

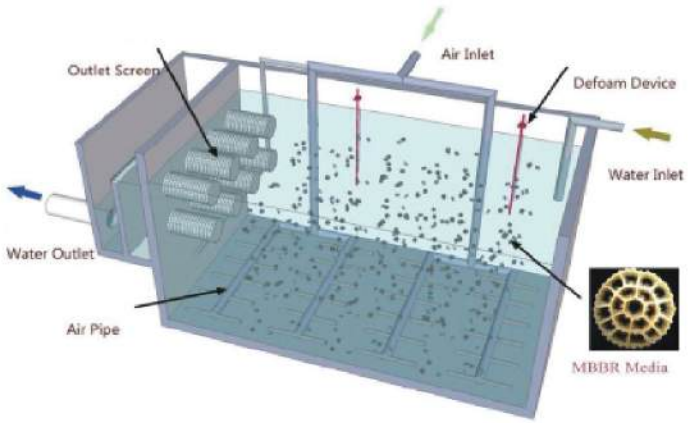
MBBR BIO MEDIA

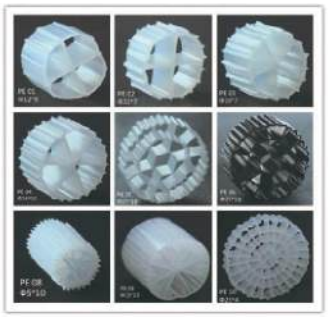
MBBR Bio Filter Media, used in Integrated Fixed Activated Sludge (IFAS) and Moving Bed Biofilm Reactor (MBBR) system.

The wastewater goes through suspending media of MBBR reactor, forming biological membrane on the surface of media gradually. With the action of microbial on the biological membrane, wastewater is purified. MBBR media can move freely in the reactor with the mixing of the water. For the aerobic reactor, the aeration will make the media move; for the anaerobic reactor, mechanic mixing will make the media move. Our MBBR media is new-developed media, has better treatment effect compared with traditional media.

Specification

Model		PE03	PE04	PE05	PE06	PE08	PE09	PE10
Size	mm	φ10*7	φ16*10	φ25*10	φ25*10	φ0510	φ15*15	φ25*4
Hole Nos	/	5	6	19	19	8	8	64
Surface Area	m^2/m^3	>1000	>800	>600	>600	>3500	>900	>1200
Density	g/cm^3	0.94-0.97	0.94-0.97	0.94-0.97	0.94-0.97	1.02-1.05	0.94-0.97	0.94-0.97
Packing Number	pcs/m^3	>990000	>260000	>118000	>118000	>1540000	>230000	>210000
Porosity	%	>85	>85	>90	>90	>80	>85	>85
Dosing Ratio	%	15-68	15-67	15-65	15-65	15-70	15-65	15-65
Bio film forming timr	Days	3--15	3--15	3--15	3--15	3--15	3--15	3--15
Ntrification efficiency	$gNH4-N/m^3d$	400-1200	400-1200	400-1200	400-1200	500-1400	500-1400	500-1400
BOD5 Oxidation efficiency	$gBOD5/m^3d$	2000-10000	2000-10000	2000-10000	2000-10000	2500-15000	2500-15000	2500-20000
COD oxidation efficiency	$gCOD/m^3d$	2000-15000	2000-15000	2000-15000	2000-15000	2500-200000	2500-200000	2500-200000
Applicable temperature	°C	5-60	5-60	5-60	5-60	5-60	5-60	5-60
Service Life	Year	>15	>15	>15	>15	>15	>15	>15





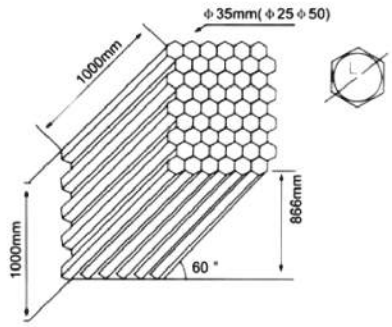
Packing: Woven Bag (0.1cbm/bag)
20ft Container Max.30cbm
40ft Container Max.60cbm
40hq Container Max.70cbm

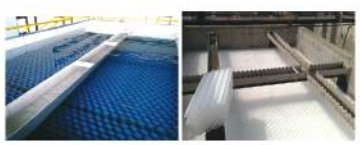
Raw Material: 100% Virgin HDPE

TUBE SETTLER MEDIA

The tube settler media is very suitable in all different clarifiers and removing sand. It is regarded as universal water treatment equipment in water supply and drainage engineering. It has wide application, high handling efficiency, small area etc. It is suitable in removing sand in inlet, industry and drinking water precipitation, separation in oil & water.

Material	Material (mm)	Thickness (mm)	Pieces	Color
PP	Φ50	0.4	32	White/Blue/Black
		0.6		
		0.8		
		1		
		1.2		
	Φ80	0.6	20	
		0.8		
		1		
		1.2		
	Φ65	0.5	26	
		0.6		
		0.8		
		1		
		1.2		





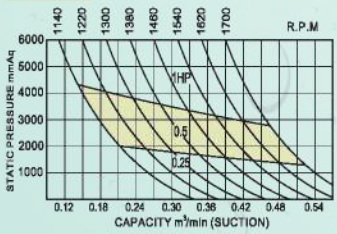
AERATION SYSTEM

ROOTS AIR BLOWER

A Root air blower, also known as a positive displacement blower, is a mechanical device used to move air and gases efficiently. It operates by trapping a specific volume of air and forcing it through an outlet. Ideal for applications requiring high airflow at low pressure, Root air blowers are commonly used in waste and water treatment, pneumatic conveying, and industrial processes. Their reliable performance and durability make them essential in various industries.

Pressure Convey Type Performance Curve

G25



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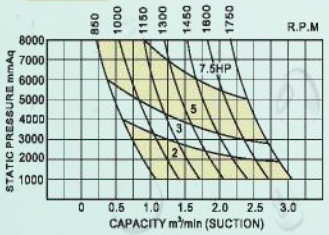

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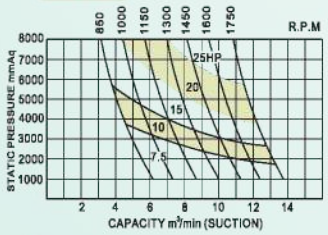

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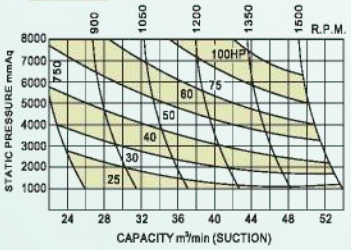

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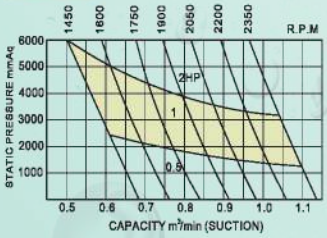

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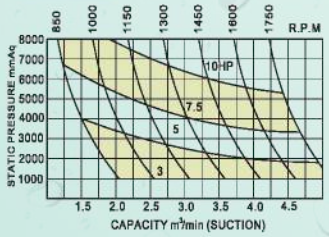

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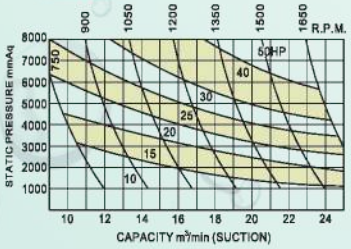

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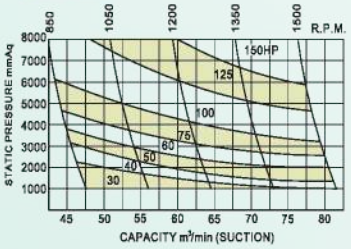

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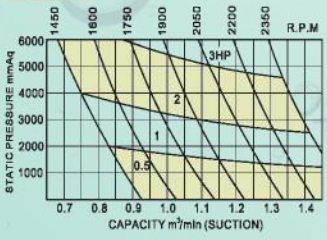

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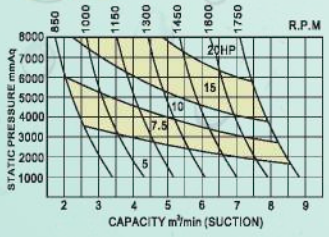

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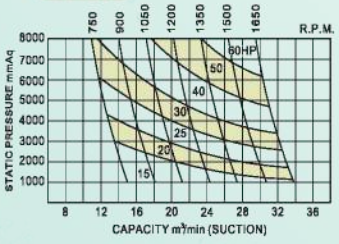

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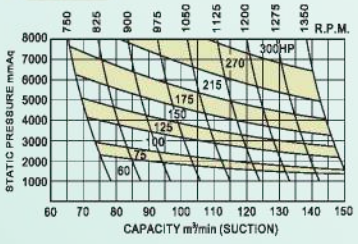


Design Feature

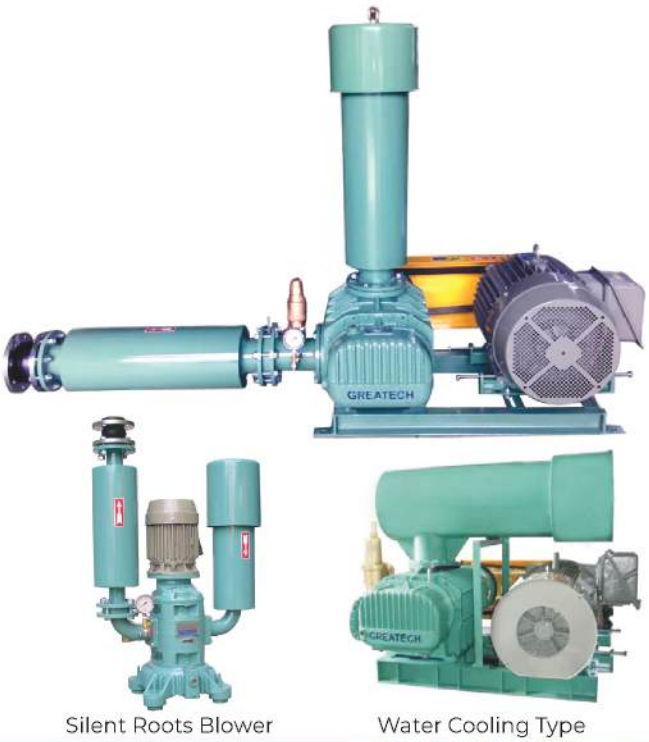
Bore Size : 40mm~300mm
Capacity : 0.6-150m³/min (36-9000 m³/hr)
Pressure : 0-10000 mmAq (0-1.0 kg/cm²)

Advantage

Tri-Lobe Roots Blower
Air cooled and circulated for whole blower
Operate quietly, Extreme low vibration
Saving electicity and gear oil
Vertical design, Space saving
Strong construction, Easy maintenance
Clean air, Oil free conveying
Coupling driven, Without belt

Application

> Wastewater Treatment, Aquaculture, Electro-plating Industry, Powder Conveyance, Grain Transport, Paper production Food Industry, Semiconductor Industry, Chemical Industry...etc
> Especially suitable to install in Hospital, School, Hotel, Residential Area Office Building, where need low noise



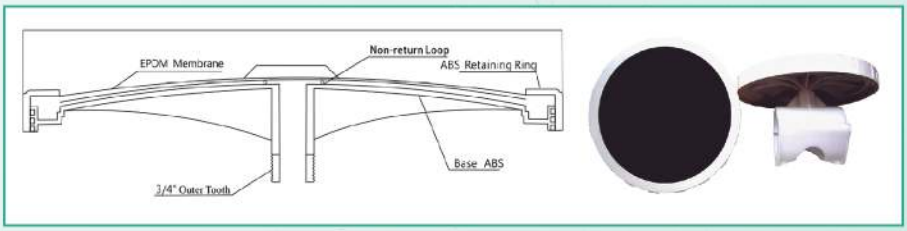
Silent Roots Blower

Water Cooling Type

FINE BUBBLE DISK DIFFUSER

Application

> Biological aeration
> Fishery spots
> Activated sludge sytems
> Wastewater treatment
> Oxygenation for sludge digestion
> Ozone diffusion in water



Model Number	Material			Specification and Performance				
	Base	Retaining Ring	Membrane	Diameter	Joint	Air Flow (m3/min)	Dissolved Oxygen effciency (20°C)	Pressure Loss (20°C)
GD250	ABS	ABS	EPDM	250mm	PT3/4"	0.03~0.08	26% 4.7M (water depth) 0.05 SCMM air Flow	200mm/H20 0.05 SCMM air Flow
GD320	ABS	ABS	EPDM	320mm	PT3/4"	0.03~0.12	29% 4.7M (water depth) 0.05 SCMM air flow	250mm/H2O 0.07 SCMM air flow

COARSE BUBBLE DISK DIFFUSER

Model No.	Meterial		Specification and Performance				
	Base	Membrane	Diameter	Inlet Joint	Air flow (m3/min)	Dissolved Oxygen Effciency (20°C)	Pressure Loss (20°C)
GD144	ABS	TRP	144 mm	PT 1" or 3/4" outer tooth	0.1~0.45	12% 4M (depth) 0.25 scmm air flow	135mm/H2O 0.25scmm air flow

Model No.	Material		Specification Performance			
	Base	Diffuser	Diameter	Intel Joint	Height	Air flow (m3/min)
GD80	ABS	Neoprence Rubber	80mm	PT 4/8" outer tooth	40mm	0.08~0.10


GD144


D80

TUBE TYPE AIR DIFFUSER

Specification				
Model No.	ODxIDxLength	PCS	Air Flow Operation	Overall Lenght
GTD-D1000	70x50x1000mm	1	480~720 l/min	1050 mm
GTD-S1000	70x50x1000mm	1	480~720 l/min	1050 mm
GTD-S500	70x50x500mm	1	240~360 l/min	525 mm
GTD-D500	70x50x500mm	1	240~360 l/min	525 mm

Pipe Fitting: GTD-D1000 / GTD-S1000: (PT 3/4") GTD-S500 / GTD-D500: (PT 3/4")

Components	Holder	Porous Part	END Cap	Membrane	Connecting Rods Washers & Nuls
Material	ABS	PP	ABS	EPDM/Silicon	SUS304

FLOW MEASURING SYSTEM

ELECTROMAGNETIC FLOW METER

Electromagnetic flow meters are flowmeters that measure flow according to Faraday's law of electromagnetic induction. Electromagnetic flowmeters have the advantage of minimal pressure loss and a large range of measurable flow rates.

The ratio of the maximum flow rate to the minimum flow rate isgenerally more than 20:1. The applicable industrial tube diameter is wide, up to 3 meters. The output signal and the measured flow rate are linear, and the accuracy is high.

The conductivity can be measured ≥5μs/cm. Acid, alkali, salt solution, water, sewage, corrosive liquids, and fluid flow of mud, pulp, etc. However, it cannot measure the flow of gas, steam, and pure water.

Performance specifications:	
Size	3mm~3000mm
Flow velocity	0~15m/s
Accuracy	±0.5% (Standard); ±0.2% (Option)
Conductivity	≥20μs/cm (Standard); ≥5μs/cm (Option)
Media temperature	-20°C~+60°C (Integral type); -20°C~+160°C (Split type)
Environment temperature	-20°C~+60°C
Liner material	Neoprene, PTFE EPDM, Ceramic, FEP, HARD RUBBER, PFA, Polyurethane, Fluorosilicone rubber
Electrode meterial	SS316L, Hastelloy B, Hastelloy C, Titanium, Tantalum, Platinum iridium alloy, Titanium diboride (For Ceramic liner)
Standard signal output	4-20mA, Pulse, RS485
Power supply	12VDC,20~36VDC, 85~250VAC
Protect grade	IP65
Power	6.5W

OPEN CHANNEL FLOW METER

KOC open channel flow meter is an economical solution for open channel measuring, which measures level, flow rate and total volume of water flowing through weirs and flumes. The meter includes a non-contact ultrasonic level sensor to detect the water level and then calculates the flow rate and volume using the Manning equation and characteristics of the channel.

Performance specifications:	
Type	KOC-U5R2C (host)
Power supply	DC24V (±5%) 0.2A; AC220V (±20%) 0.1A
Display	2 lines 14 digit backlit LCD
The instantaneous flow rate range	0.0000-99999L/S or m^3/h
The maximum of cumulative flow	9999999.9 m^3
Accuracy of change in level	1mm or 0.2% of measured distance from the probe at still water. (whichever is greater)
Resolution	1mm
Analogue output	4-20mA into 500 Ohms, corresponding to instantaneous flow rate.
Relays outputs	6 multi-function SPDT relays at most (optional), rated 5A/250VAC/30VDC, high, low and failsafe alarm and control corresponding to instantaneous flow rate or level.
Serial communication	RS485, MODBUS-RTU standard protocol
Ambient temperature	-40°C~70°C
Temperature compensation	Integral in probe
Pressure range	±0.1MP (press definitely)
Measure cycle	1 second (changeable)
Parameter setting	3 induction buttons/remote control
Material	ABS
Protect grade	IP67
Fix	Hang
Dimensions	248H*184W*122D(mm)

VORTEX FLOW METER

Flange vortex flow meter is used in numerous branches of industry to measure the volume flow of Air, gases and steam.

Applications in the chemicals and petrochemicals industries, for example, in power generation and heat-supply systems involve widely differing fluids:

Specifications

Measured Medium	Liquid, Gas, Steam
Medium Temp	-40°C~+200°C; -40°C~+280°C; 40°C~+350°C
Nominal Pressure	1.6MPa;2.5MPa:4.0MPa;6.4MPa(Other pressure can be custom,need consult supplier)
Accuracy	1.0%(Flange), 1.5% (Insertion)
Measuring range ratio	1:10(Standard air condition as reference) 1:15(Liquid)
Flow Range	Liquid:0.4-7.0m/s; Gas:4.0-60.0m/s; Steam: 5.0-70.0m/s
Specifications	DN15-DN300(Flange), DN80-DN2000(Insertion), DN15-DN100(Thread), DN15-DN300(Wafer), DN15-DN100(Sanitary) SS304(Standard), SS316(Optional)
Pressure Loss Coefficient	Cd≤2.6
Vibration Acceleration Allowed	≤0.2g
IEP ATEX	II 1G Ex ia IIC T5 Ga
Ambient Condition	Ambient Temp:-40°C-65°C(Non-explosion-proof site); -20°C-55°C(Explosion-proof site) Relative Humidity:≤85% Pressure:86kPa-106kPa
Power Supply	12-24V/DC or 3.6V battery powered
Signal Output	Pulse frequency signal2-3000Hz, Low level≤ 1V. high level≥6V
	Two-wire system 4-20 signal(isolated output), Load≤500

ULTRASONIC FLOW METER (PORTABLE)

KC621 is a full function portable transit-time ultrasonic flow meter. No matter you want to quickly verify theflow reading of another meteror to data log flow system values over an extended time period, The KC621 is the suitable tool.

The innovative design includes matched precision transducers and signal processing circuitry to accurately measure the flow of most liquids over a wide range of velocities. Clamp-on transducers create no wear, zero pressure loss, and do not require process interruptions to install them since they are attached to the outside of the pipe.

Performance specifications:	
Flow range	±0.03 ft/s ~±40 ft/s (±0.01 m/s~ ±12 m/s)
Accuracy	±1% of measured value
Pipe size	Clamp-on:1"~48" (25mm~1200mm)
Fluid	Single medium liquid
Pipe material	Carbon steel, stainless steel, PVC and other compact material pipe
Function specifications:	
Outputs	Analog output: 4~20mA, Max 750 Ω. Modbus: RS485
SD card	16G
Interval	1~99999seconds
Key broad	Digital keys
Display	240*128 back lit LCD
Power supply	Rechargeable Lithium Battery Power, 3000mAh (Continuous operation of main battery 16 hours).
Temperature	Transmitter: -40°C~60°C Transducer: -40°~80° (-40°C~80°C is standard;- 40°C~130°C is an option)
Humidity	Up to 99% RH, non-condensing
Physical specifications:	
Transmitter	NEMA13,IP54.
Transducer	Encapsulated design, IP68
Transducer cable	Standard cable length: 5m (16ft).

PUMPING SOLUTION

NON CLOG SELF PRIMING CENTRIFUGAL PUMP

The Non Clog Self Priming Centrifugal Pump is designed for efficient and reliable pumping of fluids that may contain solids or debris. Its self-priming capability allows it to draw liquid without needing manual priming, making it ideal for wastewater, sewage, and industrial applications. The non-clog design minimizes maintenance by preventing blockages, ensuring consistent performance in challenging environments. This type of pump is known for its durability, ease of use, and versatility in various fluid transfer tasks.

Technical Data

> Capacity: Up to 450 m3/Hr
> Head: Up to 40m
> Temp: Up to 95°C
> Delivery Size: DN25-DN300

Applications

> Effluent Treatment Plants
> Sewage Treatment Plants
> Municipal raw sewage transfer
> Dirty water in industry
> Sludge Transfer

Design Features

> Mounting: Horizontal
> Stage: Single
> Self-priming
> Suitable for a wide range of duties
> Non-return valve mounted
> Oil bath for the mechanical seal (preventing seal from running dry)
> Dust tight, grease lubricated bearings

END SUCTION HORIZONTAL CENTRIFUGAL PUMP

The End Suction Horizontal Centrifugal Pump is a highly efficient pumping solution designed for various industrial applications. Featuring robust construction and advanced hydrodynamic design, it ensures reliable performance, high flow rates, and optimal energy efficiency. Ideal for water supply, irrigation, and chemical processing, it offers easy maintenance and long-lasting durability.

Technical Data

> Capacity: Up to 1500 m3/Hr
> Head: Up to 160m
> Temp: Up to 200°C
> Delivery Size: DN25-DN500

Applications

> Effluent Treatment Plants
> Sewage Treatment Plants
> Boiler & Cooling Tower
> Chemical & Process
> Fire Fighting Etc.

Design Features

> Mounting: Horizontal
> Stage: Single
> Suitable for a wide range of duties
> Non-return valve mounted
Oil bath for the mechanical seal (preventing seal from running dry)
> Dust tight, grease lubricated bearings

MONOBLOCK CENTRIFUGAL PUMP

Centrifugal Monoblock and single-impeller electrical pump with 0.5-40 horse power motor, the pump is connected to the motor by means of a support unit. It has flanged inlet and delivery openings and threaded counter-flanges. This pump is ideal for pumping clean water and other chemically and mechanically non-aggressive liquids. Also, it is suitable for civil, agricultural, industrial or general plant uses, like water supply, spray or flowing irrigation, high pressure system, heating, conditioning and any other general service requiring transfer of clean liquids.

SC Series

HCP Series

Specifications

MODEL	POWER (kW)	POWER (HP)	INLET/OUTLET	MAX.FLOW (L/min)	MAX.HEAD (m)	MAX.SUCT (m)
130	0.37	0.5	1" X 1"	90	23	8
158	0.75	1.0	1" X 1"	100	36	8
170	1.1	1.5	1" X 1"	130	41	8
170M	1.1	1.5	1 1/4"X1"	170	36	8
190	1.5	2.0	1 1/4"X1"	150	48	8
200	2.2	3.0	1 1/4"X1"	160	55	8

SUBMERSIBLE SEWAGE PUMP (CUTTER & NON CUTTER)

A submersible sewage pump (cutter) is a robust, electric pump designed to efficiently handle and transport wastewater that contains solid waste materials. Equipped with sharp cutters, it grinds solids into smaller particles, preventing clogs and ensuring smooth operation. Ideal for residential, commercial, or industrial applications, these pumps are submerged in the sewage source, allowing for effective drainage in confined spaces. Their durable construction and reliable performance make them essential for managing sewage systems safely and effectively.

Technical Data

> Capacity: Up to 1080 m3/Hr
> Head: Up to 52m
> Temp: Up to 120°C
> Delivery Size: DN25-DN600

Design Features

> Leak proof detector
> Dual mechanical seal
> Oil Jacket
> Insulation Class: F
> Protection Class: IPX8
> Copper winding

HIGH PRESSURE PUMP

A high-pressure pump is a mechanical device designed to generate and deliver fluids at elevated pressures, typically for applications such as water jet cutting, pressure washing, and industrial processes. It efficiently converts mechanical energy into hydraulic energy, enabling the movement of liquids through pipes or systems against resistance. High-pressure pumps are essential in various industries, offering precise control, increased flow rates, and enhanced performance in demanding environments.

Technical Data

> Capacity: Up to 1510 Ltr/Min
> Head: Up to 350m
> Temp: Up to 120°C
> Delivery Size: DN25-DN300

Design Features

> Leak proof detector
> AISI 304 fabricated shaft
> Built in thermal protector
> Insulation Class: F
> Protection Class: IP44
> Copper winding
> Stainless steel pump body

SS CENTRIFUGAL PUMP

Stainless steel centrifugal pumps with semi-open impeller, max solid 19mm, produced by advanced stamping and welding technology, the pump body, impeller and shaft are made of SUS304 or SUS316, with features of exchangeable components, stable quality, small size, light weight, corrosion resisting, high efficiency, long working life, beautiful appearance and safe use.

Application

Those series pumps are suitable for the application of circulation cleaning system of various production lines and transporting media containing impurities

Technical Data

> Capacity: Up to 517 Ltr/Min
> Head: Up to 58m
> Temp: Up to 120°C
> Delivery Size: DN25-DN150

Motor

2-pole induction motor, aluminum alloy motor case single phase with thermal protector, Class For B. Protection IP54, Continuous duty.

Materials

Pump case, back cover, impeller and shaft stainless steel
Motor case: aluminium

CHEMICAL DOSING PUMP

KOMBA SERIES

A Seko dosing pump is a type of precision pump used for accurate chemical dosing in various industries, including water treatment, agriculture, manufacturing, and food processing. Seko is a company that specializes in the production of dosing pumps and related equipment.

Dosing pumps are designed to deliver precise amounts of chemicals or other fluids into a system or process. They are commonly used for tasks such as pH adjustment, disinfection, coagulation, flocculation, and chemical dosing in water treatment plants. Dosing pumps are also employed in industrial processes that require accurate and controlled addition of chemicals.

Seko dosing pumps typically operate using a piston, diaphragm, or peristaltic mechanism to control the flow rate and ensure accurate dosing. They can be electrically driven and controlled, allowing for automation and remote monitoring. Some models may have built-in controllers or can be integrated into a larger control system.

Seko dosing pumps are known for their reliability, precision, and durability. They are often chosen for applications that demand accurate chemical dosing and require consistent performance over extended periods.

Model:	DMS200
Flow rate:	0-10 l/h,
Pressure:	up to 10 bar (145 psi),
Stroke rate:	up to 160 strokes/minute,
Wetted part materials:	PVDF-T, PTFE, EPDM, FPM and ceramic
Power supply:	100–240 VAC 50/60 Hz,
Ingress protection:	IP65

AKS/TPG SERIES

The series offers multiple models, with analogue and digital interfaces, able to satisfy every installation need and to offer a reliable and effective solution in any situation.

Flow rate:	0-110 l/h,
Pressure:	up to 20 bar (290 psi),
Stroke rate:	up to 160 strokes/minute,
Wetted part materials:	PVDF-T, PTFE, EPDM, FPM and ceramic,
Power supply:	100–240 VAC 50/60 Hz,
Ingress protection:	IP65

MS1 SERIES

The MS1 series offers multiple combinations of pump head and motor power that allows operators the chance to select the optimal combination appropriate to the specific application in hand.

The MS1 pumps have a spring return mechanism in a single aluminium housing. Each model works with 3 different stroke rates. Stroke lengths can be set automatically or manually using the AKTUA Kit which uses a 4 – 20 mA signal.

In addition, Spring MS1 pumps can be supplied with a single or three-phase electric motor with IP55 protection.

The MS1 12 VDC range achieves flow rates between 23 and 620 l/h at up to 16 bar.

Model:	MS1
Flow rate:	60-1200 l/h,
Pressure:	up to 16 bar (232 psi),
Stroke rate:	up to 160 strokes/minute,
Wetted part materials:	PVDF-T, PTFE, EPDM, FPM and ceramic
Power supply:	1380-440 VAC 50/60 Hz,
Ingress protection:	IP55

AIR OPERATED

The ARO Air Operated Diaphragm Pump is a versatile and efficient pumping solution widely used in various industries. Known for its reliability, durability, and ease of operation, this type of pump has gained popularity due to its unique design and functionality. In this article, we will provide a simplified overview of the ARO Air Operated Diaphragm Pump, explaining its working principle, components, applications, benefits, and maintenance requirements.

ARO Air Operated Diaphragm Pump Specifications

Pump Type: Non Metalic, Air Operated, Double Diaphragm Pump
Temperature: Up to 120 Deg. C
Discharge Capacity: 1-50.68 M3/H
Pressure: 8.2 Bar (Max)
Inlet & Outlet: 0.5"-4"
MOC of Body: Polypropylene
MOC Diaphragm: PTFE
Maximum Particle Size: ¼" (6.4 mm)

Design Features

PS1 pumps are plunger piston metering pumps featuring a spring return mechanism in a polypropylene housing.

Applications

Textile production uses chemical dosing
Mango pulp transfer
Food & beverage industries to transfer high density materials
Acid, Disinfectant, Caustic Etc.

EP SERIES SOLENOID DOSING PUMP

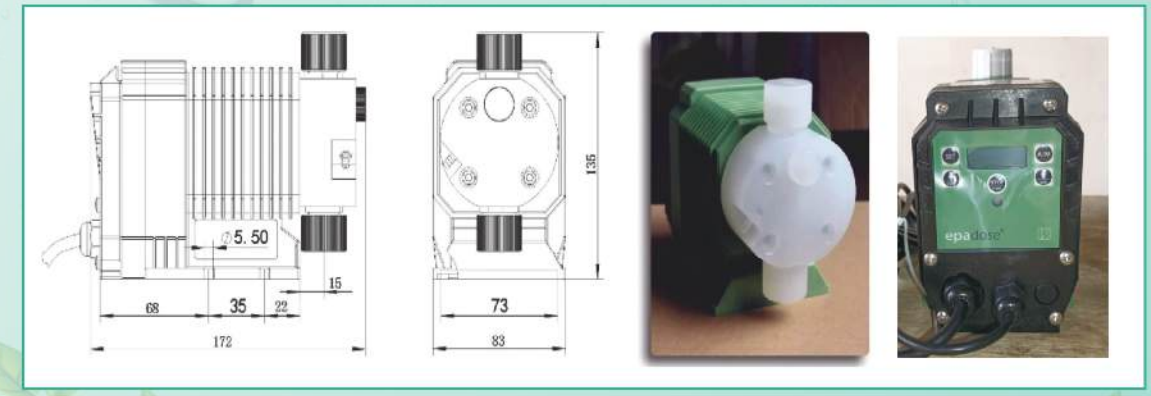
Epadose is a prominent manufacturer and supplier of chemical dosing pumps that are widely used in various industries. These pumps are designed to accurately and efficiently dispense precise amounts of chemicals or fluids into a system or process. The Epadose chemical dosing pumps offer a range of features and capabilities that make them suitable for diverse applications.

Technical Data

> Liquid: Chemical
> Material of Head: PP
> Section, Discharge: PPE.
> Diaphragm Material: EPDM
> Discharge Capacity: 1-20 LPH.
> Total dynamic head: 8-1 Bar.
> Valve Ball Material: Ceramic
> Seal & Gasket: FPM.

Applications

> Water Treatment Plant (RO, DM, Softner)
> Wastewater Treatment Plant (ETP, STP, WWTP)
> Industrial Production Procss (Textile, Paper, Tanneries, Food Processing) Acid, Disinfectant, Caustic Etc.



ELECTRIC MOTOR

The world is witnessing a remarkable shift towards sustainable technologies in various industries, aiming to reduce carbon emissions and combat climate change. In this pursuit, electric vehicles (EVs) and renewable energy sources have gained significant attention. One of the key components driving this transformation is the VIEM electric motor. The motor is a cutting-edge innovation that promises to revolutionize sustainable mobility and industrial automation, offering improved efficiency, reduced environmental impact, and enhanced performance. In this article, we will explore the VIEM electric motor's fundamental principles, its advantages, applications, and its potential impact on shaping a greener future.

Features of Electric Motor

Frame Size: H56-315
Rated Power: 0.12KW-250KW
Frequency: 50Hz; 60Hz
Degrees of Protections: IP55
Degrees of Insulation: Class F
Cooling Method: IC411

Advantages

Enhanced Efficiency
Extended Range for Electric Vehicles
Improved Power Density
Reduced Maintenance Requirements
Regenerative Braking
Eco-Friendly and Sustainable

Applications

Electric Vehicles (EVs)
Industrial Automation
Renewable Energy Systems
Aerospace and Aviation:
Electric Marine Propulsion

AGITATOR

In various industrial applications, gearboxes play a crucial role in transmitting power from a motor to various mechanical components, ensuring the proper functioning of machines. Additionally, agitators are essential in mixing, blending, and stirring processes, commonly found in chemical, pharmaceutical, and food industries. The choice between a gearbox with a motor and an agitator depends on the specific requirements of the application and the intended function. In this article, we will explore the fundamental principles, working mechanisms, advantages, and disadvantages of both gearboxes with motors and agitators, providing insights into their respective applications.

Features of Electric Motor

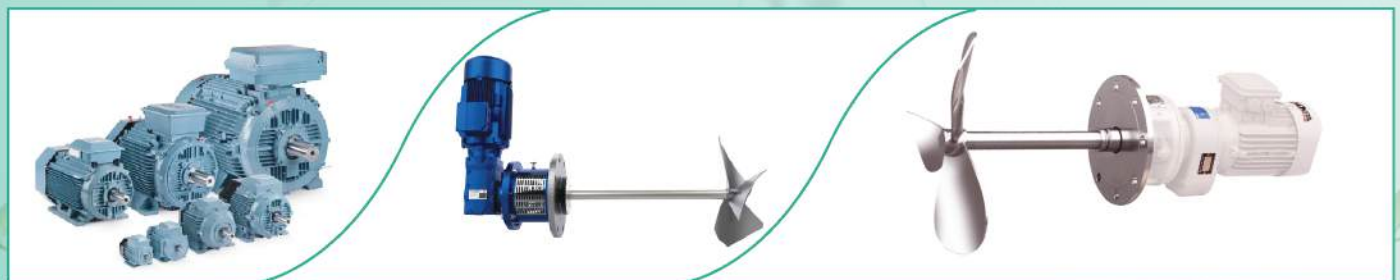
Power: 0.17kW-37kW
Motor rpm: 1-2900 rpm
Volt: 380 Volt, 3 Phase
Output rpm: As per req

Advantages

Efficient Mixing: Agitators can efficiently mix and homogenize large volumes of fluids, ensuring consistent product quality.
Flexibility: Different types of impellers can be used to achieve specific flow patterns and mixing objectives.
Scalability: Agitators are easily scalable for various tank sizes and volumes.
Easy Installation: They can be easily installed in existing tanks or vessels without significant modifications.

Applications

Agitators have diverse applications across multiple industries, including pharmaceuticals, chemical processing, food and beverage, wastewater treatment, and paint manufacturing. They are crucial in blending ingredients, promoting chemical reactions, preventing sedimentation, and maintaining temperature and consistency in large volumes of liquids.



ONLINE CONTROLLER

PH CONTROLLER

PH/ORP controller is an intelligent on-line chemical analysis instrument. It can continuously monitor data and realize remote transmission monitoring and recording. It can also connect to the RS485 interface. You can also easily connect to a computer using the 4-20ma protocol. It is widely used for electronics, chemical industry, pharmaceutical, environmental protection, metallurgy, paper making, food industry, water supply and other industry etc.

Specification

Measuring range	0~14.00pH；0~135℃
Resolution	0.01PH；0.1 ℃
Accuracy	0.01PH+1Digit；0.1℃ +1Digit
Electrode	0.05cm-1 sanitary grade electrode,1/2" thread
Current output	Isolated protection 4-20mA signal output
Cable length	10m or others(5~30m)
Working conditions	temperature : 0~50°c; Humidity : ≤85%RH

DO CONTROLLER

Digital water do online optical dissolved oxygen meter with sensor is an online intelligent dissolved oxygen detector, we introduce the foreign technology, using imported components and dissolved oxygen membrane head, new polarographic analysis technology based on, and advanced production technology and surface mount technology. This series of advanced analytical techniques are used to ensure the stability, reliability and accuracy of the instrument over a long period of time. It has functions of English menu, RS485 communication and so on. It can be widely used in chemical, fertilizer, metallurgy, environmental protection, water treatment projects, pharmaceutical, biochemical, food, aquaculture and tap water, such as continuous monitoring of dissolved oxygen value.

Specification

Measuring range	0-20mg/L, automatic range switching; 0-60℃
Resolution	0.1mg/L, 0.1℃
Precision	±0.5% FS, ±0.3℃
Automatic temperature compensation	0-60℃
Control interface	Two sets of normally open relay contact, divided into high and low alarm signal, photoelectric isolation output
Signal isolation output	photoelectric coupler isolated protection 4-20mA signal output
Relay	arbitrary setting of hysteresis, relay load 3A 220VAC
Working conditions	ambient temperature of 0-60℃relative humidity ≤ 90%
Output load	<300Ω (4-20mA)
Working voltage	110-220V AC±10%, 50/60Hz

EDI (ELECTRODEIONIZATION) MODULE

EDI (ELECTRODEIONIZATION) base one merging ED and ion exchanger , an economical way to produce high purity water continuously no batch regeneration, no hazardous chemicals. With the advanced technology ,easy operation, and environmental advantage, it is represent the directtion of this field. EDI equipment includes booster pump , edi module ,dc regulated power supply,flow meter and instrument, purify water is forced into EDI system by boost pumps, mixed ion exchange resin will continuously remove the impurities from the water by ion exchange.Meanwhile , the electroly to stream flows past the anode and cathode in series, the applied current also drives a water splitting reaction which produces hydronnium ions and hydroxylions. These ions continuously regenerate the ion exchange resin so that it will continue to remove impurities from the feed water. Then re-displaced cation and anion from the feed water water will permeate into concentrate chamber by some times reverse osmosis. As a result, a portion of concentrated is recycled back to keep the conductivity.

REQUESTED OF FEED WATER

1. Resource water , RO water conductivity less than 20 us.cm better than 10 us.cm
2. PH: 6.0-9.0
3. Temperature: 5-35'c
4. Hardness: Less than 0.5ppm
5. Organics: Max 0.5ppm, Recommend 0 ppm
6. Oxidizers: Max 0.05ppm
7. FE MN: Max 0.01ppm
8. Silica: Max 0.5ppm
9. Carbon Dioxide: max 5ppm
10. Oil: Not Detectable

TECHNICAL DATA

Item	EDI-P&F-0.5-HP	EDI-P&F-1.0-HP	EDI-P&F-2.0-HP	EDI-P&F-3.0-HP	EDI-P&F-4.0-HP
Product Flow m^3/h	0.5	1.0	2.0	3.9	4.0
Min Product Flow(m^3/h)	0.3	0.7	1.4	2.4	3.2
Max Product Flow(m^3/h)	0.7	1.5	2.5	3.8	4.8
Recovery(%)	85-95	90-95	90-95	90-95	90-95
Resistivity(MΩ·cm)	≥15	≥15	≥15	≥15	≥15
Voltage(DCV)	9-18	15-30	30-60	45-90	60-120
Inlet Pressure(Mpa)	0.10-0.3	0.10-0.3	0.15-0.4	0.15-0.4	0.15-0.4
Max Pressure(Mpa)	0.7	0.7	0.7	0.7	0.7
Fresh Water / Water Pipe Nozzle Size	DN25	DN25	DN25	DN25	DN25
Fresh Water Inlet / Outlet Nozzle Size	DN15	DN15	DN15	DN15	DN15

OZONE GENERATOR

Item	Unit	EW-20G	EW	Unit
Ozone Output	G/H	20	35-40	50-60
Power	W	300	330	380
Voltage	V/Hz	AC220/110V,50/60HZ		
Concentration	ppm	45	70	125
Generating Material	/	Ceramic Plate		
Dimension(L*W*H)	Cm	40X30X65		
Unit Weight	kg	15.5	16.5	17.7
External case	/	Stainless stell 304		
Treat air flow	CMH	7000	10,000	15,000

FRP VESSEL WITH ACCESSORIES (HEAD & STRAINERS)

Our products come in a wide range of models and are both ISO9001, CE and NSF certified.

SPECIFICATION OF FRP VESSEL

No	Model	Nominal Dimension	Opening		Volume		Base	Dimension			
			Top	Bottom	Litre	Gallon		A (mm)	B (mm)	C (mm)	D (mm)
01	1035	250*890	2.5"-8NPSM	No	39.4	10.4	Standard Base	900	Ø266		Ø258
02	1054	250*1373	2.5"-8NPSM	No	63.5	16.8	Standard Base	1375	Ø266		Ø258
03	1252	300*1320	2.5"-8NPSM	No	85.9	22.7	Standard Base	1333	Ø318		Ø307
04	1665	400*1650	2.5"-8NPSM	No	191.3	50.5	Round Base	1668	Ø428		Ø417
05	1665	400*1650	4"-8UN	No	191.3	50.5	Round Base	1668	Ø428		Ø417
06	2069	500*1752	4"-8UN	No	245.3	64.8	Round Base	1770	Ø500		Ø510
07	2072	500*1790	4"-8UN	4"-8UN	255.3	67.4	Tripod Base	1770	Ø500	223	Ø510
08	2162	550*1575	4"-8UN	No	312.7	82.6	Round Base	1600	Ø530		Ø541
09	2162	550*1575	4"-8UN	4"-8UN	312.7	82.6	Tripod Base	1804	Ø530	234	Ø539
10	2472	600*1830	4"-8UN	No	477.5	126.2	RoundBase	1850	Ø612		Ø613
11	2472	600*1830	4"-8UN	4"-8UN	477.5	126.2	Tripod Base	2080	Ø590	260	Ø612
12	3072	750*1830	4"-8UN	No		191.8	Round Base	1880	Ø762		Ø766
13	3072	750*1830	4"-8UN	4"-8UN	725.9	191.8	Tripod Base	2035	Ø750	240	Ø763
14	3672	900*1830	4"-8UN	No	1030.2	272.2	Round Base	1880	Ø910		Ø919
15	3672	900*1830	4"-8UN	4"-8UN	1030.2	272.2	Tripod Base	2060	Ø900	280	Ø906
16	4272	1100*1830	6"-FLG	6"-FLG	1431.2	378.1	Tripod Base	2180	Ø1066	190	Ø1067
17	4872	1200*1830	6"-FLG	6"-FLG	1786.2	471.9	Tripod Base	2195	Ø1200	230	Ø213

FEATURES

LENNTEC FRP tank: 1.0MPa.

- Food grade Hdpe adopted as liner
- Epoxy resin + fiberglass winding reinforcement.
- Precise thread and flange connections for industrial and civil use
- Working & testing pressure: 1.0 MPa And 0.6 MPa. 100, 000 times of fatigue test. Burst presure test: 4 times of design pressure
- Certification:NSF, on:NSF,ISO9001,CE, Sanitary approval for products related to drinking water
- Model: 0517-8079.
- Working temperature: 1 °C-49 °C (34°F-120 °F).

AUTOHEAD

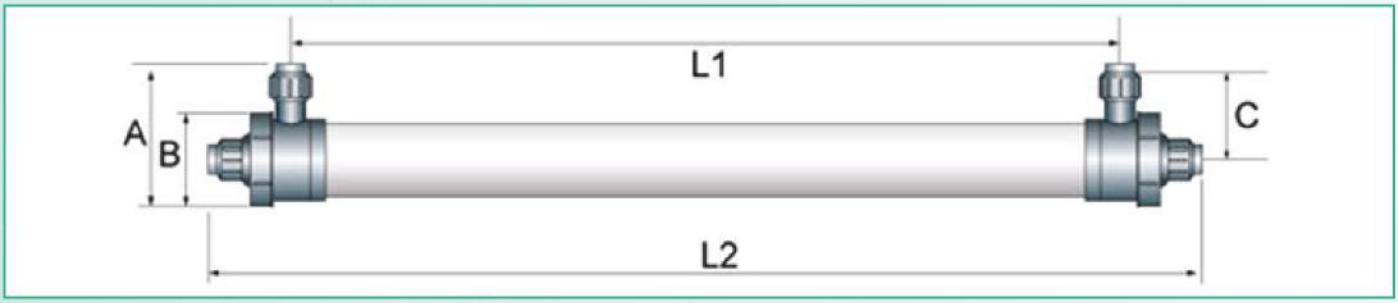
MANUAL HEAD

STRAINER

MEMBRANE ELEMENTS

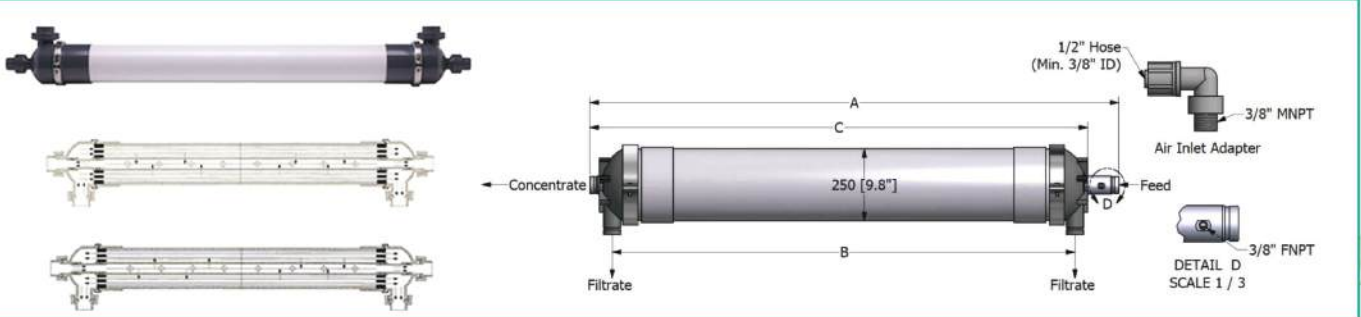
ULTRAFILTRATION MEMBRANE

Ultrafiltration membranes are semi-permeable barriers used in filtration processes to separate particles and macromolecules from fluids. These membranes allow water and small solutes to pass while retaining larger molecules, making them essential in water purification, food processing, and pharmaceutical applications.



Ultrafiltration membrane module parameters

Module	UF-4040	UF-4046	UF-6060	UF-8060
Module type	Inside-out	Inside-out	Inside-out	Inside-out
Shell and seal materials	PVC,epoxy resins	PVC,epoxy resins	PVC,epoxy resins	PVC,epoxy resins
Membrane Material	PAN/PVC	PAN/PVC	PAN/PVC	PAN/PVC
Molecular WeightCut off(Dalton)	50.000	50.000	100.000	100.000
Size (mm)	Ø90*1016	Ø90*1155	Ø160*1352	Ø200*1415
Effective membrane area	4m2	4.8m2	15m2	25m2
Hollow fiber id/od size	1.0mm/1.6mm	1.0mm/1.6mm	1.0mm/1.6mm	1.0mm/1.6mm
Max operating pressure	0.3Mpa	0.3Mpa	0.3Mpa	0.3Mpa
Suggest operating pressure	<0.2Mpa	<0.2Mpa	<0.2Mpa	<0.2Mpa
Max transmembrane pressure	<0.2Mpa	<0.2Mpa	<0.2Mpa	<0.2Mpa
Backwash pressure	0.05-0.1Mpa	0.05-0.1Mpa	0.05-0.1Mpa	0.05-0.1Mpa
Produced water pollution index(SDI 25)	<3	<3	<3	<3
Initial flux	0.8m3/h	1.0m3/h	4.5m3/h	5m3/h
Design flux	40-150L/m2/h	40-150L/m2/h	PVC,epoxy resins	40-150L/m2/h
Operating mode	Cross flow or dead-end flow	Cross flow or dead-end flow	Cross flow or dead-end flow	Cross flow or dead-end flow
Bacteria removal rate	>4log	>4log	>6log	>6log
Permeate turbidity	<0.1NTU	<0.1NTU	<0.1NTU	<0.1NTU
Operating temperature	5~40°C	5~40°C	5~40°C	5~40°C
PH range	PVC,epoxy resins	2~10	2~10	2~10



ULTRA LOW PRESSURE MEMBRANE ELEMENT

ULP series can work under ultra low pressure to reach as high permeate flow and salt rejection as regular low pressure membrane.It operates under approximately two thirds of the operating pressure of regular low pressure composite membrane and achieves a good salt rejection.

Specification

Model	Membrane area ft2(m2)	Operating pressure psi(MPA)	Average permeated flow GPD(M3/D)	Stable rejection rate(%)
ULP4021	36(3.3)	150(1.05)	1000(3.8)	99.0
ULP4040	78(7.2)	150(1.05)	2500(9.8)	99.0
ULP8040	400(37)	150(1.05)	10500(39.5)	99.0

Operating Condition

> Max. Feedwater Temperature: 45°C
> Max. Feedwater SDI: 5.0
> Free Chlorine Concentration of Feedwater: 0.1mg/L
> pH Range of Feedwater during Continuous Operation: 3~10
> pH Range of Feedwater during Chemical Cleaning: 2~12
> Max. Pressure Drop of Single Membrane Element: 10psi(0.07Mpa)

BW PRESSURE MEMBRANE ELEMENT

BW series has the properties of high permeate flow and excellent desalination. BW series is mainly applicable to treatment of various industrial water.

Specification

Model	Membrane area ft2(m2)	Operating pressure psi(MPA)	Average permeated flow GPD(M3/D)	Stable rejection rate(%)
BW4021	36(3.3)	225(1.55)	900(3.4)	99.5
BW4040	78(7.2)	225(1.55)	2500(9.8)	99.5
BW8040	400(37)	225(1.55)	10500(39.7)	99.5

Operating Condition

> Max. Feedwater Temperature: 45°C
> Max. Feedwater SDI: 5.0
> Free Chlorine Concentration of Feedwater: 0.1mg/L
> pH Range of Feedwater during Continuous Operation: 3~10
> pH Range of Feedwater during Chemical Cleaning: 2~12
> Max. Pressure Drop of Single Membrane Element: 10psi(0.07Mpa)

UV STERILIZER

Specification

Product Code	FLOW RATE	CONNECTION BSP	Length(mm)
UV 4w	0.3GPM/55LPH	1/4" BSP	165
UV6w	0.5GPM/120LPH	1/4" BSP	236
UV12w	1GPM/230LPH	1/4" BSP	300
UV16w	2GPM/480LPH	1/2" BSP	330
UV25w	6GPM/1300LPH	1/2" BSP	550
UV30w	8GPM/1800LPH	3/4" BSP	869
UV35w	10GPM/2270LPH	3/4" BSP	910
UV55w	12GPM/2725LPH	3/4" BSP	910

MEMBRANE HOUSING

MEMBRANE HOUSING (SS)

Specification

Material: Stainless Steel 304, #316L
Housing tube type: Seamed/Seamless
End cap material: ABS/Stainless steel
Max. working pressure: 300psi
Inlet port: 3/4"
Outlet port: 1/2"
Model: 4021, 4040, 4080, 40120, 40160

MEMBRANE HOUSING (FRP)

Specification

Material: FRP
Max. working pressure: 300psi, 450psi, 600psi, 800psi,1000psi
Inlet port: 3/4"
Outlet port: 1/2"
Model: 4021, 4040, 4080, 40120, 40160,40200

SS VESSEL

A Stainless Steel Pressure Vessel is a robust container designed to safely hold gases or liquids under high pressure. Its corrosion-resistant material makes it suitable for industries like pharmaceuticals and food processing, ensuring durability, hygiene, and compliance with safety standards.

Specification

Material Grade: SS304
Storage Material: Chemical, Water, Oil, Milk, Liquid, Gas etc
Orientation: Vertical Orientation
Vessel Size: All Size Available (As Per Requirements)
Shape: Cylindrical
Finish: Mat

Application

Chemical Processing
Pharmaceutical Industry
Oil and Gas Industry
Water Treatment
Power Generation
Research and Development
Cryogenic Applications

MS VESSEL

A Mild Steel (MS) Vessel is a sturdy container ideal for storing liquids and gases. Known for its strength and weldability, it is widely used in industrial applications, providing reliable performance and cost effectiveness in manufacturing processes and storage solutions.

Specification

Material: Mild Steel (MS)
Storage Material: Chemical, Water, Oil, Milk, Liquid, Gas etc
Orientation: Vertical Orientation
Vessel Size: All Size Available (As Per Requirements)
Shape: Cylindrical
Finish: Mat/Glossy

Application

Chemical Processing
Pharmaceutical Industry
Oil and Gas Industry
Water Treatment
Power Generation
Research and Development
Cryogenic Applications

RO-075-0004

RO-075-0003

RO-075-0055

Name	75GPD with indicator	75GPD auto-fush	75GPD with pressure gauge
Product Code	RO-075-0004	RO-075-0003	RO-075-0055
Intel Pressure	0.1Mpa-0.35Mpa	0.1Mpa-0.35Mpa	0.1Mpa-0.35Mpa
Temperature	5~38°C	5~38°C	5~38°C
Adaptor	1.2A/24V	1.2A/24V	1.2A/24V
Input Power	100V-240V, 50/60HZ	100V-240V, 50/60HZ	100V-240V, 50/60HZ
Operating Pressure	0.4Mpa-0.6Mpa	0.4Mpa-0.6Mpa	0.4Mpa-0.6Mpa
Tank	3.0G Tank	3.0G Tank	3.0G Tank
Membrane	50GPD/75GPD	50GPD/75GPD	50GPD/75GPD
Booster Pump	8806/24Dertin	8806/24Dertin	8806/24Dertin

RO-400-0004

RO-400-0003

RO-600-0001

Name	400GPD with pressure gauge	400GPD with UV	800GPD with pressure gauge
Product Code	RO-075-0004	RO-400-0003	RO-600-0001
Intel Pressure	0.1Mpa-0.35Mpa	0.1Mpa-0.35Mpa	0.1Mpa-0.35Mpa
Temperature	5~38°C	5~38°C	5~38°C
Adaptor	3.0A/2V	3.0A/2V	3.0A/2V
Input Power	100V-240V, 50/60HZ	3.0A/2V	100V-240V, 50/60HZ
Operating Pressure	0.4Mpa-0.6Mpa	0.4Mpa-0.6Mpa	0.4Mpa-0.6Mpa
Tank			
Membrane	400GPD	400GPD	600GPD
Booster Pump	8818/36	8806/24Dertin	8806/24Dertin

MICRON FILTER HOUSING

Specifications

Model	Diameter (Mm)	Height (Mm)	Wall Thickness (Mm)	Opening Size (Inch)
200	200	900	1.2	2.5 (NPSM)
200	200	1100	1.2	2.5 (NPSM)
250	250	900	1.2	2.5 (NPSM)
250	250	1100	1.2	2.5 (NPSM)
250	250	1400	1.2	2.5 (NPSM)
300	300	1400	1.5	2.5 (NPSM)
300	300	1650	1.5	2.5 (NPSM)
350	350	1650	1.5	2.5 (NPSM)
400	400	1650	2	2.5 (NPSM)
500	500	1750	2	4 (8UN)
600	600	1800	2	4 (8UN)
750	750	1850	2.5	4 (8UN)
900	900	1900	3	4 (8UN)

JUMBO FILTER

Specifications

Flow rate and pressure loss depend on filter elements type
Inlet/outlet port: plastic or brass

Port size

> PSH101-PSH056 : 1/4", 1/2", 3/4"
> PSH107-PSH112 : 1/2", 3/4", 1"
> PSH113-PSH114 : 3/8", 1/2", 3/4",1"
> PSH115-PSH118 : 3/4", 1", 1.25",1.5"

PP MICRON FILTER

Specifications

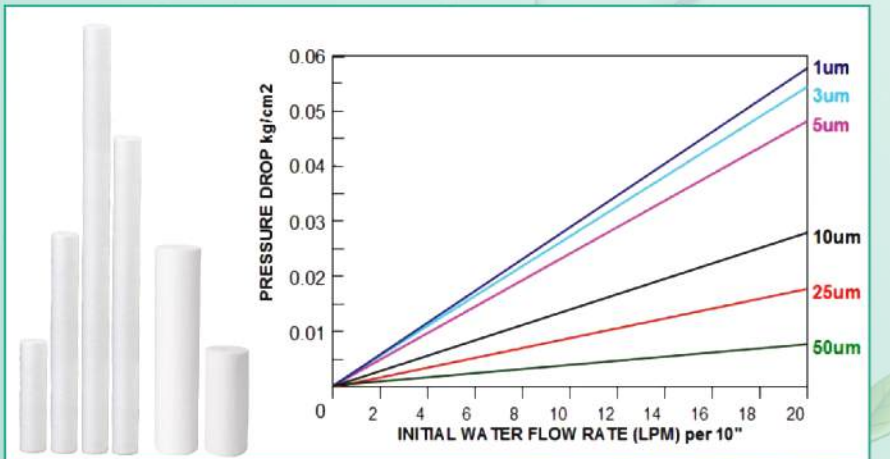
Model PPE	Support Core	Dimension	Micron Rating	End Adaptor	Seal	Length Inch
PPF-A Standard PPf-B Thin groove PPF-C Broad groove	P-PP N-none	A-ID28mm OD2.5" B-ID28mm OD4.5" C-ID30mm OD2.5" D-customize	1:1µm 3:3µm 5:5µm 10:10µm 100:100µm	0-DOE 1-226/Fin 2-222/Fin 3-222/Flat closed	E-EPDM N-Buna S-Silicone V-Viton	5:5" 93/4:93/4 97/8:97/8" 10:10" 20:20" 30:30" 40:40" 50:50"

Applications

> Drinking water treatment
> Electronic industry
> Chemicals and Solvents

Dimensions

> Outside diameter: 2.5",4.5"
> Inside diameter:28mm or 30mm
> Length: 5", 10", 20", 30", 40"
> Max. Operating Temperature: 80°C
> Max. Differential Pressure: 2.0 bar @ 21°C



WATER TREATMENT MEDIA & CHEMICAL

ION EXCHANGE RESIN

Item Name	Type	Ionic Form	Shipping Weight (g/l)	Particle size %
Softener Resin	001*7H/201-7-0H Volume Ratio 1:1	99%H+ 90%OH-	720-760	0.45-1.25mm
	001*8H/201-4-0H Volume Ratio 2:3	99%H+ 90%OH-	710-740	0.315-1.25mm
	001*8H/201*7 0H Volume Ratio 1:2	99%H+ 90%OH-	700-740	0.315-1.25mm

ION EXCHANGE RESIN

ACTIVATED CARBON

Item Name	Material	Parameter / Specification	Lodine mg/g	Ash%	PH	Hardness%	Density g/m³
Activated Carbon	Coal base, coconut shell	2*6	800-1050	10-15%	8-11	90-95	430-530
		4*10	800-1050	10-15%	8-11	90-95	430-530
		8*16	800-1050	10-15%	8-11	90-95	430-530
		8*30	800-1050	10-15%	8-11	90-95	430-530
		12*40	800-1050	10-15%	8-11	90-95	430-530

ACTIVATED CARBON

MANGANESE SAND

Analysis item	Manganese dioxide	Density	Volume	Manganese
Result	30-40%	3.5g/cm3	2.4g/cm³	18-255
Analysis item	Silicon dioxide	Fe+	Carbon Manganese	Slit Content
Result	16-20%	8-19%	12-22%	≤ 3%
Product Size	0.6-1.2mm	0.81.6mm	1-2mm	2-4mm

MANGANESE SAND

QUARTZ SAND

Testing Item	Testing data	Testing item	Testing Data
SiO_2	99.80%	Hardness	7.5
Specific Gravity	2.66g/cm³	Ware rate	0.30%
Volume Weight	1.75g/cm³	Poriness	45%
The Solubility of hydrochloric acid	0.20%	Percent age of damage	0.60%
Silica sand size	0.8-3mm	Gravey size	5-30mm

QUARTZ SAND

CHEMICALS

Bactericide

Antiscalant

Flocculant

Acqualant

BIOCHEMISTRY INCUBATOR

Technical Parameters

Capacity(L)	80	100	150	200	250	300	400
Temperature Control Range	0~65℃						
Temperature Fluctuation	±1°C						
Temperature Nonuniformity Value	±2°C						
Timing Range	0~9999min/h						
Rated Power(W)	1000		1200		1400		
Refrigerant	R134a				R404a		
Power Supply	Standard: 220V, 50Hz; Optional: 110V,50Hz						
Shelves	2pcs/adjustable						
Working Time	Continuous						
Outer Size(mm)	540*580*1100	540*580*1220	590*630*1380	590 660*1530	620*700*1600	660*700*1700	720*760*1800
Chamber Size(mm)	400*370*560	400*370*680	450*420*850	450*450*1000	480*490*1070	520*500*1170	580*540*1270
Packing Size(mm)	670*710 1270	670*710*1390	720*760*1550	720*790*1700	750*830*1770	790*830*1870	850*880*1970
Gross Weight(kg)	85	90	120	138	145	157	170
Standard Accessories	Socket, Light						
Optional Accessories	USB, Print						
Remarks	*The performance parameter test is under no-load conditions, the ambient temperature is 20°C; the ambient humidity is 50%RH *Cannot be used for long-term refrigeration storage						

BOD TESTER

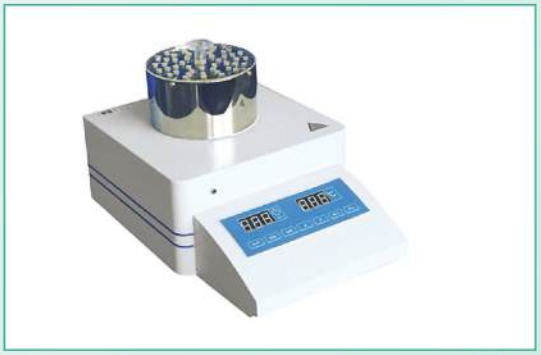
Measurement Range	0-4000mg/L (Subsection Measurement)
Measurement Error	≤ 10%
Sample Quantity	1-6
Storage Space	Test Data Of 10000 Groups
Data Record Interval	5-180 mins Adjustable
Measurement Period	1-30 Days Adjustable
Display Mode	7-Inch Full-Color LCD Touch Screen
Operation Mode	Touch Screen Full Graphic Human Computer Interaction Operation
Printer	Thermal printer
Communication Interface	Standard RS232
Power Supply	AC100~240V 50/60Hz
Package Size(L*W*H)	Main instrument:500*500*350mm; Incubation Bottle: 400*400*180mm
Package Size(L*W*H)	Main instrument: 12kg; Incubation Bottle: 10kg

COD ANALYZER

Technical Parameters

Measuring Principle		Dichromate colorimetric method
Range	COD	0.0~1500mg/L
	Electrolysis Current Divide	–
Accuracy	Basic Accuracy	±8%
	Repeatability	3%
Stability		COD data changing less than 6mg/L within 20mins
Calibration		Two-point calibration(zero and full scalecalibration)
Data Storage		200 data with time-and-date stamp
Digester COD-100R	Digestion Method	Sealing reflux method(could dispelling 21 samples simultaneously)
	Digestion Temperature	100~165℃
	Digestion Time	0~120min
Power Supply		AC110/220V±10%, 50/60Hz
Standard Accessory		COD-100R digester
Package Size(W*D*H)		COD-100: 370*305*330mm, Digester: 575*435*285mme
Gross Weight		5kg, 10kg

It is widely used in water quality monitoring in environmental protection, petroleum, chemical industries, health, etc.



BIOCHEMISTRY MULTIMETER

Technical Parameters

pH	Range	0~14 pH
TDS	Range	0~10.00, 100.0, 1000ppm, 10.00, 200.0ppt
DO	Range	0~20 ppm

GREENIFY®
ENVIRONMENTAL TECHNOLOGY LTD

OUR INTERNATIONAL PARTNER

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And many more.....

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