

## SunSun 50103-04

# SunSun CUV-172 UV-C Lamp Tube 72W Instruction Manual

Model: 50103-04

## INTRODUCTION

This manual provides essential information for the safe and effective use of your SunSun CUV-172 UV-C Lamp Tube. This UV-C lamp is designed as a replacement part for compatible UVC dust clarifiers, primarily used in aquarium or pond water purification systems. It is crucial to understand the proper installation, operation, and maintenance procedures to ensure optimal performance and safety. This lamp is not suitable for household room lighting. The UV tube should be replaced after approximately 6000 operating hours, or ideally every spring, as its intensity diminishes over time, reducing its effectiveness in water purification.

## IMPORTANT SAFETY INFORMATION

- **UV-C Radiation Hazard:** UV-C light is harmful to eyes and skin. Never look directly at an illuminated UV-C lamp. Avoid direct exposure to skin.
- **Power Disconnection:** Always disconnect the power supply to the UVC clarifier unit before performing any installation, maintenance, or replacement procedures.
- **Handling:** Handle the UV-C lamp tube with care. Avoid touching the glass directly with bare hands, as oils can reduce efficiency and lifespan. Use gloves or a clean cloth.
- **Replacement:** Only use genuine SunSun replacement parts or compatible UV-C lamps specified for the CUV-172 model.
- **Disposal:** Dispose of old UV-C lamps according to local environmental regulations, as they may contain mercury.
- **Intended Use:** This lamp is exclusively for use in UVC dust clarifiers for water purification. Do not use for general household lighting.

## PRODUCT OVERVIEW

The SunSun CUV-172 UV-C Lamp Tube is a 72W fluorescent bulb designed to emit germicidal UV-C radiation. This radiation effectively eliminates algae, bacteria, and other harmful microorganisms in pond or aquarium water, contributing to clearer and healthier aquatic environments.



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**Figure 1:** An overview of a SunSun UVC clarifier unit, which houses the CUV-172 UV-C lamp tube. This unit is designed for water purification in aquatic environments.



**Figure 2:** Close-up view of the lamp's base, showing the G13 pins for electrical connection. This base ensures proper seating and power delivery within the UVC clarifier unit.



**Figure 3:** Detailed view of the internal filaments within the UV-C lamp tube. These filaments are crucial for generating the UV-C light when power is applied.



**Figure 4:** An overhead perspective of the lamp's base, clearly showing the arrangement of the four electrical pins. This view helps in identifying the correct orientation for insertion.



**Figure 5:** A side profile of the lamp's base and pins, providing another angle for visual reference during installation.



**Figure 6:** Another close-up of the lamp's internal filaments, emphasizing the delicate structure responsible for UV-C light emission.

## INSTALLATION AND SETUP

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This section details the process of replacing the UV-C lamp tube within a compatible SunSun UVC clarifier unit. Ensure you have the correct replacement lamp (Model: 50103-04, 72W) before proceeding.

1. **Disconnect Power:** Before beginning, always unplug the UVC clarifier unit from the power outlet to prevent electrical shock.
2. **Access Lamp Housing:** Refer to your UVC clarifier's specific manual for instructions on how to safely open the unit and access the lamp housing. This usually involves unscrewing end caps or releasing clips.
3. **Remove Old Lamp:** Carefully grasp the base of the old UV-C lamp and gently pull it straight out from its socket. Avoid twisting or bending the lamp. If the lamp is broken, exercise extreme caution to avoid contact with glass fragments.
4. **Install New Lamp:** Holding the new UV-C lamp by its plastic base (or using gloves/clean cloth to handle the glass), align the four pins with the corresponding slots in the lamp socket. Gently push the lamp straight into the socket until

it is firmly seated. Do not force it.

5. **Secure Housing:** Reassemble the UVC clarifier unit, ensuring all seals and caps are properly secured to prevent water leakage and UV-C light escape.
6. **Reconnect Power:** Once the unit is fully reassembled and secure, plug the UVC clarifier back into the power outlet.
7. **Check Operation:** Verify that the UVC clarifier is operating correctly. Many units have a small indicator light to show the UV-C lamp is functioning.



**Figure 7:** An exploded diagram illustrating the components of a UVC clarifier and how the UV-C lamp tube (Model 50103-04) is inserted into the main unit. This visual aid helps in understanding the assembly process.

## OPERATING INSTRUCTIONS

The SunSun CUV-172 UV-C Lamp Tube operates automatically once installed in a compatible UVC clarifier and the unit is powered on. The lamp emits UV-C radiation as water flows through the clarifier, sterilizing it.

- Ensure the UVC clarifier is properly integrated into your pond or aquarium filtration system.



- Confirm that water is flowing through the clarifier at the recommended rate for your specific UVC unit.
- The UV-C lamp will illuminate when the unit is powered. Do not attempt to view the illuminated lamp directly.
- Allow the UVC clarifier to run continuously for optimal water purification.

## MAINTENANCE

Regular maintenance ensures the longevity and effectiveness of your UV-C lamp and clarifier unit.

- **Lamp Replacement:** The UV-C lamp's effectiveness diminishes over time, even if it still glows. It is recommended to replace the SunSun CUV-172 UV-C Lamp Tube every 6000 operating hours or at least once a year, preferably in the spring before the peak algae season.
- **Quartz Sleeve Cleaning:** The quartz sleeve (if present in your UVC unit) that surrounds the UV-C lamp should be cleaned periodically to remove mineral deposits or algae buildup. A dirty quartz sleeve can block UV-C light, reducing efficiency. Always disconnect power before cleaning.
- **Visual Inspection:** Periodically inspect the lamp and the clarifier unit for any signs of damage, such as cracks in the glass or wear on electrical connections.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
UV-C lamp does not light up.	No power supply, faulty lamp, faulty ballast/starter in the UVC unit.	Check power connection. Ensure the lamp is correctly seated. Replace the lamp. If the issue persists, the UVC unit's ballast or starter may be faulty (consult UVC unit manual or professional).
Water remains cloudy despite UVC clarifier running.	Lamp intensity reduced, dirty quartz sleeve, incorrect flow rate, UVC unit too small for pond/aquarium size.	Replace the UV-C lamp (after 6000 hours or annually). Clean the quartz sleeve. Verify water flow rate. Ensure the UVC unit is appropriately sized for your application.
Water leakage from UVC unit.	Improperly sealed end caps or connections, damaged O-rings.	Disconnect power. Check and tighten all connections and end caps. Inspect O-rings for damage and replace if necessary.

## SPECIFICATIONS

Feature	Detail
Model Number	50103-04
Brand	SunSun
Type	UV-C Fluorescent Lamp Tube
Wattage	72 Watts
Bulb Base	G13
Power Source	Wired
Product Dimensions	3.4 x 2.4 x 41.5 cm

Feature	Detail
Weight	100 g
Intended Use	UVC Dust Clarifiers for Aquarium/Pond Water Purification

## PRODUCT VIDEOS

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### 360 Degree View of SunSun UVC Clarifier Unit

Your browser does not support the video tag.

This video provides a comprehensive 360-degree view of a SunSun UVC Clarifier Unit, which is compatible with the CUV-172 UV-C Lamp Tube. This can be helpful for visual identification and understanding the product's physical characteristics.

## WARRANTY AND SUPPORT

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For specific warranty information regarding the SunSun CUV-172 UV-C Lamp Tube, please refer to the documentation provided with your complete UVC clarifier unit or contact SunSun customer support directly. As a replacement part, its warranty may be tied to the original UVC unit's warranty or have a separate limited warranty.

If you require assistance with your SunSun product, including troubleshooting or identifying compatible spare parts, please contact the manufacturer or your retailer. They can provide expert guidance and support.

