

QXB 型离心式潜水曝气机/FQXB 浮筒式潜水离心曝气机

QXB centrifugal diving aerator/FQXB Floating centrifugal diving aerator

用途:Application

QXB 型离心式潜水曝气机用于污水处理厂曝气池、曝气沉砂池,对污水污泥的混合液进行充氧及混合,以及对污水进行生化处理或养殖塘增氧。

QXB centrifugal submersible aerator is used in aeration tanks and aeration grit chambers of sewage treatment plants, oxygenating and mixing the mixture of sewage and sludge, and biochemical treatment of sewage or oxygenation of breeding ponds.

FQXB 浮筒式潜水离心曝气机 FQXB Floating centrifugal diving aerator

FQXB 浮筒式潜水离心曝气机是在潜水离心曝气机的基础上进行改制,增加玻璃钢浮筒,具体选型按照 QXB 型浮筒式潜水离心曝气机实行

The FQXB buoyant submersible centrifugal aerator is restructured on the basis of the submersible centrifugal aerator, adding a glass fiber reinforced plastic buoy.

原理:Principle

QXB 型离心式潜水曝气机为直联式结构.旋转的叶轮在水中产生一个离心力,通过离心力在叶轮周围形成一个负压区,空气通过进气管被吸入,被吸入的空气和水在混合盘内混合,随后这种良好的均匀的混合物自动从排出口排出。

此过程包括以下几个方面:混合盘中的空气与水混合产生气液混合效应,出口排出的气液混合液形成循环和对流;大量空气分子中的氧气高速运动获得一个极高的氧气吸收效率。

The QXB centrifugal submersible aerator is a direct-connected structure. The rotating impeller generates a centrifugal force in the water, and a negative pressure area is formed around the impeller through the centrifugal force. The air is sucked in through the air intake pipe, and the sucked air and water are in the mixing disc

Internal mixing, then this good homogeneous mixture is automatically discharged from the discharge port.

This process includes the following aspects: the air in the mixing disc is mixed with water to produce a gas-liquid mixing effect, and the gas-liquid mixture discharged from the outlet forms circulation and convection; the high-speed movement of oxygen in a large number of air molecules obtains a very high oxygen absorption efficiency .

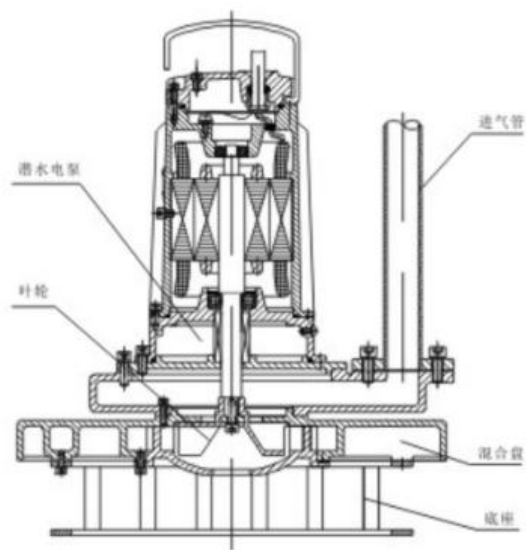
特点:Characteristic

- 1、较高的氧气溶解率,微小气泡所占比率大,充氧效率高且充氧面积宽;
- 2、池中无死区,夹带气泡的水平曝气流能完全冲刷池底的每个角落;
- 3、结构简单、紧凑、机组寿命长,能承受大负荷的轴承,采用油浴的转轴密封和吸入叶轮腔的空气防止工作时水与密封件接触,这些都保证曝气机在 24 小时连续工作,长期无故障运行;

1. High oxygen dissolution rate, large proportion of small bubbles, high oxygenation efficiency and wide oxygenation area.

2. There is no dead zone in the pool, and the horizontal aeration air with air bubbles can completely wash every corner of the pool bottom.

3. Simple and compact structure, long service life of the unit, bearings that can withstand heavy loads, the shaft seal of the oil bath and the air sucked into the impeller cavity to prevent water from contacting the seal during operation, all of which ensure that the aerator can work continuously for 24 hours , Long-term trouble-free operation.



型号表示方法:Model of Model Denotation

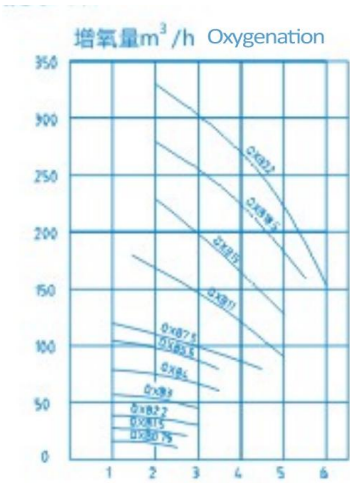


QXB centrifugal diving aerator Living Photo

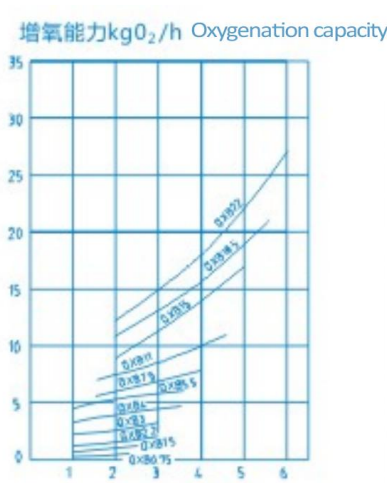
性能参数:Technical Parameters

型号	QXB0.75	QXB1.5	QXB2.2	QXB3	QXB4	QXB5.5	QXB7.5	QXB11	QXB15	QXB18.5	QXB22
功率kW	0.75	1.5	2.2	3	4	5.5	7.5	11	15	18.5	22
电流 A	2.4	4	5.8	7.8	9.8	12.4	17	24	32	39	45
电压 V	380										
转速 r/min	1470										
频率 Hz	50										
绝缘等级	F 级										
更大潜入 深度 m	2	2.5	3	3.5	4	6	6	6	6	6	6
进气量 m3/h	10	22	35	50	75	85	100	160	200	260	320
标准状态 下清水的 充气量 kgO2/h	0.37	1	1.8	2.75	3.8	5.3	8.2	13	17	19	24
服务直径M	2.9	4	5.3	6.3	7.2	8.6	10.6	11.8	12.8	13.5	15

TYPE	QXBL0.75	QXBL1.5	QXBL2.2	QXBL3	QXBL4	QXBL5.5	QXBL7.5	QXBL11	QXBL15	QXBL18.5	QXBL22
Power KW	0.75	1.5	2.2	3.0	4.0	5.5	7.5	11	15	18.5	22
Current A	2.4	4	5.8	7.0	8.8	12	17	24	32	39	45
Voltage V	380/400/415										
Speed rpm	1470										
Frequency Hz	50/60										
Insulation garde	F										
Immersion depth m	2	3	3	3.5	4	4	5	5	6	5.5	6
Air input m3/h	10	22	35	50	75	85	100	160	200	260	320
Aeration area kgO ₂ /h	0.37	1	1.8	2.75	3.8	5.3	8.2	13	17	19	24



潜水深度m diving depth

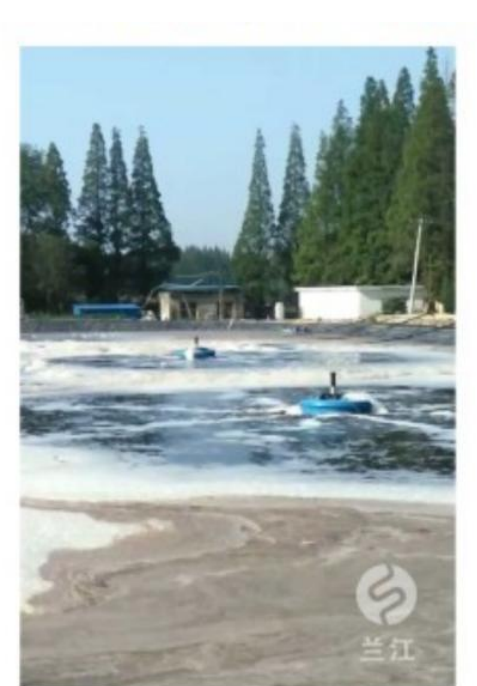
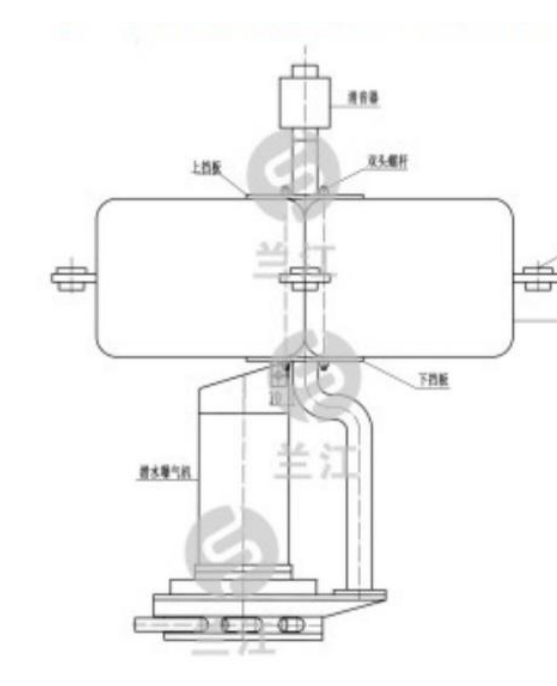


潜水深度m diving depth



QXB 型离心式潜水曝气机外型尺寸 Dimensions of QXB centrifugal submersible aerator

型号	QXB1.5	QXB2.2	QXB3	QXB4	QXB5.5	QXB7.5	QXB11	QXB15	QXB18.5	QXB22
H	630	630	630	655	815	815	1045	1045	1100	1100
B	560	560	560	620	780	780	870	870	1050	1050
DN	32	50	50	50	50	50	100	100	125	125



centrifugal submersible aerator Structure Living Installation Photo

FQXB 型浮筒式潜水离心曝气机

FQXB Floating centrifugal diving aerator

- 1、浮动定位, 安装方便, 可在不中断工艺运行的状态下自由布置和移动;
 - 2、设计结构紧凑, 利用自吸功能无需外接气源, 气泡均匀;
 - 3、主机水下作业, 不受水位变化影响曝气, 无地面设备, 噪音小;
 - 4、可直接在氧化塘、河道、养鱼池等大面积水域中使用, 省基建;
1. Floating positioning, easy installation, can be freely arranged and moved without interrupting the process operation;

2. The design is compact, the use of self-priming function does not require an external air source, and the bubbles are uniform;
3. The main engine operates underwater, is not affected by the change of water level and aeration, has no ground equipment, and has low noise;
4. It can be directly used in large areas of water such as oxidation ponds, rivers, fish ponds, etc., provincial infrastructure;

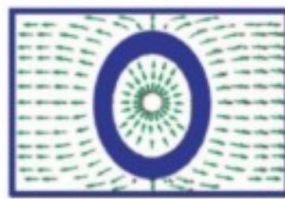
推荐使用池型 Recommended pool type



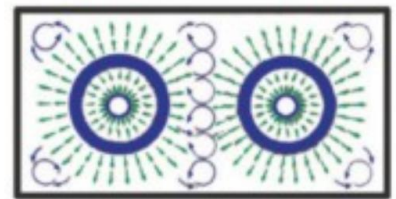
Round



Square



Rectangle(length:width $\leq$ 1.5:1)



Rectangle(length:width=2:1)