

# RSO系列臭氧机

## 使用说明书

RSO25/RSO35/RSO280

# RSO

系列臭氧机是本集团最新研制的高科技产品。机芯主体采用经过多年使用和验证的成熟原理构造，经本集团科研人员努力，采用传统技术结合现有尖端高科技创新设计，开发出的“高效隔离边缘放电”臭氧机，其使用寿命、稳定性、臭氧浓度均能达到目前国际先进水平。

### 一、主要作用：

- 1、本机可通过专用输送臭氧的硅胶管，将臭氧气体输入5L-10L水的容器中，制造成高浓度臭氧水用于杀菌消毒。或通过专用臭氧输送硅胶管将臭氧气体输入水中，直接杀灭水中有害病菌。并在无需连接专用输送硅胶管情况下，可直接用于室内空间消毒。
- 2、本系列臭氧机制造产生的臭氧对人体无任何伤害，绝对安全。而对细菌却有极强的杀灭作用，并且无任何残留物，不产生二次污染。因而它可直接应用于水处理、食品消毒、室内空间消毒。本产品适用于家庭、饭店、宾馆、浴池、医院、美容美发厅、娱乐场所等场所的空间消毒。
- 3、臭氧是目前世界上已知的最强氧化剂之一，其用途十分广泛。现简单介绍臭氧在水族业中的主要作用和使用方法，供大家使用参考。

臭氧以它极强的氯化反应能力，能迅速有效地杀死水中病原微生物，消除藻类，击破病毒表面抗原，分解有害化学成分和有机质，氧化重金属，并能迅速地降低水中BOD、COD指标。从而达到净化水质和预防治疗水生物、植物的各种疾病的产生，达到维护水体生态平衡之目的。具有“水质医生”的美誉。故臭氧机是养淡水水生生物必备设备之一。

### 二、使用功能说明：

- 1、RSO25及RSO35臭氧机发生器的电路采用2小时的定时工作，防止长时间工作高温烧坏，使产品寿命提高。在臭氧机工作使用二小时后，臭氧发生器会自动停止工作，此时指示灯熄灭，无臭氧输出。如用户要使臭氧机继续产生臭氧，请在停机10分钟后再重新启动开关电源激活程序，臭氧机将按2小时定时程序继续工作。注：气泵不受定时影响可连续工作。
- 2、RSO280臭氧机采用机械定时工作，机械定时器可进行一小时范围内调节，或机械定时器调至O<sub>2</sub>位置，使其无定时限制长时间工作。若只需给鱼缸提供氧气，只需将臭氧机机械定时器调至O<sub>2</sub>位置，气泵不受影响可继续工作。

### 三、技术参数：

型号	电压	频率	臭氧发生量	备注
RSO25	100-120/220-240V	50/60Hz	0.25g/H	对特殊要求的用户可进行定制、生产。
RSO35	100-120/220-240V	50/60Hz	0.35g/H	
RSO280	100-120/220-240V	50/60Hz	2.80g/H	

## INSTRUCTION MANUAL OZONE GENERATOR

RSO25/RSO35/RSO280

[www.purewatercare.com](http://www.purewatercare.com)

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# 广东日生集团

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**GUANGDONG RISHENG GROUP**

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Ozone is one of the most powerful oxidizer among the ever known oxidizers in the world and is widely used in many fields. With its powerful oxidation ability, ozone quickly eliminates pathogenic germs, kills algae, and dissolves harmful chemical ingredients as well as organic matters, thus decreases COD and BOD in water. Ozone is therefore used to purify water, prevent diseases of the creatures and maintain biological balance in water.

The Ozone has no harm to human body while it can effectively kill the bacteria in water without any residue. The generator can be extensively used at home, restaurant, hotel, bathroom, hospital, and entertainment sites.

## TECHNICAL DATA

MODEL	VOLTAGE	FREQUENCY	OZONE PRODUCER
RSO25	110/220V	50/60Hz	0.24g/H
RSO35	110/220V	50/60Hz	0.35g/H
RSO280	110/220V	50/60Hz	2.80g/H

## ACCESSORIES

To use the generator effectively, air stone is needed to be configured as it helps diffuse ozone and enhance the absorption of ozone by the water. The generator can work even more effectively if it is configured with the filters or the protein skimmers to increase bubble diffusion.

## HOW TO USE

### 1. RSO25 and RSO35

RSO25 is with an air pump built-in, while RSO35 is without. Therefore, a separate air pump is needed for RSO35, which you can find in the package.

#### RSO25

Use the output tubing to connect the generator with the air stone and make sure the air stone rests on the bottom of the water, then start up the generator.

#### RSO35

- Connect the outlet of the air pump with the inlet of the ozone generator with the tubing (Fig. 1)
- Connect the outlet of the ozone generator with the air stone with the tubing (Fig. 2)

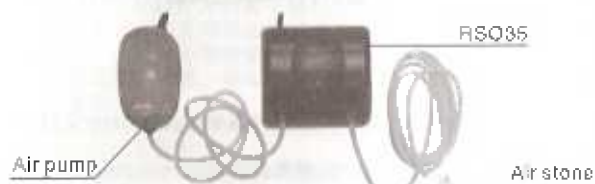


Fig. 1

Fig. 2

Note: the air pump is for illustration only. The actual product might be different.

- Put the air stone into water, make sure the air stone rests on the bottom of the water.
- Switch on the generator and the air pump.
- If only oxygen supply is needed, switch off the ozone generator; this doesn't affect the work of the air pump.

These two models are set to work for 2 hours to prevent it from overheating. It will stop automatically after working for 2 hours. If the indicator doesn't work and there is not ozone output, stop the generator for 10 minutes and switch on again, the generator will restart working for another 2 hours.

### 2. RSO280

Use the output tubing to connect the generator with the air stone and make sure the air stone rests on the bottom of the water, then start up the generator.

This model is set to work for 1 hour. It is adjustable within 1 hour, or can be set in the "O<sub>2</sub>" position for continuous work with no stop. If only oxygen supply is needed, adjust the timer to the "o<sub>2</sub>" position.

## HOW TO STERILIZE

- High density ozone water. Input the ozone into a container with 5-10L water by simply introducing the ozone from the generator into water with a hose. The ozone water can be used for sterilization.
- The user can also just introduce the ozone into the water for water treatment.
- To sterilize the air indoor, start the generator without connecting with a hose.

## RECOMMENDED OZONE QUANTITY

For fresh water:

- For fish keeping: To reach water treatment of 0.5m<sup>3</sup> per hour, 250mg ozone is needed (including volatilizing)
- For plant keeping: To reach water treatment of 0.5m<sup>3</sup> per hour, 350mg ozone is needed (including volatilizing)
- For new aquarium / pond: To reach water treatment of 0.5m<sup>3</sup> per hour, 500mg ozone is needed (including volatilizing)

For marine water:

Note: Besides the above instruction, a macromolecule filter is highly suggested to be used to absorb the Br<sub>2</sub> and BrO<sub>2</sub> in the marine water.

- For fish keeping: To reach water treatment of 0.5m<sup>3</sup> per hour, 150mg ozone is needed (including volatilizing)
- For coral / plant keeping: To reach water treatment of 0.5m<sup>3</sup> per hour, 100mg ozone is needed (including volatilizing)

Note: the above suggestion is for reference only, adjustment within 50mg is needed depending on the water condition.

## DISEASE TREATMENT FOR FISH

Connect the outlet of the ozone generator with the air stone by air tubing and then put it into a container, add 5-10L water into the container and switch on the ozone generator. Put the ill fish into the container for treatment after 20 minutes.

ILLNESS	OZONE DENSITY	TIME FOR TREATMENT	RATE OF KILLING BACTERIA
YAN	0.5-0.5mg/L	80 seconds	>99%
HIRRV	0.2-0.4mg/L	15 seconds	>99%
IHNV	0.2mg/L	15 seconds	>99%
IPNV	0.3-0.5mg/L	15 seconds	>99%
CSV	0.3-0.5mg/L	60 seconds	>99%
OMV	0.2-0.4mg/L	15 seconds	>99%
Vibrio Anguillarum	0.2-0.4mg/L	15 seconds	>99.9%
Streptococcus sp.	0.2-0.4mg/L	15 seconds	>99.9%
Escherichia coli	0.2-0.4mg/L	15 seconds	>99.9%
Ahydrophila	0.2-0.4mg/L	15 seconds	>99.9%
Colliform bacteria	0.2-0.4mg/L	15 seconds	>99.9%
Parasitic infestation	0.3mg/L	30 seconds	>99.9%

## IMPORTANT SAFETY CAUTIONS

- Put the ozone generator over the water level. DO NOT put the generator below water level as this will cause water to return to the generator.
- A check valve should be placed between the air tubing and the outlet of ozone generator. Disconnect the air tubing from the outlet of ozone generator before taking the air tubing out from water.
- NEVER disassemble the cover of the generator as this will cause electric shock.
- Put the generator in a place well-ventilated and dry. Prevent the generator from water spray and sunshine.
- Keep the aquarium well ventilated when using the ozone generator directly for water treatment in aquarium. DO NOT cover the aquarium as fish might be killed by the high-density of ozone in the water.
- Keep your nose away from the outlet of ozone generator as this will hurt your breathing system. Some people might be allergic to ozone, the symptoms might be nausea or vomit. If this happens, stay away from the ozone, the symptoms will fade away within half an hour.
- Air tubing will turn yellowish after using for some time (depending on how frequently it is used), this is a normal situation as the air tubing is oxidized by the ozone. Replace the air tubing depending on the oxidation condition.

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