



SEWAGE TREATMENT EQUIPMENT

Weifang Hengyuan Environmental Water Treatment Equipment Co.,Ltd.

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对外成就客户 对内成就员工
Achievement of customers externally Achievement of employees internally

Company Profile

Weifang Hengyuan Environmental Protection Water Treatment Equipment Co., Ltd. is located in the beautiful kite capital of the world-Weifang City, is a comprehensive production-oriented high-tech enterprise integrating research and development, production and sales of water treatment equipment, disinfection equipment and ecological toilets, the company was founded in January 2011, with a standardized production workshop of more than 30,000 square meters.

The company has environmental protection engineering level 2 qualification, 7 invention patents, 36 utility model patents, 1 appearance patent, 6 software copyrights, 27 water-related approvals, 8 disinfection records and other related qualifications. We have passed ISO9001 quality system certification, ISO14001 environmental management system certification, ISO45001 occupational health and safety management system certification and after-sales service system certification and other authoritative certifications. Selected by the national environmental protection equipment manufacturing industry (sewage treatment) standard conditions of enterprises, the national water conservancy system bidding products key procurement directory enterprises, and was named a high-tech enterprises, the province specializing in new small and medium-sized enterprises, the province innovative small and medium-sized enterprises, the province "morning star factory", a enterprise a technology research and development center and other honorary titles.

The company's main products are: integrated (life, hospitals, breeding, etc.) sewage treatment equipment, air flotation machine (vortex concave, dissolved air, vertical flow, shallow), sedimentation tank (advection, vertical flow), ecological latrines, anaerobic reactor, the center of the rotating scraper, cyclone sedimentation tank sand remover, rotary mechanical grid, sludge treatment (plate and frame filter press, belt filter press, stacked screw machine), integrated water purification equipment, Filtration device (activated carbon filter, iron and manganese filter, quartz sand filter), dosing device (PAC dosing device, PAM dosing device, basic dosing device), disinfection equipment (sodium hypochlorite generator, ozone generator, electrolysis chlorine dioxide generator, chemical chlorine dioxide generator, disinfection doser, slow-release disinfectant, small hospital wastewater treatment machine, oral, outpatient) Sewage treatment equipment, high-efficiency sewage disinfection equipment), dechlorination device (chemical feeder, acid mist absorber, dechlorination device), supporting series (PLC control cabinet, chlorine leakage alarm, residual chlorine detector, microcomputer controller, metering pumps, aeration machine, turbidity meter, water jets and other equipment).

At present, the company's water treatment equipment, disinfection equipment service areas covering municipal water supply, municipal sewage treatment, medical systems, residential communities, highways, scenic spots, various types of factories (aquaculture factories, chemical factories, etc.), industrial recycling of cooling water, water reuse and so on. Eco-toilets are widely used in public places such as municipalities, scenic spots, squares, harbors and busy commercial areas. "Hengyuan Xinda" brand series of products sell well throughout the country and in Mexico, Thailand, South Korea, Namibia, Sri Lanka and other countries at home and abroad, and have been well received by customers!

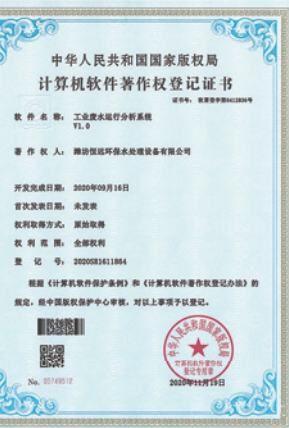
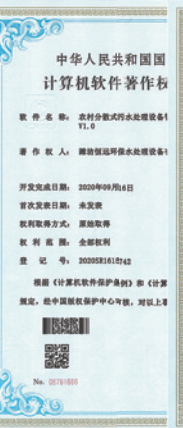
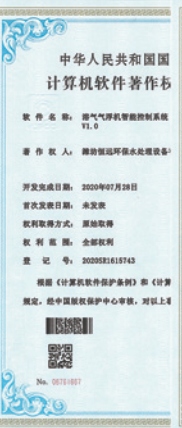
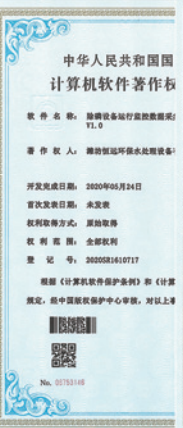
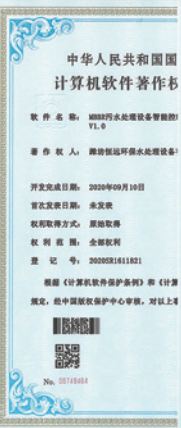
The company has strong technical force, has its own laboratory and a large number of management, scientific research and technical personnel, to provide customers with excellent pre-sales, sales and after-sales service, and according to the customer's water conditions, the design of reasonable water treatment equipment and equipped with the program, so as to achieve economic and practical, high quality and high efficiency.

Weifang Hengyuan Environmental Protection Water Treatment Equipment Co., Ltd. is committed to the water treatment industry in line with the business philosophy of "quality first, integrity-based" and the corporate purpose of "external achievement of customers, internal achievement of the staff" to build a good ecological environment to lay a solid foundation, but also the "green water" of mankind and society. Humanity and society "green water and mountains".

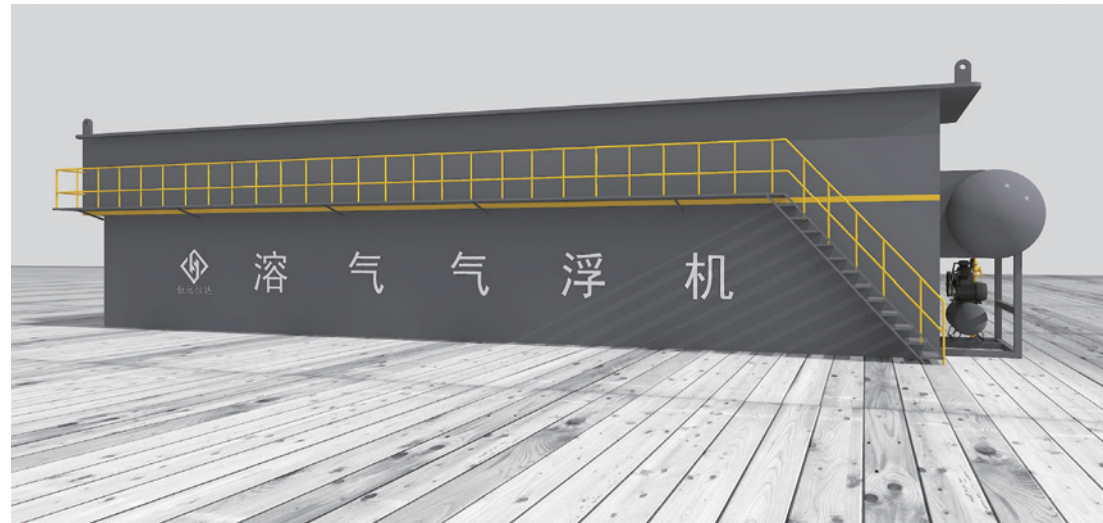
Qualifications and honors



- ★ National Environmental Protection Equipment Manufacturing Industry (Wastewater Treatment) Specification Condition Enterprises
- ★ High-tech enterprises
- ★ Province Specialized, Specialized and New Small and Medium-sized Enterprises
- ★ Provincial innovative small and medium-sized enterprises
- ★ Environmental Protection Engineering Specialized Contracting Grade II Qualification
- ★ 7 patents for inventions
- ★ 36 utility model patents
- ★ 1 Appearance Patent
- ★ 27 water-related approvals
- ★ 6 software copyrights
- ★ Sterilization filing 8 items
- ★ One enterprise, one technology R&D center
- ★ ISO9001 Quality Management System Certification
- ★ ISO14001 Environmental Management System Certification
- ★ ISO45001 Occupational Health and Safety Management System Certification
- ★ After-sales service system certification



Dissolved air flotation machine



Product Overview

- ◆ Dissolved air flotation machine in the process of sewage treatment to produce a large number of micro-fine bubbles, so that the air in the form of highly dispersed micro-bubbles attached to the suspended particles, resulting in a density of less than the state of water, the use of the principle of buoyancy to make it float on the surface of the water, so as to realize the solid-liquid separation of water treatment equipment. Currently in the water supply, industrial wastewater, breeding sewage, slaughtering wastewater, food processing, and urban wastewater treatment and other aspects are widely used.

Technical Parameters

- ◆ Air flotation equipment can be divided into: 5, 10, 20, 30, 40, 50, 60, 80, 100, 150, 200, 250, 300, 500m³/h and other specifications according to the treatment capacity, can also be designed according to user needs.

Product Features

- ◆ Stable and reliable treatment effect, high concentration of scum, low mud production, easy to dewater.
- ◆ Advanced technology, equipped with high-efficiency dissolved air system is durable and easy to use and maintain.
- ◆ Aeration to the water during air flotation has an obvious effect on removing surfactant and odor in the water, and at the same time, due to aeration, the dissolved oxygen in the water is increased, which provides favorable conditions for subsequent treatment.
- ◆ For low-temperature, low turbidity, algae-containing water sources, the use of air flotation method can achieve the best results.



Hainan Lingshui - Bullfrog Farming Sewage Treatment Project



Chenzhou, Hunan - Chemical Plant Sewage Treatment Project

Concave air flotation machine

Product Overview

- ◆ Vortex air flotation machine is an excellent sewage treatment technology, rational design, convenient operation, economic operation, it is generated by the air bubbles, directly from the wastewater to remove solid suspended solids, grease, colloidal substances and other impurities.
- ◆ Vortex aeration machine will be "micro-bubbles" directly into the sewage without prior dissolved air, and then through the diffuser impeller "micro-bubbles" evenly distributed in the sewage, so the entire operation process will not occur obstruction phenomenon.
- ◆ Vortex air flotation machine is mainly composed of box, aerator, scraping system, etc., without pressure dissolved gas, air compressor and circulating pump and other equipment. Untreated sewage firstly enters into the aeration area and mixes well with micro bubbles, which bring the solid suspended matter to the water surface in the process of rising, and the mud scraper runs along the liquid surface to scrape the suspended matter to the tilted metal plate, and then pushes it into the sludge discharge pipe chute, which flows into the sludge collector through the sludge discharge pipe chute.
- ◆ The purified wastewater passes through an overflow tank below the inclined plate before discharge. The overflow tank is used to control the water level in the air floatation tank to ensure that the liquid in the tank does not flow into the sludge discharge pipe, and the open throat flow pipe extends from the aeration section along the bottom of the air floatation tank. While generating micro-bubbles, the swirl aerator creates a negative pressure zone at the bottom of the tank with the return pipe. This negative pressure effect causes the wastewater to flow from the bottom of the tank back into the aeration zone and then back into the air flotation section. This process ensures that the air flotation continues without an incoming flow.



Product Features

- ◆ This equipment is best adapted to the pre-treatment of all kinds of sewage and as the first air flotation stage of multi-stage air flotation treatment of sewage. It has obvious effect on removing fat and solid suspended matter, and has the ability to remove grease and sludge at the same time, which is an indispensable key equipment in sewage treatment engineering.
- ◆ Highly adaptable to changes in water quantity and quality.
- ◆ Investment saving: advanced treatment technology, high treatment efficiency, good quality of effluent water. The air flotation equipment does not need pressure vessels, air compressors, circulating pumps and jets.
- ◆ Affordable: the air flotation equipment for the integration of skid-mounted equipment, installation is relatively simple, with the supporting civil engineering less, the equipment can be installed on the ground, underground or high places.
- ◆ Low operating costs: the air flotation equipment requires less power, simple operation and maintenance, without more labor.
- ◆ Good effect: This air flotation equipment can remove sludge from wastewater automatically and continuously with low sludge water content, which reduces the sludge treatment cost.

Vertical flow air flotation machine



Product Overview

- ◆ Air flotation contact system air flotation tank body for the round steel structure, is the main body and core of the air flotation machine, the internal by the releaser, homogenizer, sewage pipe, water pipe, river mud tank, scraping board system and so on. The releaser is placed in the central position of the air flotation bubble body, it is the key part of releasing the emblematic bubbles, the saturated dissolved gas water of the first gas tank is suddenly released to form the micro-bubbles with a diameter of about 20-80um. Equalizer to the shape of the structure, connected to the building on the release of skin, the main role is to separate the water and sludge evenly spread in the tank. The outlet pipe is distributed in the lower part of the tank and connected to the upper part of the bubble body through an upright main pipe, and the indiscriminate outlet is equipped with a water level adjusting handle, which is convenient for adjusting the water level in the tank. The sludge pipe is installed at the bottom of the tank for discharging the sediments deposited at the bottom, the upper part of the tank is equipped with a scum tank, the scum scraper rotates continuously, the lead plate continuously scrapes the scum into the scum tank, and the scum flows out of the tank, the whole air flotation system is integrated with the water intake, flocculation, separation, water collection, water discharge, and there is not a stable flow chamber or a dissolved gas release chamber in the equipment, so as to make the treatment performance more stable and the effect

more superior, and is especially suitable for the reconstruction of traditional equipments.

- ◆ Stabilization chamber: through the mixing reaction of the raw water into the air flotation tank body flow rate is very high, if direct contact with the dissolved air water will dissipate small bubbles, affecting the effect of bubble adhesion flocculation, if you add a stabilization chamber, so that the turbulent kinetic energy of the raw water to consume the water at a uniform speed into the dissolved air water release chamber, thus ensuring that the dissolved air water is fully mixed with sewage in contact.
- ◆ Dissolved air release chamber: The dissolved air release chamber and separation chamber are in one tank, separated in the middle. Dissolved air water and flocculated sewage adheres here, slowly rises and enters into the air flotation separation chamber, which ensures the contact space and time between flocculated body and tiny bubbles and improves the efficiency of dissolved air water release.

Product Features

- ◆ Large treatment capacity, high efficiency, small area, and can eliminate sludge expansion. The process and equipment are simple and easy to use and maintain.
- ◆ Compared with other air flotation methods, it has the advantages of high water loading and compactness.
- ◆ It is possible to remove the SS that can float and sink the SS with high density.
- ◆ Air flotation has the role of oxygenation to the water, the removal of surfactants and odor in the water has an obvious effect, due to the increase in the dissolved oxygen in the water, reducing some of the insoluble COD, for the subsequent treatment to provide favorable conditions.



Shallow air flotation machine



Product Overview

- ◆ High-efficiency shallow air flotation machine is the use of small bubbles or tiny bubbles to make the impurities in the medium float out of the water surface machine. In the water supply and drainage treatment process program, solid and liquid separation technology and its equipment is one of the key processes. For the specific gravity close to the water of the tiny suspended particles to go, air flotation is the most effective method. This equipment is designed by successfully applying "shallow pool theory" and "zero speed" principle, and it integrates flocculation, air flotation, slag skimming, sedimentation and mud scraping, which is a kind of high-efficiency and energy-saving water purification equipment and is widely used in water supply and drainage treatment projects.
- ◆ The main structure of the shallow air flotation machine: the main machine of the high-efficiency shallow air flotation equipment refers to the separation part of the air flotation equipment, which includes: the pool body, the scum collection device, the overflow adjustment device, the rotating water inlet and water distribution mechanism.

Equipment Principle

- ◆ The use of zero-speed principle - water from the center of the pool into the water, water pipe clockwise rotation, the water from the pipe reverse spray; water relative to the pool wall speed close to zero speed, no stirring of the water in the pool, so that the particles in the water in the static upward or settlement, high degree of purification, the removal rate of suspended solids up to 90% or more.
- ◆ Utilizing the shallow pool theory - the water depth is typically 600-700mm - the uplift path is short, low resistance and fast.
- ◆ Utilizing the theory of dissolved air - the use of higher pressure dissolved air tube, unit dissolved air efficiency is high, up to 90%, air flotation effect is good.

Product Features

- ◆ Water velocity is low a water relative to the pool wall speed is close to zero speed, no stirring of the water in the pool, so that the particles in the water in the static floating or settling, high degree of purification, suspended solids removal rate of 91% or more.
- ◆ Dissolved gas utilization rate is high one by one using higher pressure dissolved gas tube, unit dissolved gas rate up to 90%, air flotation effect is good.
- ◆ Floating without interference a water depth is generally 650mm: floating path is short, low resistance, fast speed. Reasonable slag removal hopper-spiral slag hopper slag removal stirring is small, the effect is good.

Scope of Application

- ◆ With advanced design and excellent performance, this equipment is widely used in the sewage treatment system of petroleum, chemical, iron and steel, tannery, electric power, textile, food, brewing, municipal and other industries, and is an alternative to the traditional air flotation equipment.



Inner Mongolia Chifeng Enterprise Sewage Treatment Project



Anhui Yuexi Sewage Treatment Plant Project



Wuhan, Hubei 500 tons/day sewage treatment project



Anhui Langxi 500 mt/d domestic wastewater treatment project



Wastewater Treatment Plant Project in Lanzhou New Immigrant Area



Jiangxi Jiujiang Enterprise Sewage Treatment Project



Shaanxi Baoji Expressway Service Area Sewage Treatment Project



Tibet Mountaineering Training Camp Domestic Sewage Treatment Project



Hubei Enshi New Rural Sewage Treatment Project



Shaanxi oil depot domestic wastewater treatment project



Shandong Zibo cattle farm sewage treatment project



Hebei Shijiazhuang Photovoltaic Power Station Sewage Treatment Project



Shanxi Jincheng Wastewater Treatment Plant Project



Hubei Yichang Slaughterhouse Wastewater Project



Liaoning Fushun 720-ton water plant project



Hubei Huangshi 4800 square meters water purification project



Wastewater Treatment Plant Project in Nomohon Farm, Qinghai Province



Anhui Hefei New Rural Solar Sewage Treatment Project



Wuhan 6000 square meters river water purification project



Jiangsu Nantong 5500 square meters water purification project



Shandong Heze School Sewage Treatment Project



Xinjiang Yili Hospital Sewage Treatment Project



Shanxi Taiyuan 3200 square meters water purification project



Henan Xuchang River Water Purification Project



Choose our partners

Hengyuan Environmental Protection provides enterprises with water treatment process design, R&D and manufacturing of intelligent water treatment equipment, intelligent operation of sewage treatment stations, and implementation of the overall program of water treatment projects.

Customers cover medical, energy, manufacturing, government and other fields. The implementation of specialized service processes has won us the trust of many customers and established long-term relationships!

Those who wish the same thing work together, and those who are of one mind walk together.