

UVDS0001-M - Ultraviolet Steriliser Instruction Manual



The CK1000 instruction manual contains installation guidance, product warnings and service guidance. Please read this instruction manual carefully before use.

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Revisions

The content of this instruction manual may be changed without notice. Please check the website for the latest revision.

Warnings

Please follow this guidance.

This section contains important safety information to prevent injury or property damage to users and others. Please read the text with full understanding of the following content (headings, icons) and be sure to follow the safety rules.

Important Symbols



Warning: Indicates an operation error that may seriously damage the equipment or cause injury to the user and/or others.



Note: Indicates that an operation error may cause injury or material loss to the user and/or others.



UV Hazard - Microwave Leakage Hazard

- When on, the ultraviolet tubes should not be looked at directly without wearing UV certified protective glasses. The ultraviolet rays used within this equipment can damage both the eyes and skin potentially causing serious injury.
- When on, direct exposure (within 10 meters of the equipment) must be avoided. Direct exposure (within 10 meters of the equipment) should also be avoided by other organic matter i.e. plants.
- Do not tear or damage the microwave-shielding net. Tearing or damaging the microwave shielding net will lead to microwave leakage. If the net becomes damaged, please stop using the machine immediately and contact your agent.



Electrical Hazard - Fire Hazard

- Do not dismantle, modify, repair or damage the internal components.
- Incorrect operation may lead to electric shock and an increased fire risk. If a machine fault occurs, immediately isolate the power and contact the local dealer or manufacturer of the equipment.
- Do not store flammable and/or explosive gases in the area in which the equipment is used.



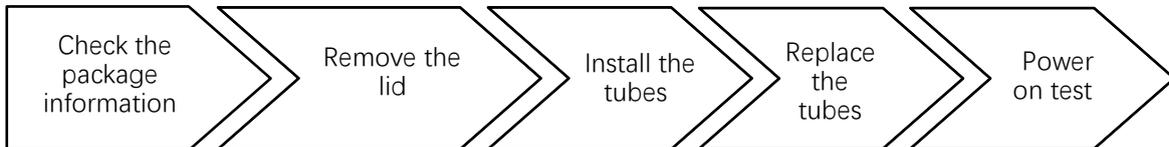
Operation Notes

- Do not replace the power cord without manufacturers approval, do not reduce the length of the power cord and do not use it in parallel with any other electrical appliances.
- Unauthorized replacement, interconnecting or overloading may lead to electric shock or fire.
- If the power cord is damaged, please contact your local dealer or manufacturer to repair it.
- Do not clean the device with water directly on the tubes or inside the cage.
- Do not use the machine in a damp room such as a bathroom or laundry room and do not touch the device with wet hands. The internal components of the device brought into contact with water may lead to leakage. Operation with wet hands may also lead to electric shock.
- When cleaning, ensure the power of the device is turned off and the plug is removed from the socket. If the equipment is not used for a long period of time, please unplug it from the socket. Dust accumulation may lead to leakage, loss, heat, fire, etc.
- Do not use the device to disinfect antique furniture or precious art and do not install the device in ships, vehicles and any other specialised areas/places. If unable to determine, please contact the dealer or manufacturer.
- Do not use non O.E.M tubes in this machine.
- In case of abnormal operation (such as the smell of burning), the machine must be stopped and the power supply isolated. Please contact the manufacturer or contact the local dealer to repair it.
- Do not place any items into the UV chamber or the electrical control box of the device.
- Please ensure there are no pets in the vicinity of this machine when the machine is in use.
- UV may have adverse effects on plants and other organic matter in the vicinity.

- When moving this device, ensure that it is stable and does not topple over.
- If the tube is broken, please ventilate the room (i.e. open the window) and leave the room for 10-15 minutes. Please take care with the broken glass as they will pose a risk of injury. The glass tube tubes contain trace amounts of Mercury!
- The product should be at least 100cm away from the wall, furniture or curtains.
- The nominal voltage range is 220 ± 20 VAC. If the voltage is beyond this range, the machine may not work properly.
- The ambient temperature range is $0\sim 45^{\circ}\text{C}$. The machine may not work properly when the ambient temperature is out of range.
- Do not allow any people or persons to operate the machine without the correct training and PPE.

Installation

Procedure



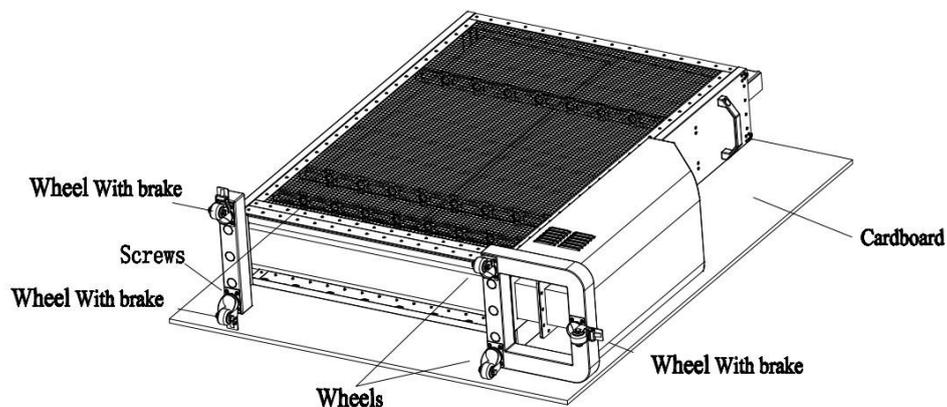
Check the package information

The package information includes the part number, model and serial number of the equipment. If the package is damaged, please reject it and contact the supplier.

Installation Instructions of Wheels

Note: Please lay the equipment flat on the ground before installing.

Note: When installing the equipment's wheels, please distinguish between the wheels with a brake and the wheels without a brake.



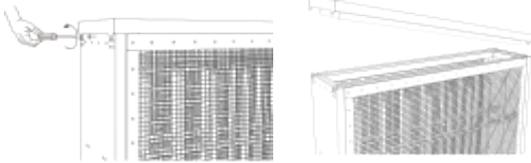
Installation Instructions of Tubes and Top Cover

Note: The tubes are low-pressure liquid mercury quartz tubes and should be handled with care. Beware of breaking the quartz tubes. If broken, protective measures should be taken. Please check Warnings for more details

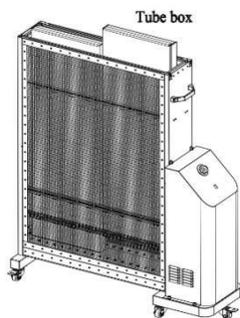
Note: The tubes should not be handled without wearing the cotton gloves supplied.

Installation Procedure

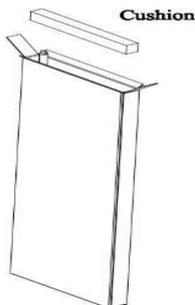
Step 1 - After opening the packaging, unscrew the lid and lift it off the equipment.



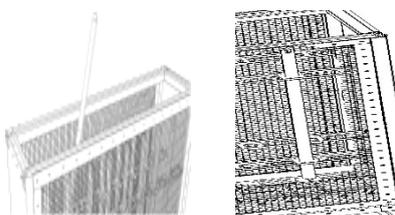
Step 2 - After lifting the lid, take out the tube boxes.



Step 3 - Open the tube box, and gently take out the packaging and tubes.

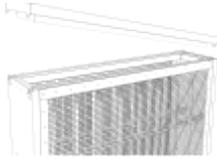


Step 4 - Gently align the 15 tubes and insert them into the upper and lower holes of the frame. Rotate the tubes appropriately during the insertion.



Note: When placing in the tubes, ensure the crimped end is facing upwards and the smooth end is facing down.

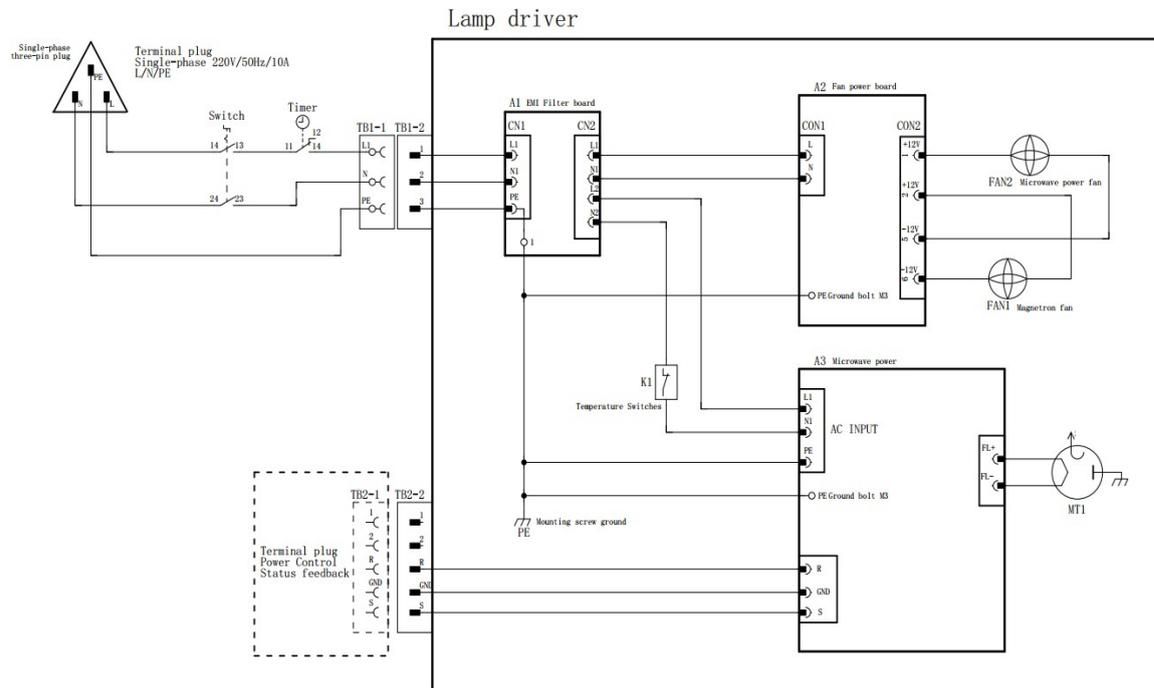
Step 5 – Place the lid back onto the equipment and screw it down.



Take Power-on Test

Note: When carrying out this test, ensure UV protective glasses or a full face mask is worn to avoid direct eye contact with the UV lamp. Please do not operate the equipment without reading the operation instructions in detail. After powering on, due to the influence of ambient temperature and humidity, it is normal for 1~2 UV tubes to start belatedly. If most of the tubes have not activated normally, please isolate the machine and contact the manufacturer.

Circuit Diagram



Operation :

Timer: Used for controlling the working time of the steriliser. After the time is up, the device will stop automatically with an internal bell sounding the end of the operation.

Power button: Used for the on/off operation of the steriliser.

Before operation, ensure 15 tubes are installed in place, and the 4 screws of the lid must be tightened!

Set a timer and press the power button. The cooling fan starts (the UV lamp will light up after 12 seconds). The operator must leave the room immediately, prior to the operation of the lamps.

Product information

Product structure and the names of components



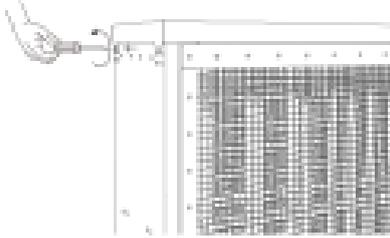
1.	Timer
2.	Power button
3.	Vent
4.	Wheel
5.	Grip
6.	Lid
7.	Electrodeless UV tubes
8.	Microwave-shielding net

Cleaning

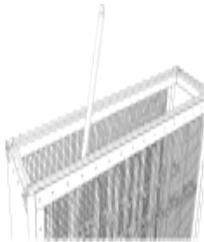
Before cleaning, power off the device and unplug it. Take out the UV tubes with the cotton gloves provided and wipe the surface of the tubes with a soft cloth and a small amount of water or alcohol cleaner. After cleaning, ensure they are full dry before placing them back into the machine.

Note: The tubes should not be handled without wearing the cotton gloves provided.

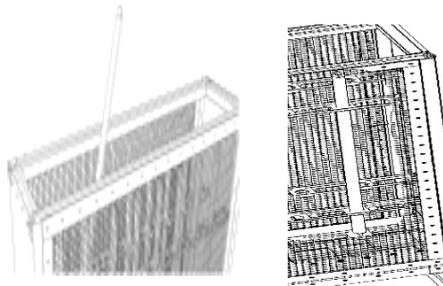
Step 1 - Unscrew the lid and lift it off the equipment.



Step 2 - Take out the tubes, using the cotton gloves provided.

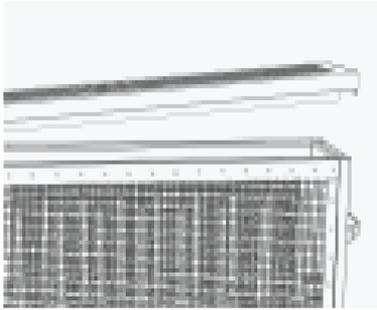


Step 3 – Gently, wipe the surface of the UV tubes with a soft cloth and a small amount of water or alcohol cleaner. Ensure the tubes are fully dry and gently align and insert them into the upper and lower holes of the frame. Rotate the lamp tubes appropriately during insertion.



Note: When placing the tubes, pay attention to the direction of tubes. Ensure the crimped end is facing upwards and the smooth end is down.

Step 5 - Place the lid back onto the equipment and screw it down.



Storage

This machine can be stored in its original packaging for up to 5 years.

Technical Specifications

Max effective area	≤150m ³
Noise	≤55dB(A)
Input power	1300W
Rated power	≤1.28KW
Antibacterial rate D	95%-100%
Wavelength	253.7nm
Type of ultraviolet tube	Electrodeless Ultraviolet Tube - 0.9m in length - 19mm in diameter
Manner of powering Tube	2450MHz Microwave
Size	1060mm×320mm×1350mm
UVC radiation intensity of per tube	≥107μw/cm ²
Input voltage	200V-240V, 47Hz-63Hz
Tube quantity	15
Net Wt	37 Kgs