

太阳能推流曝气机 Solar push flow aerator



推流式太阳能曝气机是一种多功能增氧曝气设备，具有增氧、推流循环双重功效，是一种轻便、智能化、环境友好型曝气设备。主要应用于：湖泊、水库、河道、水源地、氧化塘和污水塘等场所，有效改善水体因缺氧而引起的异味、黑臭及蓝绿藻泛滥等问题，尤其适用于接线不便利、对环境要求比较高的水体。

The push-flow solar aerator is a multi-functional oxygen-enhancing aeration equipment with dual functions of oxygen-enhancing and push-flow circulation. It is a portable, intelligent and environment-friendly aeration equipment. Mainly used in: lakes, reservoirs, rivers, water sources, oxidation ponds and sewage ponds, etc., to effectively improve the problem of odor, black odor and blue-green algae flooding caused by lack of oxygen in the water body, especially suitable for inconvenient wiring. Water bodies with relatively high environmental requirements.

推流式太阳能曝气机净水原理：

Push-flow solar aerator water purification principle:

SPS-LJ 推流式太阳能曝气机，以太阳能作为设备运转的直接动力，设置独特的转盘式复氧叶轮，通过转盘叶轮旋转拨动水循环，将水横向推流输送至远端，底部缺氧水体向上补充，实现循环推流、混合和复氧等多重功效。

The SPS-LJ push-flow solar aerator uses solar energy as the direct driving force for the operation of the equipment, and is equipped with a unique turntable type re-oxygenation impeller. The water body is replenished upward to realize multiple

functions such as circulating flow, mixing and re-oxygenation.

太阳能推流曝气机特点

Features of Solar push flow aerator

1、景观型设计，在治理修复水体的同时，达到与自然景观的和谐美观，同时兼顾夜间景观效果

2、针对于浅水域，为水体定向移动提供动力支撑

3、设备漂浮在水面，安装方便，自动运行，无需日常人工操作

4、采用太阳能作为动力源进行长期修复，节能环保

5、太阳能曝气与鼓风曝气相结合设计，水体修复能力强

6、采用不锈钢和工程塑料等耐腐蚀材料，使用寿命长

7、无需投加任何化学试剂，无二次污染， 生态环保

8、基于物联网人工智能技术，可以通过移动终端实时对设备进行监控和数据查询、监控和管理

1. Landscape design, while managing and restoring water bodies, to achieve harmony and beauty with the natural landscape, while taking into account the nighttime landscape effect

2. For shallow waters, it provides dynamic support for the directional movement of water bodies

3. The equipment floats on the water surface, which is easy to install and runs automatically without daily manual operation.

4. Using solar energy as a power source for long-term repair, energy saving and environmental protection

5. Combined design of solar aeration and blast aeration, strong water body repairing ability

6. Using corrosion-resistant materials such as stainless steel and engineering plastics, the service life is long

7. No need to add any chemical reagents, no secondary pollution, ecological and environmental protection

8. Based on the artificial intelligence technology of the Internet of Things, the

equipment can be monitored and data inquired, monitored and managed in real time through the mobile terminal

SPS-LJ 设备参数及选型

SPS-LJ Equipment parameters and selection

SPS-LJ 太阳能推流曝气机选型前，首先必须明确水体的需氧量、水体平面大小以及深度结构。

Before selecting the SPS-LJ solar push flow aerator, the oxygen demand of the water body, the plane size of the water body and the depth structure must first be determined.

Type	Voltage	Power W	Oxygenation capacity kgO ₂ /h	circulating flux m ³ /h
SPS-LJ400	24V	400	0.68-0.79	760
SPS-LJ550	36V	550	0.85-1.22	1050
SPS-LJ750	48V	750	1.95-2.64	1460
SPS-LJ1000	48V	1000	2.75-3.57	1650
SPS-LJ1500	48V	1500	4.0-5.0	2080

推流式太阳能曝气机具有以下功能：

The push-flow solar generator has the following functions:

1、横向推流混合复氧

循环推流过程同时是一个混合、复氧过程，提高底层水体溶氧量，抑制磷释放。

2、激发水体自净功能

富氧水流改善水体底质，激发底泥生物活性，水体自负荷大大提高。

3、强力推流制造活水

形成横向和纵向循环活水流，消除水体自然分层减少上下温差。

1. Horizontal push flow mixed reoxygenation

The process of circulating push flow is also a mixing and re-oxygenation process, which increases the dissolved oxygen in the bottom water and inhibits the release of phosphorus.

2. Stimulate the self-purification function of water body

The oxygen-enriched water flow improves the water bottom, stimulates the biological activity of the sediment, and greatly increases the self-load of the water.

3. Powerful push flow to make living water

Form horizontal and vertical circulating live water flow, eliminate natural stratification of water body and reduce temperature difference between upper and lower.

太阳能推流喷泉曝气安装说明及注意事项: Installation instructions and precautions for solar push flow Aerator:

SPS-LJ 太阳能推流曝气机为一体式结构, 无需专用安装基础, 可根据需要灵活调整安装位置。

在深水池塘里安装曝气或喷泉设备很困难, 然而采用漂浮式喷泉曝气机, 你会发现整个过程轻而易举, 设备安装后不受水位变化影响。

- 1、 电源安装务必请专业电工;
- 2、 水体深度不得低于 0.6 米;

固定方式:

采用插杆式安装——水体表面除设备及杆, 无其他配件

采用锚石固式安装——水体表面除设备外, 无可见配件

注意事项:

- 1、 安装深度应对照技术参数表严格控制, 不可任意调节工作深度。
- 2、 启动设备后几秒内观察电机运转方向是否正确, 如反转及时调整。
- 3、 设备运作的水体内不可有金属线、绳子、塑料袋等纤维杂物, 以免缠绕叶轮和堵塞进水口等部位。

设备出厂可配电器控制系统, 工作中当控制系统自动切断电源时需及时查明原因, 排除故障后再启动, 不能短路后启动使用。

The SPS-LJ solar push flow aerator has an integrated structure, no special installation foundation is required, and the installation position can be flexibly adjusted according to needs.

Installing aeration or fountain equipment in deep water ponds can be difficult, however with a floating fountain aerator, you will find the entire process a breeze and the equipment is not affected by changes in water levels after installation.

1. Please ask a professional electrician for power installation;
2. The depth of the water body shall not be less than 0.6 meters;

fixed way:

Adopt plug-in installation - except for equipment and rods on the surface of the water body, there are no other accessories

Anchored installation - no visible accessories except for equipment on the surface of the water body

Precautions:

1. The installation depth should be strictly controlled according to the technical parameter table, and the working depth cannot be adjusted arbitrarily.
2. Observe whether the motor is running in the correct direction within a few seconds after starting the equipment, and adjust it in time if it is reversed.
3. There should be no metal wires, ropes, plastic bags and other fibrous debris in the water body in which the equipment operates, so as to avoid entanglement of the impeller and blockage of the water inlet and other parts.

When the control system automatically cuts off the power supply during work, it is necessary to find out the cause in time, and then start after troubleshooting, and can not be used after short-circuiting.

SPS-LJ 太阳推流曝气机工程案例

SPS-LJ solar push flow aerator project case

