



低速推流潜水搅拌机

Low speed push flow submersible mixer



概述 Summary

低速推流潜水搅拌机,在水处理工艺流程中,广泛应用于氧化沟推流,各类生化池的搅拌,同时也可用于河流防冻,景观水循环等。

Low speed push flow submersible mixer extensively used for the oxidizing flow propelling and agitation in various types of biochemical tanks during the water treatment process, also can be used for river frost protection and, landscape water circulation etc..

特点 Features

高质量国际知名品牌免维护轴承,使用寿命长。
独特的电缆密封设计,排除了电缆漏水的隐患。
电机轴采用不锈钢材质,转子经动平衡检测,运转平稳。
内部设有泄漏传感器和定子绕组超温保护装置
低速推流器叶桨由聚氨酯制成,呈后掠式,具有自清洁功能;叶桨光滑的流线型表面,使推力被平均分配。
低速推流潜水搅拌机所有接触介质的紧固件均采用不锈钢材质;
减速装置采用安全系数较高的斜齿轮减速机。

The international well-known high-quality bearings have longer service life, which are maintenance free.
The unique sealing design for the cables removes the hidden danger of water leakage for the cables.

The shaft of the motor employs the stainless steel, and the rotors are inspected with the use of dynamic balancing, leading to smooth rotation.

The in-built leakage sensor and the alarming device for the over-temperature protection for the windings of the stator.

The vanes of the low-speed flow propeller are made of polyurethane, which are sweptback shape, have the selfcleaning function, the smooth and streamlined propeller surface distributes the propelling power equally.

On the Low speed push flow submersible mixer, all the tightening pieces which will contact media employ the stainless-steel material; The decelerator employs helical gear speed reducer with high safety coefficient.

适用条件 Conditions of usage

介质温度: $\leq 40^{\circ}\text{C}$

The highest temperature of the media shall not exceed 40°C

介质pH值: 5~9

The pH value of the media: 5~9

介质密度: $< 1150\text{kg/m}^3$

The density of the media shall not exceed 1150kg/m^3

潜水深度: $< 20\text{m}$

The depth of submersion shall not exceed 20m.

电源: 380V, 50Hz

The electric power supply: 380V/50Hz

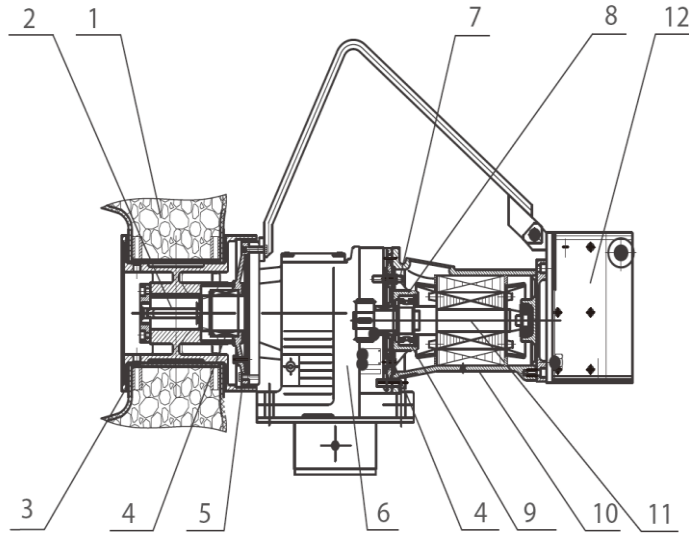
电机: F/H级绝缘并符合IP68, 24小时连续运行

The motor: F/H class insulation and in accordance with IP68, continuous operating in 24hr.

潜水搅拌机必须完全潜入水中工作

The submersible mixer must operate in the complete submersion into water.

结构简图 Construction



不同型号结构略有差异 The structure will be different according to the model.

NO.	名称	Name	材质		Material	
			GB	JIS		
1	叶桨	Propeller	聚氨酯		polyurethane	
2	输出轴	Output shaft	20Cr13		SUS420J1	
3	轮毂	Wheel boss	HT200		FC200	
4	机械密封	Mechanical seal	SiC-SiC		SiC-SiC	
5	机封座	Mechanical seal stand	HT200		FC200	
6	减速机	Decelerator	HT200		FC200	
7	泄漏传感器	Leakage sensor	-		-	
8	轴承座	Bearing stand	HT200		FC200	
9	轴承	Bearing	-		-	
10	机壳	Sheath	HT200		FC200	
11	电机轴	Motor shaft	20Cr13		SUS420J1	
12	滑套	Slide sleeve	HT200		FC200	

标配材质，其它材质另询 This is standard material, If other material needed, Please contact us.

型号说明 Model directions

ELQJB 3 / 4 -1100 2 -980 P



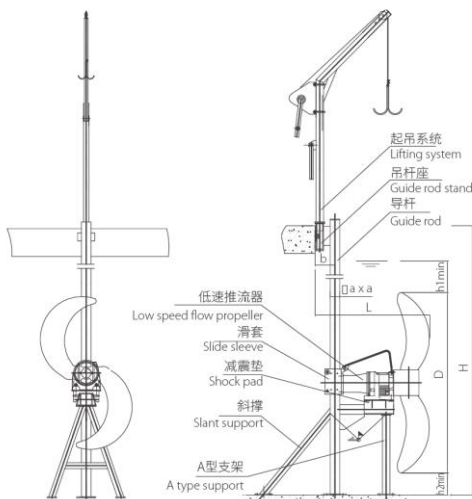
E.CO牌低速推流潜水搅拌机 E.CO brand Low speed push flow submersible mixer



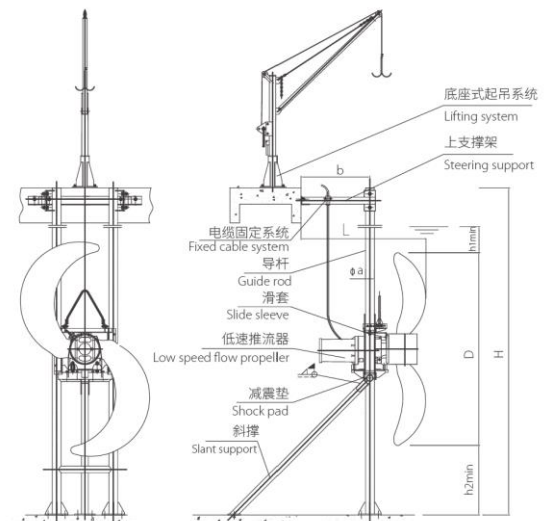
技术参数 Technical parameter

型号 Model	电机功率 Motor power (KW)	额定电流 Rated current (A)	桨叶直径 Propeller Dia. (mm)	桨叶转速 Propeller speed (rpm)	轴向推力 Axial thrust (N)	安装系统 Installation system
ELQJB 1.5/4-2500/2-36P	1.5	3.9	2500	36	1430	IV
ELQJB 3/4-2500/2-38P	3	7.2	2500	38	2090	IV
ELQJB 4/4-2500/2-42P	4	9.2	2500	42	2850	IV
ELQJB 5/4-2500/2-56P	5	11.9	2500	56	3820	IV/V
ELQJB 7.5/4-2500/2-63P	7.5	16.6	2500	63	5160	IV/V
ELQJB 1.5/4-2200/2-38P	1.5	3.9	2200	38	1400	IV
ELQJB 2.2/4-2200/2-42P	2.2	5.3	2200	42	1810	IV
ELQJB 3/4-2200/2-48P	3	7.2	2200	48	2140	IV
ELQJB 4/4-2200/2-56P	4	9.2	2200	56	2780	IV
ELQJB 5/4-2200/2-63P	5	11.9	2200	63	2960	IV
ELQJB 1.5/4-1800/2-42P	1.5	3.9	1800	42	1480	IV
ELQJB 2.2/4-1800/2-48P	2.2	5.3	1800	48	1880	IV
ELQJB 3/4-1800/2-56P	3	7.2	1800	56	2365	IV
ELQJB 4/4-1800/2-63P	4	9.2	1800	63	2750	IV
ELQJB 1.5/4-1600/2-48P	1.5	3.9	1600	48	1320	IV
ELQJB 3/4-1600/2-56P	3	7.2	1600	56	2140	IV
ELQJB 4/4-1600/2-63P	4	9.2	1600	63	2520	IV
ELQJB 1.5/4-1400/2-48P	1.5	3.9	1400	48	1200	IV
ELQJB 2.2/4-1400/2-56P	2.2	5.3	1400	56	1640	IV
ELQJB 3/4-1400/2-63P	3	7.2	1400	63	2180	IV
ELQJB 2.2/4-1100/2-87P	2.2	5.3	1100	87	1970	IV
ELQJB 3/4-1100/2-115P	3	7.2	1100	115	2140	IV
ELQJB 4/4-1100/2-135P	4	9.2	1100	135	2930	IV

安装系统 Installation System



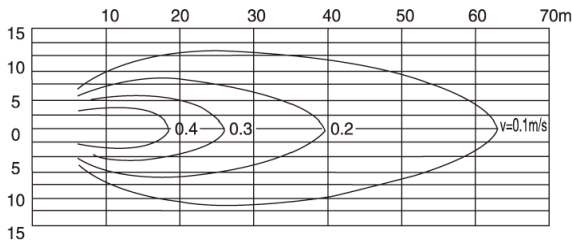
Installation system IV



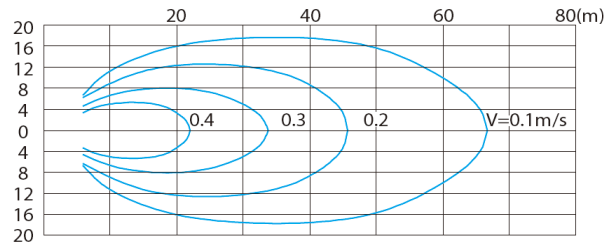
Installation system V



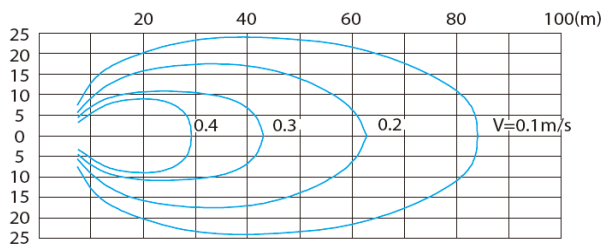
流场图 The flow field



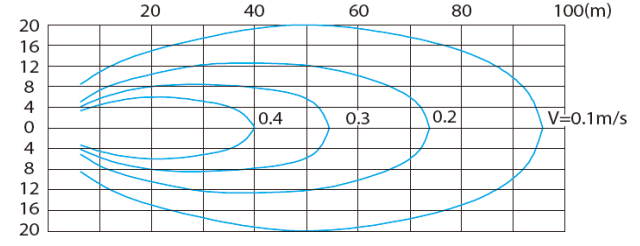
ELQJB 1.5/4-2500/2-36P



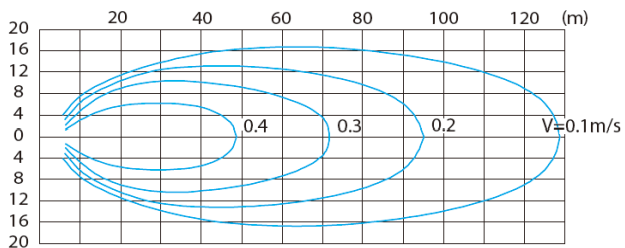
ELQJB 3/4-2500/2-38P



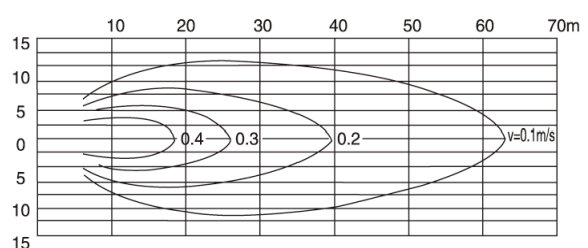
ELQJB 4/4-2500/2-42P



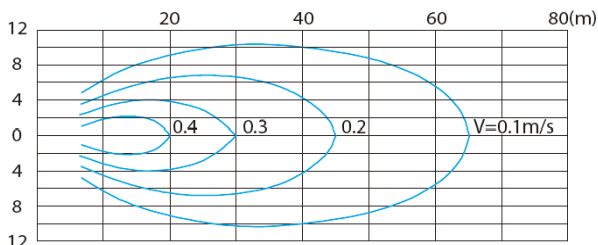
ELQJB 5/4-2500/2-56P



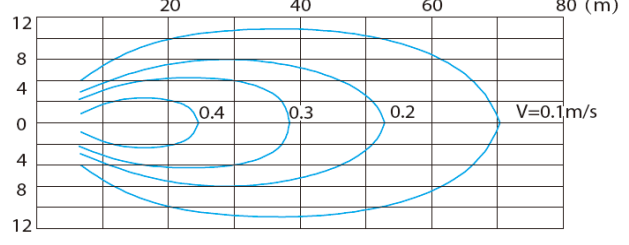
ELQJB 7.5/4-2500/2-63P



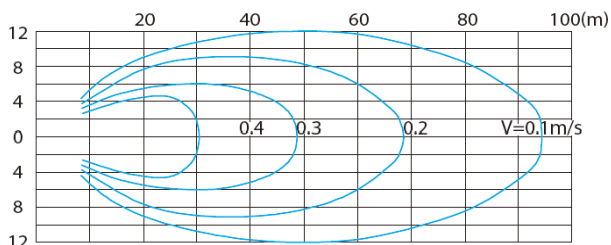
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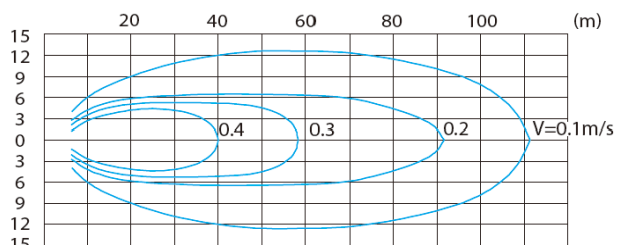
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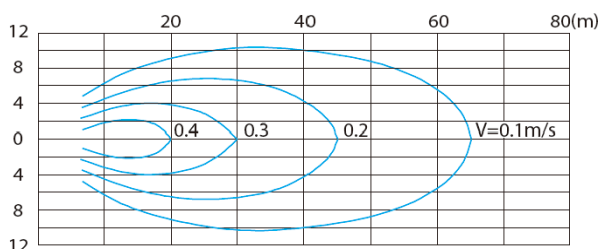
ELQJB 3/4-2200/2-48P



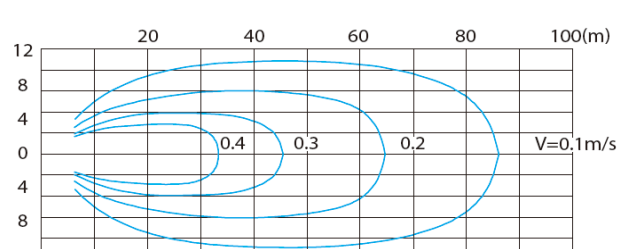
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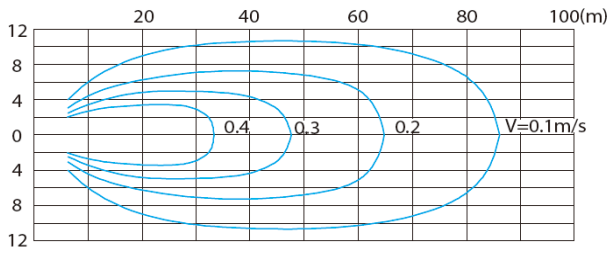
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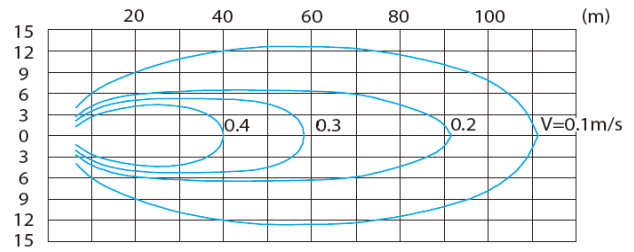
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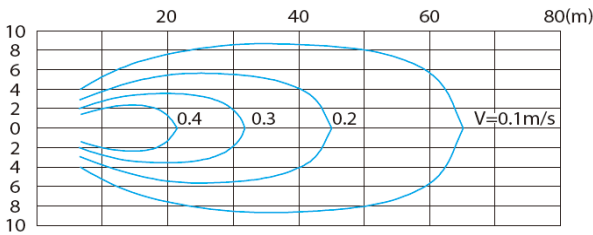
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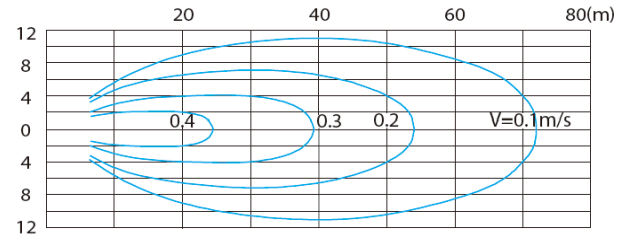
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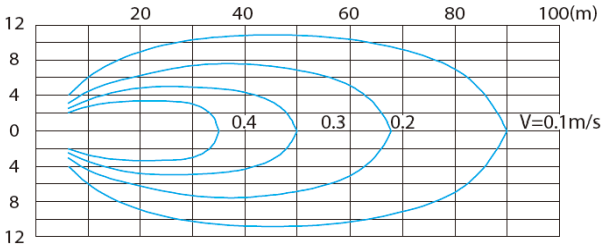
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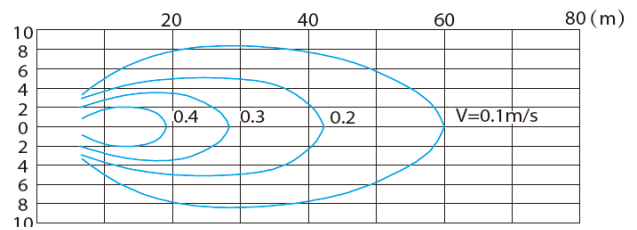
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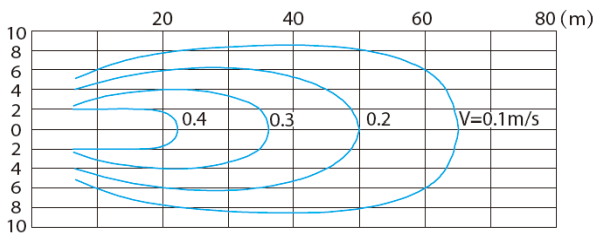
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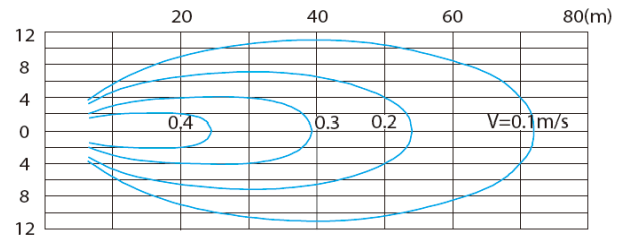
ELQJB 4/4-1600/2-63P



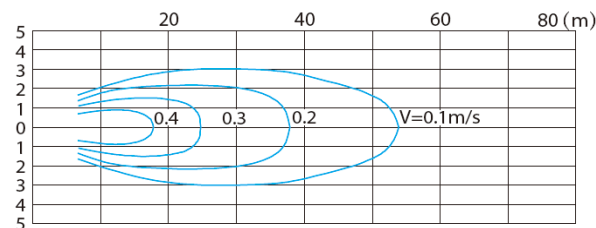
ELQJB 1.5/4-1400/2-48P



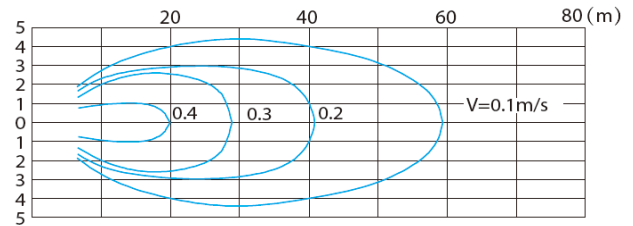
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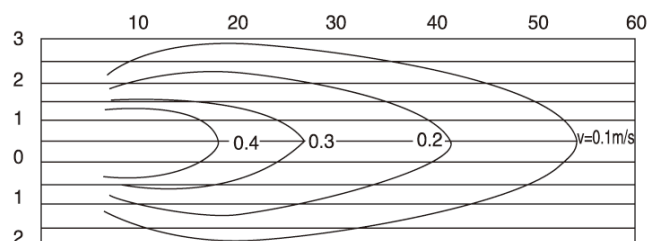
ELQJB 3/4-1400/2-63P



ELQJB 2.2/4-1100/2-87P



ELQJB 3/4-1100/2-115P



ELQJB 4/4-1100/2-135P



选型 Select the model

挑选潜水搅拌机是非常复杂的。需要考虑带很多因素--水量、水质、池型.....

Picking out a submersible mixer is very complicated. There are many factors to consider - water quantity, water quality, pool type...

以市政污水处理厂为例 Take the municipal sewage treatment plant as an example:

1. 计算需要的总动力 Calculate the total power required.

$$N = (u * v * G^2 / 1000) / \eta$$

N: 搅拌所需的功率 Power required for stirring KW;

u: 水的动力粘度 Dynamic viscosity of water, $\sim 1.0 \cdot 10^{-2} (20^\circ\text{C}) \text{ N}\cdot\text{s}/\text{m}^2$

v: 池子容积 Pool volume, m^3

G: 速度梯度 Velocity gradient, 60-120

η : 转动效率 Rotational efficiency, $\sim 85\%$

2. 用污泥浓度系数进行校正 Use sludge concentration coefficient for correction.
3. 用池型系数进行校正 Use pool stype coefficient for correction.
4. 根据流场曲线结合池型、总功率布置潜水搅拌机
The submersible mixer shall be arranged according to the flow field curve, pool type and total power.

专业的工作由专业的人士完成!

请告诉我们完整的信息, 我们为你服务!

Professional work is done by professionals!

Please tell us the complete information and we will serve you!