



MBBR 一体化污水处理设备

MBBR INTEGRATED SEWAGE TREATMENT EQUIPMENT

产品目录 PRODUCT CATALOG



青岛颐华环保有限公司
QINGDAO YIHUA ENVIRONMENTAL PROTECTION CO., LTD

MBBR 一体化污水处理设备

MBBR integrated sewage treatment equipment

产品简介 PRODUCT BRIEF INTRODUCTION >>>



在总结国内外生活污水处理装置的运行经验的基础上，结合我公司自己的科研成果和工程实践，设计出一种可地埋（地上）的成套有机废水处理装置，即以碳钢防腐为主要原料的污水处理设备。其目的主要是使生活污水和与之类似的工业有机废水经该设备处理后达到用户要求的排放标准。该设备主要用于居住小区(含别墅小区)、高级宾馆、医院、综合办公楼和各类公共建筑的生活污水处理，经该设备处理的出水水质，达到国家排放标准。

本公司一体化污水处理设备采用国际先进的生物处理工艺，设备内部投加MBBR污水处理生物悬浮填料，集去除 BOD5、COD、NH3-N 于一身，具有技术性能稳定可靠，处理效果好，投资省，占地少，维护方便等优点。我公司也可根据客户要求同时配套中水回用设备。

On the basis of summarizing the operating experience of domestic and foreign sewage treatment equipment, combined with our own scientific research results and engineering practice, we designed a complete set of organic wastewater treatment equipment that can be buried (above ground), that is, sewage treatment equipment with carbon steel corrosion prevention as the main raw material. Its purpose is mainly to make domestic sewage and similar industrial organic wastewater after treatment by the equipment to meet the discharge standards required by users. The equipment is mainly used for the treatment of domestic sewage in residential areas (including villa areas), senior hotels, hospitals, comprehensive office buildings and various public buildings. The effluent quality treated by the equipment meets the national discharge standards.

The company's integrated sewage treatment equipment adopts international advanced biological treatment technology, adding MBBR sewage treatment biological suspension filler inside the equipment, set to remove BOD5, COD, NH3-N in one, with stable and reliable technical performance, good treatment effect, investment, less land, easy maintenance and other advantages. Our company can also support water reuse equipment according to customer requirements.

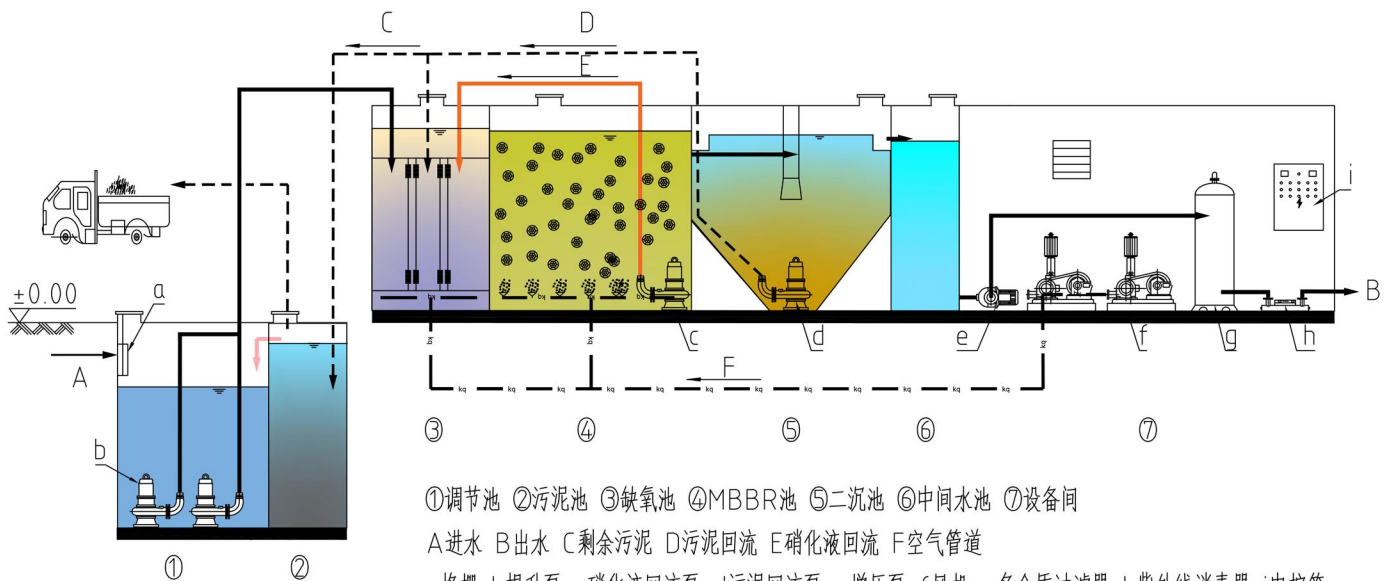
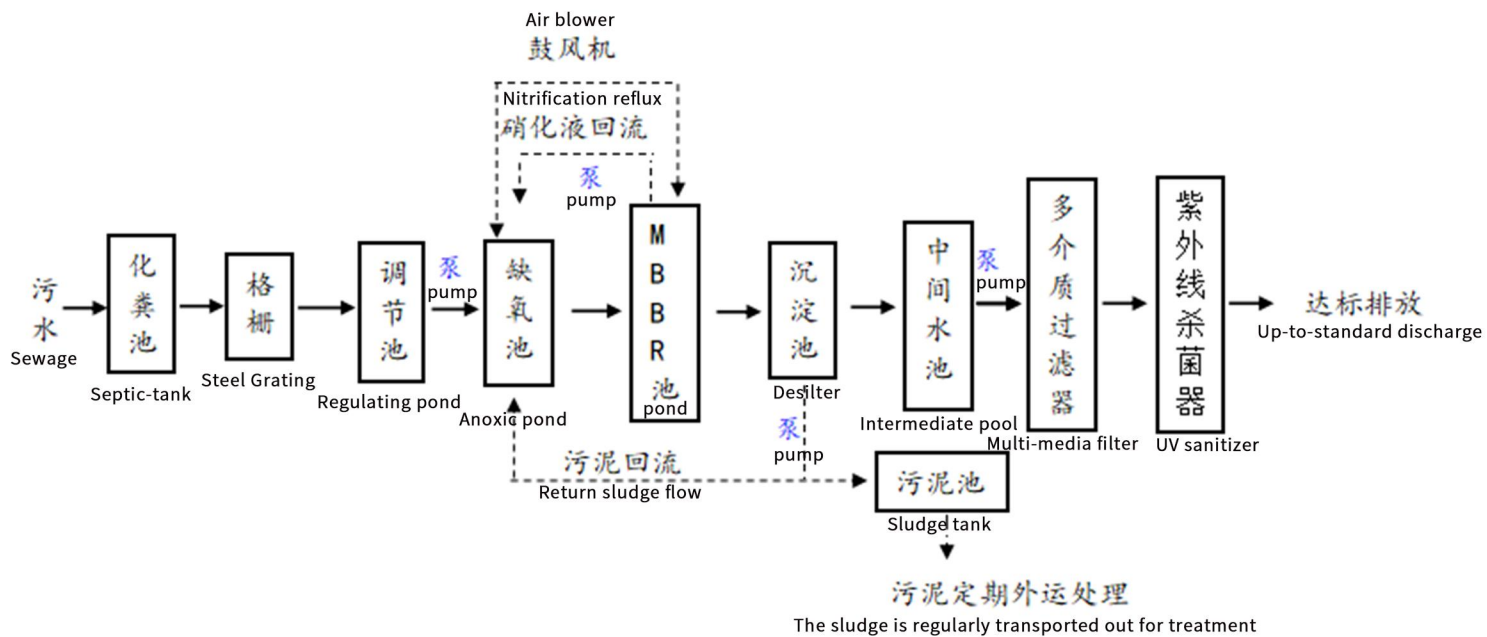
应用领域 APPLICATION AREA >>>

设备主要适用于住宅小区、村庄、村镇、办公楼、商场、宾馆、饭店、疗养院、机关、学校、部队、医院、高速公路、铁路、工厂、矿山、旅游景区等行业的生活污水和类似的工业废水。

The equipment is mainly used in residential areas, villages, towns, office buildings, shopping malls, hotels, restaurants, sanatoriums, organs, schools, troops, hospitals, highways, railways, factories, mines, tourist attractions and other industries of domestic sewage and similar industrial wastewater.



工艺流程 TECHNOLOGICAL PROCESS >>>



①调节池 ②污泥池 ③缺氧池 ④MBBR池 ⑤二沉池 ⑥中间水池 ⑦设备间

A进水 B出水 C剩余污泥 D污泥回流 E硝化液回流 F空气管道

a格栅 b提升泵 c硝化液回流泵 d污泥回流泵 e增压泵 f风机 g多介质过滤器 h紫外线消毒器 i电控箱

①Regulating reservoir ②Sludge-tank ③Anoxic pond ④MBBR pond

⑤Secondary sedimentation tank ⑥Intermediate pool ⑦ER (equipment room)

工艺流程图

A.Inflow B.Outflow C.Surplus sludge D.Return sludge flow E.Nitrification reflux F.Air line

a.Grating b.Elevator pump c.Nitrification reflux d.Return sludge pump e.Booster pump

f.fan g.Multi-media filter h.Ultraviolet sanitizer i.Electrical control box

废水经过化粪池沉淀去除大型污染物后，经格栅过滤后的废水进入调节池，用于调节来水水质水量，起缓冲均质的作用，防止来水的水质水量对后续处理单元的冲击。然后进入缺氧池，缺氧池利用微生物的降解能力将污水中较难分解的有机高分子污染物分解成较易分解的有机低分子污染物。同时进水与回流的水混合具有反硝化作用，具有脱氮功能。缺氧池出水进入好氧池，在好氧系统中设有MBBR高效填料，通过微孔曝气器曝气充氧培养微生物，废水与长满生物膜的填料相接触，大部分微生物以生物膜的形式固定在填料上，部分悬浮生长在水中；在曝气冲刷作用下，老的生物膜不断脱落，新的生物膜不断生长，促进生物膜的新陈代谢。填料上的有机物以废水中的有机物为食物，分解为CO₂和H₂O，从而降低了废水中的有机物浓度，使废水得到净化。好氧池的出水直接进入沉淀池进行静置沉淀，进一步去除废水中的悬浮物。沉淀池出水进入中间水池，通过泵打入多介质过滤器中，在这里水中颗粒被过滤器拦截和吸附，从而达到水质净化的目的。过滤器出水通过紫外线杀菌器消毒后达标排放。

After the wastewater is precipitated by the septic tank to remove large pollutants, the wastewater filtered by the grid enters the regulating tank to adjust the incoming water quality and quantity, play a role in buffering the homogenization, and prevent the impact of the incoming water quality and quantity on the subsequent treatment unit. Then it enters the anoxic pool, which uses the degradation ability of microorganisms to decompose organic polymer pollutants that are difficult to decompose into organic low molecular pollutants that are easier to decompose. At the same time, the mixing of inlet water and reflux water has the denitrification effect and the nitrogen removal function. The effluent from the anoxic tank enters the aerobic tank, and the high efficiency MBBR filler is provided in the aerobic system, and the microorganisms are aerated and oxygenated through the microporous aerator. The wastewater is in contact with the biofilm filled filler, most of the microorganisms are fixed on the filler in the form of biofilm, and some of them are suspended in the water. Under the action of aeration erosion, the old biofilm continues to fall off, and the new biofilm continues to grow, which promotes the metabolism of biofilm. The organic matter on the filler takes the organic matter in the wastewater as food and decomposes into CO₂ and H₂O, thus reducing the concentration of organic matter in the wastewater and purifying the wastewater. The effluent from the aerobic tank goes directly into the sedimentation tank for static precipitation to further remove the suspended matter in the wastewater. The effluent from the sedimentation tank enters the intermediate pool and is pumped into the multi-media filter, where the particles in the water are intercepted and adsorbed by the filter, so as to achieve the purpose of water purification. Filter water is disinfected by ultraviolet sterilizer and discharged according to standard.

产品特点 PRODUCT FEATURE >>>

1. 全套设备可埋设于地面以下或放置地上;
2. 对周围环境无影响;
3. 全自动控制, 不需专职人员管理;
4. 操作简单、维修方便;
5. 运行经济、抗冲击能力强、处理工艺稳定可靠、处理效果好;
6. 箱体防腐处理, 使用寿命长。

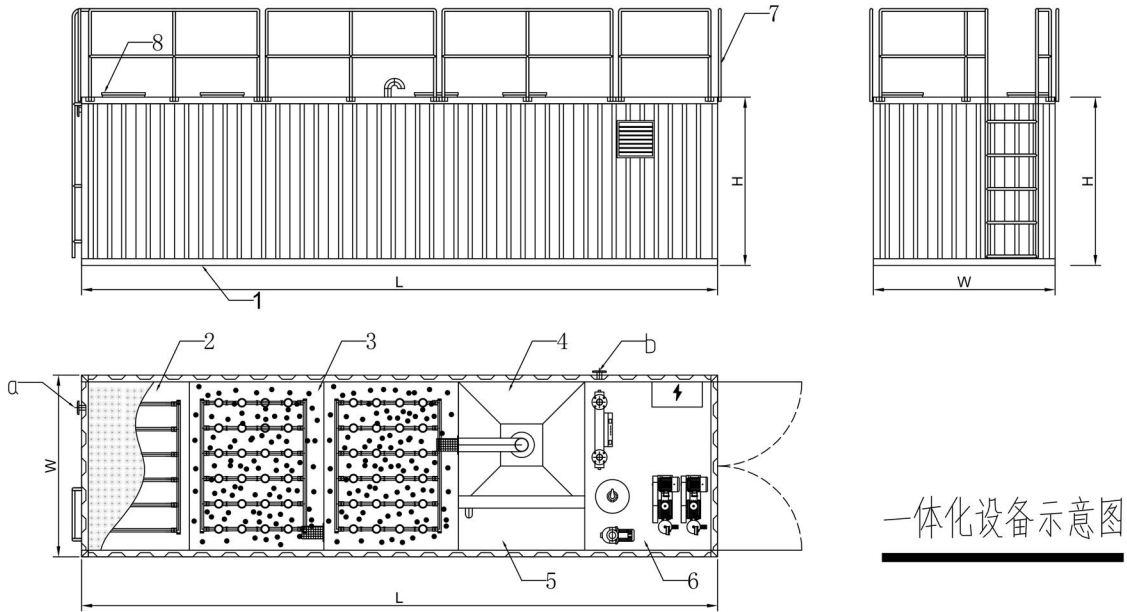
1. The whole set of equipment can be buried below the ground or placed on the ground;
- 2, No impact on the surrounding environment;
- 3, Automatic control, do not need full-time personnel management;
- 4, Simple operation, easy maintenance;
- 5, Economic operation, strong impact resistance, stable and reliable processing process, good treatment effect;
- 6, Box anti-corrosion treatment, long service life.



主要参数 MAJOR PARAMETER >>>

序号	型号	处理量 m ³ /d	尺寸规格m			装机功 率KW	设备进 水DN	设备出 水DN	设备重 量T	占地面 积m ²
	Model		L	W	H					
1	YHWS-10	10	3.8	1.5	2	2.5	50	50	2.5	5.7
2	YHWS-25	25	5.6	2	2	3.5	80	80	3.8	11.2
3	YHWS-50	50	7.4	2	2.5	4.6	80	80	6.3	14.8
4	YHWS-75	75	11.5	2	2.5	6.1	80	80	7.8	23
5	YHWS-100	100	13.7	2	2.5	6.9	100	100	10.9	27.4
6	YHWS-150	150	13.4	3	3	7.7	100	100	15.1	40.2
7	YHWS-200	200	17.2	3	3	13.5	100	100	18	51.6
8	YHWS-300	300	27.4	3	3.2	16.5	150	150	26.5	82.2
9	YHWS-500	500	41.5	3	3.2	25.2	200	200	37.9	124.5
10	YHWS-1000	1000	69	3	3.5	38.7	250	250	66.2	207

外形图 OUTSIDE VIEW >>>





一体化设备示意图

1、一体化设备本体 2、缺氧池、3、MBBR池 4、二沉池 5、中间水池 6、设备间 7、设备护栏 8、人孔
a、进水口 b、出水口

1.Integrated device ontology 2.Anoxic pond 3.Mbbr pool 4.Secondary sedimentation tank
5.Intermediate pool 6.ER (equipment room) 7.Equipment fence 8.Inspection hole (manhole)
a.Water inlet b.Water outlet

耗材表 CONSUMABLE LIST >>>

配件名称 Parts Name	配件图片 Accessories Pictures	备注 Remarks
石英砂 Quartz sand		按照客户要求可自行选配 Optional according to customer requirements
紫外线灯管 UV light tube		按照客户要求可自行选配 Optional according to customer requirements

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