

SunSun CUV-624

SunSun CUV-624 UV Lamp 24W Sterilizer UV-C Tube Instruction Manual

Model: CUV-624 (Part Number: 50187-01)

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your SunSun CUV-624 UV Lamp 24W Sterilizer UV-C Tube. This UV-C lamp is a replacement part designed for the SunSun CUV-624 sterilizer, crucial for maintaining clear pond water and controlling algae growth.

The targeted UV-C radiation effectively destroys algae proteins and prevents their long-term growth, significantly contributing to water clarification. Please read these instructions carefully before installation and operation.

2. SAFETY INSTRUCTIONS

- **UV-C Radiation Hazard:** Never look directly at the illuminated UV-C lamp. UV-C radiation is harmful to eyes and skin.
- **Electrical Safety:** Always disconnect the power supply to the UV sterilizer before handling or replacing the UV lamp.
- **Fragile Component:** The UV-C tube is made of glass and is fragile. Handle with extreme care to prevent breakage.
- **Intended Use:** This lamp is designed exclusively for use in SunSun UV pond sterilizers. Do not use for any other purpose.
- **Disposal:** Dispose of old UV lamps according to local environmental regulations, as they may contain mercury.
- **Children and Pets:** Keep the UV sterilizer and replacement lamps out of reach of children and pets.

3. PRODUCT COMPONENTS

The SunSun CUV-624 UV Lamp is a specialized UV-C tube with a 4-pin base, designed for easy

replacement in compatible sterilizers.



Figure 3.1: The SunSun CUV-624 UV-C lamp, showing its clear glass tube and 4-pin electrical connector base.



Figure 3.2: A detailed view of the 4-pin connector at the base of the UV-C lamp, ensuring proper electrical contact within the sterilizer unit.

4. SETUP AND INSTALLATION (LAMP REPLACEMENT)

This section details the process of replacing an old UV lamp with a new SunSun CUV-624 UV-C tube. Always ensure the sterilizer unit is disconnected from the power supply before beginning.

1. **Disconnect Power:** Unplug the UV sterilizer from the electrical outlet.
2. **Disassemble Sterilizer:** Carefully open the UV sterilizer housing according to its specific model instructions. This typically involves unscrewing end caps or releasing clamps.
3. **Remove Old Lamp:** Gently pull out the old UV-C lamp from its socket. Be cautious as the old lamp may be hot or broken.
4. **Inspect Quartz Sleeve:** Check the quartz sleeve (the clear glass tube surrounding the UV lamp) for any cracks, damage, or excessive mineral deposits. Clean it if necessary. Replace if damaged.
5. **Insert New Lamp:** Carefully insert the new SunSun CUV-624 UV-C lamp into the socket, ensuring the 4 pins align correctly with the receptacle. Do not force it. Avoid touching the glass part of the lamp with bare hands; use gloves or a clean cloth to prevent oil residue.
6. **Reassemble Sterilizer:** Securely reassemble the UV sterilizer housing, ensuring all seals and

connections are tight to prevent water leaks.

7. **Reconnect Power:** Once fully reassembled and secured, plug the UV sterilizer back into the electrical outlet.



Figure 4.1: An exploded diagram illustrating the components of a UV sterilizer, highlighting the position of the UV-C lamp (part number 50187-01) and its connection point for replacement.

5. OPERATION

After successful installation of the new UV lamp and reassembly of the sterilizer, the unit is ready for operation. The UV-C lamp will emit ultraviolet light to treat the water flowing through the sterilizer.

- **Power On:** Ensure the sterilizer is properly connected to the pond filtration system and then plug it into a suitable power source.
- **Indicator Light:** Many UV sterilizers have an indicator light to show that the UV lamp is functioning. Verify this light is on.
- **Continuous Operation:** For optimal water clarity and algae control, the UV sterilizer should operate continuously during daylight hours or as recommended by your pond system's guidelines.

6. MAINTENANCE

Regular maintenance of the UV lamp is crucial for the effective performance of your sterilizer.

- **Lamp Replacement Schedule:** To ensure optimal UV-C lamp efficiency, it must be replaced after approximately 6,000 hours of operation. This typically translates to an annual replacement, ideally in spring, to maintain the performance of your pond clarifier.
- **Quartz Sleeve Cleaning:** Periodically inspect and clean the quartz sleeve to remove any buildup that might block UV-C light transmission. Use a soft cloth and a mild cleaning solution if necessary.
- **Visual Inspection:** Regularly check the sterilizer unit for any signs of leaks, damage, or wear.

7. TROUBLESHOOTING

If your UV sterilizer is not functioning as expected, consider the following common issues:

- **Lamp Not Lighting:**
 - Check if the power cord is securely plugged into the outlet.
 - Verify that the power outlet is functional.
 - Ensure the UV lamp is correctly seated in its socket.
 - The lamp may have reached the end of its lifespan and requires replacement (refer to Section 6).
 - Inspect the ballast or power supply unit for damage (if accessible and safe to do so).
- **Water Not Clearing:**
 - Confirm the UV lamp is lit and functioning.
 - Check if the lamp needs replacement due to age (reduced UV output).
 - Ensure the quartz sleeve is clean and free of obstructions.
 - Verify that the water flow rate through the sterilizer is appropriate for its capacity.
 - Consider other factors affecting water clarity, such as filtration, water parameters, and nutrient levels.

8. SPECIFICATIONS

Product Dimensions (L x W x H)	2.5 x 1.7 x 33 cm
Weight	80 grams
Part Number	50187-01
Material	Glass
Manufacturer	SunSun
Country of Origin	China

9. WARRANTY AND SUPPORT

This UV lamp is a consumable part and typically does not come with an extended warranty beyond initial functionality. For specific warranty information regarding the UV sterilizer unit itself, please refer to the manual provided with the sterilizer.

If you require assistance with SunSun products or have questions regarding this replacement lamp, please

contact SunSun customer support or the retailer from whom you purchased the product. They are ready to assist you.

You can visit the official SunSun store for more information and products:[SunSun Store](#)