

# User Manual



**Plug-in PHT**

**Model Number JYL-PHT-150 | JYL-PHT-280 | JYL-PHT-450**

**UV Germicidal Light Air Purifier**

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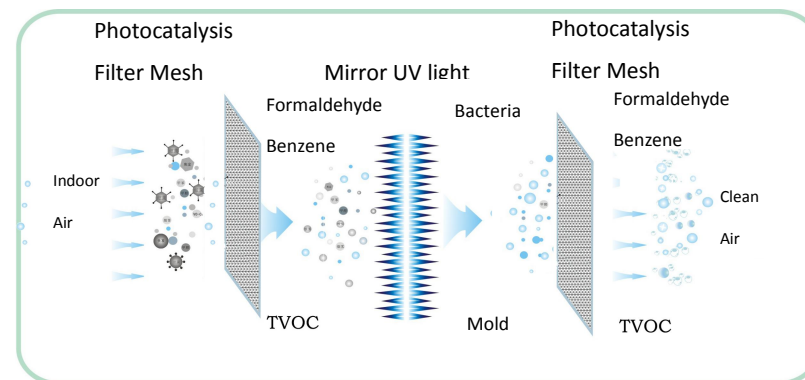
## 1.Mainly Sterilization Factor And Intensity

1.1 Sterilization Factor And Intensity:

- ★Sterilization Factor: Photocatalysis and UVC
- ★Intensity: 280/110/200 $\mu$ W/cm<sup>2</sup>(Measuring at 30cm distance).
- ★Power: 5W/8W/15W:

1.2 Mainly Sterilization Principle And Microorganism Category Eliminated

1.2.1 Air Sterilization Principle



Picture 1






UV Germicidal combines the unique air purification technology of TiO<sub>2</sub> advanced oxidation technology and photocatalysis technology. It uses unique wide-wavelength photon wave and special metal catalyst layer to generate super-purifying purification air, which can quickly and comprehensively remove formaldehyde, benzene, TVOC ect. harmful bacteria and odor air of viruses and bacteria. The pollutants of air can be perfectly clean and will not cause secondary pollution.

1.2.2 Microorganism Category Eliminated:

Test the killing rate of Staphylococcus Albus and extinction of natural bacteria in the air.

## 2.Safety Precautions

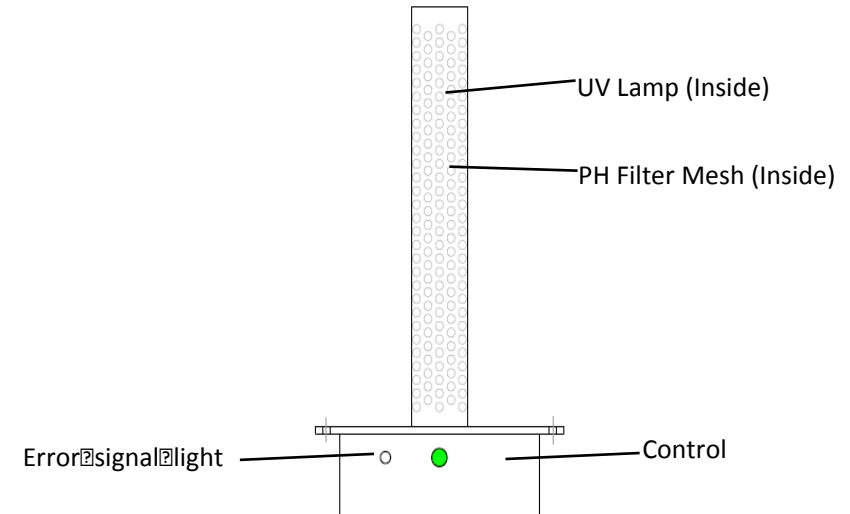
In order to avoid possible injury or property damage to you or others, please be aware of the following safety precautions.

 <b>WARNING</b>	
 <b>NO WET HANDS!</b>	 <b>GROUNDING!</b>
 <b>NO HIGH TEMPERATURE AND FLAMMABLE!</b>	 <b>WHEN WORKING, DO NOT TURN OFF BOTH SEMICONDUCTOR AND UV.</b>

 <b>CAUTION</b>	
<b>UV radiation hazard.</b> Use only with shielding in place. Protect eyes & skin from exposure to UV light.	

## 3.Product Structure

The equipment consists of UV lamp, photocatalysis filter mesh  
The specific structure is as follows:



## 4.Scope Of Application

- 4.1Hospitals, clinics, rehabilitation centers, blood stations, sterile rooms, etc.
- 4.2Airports, stock exchanges, hotels, libraries, science and technology museums, archives, waiting rooms (cars), gymnasiums, fitness venues, shopping malls, office space and many other places.
- 4.3Clean rooms, food factories, farms, electronics, optics, precision instrument workshops, biopharmaceutical research laboratories, laboratories, etc., where the cleanliness requirements are high and there are odors.

## 5.Product Function And Features

- 5.1 High Sterilization Effect: natural bacteria in the air Eliminated rate  $\geq$  90.0%
- 5.2 High harmful air Effect: remove formaldehyde, benzene, TVOC  $\geq$  90.00%;
- 5.3 Widely sterilization: Bacteria, mold, virus and escherichia coli ect.
- 5.4 Control: It can be connected with the central air conditioner for turn OFF/ON.
- 5.5 Plug-in structure design, easy to install, disassemble, clean and repair.

## 6.Main Performance Parameters

6.1 Medical Equipment Type:Type I Protection Against Electric Shock.

6.2 Main Performance Parameters

Model	JYL-PHT-150	JYL-PHT-280	JYL-PHT-450
Dimension (mm)	200×196×92	340×196×92	490×196×92
Air Volume (CMH)	340-680	700-2380	1000-5000
Power (w)	5	8	20
Plug hole diameter	φ48-φ50 mm		
Virus removal efficiency	95%-98%		
Light wave intensity	80uw/cm <sup>2</sup>	110uw/cm <sup>2</sup>	200uw/cm <sup>2</sup>
Power supply	220V/50-60Hz		
Working conditions	0°C -45°C/ < 90RH		
Pressure drop (Pa)	5 - 10		

## 7.Installation Method

### 7.1 PHT Air Purification Device Installation Method

7.1.1 Opening a hole diameter 50 mm on the duct;

7.1.2 Take out the device and installation as below picture;

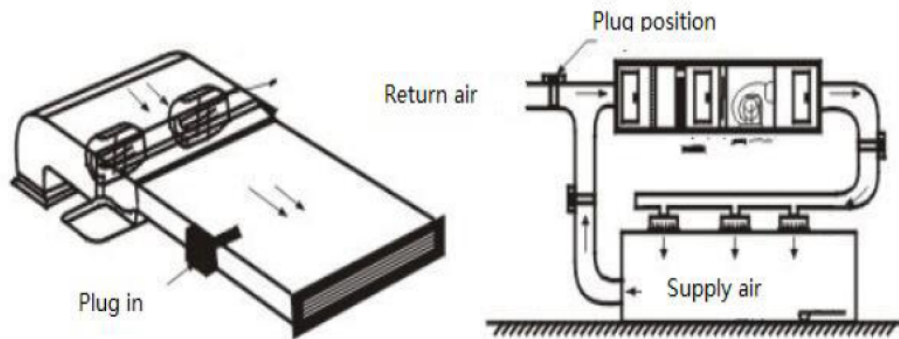
7.1.3 Firstly, the position of the four fixing holes is measured in the air duct, and then the hexagonal drill-tail screw is mounted on the air duct with the impact drill and the hexagonal drill-end screw sleeve is fixed;

7.1.4 Connect the power wire of device with power supply;

7.1.5 The device is powered on, and the Lamp is working that the device is working properly.

7.1.6 Press the "ON/OFF" button again to shut down the device and the installation is completed.

### Plug-in PHT



## 8.Operating Instructions


8.1 Connect the device power cable to a 220V to 50Hz/60Hz power supply.

8.2 The lights working to indicate that the device is working properly.

8.3 If the UV-Lamp is off, the device is faulty or has no power.

## 9.Precautions For Use

9.1 This device should be placed in a clean, dry, non-flammable, explosive, chemical-free gas pipeline environment.

9.2  Caution:When the machine malfunctions, it should stop working, and should be handled by professionals. After it is solved, it can work.

9.3 Before cleaning and repairing the machine, first to pull out the plug.

After wiping the device with a clean damp cloth, wipe it off with a clean dry cloth. Do not use gasoline, solvents, pesticides or other chemical agents to wipe the device, otherwise it will cause damage to machine and occur security incident.

9.4 If the device need to be keep for a long time, then unplug the power supply and cover it.

## 10.Maintenance

### 10.1 Photocatalysis filter mesh

Under normal use environment, clean every 3 to 6 months ( $\leq 1000$  hours) (the frequency of cleaning can be adjusted according to the working environment and frequency).

### 10.2 UV lamp

Under normal use environment, wipe the surface of the lamp with a clean cloth every 6 to 12 months. The UV lamp is obviously dark and needs to be replaced with a UV lamp. Otherwise, the disinfection effect will be achieved.

10.3 After the product is reset and the check is confirmed, the power supply can be connected.

10.4 Note: The above parts are not regularly cleaned and overdue use, otherwise it will influence the disinfection effect.

## 11.Troubleshooting

If there is faulty, should immediately turn off the power and pull out the plug. Please check the following troubleshooting before contacting the local service department.

Faulty	Analysis	Solution
Low Air circulation	1.Surface filled dust.	1. Clean surface.
lamp isn' t light	1.Check plug.	1. Plugged in.
	2.Ballast damaged.	2.Replace Ballast.
	3.UV lamp isn' t light.	3.Replace UV lamp.

## 12.Dimension Diagram

