

太阳能喷泉曝气机 Solar Fountain Aerator

SFT-LJ 太阳能喷泉式曝气机，可浮于水面并能随水位升降，是一种由太阳能发电让潜水电机带动水流向上喷涌，通过不同类型喷头，喷出各种样式水花。让水花在空气中形成景观效果的一种增氧设备。将底层水体提升至表层水体，实现水体的交换；同时表层水体以层流状的形式向外扩散形成表面流。随着表面流扩散，覆盖面积增加，改善水体的表面张力，提高气水界面的氧浓度，并通过交换提升至底层。进而逐步提高水体溶解氧，促使水体均匀化。

SFT-LJ Solar Fountain Aerator, which can float on the water surface and can rise and fall with the water level, is a kind of submersible motor driven by solar power to drive the water to spout upwards. Through different types of nozzles, various styles of water spray are sprayed. Let the water spray in the air An oxygen-enhancing device that forms a landscape effect. The bottom water body is lifted to the surface water body to realize the exchange of water bodies; at the same time, the surface water body diffuses outward in the form of laminar flow to form surface flow. With the diffusion of the surface flow, the coverage area increases, the surface tension of the water body is improved, the oxygen concentration at the air-water interface is increased, and the oxygen concentration at the air-water interface is increased to the bottom layer through exchange, thereby gradually increasing the dissolved oxygen in the water body and promoting the homogenization of the water body.



设备参数及选型 Equipment parameters and selection

SFT-LJ 太阳能喷泉曝气机选型前，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 SFT-LJ solar fountain aerator, the oxygen demand of the water body, the plane size of the water body and the depth structure must first be determined.

Model	Voltage	Oxygenation capacity (kgO ₂ /h)	circulating flux (m ³ /h)	morning glory height(m)	Splash diameter(m)
SFT-LJ400	24V	0.45-0.72	760	0.6	1.8
SFT-LJ550	36V	0.73-0.82	890	1.0	2.6
SFT-LJ750	48V	0.85-1.2	1125	1.3	3.7
SFT-LJ1000	48V	1.3-1.95	1420	1.7	4.8
SFT-LJ 1500	48V	2.4-2.9	1745	1.9	5.5



太阳能喷泉式曝气机具有净化效果：

The solar fountain aerator has the purification effect:

- 1、 喷洒样式形成造波效果，有助于打散藻类，抑制蚊子孳生。
- 2、 垂直循环流，迅速交换上下层水体，提升底层溶解氧；
- 3、 消除水体自然温跃层，缩减水体上下层温差；
- 4、 快速去除底泥产生的硫化物、甲烷及氨气，减轻水体臭味；
- 5、 增强底泥中微生物活性及繁殖能力，加速分解污染物；
- 6、 促进水体上下循环，提高水体流动性，消减水体死角。

1. The spray pattern creates a wave-making effect, which helps to disperse algae and

inhibit the breeding of mosquitoes.

2. The vertical circulation flow can quickly exchange the upper and lower water bodies and increase the dissolved oxygen in the bottom layer;
3. Eliminate the natural thermocline in the water body and reduce the temperature difference between the upper and lower layers of the water body;
4. Quickly remove sulfide, methane and ammonia produced by sediment, and reduce water odor;
5. Enhance the activity and reproduction capacity of microorganisms in the sediment, and accelerate the decomposition of pollutants;
6. Promote the up and down circulation of the water body, improve the fluidity of the water body, and reduce the dead angle of the water body。



太阳能喷泉式曝气特点; Features of solar fountain aeration;

- 1、 成本低、见效快、安装方便，无需日常人工操作；
- 2、 采用不锈钢和工程熟料等耐腐材料，使用寿命长；
- 3、 生态环保，无需投加任何化学药剂，无二次污染；
- 4、 太阳能曝气与微生物治理相结合设计，水体修复能力强；
- 5、 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。
- 6、 出水口可根据需求设计，适合于深水湖泊或水库；
- 7、 浮体安装：随意移动，体积小，无水位影响，无需基础；

8、 采用太阳能作为动力源进行长期修复，节能环保。

1. Low cost, quick effect, easy installation, no need for daily manual operation;
2. The use of corrosion-resistant materials such as stainless steel and engineering clinker has a long service life;
3. Ecological and environmental protection, no need to add any chemicals, no secondary pollution;
4. The combination of solar aeration and microbial treatment is designed, and the water body repair ability is strong;
5. Landscape design, while managing and restoring water bodies, achieves harmony and beauty with the natural landscape, and takes into account the nighttime landscape effect.
6. The water outlet can be designed according to the needs, suitable for deep-water lakes or reservoirs;
7. Floating body installation: free to move, small size, no water level influence, no foundation required;
8. Using solar energy as a power source for long-term repair, energy saving and environmental protection.

太阳能喷泉曝气机应用范围: Application scope of solar fountain aerator:

喷泉式太阳能曝气机(SFT-LJ 系列))不仅可以快速为水体增氧，且具有优美的外观设计，抛洒的水花有喇叭花型、中心水柱型、涌泉状、菊花状等多种造型，具有独特的造景功效，因而广泛应用于高尔夫球场、水景住宅、城市河道、湖泊、人工湖、人工河等各种景观水体的净化和水景制作，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，提升景观效果；尤其适用于接线不便利、对环境要求比较高的水体。

Fountain type solar aerator (SFT-LJ series)) can not only add oxygen to the water body quickly, but also has a beautiful appearance design. It has a unique landscaping effect, so it is widely used in the purification and waterscape production of various landscape water bodies such as golf courses, waterscape houses, urban rivers, lakes, artificial lakes, artificial rivers, etc. Odor and blue-green algae flooding, etc., improve

the landscape effect; especially suitable for water bodies with inconvenient wiring and high environmental requirements.

太阳能喷泉曝气安装说明及注意事项: Installation instructions and precautions for solar fountain Aerator:

SFT-LJ 太阳能喷泉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。

The SFT-LJ solar fountain 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.