

Wallpur^{U33}

Single Side UVC Upper Air Purification Device



Working Principle

There is an UV upper-air purification device inside, which forms a upper-air purification layer in the space. The fan inside the device causes the indoor air convection effect, and the bacteria and viruses floating in the air are raised to the UV upper-air purification layer, and can be purified there.

Applicable: Most indoor places like Office, Food shop, Hotel, Hospital, School, Bank, Toilet, Etc.

Product Features

- Built-in fan forced convection to increase the purifying rate per unit time;
- Ultraviolet purification on the upper floor, the upper space is purified and commercial activities can continue below;
- UV light has been shown to be effective in purifying the pathogens tested;
- The peak value of short-wave ultraviolet purification is 253.7nm;
- Comply with IEC62471 photobiological safety standard;
- Wall-mounted or ceiling installation;
- PIR sensor.

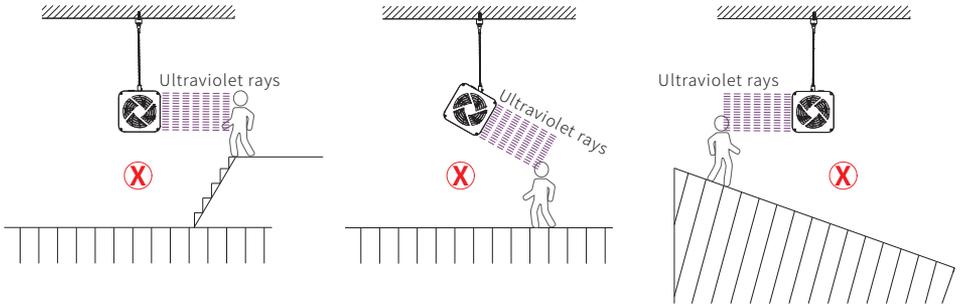
Product Specification

Dimensions	804*140*140mm	Tube type	75W H type quartz UV-C tube
Input voltage	100-277V AC	Air volume	76.4CFM
Input frequency	50/60HZ	Installation	Wall-mounted or ceiling
Power	85W±13W	Operating temperature	-5°C~+40°C
UV tube quantity	1PCS	purification(1 meter distance)	170μW/cm ² (Ambient temperature 25°C)
UV Tube life span	>8000h	Installation height	≥2.3M

Installation Precautions

- Cut off the power supply before installation, make sure the switch is turned off to prevent electric shock, and do not touch the surface of the lamp after the lamp is on. This lamp should be avoided to be installed in places with heat sources and hot steam and corrosive gases, so as not to affect the lifespan.
- Install in a upper-air place with no vibration, no swing and no fire hazard, pay attention to falling from high altitude, collision with hard objects, knocking.
- Minimum Installation height ≥2.3M.
- Upper air level at 2.1M, with UVC radiation in the range of a 10M diameter, please be cautious to the circumstance when installation.
- purification lamps must be installed by professionals.
- The top of the wall should be able to withstand 24KG tensile force.
- If it is not used for a long time, the lamps should be stored in a cool, dry and clean environment. It is forbidden to store and use them in humid, high temperature or flammable and explosive places.

Installation Precautions

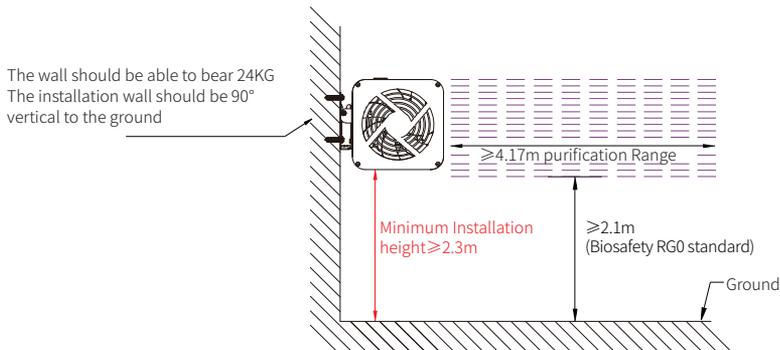


Installation Method 1 (Wall-mounted)

Parts Required:

- 2 PCS back mounting brackets;
- 2 PCS installation backboard;
- 6 PCS PB4*25mm Phillips round head self-tapping screws;
- 6 PCS Plastic Expansion Plugs ;
- 6 PCS PM4*10mm Phillips round head machine screws.

Installation diagram:

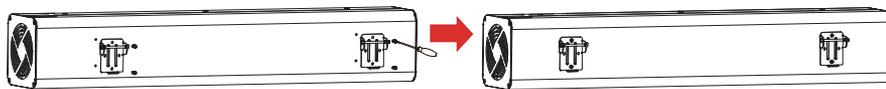


Test value of ultraviolet irradiance in the range of 0.5m~5m:

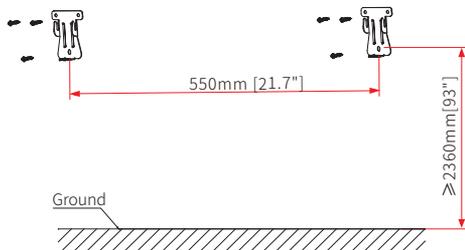
U33 Ultraviolet spectrum irradiance test value										
Test distance(m):	0.5m	1.0m	1.5m	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m
Value($\mu\text{w}/\text{cm}^2$):	665.8 $\mu\text{w}/\text{cm}^2$	170 $\mu\text{w}/\text{cm}^2$	82.5 $\mu\text{w}/\text{cm}^2$	48.2 $\mu\text{w}/\text{cm}^2$	29.1 $\mu\text{w}/\text{cm}^2$	20 $\mu\text{w}/\text{cm}^2$	15.3 $\mu\text{w}/\text{cm}^2$	10.8 $\mu\text{w}/\text{cm}^2$	8.9 $\mu\text{w}/\text{cm}^2$	7.5 $\mu\text{w}/\text{cm}^2$

Note: This data comes from a third-party laboratory, the data is for reference only.

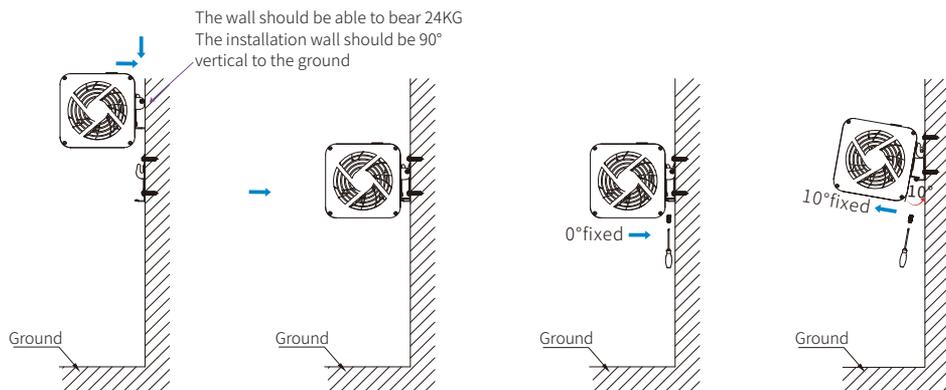
Installation Method 1 (Wall-mounted)



Step 1: Fix the hardware back bracket to the back of the lamp with screws and fix it firmly;



Step 2: Lock the hardware installation backboard on the wall and make the center distance between the two backboards 550mm, the height of the lamp to the ground $\geq 2.3\text{M}$ (2360mm);



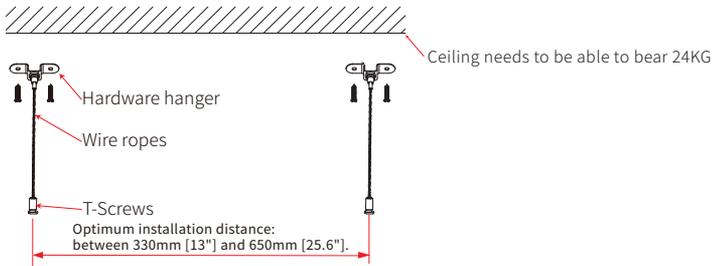
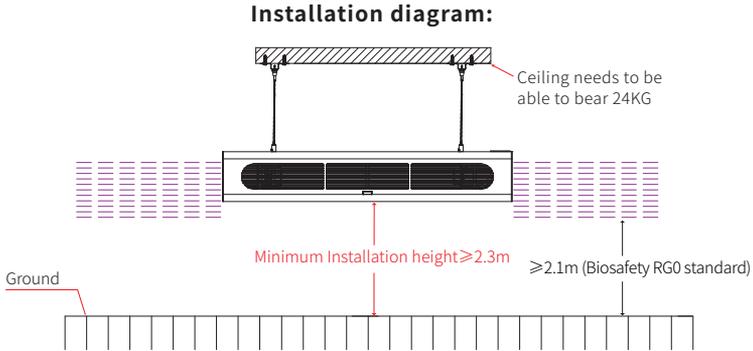
Step 3: Place the back of the light fixture against the wall in a direction from top to bottom until the cross bar of the back bracket falls into the groove of the installation backboard;

Step 4: Screw in the adjustable angle screw, adjust the lamp to the ideal angle, and then turn on the power to work after tightening the screw.

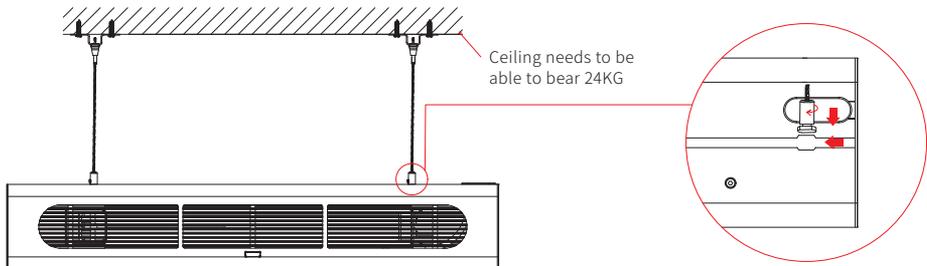
Installation Method 2 (Ceiling Installation)

Parts Required:

- 2 PCS wire ropes;
- 2 PCS T-screws;
- 4 PCS PB4*25mm Phillips round head self-tapping screws;
- 4 PCS Plastic Expansion Plugs (Gecko).



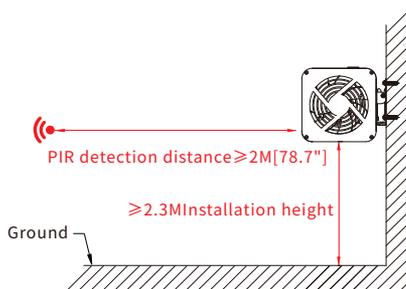
Step 1: Lock the hardware hanger on the ceiling. The optimum installation distance is between 330mm [13"] and 650mm [25.6"], and adjust the length of the wire rope, the installation height is $\geq 2.3m$.



Step 2: place the T shape heads of the rope inside the fixture, adjust them to a reasonable places, fasten the screw and it will be ready for power on.

Description Of The PIR Sensor Function

- PIR indicator "blue light" is always on after power on.
- PIR indicator flashes every 1s when the PIR detects people, the corresponding fan and UVC lamp stop working. After detecting no one within 2 minutes, the light and fan will be turned on automatically. If PIR detects people within two minutes after the light is turned off, and the 2-minute countdown needs to be recalculated. When the UVC lamp is turned off or damaged, the PIR indicator "blue light" goes out.
- PIR detection distance 2m.



Recommended application, purification volume & time:

Type	Space	Bacteria	Killing time (h)
Purification Volume (m ³)	52m ³	Natural Bacteria	>2h
Purification Area (m ²)	20m ² (Irradiation size 4.8*4.17m)	Natural Bacteria	>2h

Note: Based on wall mounting installation in enclosed space, for detailed specs, please refer to the exact application; It is recommended to keep this device on always to purify the air.

Quality Assurance

1. The warranty of the device is 3 years from the date of purchase, and the WARRANTY of the UVC tube is 1 year. If the device is damaged due to the manufacturing process, technology, components and other products themselves, it's also free warranty service.
2. Paid service is available for the following cases:
 - Expiry;
 - Damage caused by the improper use such as improper installation without reference on the manual, shipping or other accidents, disaster, abnormal voltage, etc.
 - Normal aging and abrasion.

Safety Precaution

- UV-C product, as a device in the application site, shall meet the relevant installation and operation requirements of such products in the application site in addition to meeting all the safety precautions specified in the product installation instruction and operation guide.
- UV-C tube contains mercury, in case of accidental broken, it should be ventilated for 30 minutes, should put on gloves to remove debris, put in sealed plastic bags, bring it to the local waste disposal point for safe treatment do not use a vacuum cleaner.
- The lamps shall be installed by a qualified electrician and the wiring connecting shall meet IEE electrical standards or local special requirements.
- When installing or maintaining a luminaire, using ESD gloves to avoid marks on the luminaire
- To remove dirt and spots, using the following methods:
 - Dust: Use fleece free fabric only.
 - Fingerprint: using detergent made of synthetic materials with antistatic properties.

Disclaimer

1. The ultraviolet rays of this product cannot be used for lighting purposes and in applications or activities which may cause and or lead to death, personal or animals injury and/or damage to the environment.
2. UV-C luminaires systems must only be sold and installed and replaced by professionals according to our stringent safety and legal requirements.
3. When using this UVC product for indoor, please close the doors and windows, keep the room clean and dry, and reduce dust and moisture.
4. When UVC is irradiated on the object for a long time, it will cause irreversible damage to the object that is not UV resistant, and the object may undergo chemical or physical changes, such as the plastic items that are not UV resistant will become brittle and breakable. When using this UVC product, if there are UV-sensitive items such as oil paintings, plants, and utensils that are within the range of the upper air UV radiation, they should be covered, otherwise, they may be aged or damaged.
5. The installation height of the UVC upper air device should refer to the user manuals and/or the mounting instructions. Within the range of ultraviolet radiation, if the wall or ceiling is a smooth reflective surface (such as mirrors, bright stainless steel, etc.), there is a risk that the ultraviolet rays will be reflected the safety area of below 2.1m.
6. We do not promise or warrant that the use of the Products will protect any user from or prevent infection and/or contamination with any viruses, bacteria, protozoa, fungi, illness or disease.
7. There is high efficiency UVC generating device inside. No disassemble and open it except the professionals, as it may cause injury when ultraviolet rays are directly exposed to eyes or skin. Maintenance personnel need to wear professional uv protection goggles and skin protection before repair.
8. The UVC Products are not intended for and must not be used for medical purposes.
9. In addition to and without limitation of any exclusions or limitations of liability of us as set forth in any agreement for the sale, distribution or otherwise making available of the UV-C lamp/fixture/devices, we shall have no responsibility or liability whatsoever for any claim or damage that may arise from or relate to any use of the UV-C lamp/fixture/devices outside of their intended use or contrary to their installation and operation instructions, each as described in this document, the user manuals and/or the mounting instructions.
10. The product must be designated by the manufacturer's professional and technical personnel, other personnel are not allowed to dismantle or replace without authorization.

Warnings and Safety:

An UV-C lamp/fixture/device product breaking is extremely unlikely to have any impact on your health. If the UV-C quartz tube breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a sealed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.

WARN:

1. Ultraviolet rays are harmful to humans or animals. Do not directly irradiate the skin or eyes. Please leave the irradiation sterilization area as soon as possible after lighting.
2. If you feel uncomfortable when exposed, please leave the UV light source as soon as possible.
3. In severe cases, headache, dizziness, increased body temperature, stinging eyes or poor vision. If the skin is red, swollen, itchy, and desquamated, please seek medical attention in time.

