

PHILIPS UVCC090 36W UVC Disinfection Chamber Instructions

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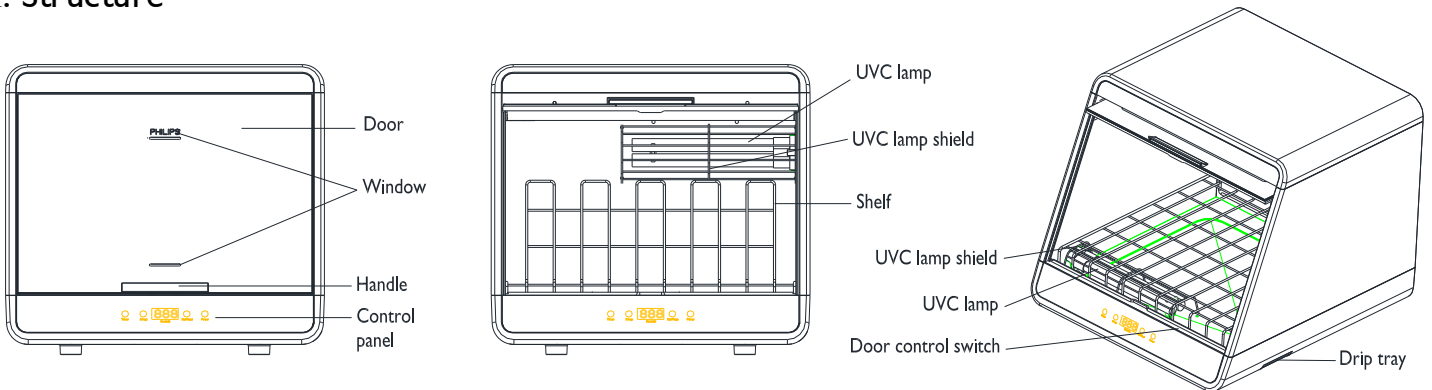
Standard : IEC60335-1

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I. Technical Parameters

Model	UVCC090 UVCC090 36W XX(01~20)
Dimensions	470*440*400mm
Volume	48L
Weight	9.4kg
Power	36W
Input Voltage	220-240V~
Frequency	50-60Hz
Fuse Protection	5A, 250V~
Disinfection Method	253.7 nm, UVC
Operating Temperature Range	10-40°C
Storage Temperature Range	-20-60°C
Ambient Humidity Range	10%-90%
UV Risk Group	The risk group of ultraviolet radiation in the disinfection chamber is RG3, and the outside of the chamber is RG0

II. Structure



III. Product Installation

• Preparation and inspection before installation :

1. The installation position must be more than 30cm away from gas appliances, electric heating appliances or other heat sources, or separated by board.
2. Before installation, the strength and surface flatness of the installation place must be checked, and the skew and dislocation of the chamber door shall not appear.
3. It shall be installed in the place that can bear the weight of the chamber.
4. When installing, carefully check other factors that may cause the chamber to have malfunctions or accidents.
5. Impulse current is about 5 amperes, please check electrical capacity.

• WARNING :

1. Please ground reliably so as not to cause electrical shock accidents caused by poor grounding.
2. Make sure to disconnect the power supply before you move the disinfection chamber.

IV. Instructions for use

- **Scope of application:**




Non-medical use. Hard surface of non-medical products, such as mobile phone, mouse of laptop, keyboard...,etc.

- **Precautions for Use**

1. Take off all packaging material inside the chamber before use;
2. In the process of disinfection, If you need to open the door, please press the “stop” button before open;
3. The UV light cannot reach the contact part between the item's lower surface and the tray. If the bottom of the item needs to be completely disinfected, please flip the item up and down once.

- **Requirements for object placement and disinfection plan**

1. Keep a distance of at least 50 mm between the object and the lamp tube, and make sure every surface of the object is exposed to ultraviolet light;
2. Objects shall not be stacked, and a gap of more than 60 mm shall be maintained between the objects;
3. Do not put wet objects or object with spilled liquids into the disinfection chamber;
4. The disinfection scheme of objects shall be based on the quantity and size of the objects and choose the corresponding placing plan and disinfection time. See the below table for details.

Scenario	Min UV irradiance	4LOG disinfection time	Precaution	Illustration
One small box (100mm*100mm*100mm)	0.96w/m2 (96uw/cm2)	300sec	The object are at least 100mm to left/right sides, 50mm to front/back side.	
One big box (200mm*200mm*150mm)	0.5w/m2 (50uw/cm2)	600sec		
3 small box (70mm*100mm*70mm)	0.4w/m2 (40uw/cm2)	600sec	Object to object side keep distance 50mm.	

- **Normal disinfection procedures are as follows**

1. Make sure the power plug is plugged properly;
2. Open the chamber door, put the objects into the disinfection chamber, and place the objects according to the use manual;
3. Press “Power”button
4. Press the Timer to set the disinfection time according to above disinfection table;
5. Press the Start button for disinfection. Time for disinfection counts down as seconds;
6. During the disinfection process, the remaining time of the disinfection process can be seen through the timer. At the same time, the specific situation in the disinfection chamber can be seen through the perspective window on the door to confirm that all the lamps are working functionally (the perspective window can completely isolate ultraviolet radiation, and there is no need to worry that ultraviolet radiation will penetrate the perspective window);
7. When the timer returns to zero, the whole disinfection process is finished;
8. Take out the objects and close the chamber door, and prepare for the next disinfection.

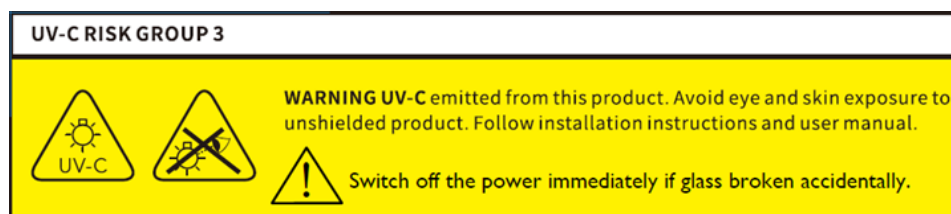
- **Solution to the lamp tube breakage**

In case of accidental breakage of the lamp tube, it shall be ventilated for 30 minutes first. Please remove the debris with gloves, put it in a sealed plastic bag and take it to a local waste disposal site for safe disposal.

V. Precautions

WARNING:

- Do not operate the UV-C lamp when it is removed from the appliance enclosure.
- Precautions to be taken when replacing **UV-C lamps** and starters.
- This appliance contains a **UV-C lamp**.
- Unintended use of the appliance or damage to the housing may result in the escape of dangerous UV-C radiation. UV-C radiation may, even in little doses, cause harm to the eyes and skin.
- Appliances that are obviously damaged must not be operated.
- Read the maintenance instructions before opening the appliance.
- The appliance must be disconnected from the supply before replacing the **UV-C lamp**.



1. Our UV-C Products are not meant to be used in applications or activities which may cause and/or lead to death, personal injury and/or damage to the environment.
2. This UV-C product is not approved and/or certified as a medical device.
3. The UV-C of this product is much stronger than normal sunlight. If you're exposed to UV-C light, it will cause a severe sunburn on your skin, which can also damage your retina.
4. Materials that are exposed to UV-C for a long time may become damaged and/or discoloured.
5. Do not put valuables, such as calligraphy and painting, antiques, etc. into the disinfection chamber for disinfection. Signify is not responsible for any related damages.
6. Children shall be supervised to ensure that they do not play with the appliance. And do not put people, animals or plants in the chamber.
7. To avoid accidental start of UVC lamps, do not carry magnetics close to the control panel when power is on.
8. Please make sure the glass door is fully closed before start the disinfection.
9. Hard objects are prohibited to collide with the UV lamp tube and its shade.
10. If the UV lamp is damaged, it must be replaced with the Philips lamp tube.(TUV PL-L 18W/4P).
11. Please use the socket with rated current above 5A and with reliable grounding wire.
12. The power cord is Y-type connection. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
13. If it is found that the light emitted by the ultraviolet light tube can be seen directly through without any object (such as glass broken, etc.), the operation shall be stopped immediately and inform professional maintenance service.
14. If it is found that abnormal smell, high temperature on the housing, noise and smoke), plug must be disconnected and inform professional maintenance service.
15. Do not disassemble and repair without permission. It must be repaired by the manufacturer or its maintenance department and other similar professionals.
16. Do not immerse the disinfection chamber in water or spray water on it.
17. Objects shall be placed on the tray when doing disinfection.
18. The appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

VI. Maintenance

- Do not spray water on the chamber.
- Do not let water in the vicinity of lamp holder.
- Power off during maintenance or cleaning.
- When maintenance or cleaning, open the door completely, then take out the shelf.
- External: the chamber can be cleaned with a wet towel. Strong solvents or detergents are not recommended. But neutral mild cleaners are recommended , no residual cleaners after cleaning.
- Interior: clean the interior walls with ethanol (reagent grade) and soft towel to avoid scratching the surface. Be careful not to spray or apply chemicals directly on the UV lamp tube. This may damage the product.
- Please maintain in strict accordance with the above requirements.

VII. Troubleshooting

Fault Phenomenon	Possible Causes	Processing Method
UVC chamber does not work	Bad contact between plug and socket	Plug in again
	Fuse blow	Change the fuse
	Power cord was broken	Change the power cord
	No electricity in the socket	Check the power supply line
	The door is not closed	Close the door
	The internal components of UVC chamber are damaged	Contact dealer
UVC lamp not work	The lamp tube is damaged	Replace the lamp tube
	The PCB board is damaged	Contact dealer
	Internal wiring problem	Contact dealer
	The ballast is damaged	Contact dealer
Peculiar smell in the disinfection chamber	May have protective oil smell for the first use	Clean the cavity
	The Chamber is not clean	Clean the chamber
The disinfection chamber emits smoke or burning smell	The internal components of chamber are damaged	Contact dealer
Failed to pass UV dose verification	UVC lamp tube aged	Change the lamp tube correctly according to the manual
	Incorrect operation	Follow the instructions correctly

Note: UV lamp and ballast shall be handled according to local laws and regulations. For more information, please visit Signify website.