

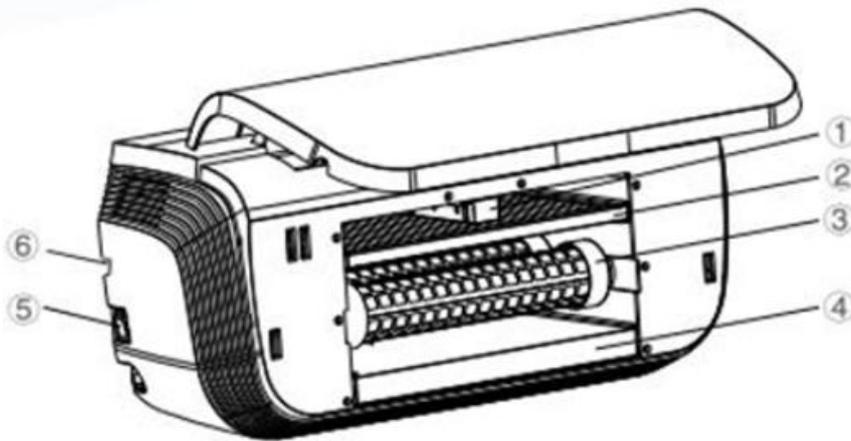
# A0459 Restroom Deodorizer & Sterilizer

## User Manual

### Place of application:

It is widely used in public toilets, company toilets, hotel rooms, pet rooms, KTV rooms, restaurant rooms, hospitals, waiting rooms, basements, warehouses and other places that require deodorization.

### Structure diagram:



### Note:

- ① Plant balm
- ② Plasma catalysis filter
- ③ High energy ion tube
- ④ Medium efficiency filter
- ⑤ Switch
- ⑥ Error indication

### Application method:

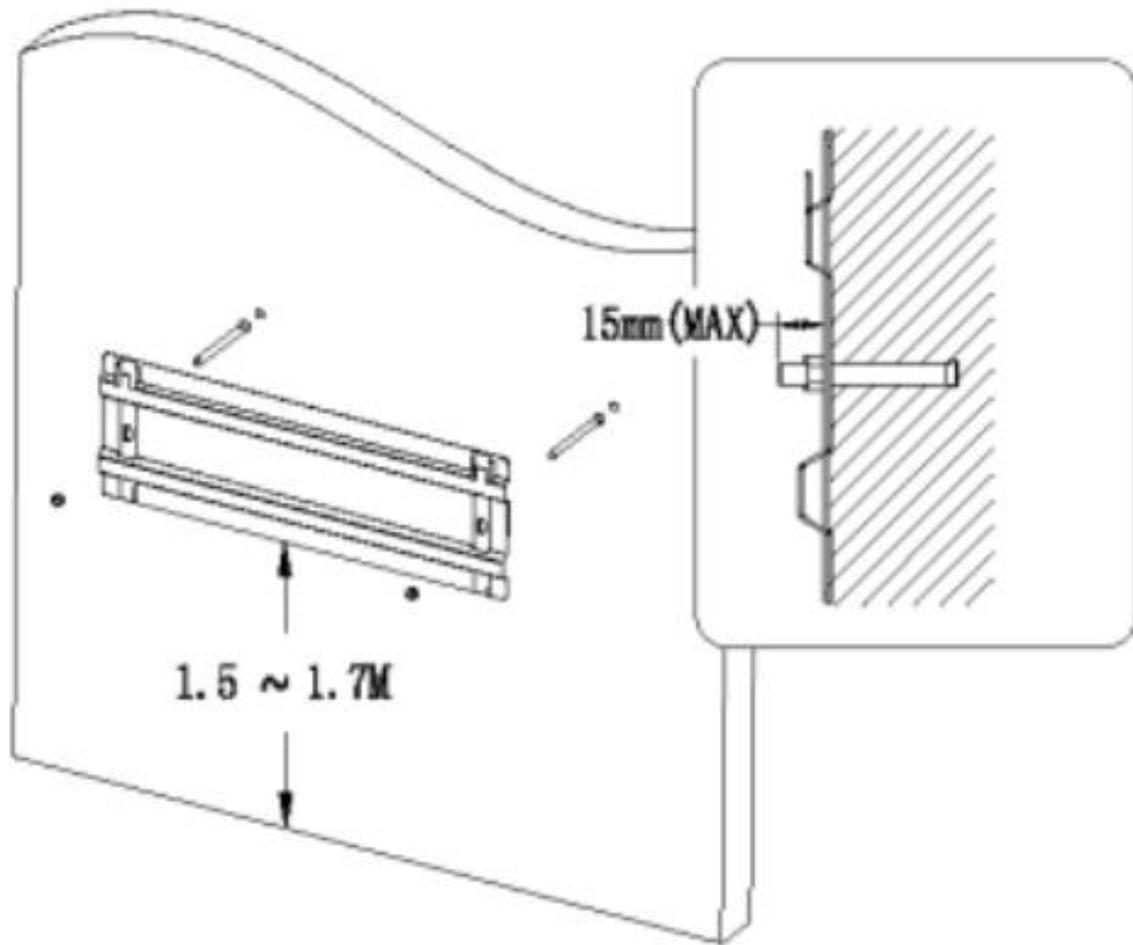
#### 1. Preparations:

- Remove all the packages.
- Check all the accessories as packing list (as following).
- Check the voltage on the label.

### Packing list:

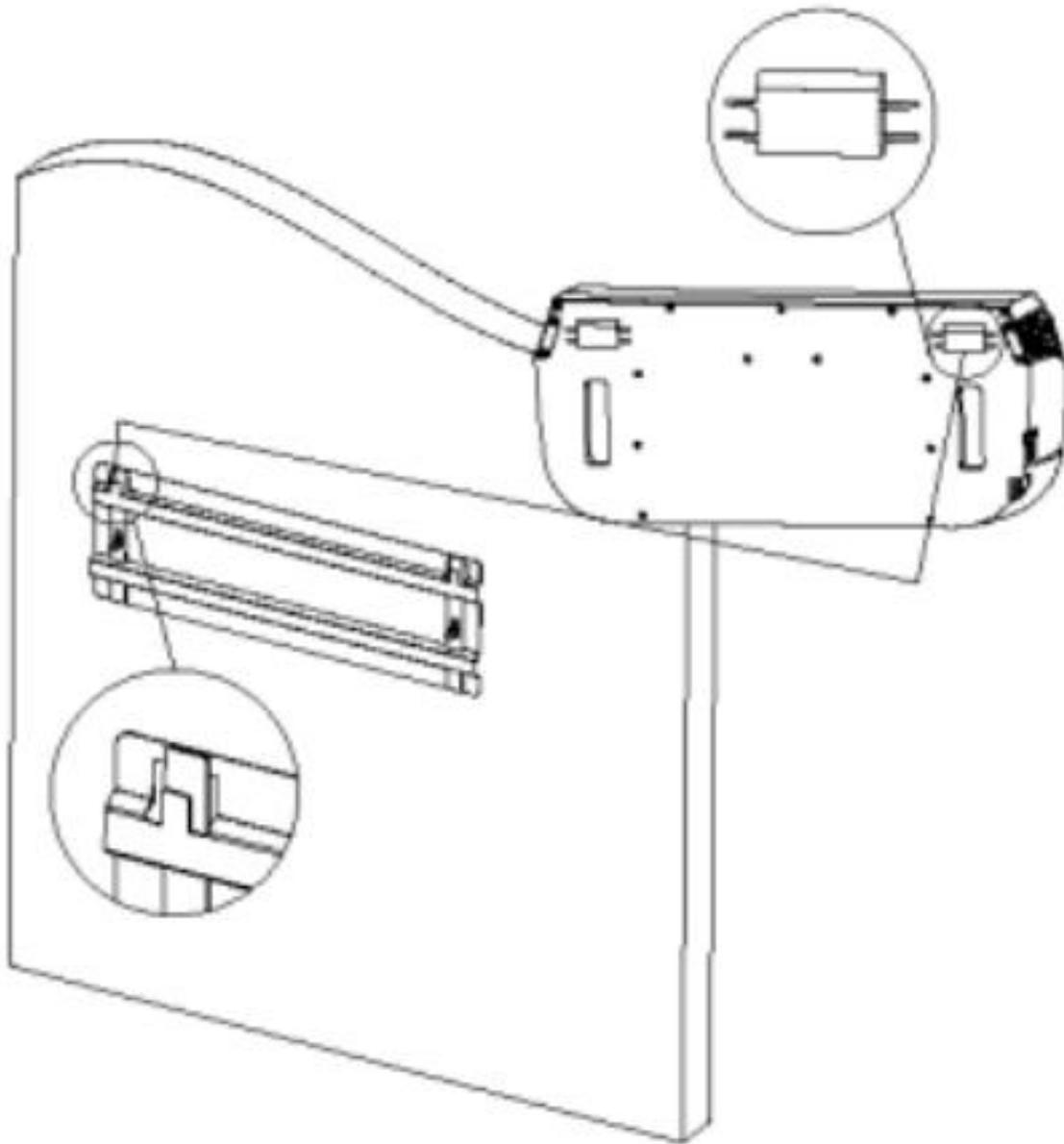
Item No	Description	Unit	Qty	
1	Deodorizer machine	PC	1	
2	User Manual	PC	1	
3	High-energy ion tube	PC	2	
4	Plant fragrance paste	PC	1	
5	Hanging plate	PC	1	
6	Setscrew	PC	2	
7	Accessories in machine	Plasma catalyzed carbon filter	PC	1
		Mid-effective filter	PC	1

## 2. Fix the hanging plate



Fix the hanging plate by setscrews on the wall.  
The suggested height above the ground is 1.5m~1.7m

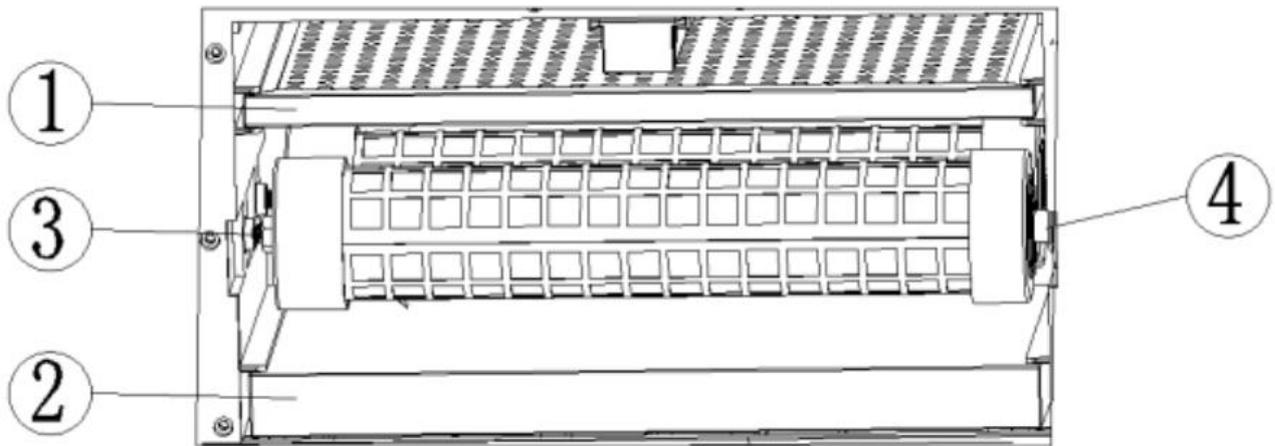
### 3. Hang the machine



- There are two buckles on the back of machine, hang the buckles on the hooks of hanging plate.
- The machine shall be install at indoor room without drop of water, DO NOT USE OURDOOR.
- Reserve 30cm space for inlet, and 100cm space for outlet.

#### 4. Install High-energy ion tube

- There are two pieces of high-energy ion tube to be installed.
- Open the front panel of machine from the bottom up.
- Unpack the high-energy ion tubes and install as following instruction:

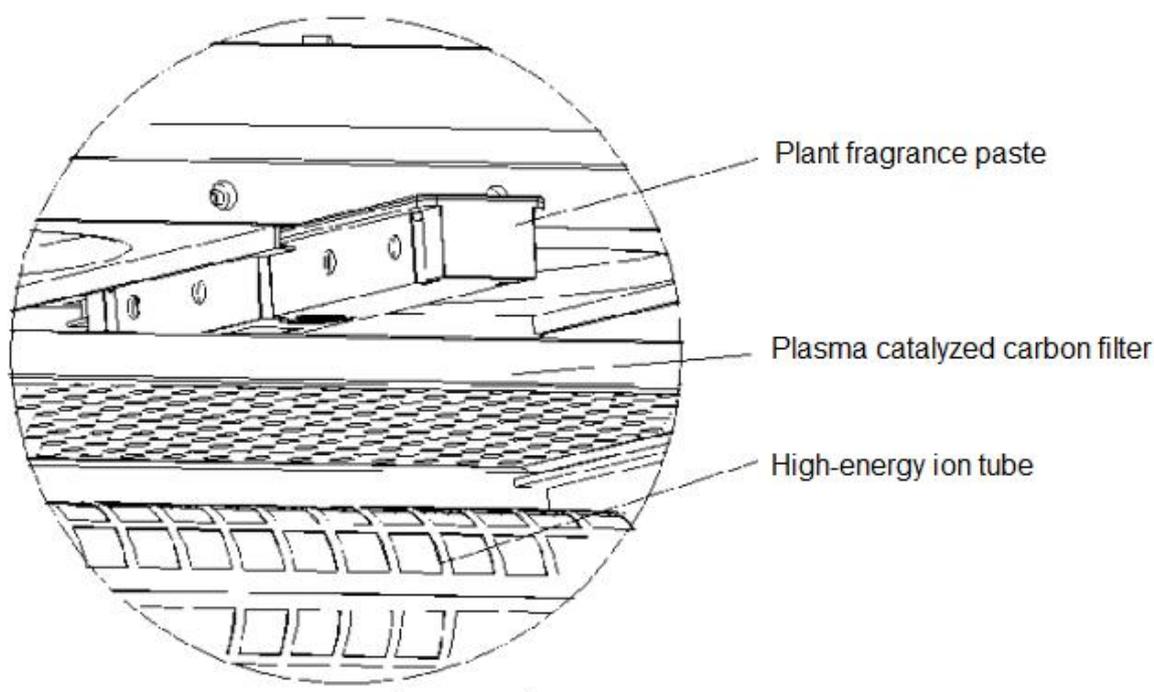


Steps:

- (1) Pull out the Plasma catalyzed carbon filter ①
  - (2) Pull out the Mid-effective filter ②
  - (3) Let the smaller end of high-energy ion tube meet the left side ③, and push it to the end.
  - (4) Let the bigger end of high-energy ion tube meet the right side ④, then release the tube, make sure it is fixed.
  - (5) Put in the Plasma catalyzed carbon filter ①
  - (6) Put in the Mid-effective filter ②
- There is error proofing design for the electrode of high-energy ion tube, please install in right direction.

## 5. Install Plant fragrance paste

Unpack the Plant fragrance paste and install as following graphical representation.



## 6. Power on the machine

- Close the front panel. There is protection micro switch in the machine, if the panel is open, the machine cannot be power on.
- Plug in and switch the button on left side to ON.

### Maintenance:

1. Replace plant fragrance balm every 3 months;
2. Replace medium efficiency filter every 3 months;
3. Clean the plasma catalysis filter by hair dryer every 3 months and re-install to the machine within shelf life. The shelf life of plasma catalysis filter is 24 months;
4. Wipe the high energy ion tube to keep surface is clean every 3 months and re-install to the machine within shelf life. The shelf life of high energy ion tube is 5 years.

### Notice:

1. Make sure the machine is power off before maintenance;
2. The high energy ion tube is fragile, please handle with care;
3. Make sure all the accessories are dry before installation.

## Specifications:

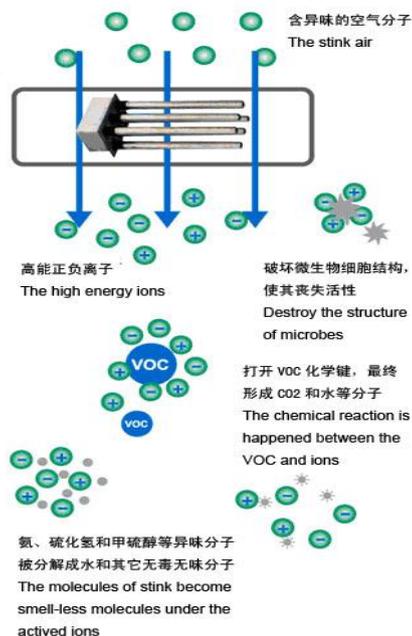
Parameter	Noise	≤50db
	Remove ammonia efficiency	≥95%
	Remove other odor efficiency	≥90%
	Sterilization rate	≥95%
Purification module	Primary filter + Medium efficiency filter	
	High energy ion tube	
	Plasma catalysis filter	
	Plant fragrance balm	
Specifications	Voltage	220VAC/50Hz
	Power	20W
	Max air volume	120m <sup>3</sup> /h
	Coverage area	10-12m <sup>2</sup>
	Product Size	478*213*163mm
	N.W	4.8kg
	Installation mode	Wall mounting
Working condition	Working environment temperature	-20°C~55°C
	Working environment humidity	25%~95%
	Storage environment temperature	-30°C~60°C
	Storage environment humidity	20%~98%
Function	Remove odors such as ammonia, hydrogen sulfide and decoration pollutants such as formaldehyde, toluene, etc.	
	Filter out biological pollutants: bacteria, viruses, molds, fungi, insect mites, etc.	

## Features:

- 1.Double effect purification: active purification and passive purification.
- 2.Five Purification:Primary filter,Deodorization of high energy ion , Reactive oxygen ion deodorization, Plasma catalytic purification, Plant liquid degradation purification.
- 3.Six core technologies: high energy ion deodorization technology, ion sterilization technology, reactive oxygen ion purification technology, plasma catalytic technology, plant liquid degradation technology, high voltage power supply ozone control technology.
- 4.Adjustable deodorization function, intelligent fault protection, safe and reliable.
- 5.Low noise, low power consumption.

## How technologies work:

### High Energy Ion purification Technology:



High-energy ion deodorization technology is produce high-energy active ions by using high-voltage alternating current in the purification tube. Under the action of high-energy active ions, the reaction of methyl mercaptan, ammonia, hydrogen sulfide and other odorous molecules takes place. Water and other non-toxic and odorless molecules are produced, and the chemical bonds of volatile organic gases are opened after contact with VOC molecules. After a series of reactions, stable and harmless small molecules such as carbon dioxide and water are formed. In the process, microbes, such as viruses, molds, bacteria, and so on, it can be destroyed and inactivated, thus reducing the concentration of bacteria in the air.

### Reactive oxygen ion purification technology:

During the working process of high-energy ion tubes, active oxygen ions are generated at the same time, blown out of the product through the fan and diffused in the space, and oxidized with hydrogen sulfide, ammonia, methyl mercaptan, dimethyl sulfide, benzene, formaldehyde, phenol, methane and other odors. React to achieve the effect of removing odors.

### High-voltage power supply ozone control technology:

Using adjustable low frequency and high pressure output technology to control the occurrence of high energy ions can not only effectively control the occurrence of ozone but also improve the efficiency of purification.

### Plant liquid degradation technology:

Use of Japanese imported plant liquid,extract the essence liquid with specific activity from pure natural plants and remove harmful substances and odorous substances from the air by using high-tech reaction technology.

### Plasma catalytic technology:

The ozone produced in the high-energy ion deodorization technology is changed into oxygen and oxygen ions under the action of catalyst. These oxygen ions are highly oxidizing and redox with odorous molecules and toxic organic compounds. The organic free radicals generated in the reaction can continue to participate in the chain reaction, and further oxidative decomposition reaction occurs.

### Ion sterilization technology:

The high energy ion tube produces high energy active ions, which can destroy the cell structure of various bacteria, bacteria, mold and so on, and make them lose their activity, thus reducing the concentration of microorganism in the air, the sterilization rate is up to 95%.