# QXB 系列潜水离心式曝气机

QXB SERIES CENTRIFUGAL TYPE SUBMERSIBLE AERATOR

## 型号表示 Model Denotation

QXB □ – □

- 进气口径(mm) Diameter of air inlet(mm)
- 电机功率(kW) Motor power (kW)
- 潜水离心式曝气机 Centrifugal type submersible aerator

## 结构特点 Structural Characteristics

1、自重定位，安装方便，可在不中断工艺运行的状态下自由布置；

2、设计结构紧凑，利用自吸功能无需外接气源；

3、主机潜水作业减少占地面积，噪音小；

4、可直接在氧化塘中使用，节省基建成本；

5、独立移动的曝气装置，曝气时兼有搅拌功能；

6、底盘可根据用户要求作特殊设计；

1、Positioning is made with its own weight to facilitate convenient installation;and free arrangemeng can be made without interrupting the technological operations.

2、The designed structure is compact;and use is made of its self–suction function with no need to connect any extemal air sources.

3、The main equipment operates under the water surface,leading to the reduction the occupied land and low noise.

4、The equipmeng can be directly used in the oxidation to pone for saving the building cost .

5、The aerating equipmeng of the mobile type can also be used as a mixer.

6、The base can be specifically designed in accordance with the demand of the userls.

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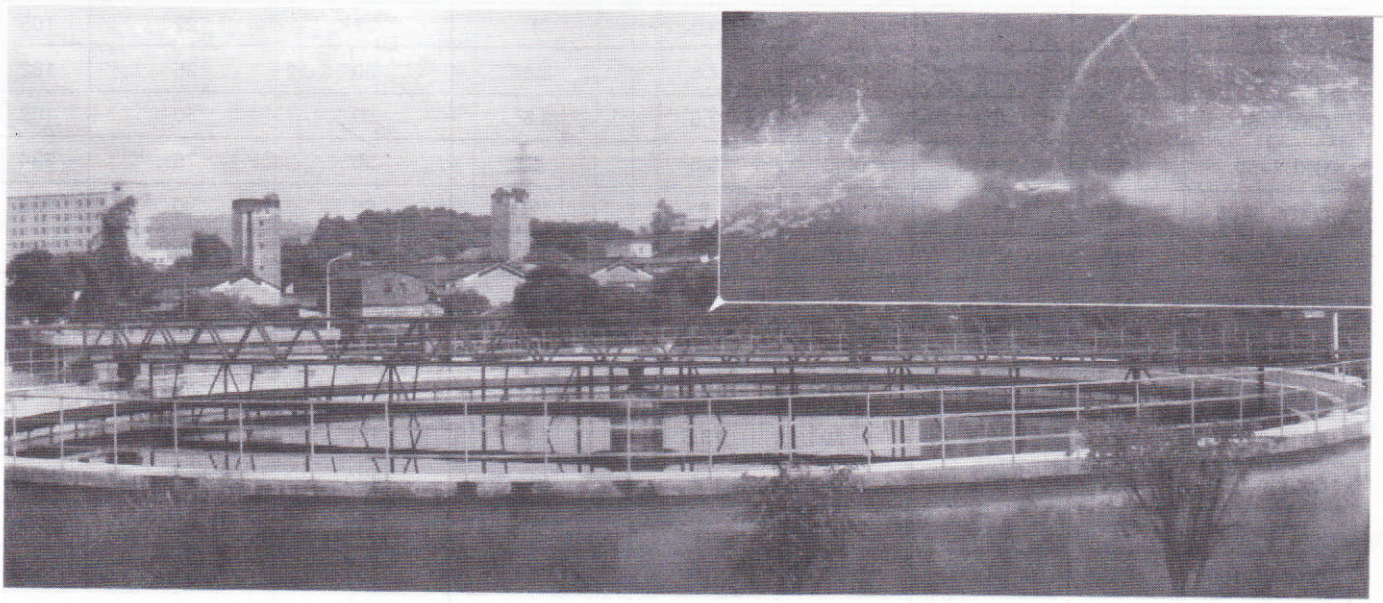

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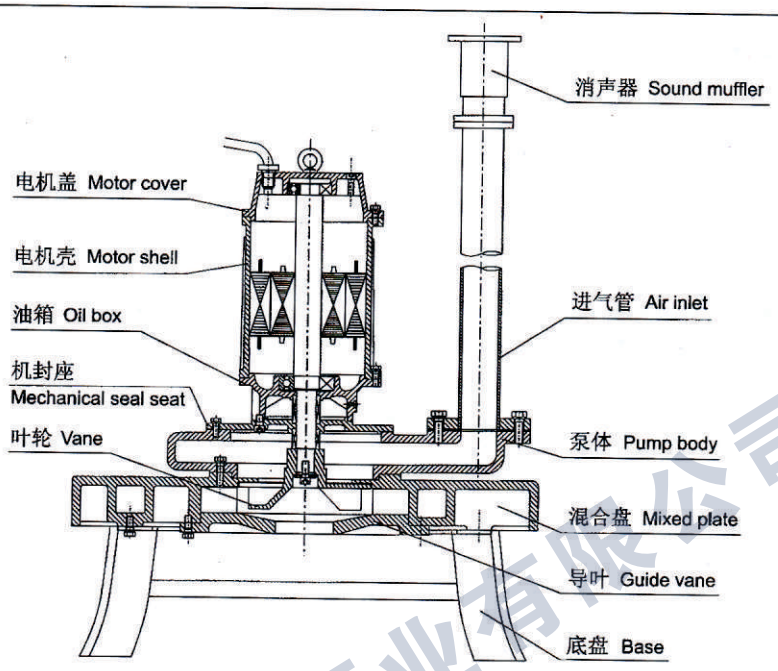
## 结构图 Structural Drawing




## 性能参数 Performance Parameters

| 型号 Model | 功率 Power (kw) | 额定电流 Rated current (A) | 叶轮转速 Vane RPM (r/min) | 服务范围 Service scope ϕ(m) | 最大潜水深度 Maximum depth of submersion (m) | 空气吸入管径 Diameter of air-sucking tube (mm) | 进气量 Maximum volume of air intake ($m^3$/h) | 重量 Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| QXB0.75-32 | 0.75 | 2 | 1390 | 2.8 | 2 | 32 | 10 | 62 |
| QXB1.5-32 | 1.5 | 3.7 | 1400 | 3.5 | 3 | 32 | 22 | 105 |
| QXB2.2-50 | 2.2 | 4.9 | 1430 | 4.8 | 3.5 | 50 | 35 | 182 |
| QXB3-50 | 3 | 6.8 | 1430 | 5.5 | 3.5 | 50 | 50 | 198 |
| QXB4-50 | 4 | 9 | 1440 | 6.5 | 4 | 50 | 75 | 234 |
| QXB5.5-65 | 5.5 | 11 | 1440 | 8 | 4 | 65 | 90 | 298 |
| QXB7.5-80 | 7.5 | 15 | 1440 | 10 | 4.5 | 80 | 100 | 318 |
| QXB11-80 | 11 | 22.6 | 1460 | 11 | 4.6 | 80 | 160 | 382 |
| QXB15-100 | 15 | 30.3 | 1460 | 12 | 4.8 | 100 | 200 | 413 |
| QXB18.5-100 | 18.5 | 36 | 1470 | 12.5 | 5 | 100 | 260 | 476 |
| QXB22-100 | 22 | 43.2 | 1470 | 13.5 | 5.5 | 100 | 320 | 495 |
| QXB30-150 | 30 | 56.8 | 1470 | 16 | 6 | 150 | 385 | 1200 |
| QXB37-150 | 37 | 69.8 | 1480 | 16 | 6 | 150 | 450 | 1296 |
| QXB45-150 | 45 | 84.2 | 1480 | 16 | 6 | 150 | 520 | 1380 |
| QXB55-150 | 55 | 103 | 1480 | 16 | 6 | 150 | 630 | 1430 |

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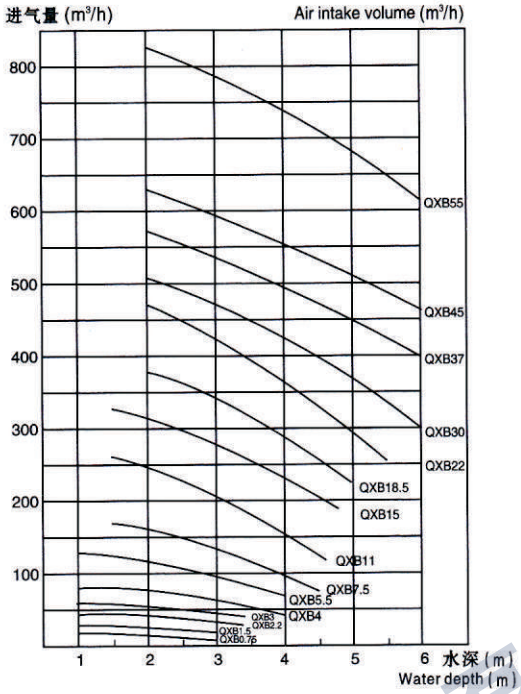
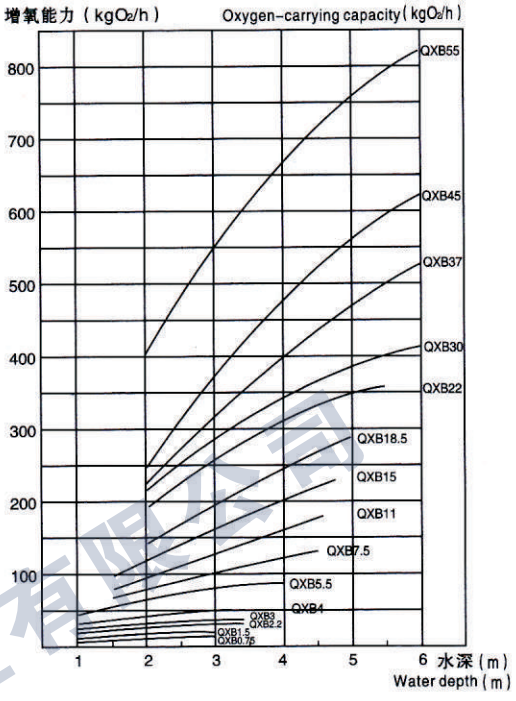
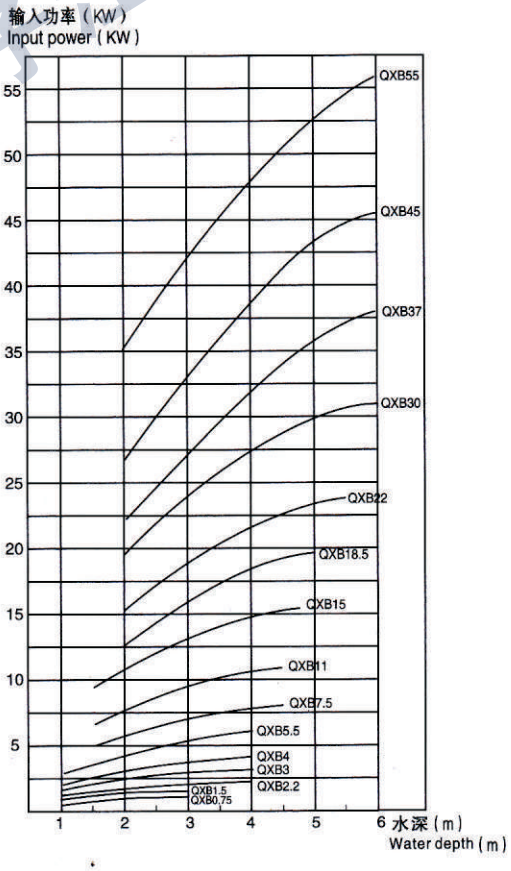
## 性能曲线 Performance Curves

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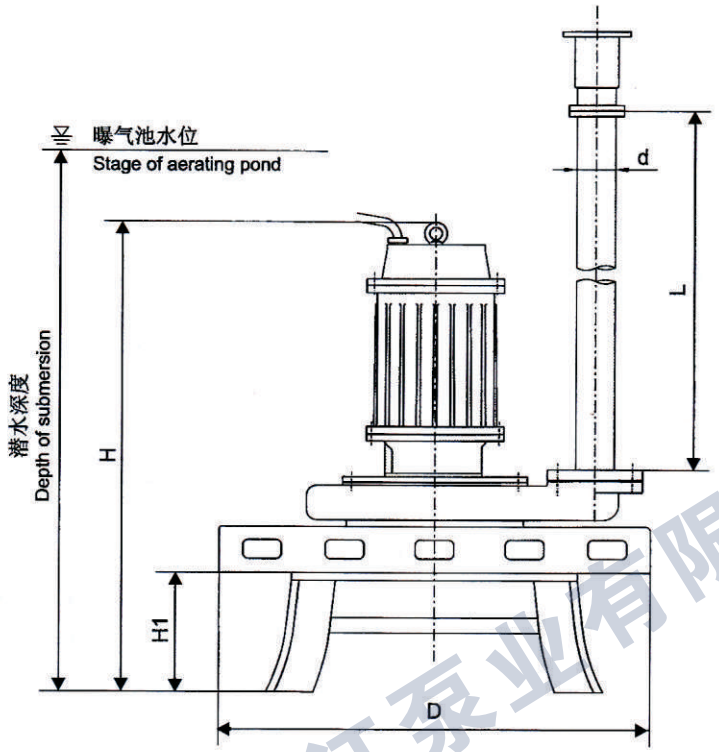
# QXB 系列潜水离心式曝气机

QXB SERIES CENTRIFUGAL TYEE SUBMERSIBLE AERATOR

## 外形及尺寸 Outside Appearance And Dimensions




| 型号 Model | 外型尺寸 Outside Dimension（mm） | | | | |
|---|---|---|---|---|---|
| | H1 | L | D | d | H |
| QXB0.75-32 | 200 | 2000 | 480 | 32 | 600 |
| QXB1.5-32 | 200 | 3000 | 600 | 32 | 630 |
| QXB2.2-50 | 250 | 3300 | 710 | 50 | 680 |
| QXB3-50 | 250 | 3300 | 710 | 50 | 720 |
| QXB4-50 | 250 | 3800 | 710 | 50 | 810 |
| QXB5.5-65 | 300 | 3800 | 830 | 65 | 980 |
| QXB7.5-80 | 300 | 4300 | 830 | 80 | 980 |
| QXB11-80 | 350 | 5000 | 1020 | 80 | 1000 |
| QXB15-100 | 350 | 5000 | 1020 | 100 | 1000 |
| QXB18.5-100 | 400 | 5500 | 1020 | 100 | 1050 |
| QXB22-100 | 400 | 6000 | 1020 | 100 | 1050 |
| QXB30-150 | 450 | 6000 | 1150 | 150 | 1100 |
| QXB37-150 | 450 | 6000 | 1150 | 150 | 1100 |
| QXB45-150 | 450 | 6500 | 1150 | 150 | 1150 |
| QXB55-150 | 450 | 6500 | 1150 | 150 | 1150 |

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# QXB 系列潜水离心式曝气机

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## 选型需提供的数据资料 Data Required for Model Seletiom

1、需氧量（$kgO_2/h$）；

2、曝气池形状、尺寸及水深（m）

3、曝气池水质状况（如温度、BOD5、COD）等）。

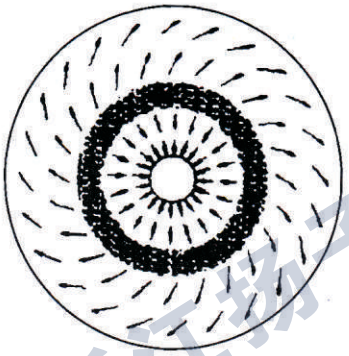
1、Oxygen demand ($KgO_2/h$)

2、Shape，dimensions and water depth（m）of the aeration pond.

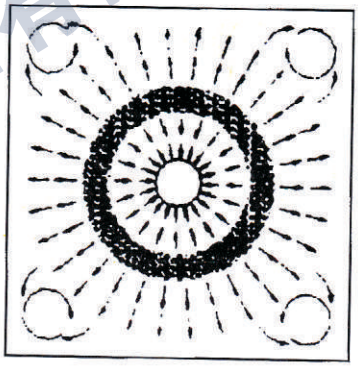
3、Water quality Conditions of the aeration pond（e.g.,temperature,BOD5,COD,etc.)

## 推荐布置选型 Recommended Arrangement for Model Seletion

圆形池 Circular pond

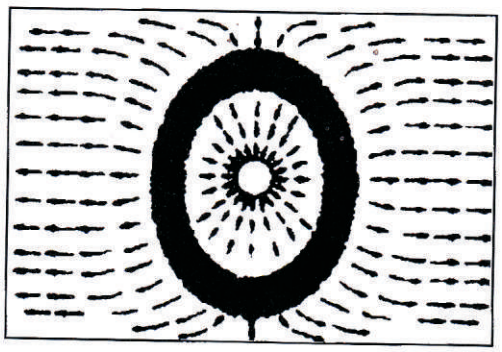


方形池 Square pond



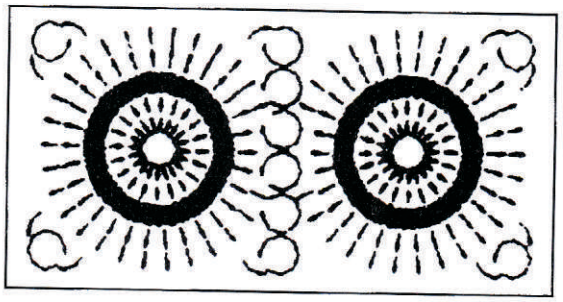
长方形池（长：宽＜1.5:1＞）

Rectangular pond（length:width＜1.5：1）



长方形池（长：宽＜2:1＞）

Rectangular pond（length:width＜2：1）



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