

SunSun CUV-618

SunSun CUV-618 18W UV Lamp Replacement Bulb Instruction Manual

Model: CUV-618 | Brand: SunSun

1. INTRODUCTION

This instruction manual provides essential information for the safe and effective replacement of the SunSun CUV-618 18W UV lamp. This UV-C lamp is specifically designed as a spare part for SunSun UV sterilizers used in pond and water garden applications. Regular replacement of the UV lamp is crucial for maintaining the sterilizer's optimal performance in controlling algae and clarifying pond water.

2. SAFETY INFORMATION

- **UV-C Radiation Hazard:** This product emits UV-C radiation, which is harmful to skin and eyes. Never look directly at the illuminated lamp.
- **Disconnect Power:** Always disconnect the UV sterilizer from the power supply before attempting any installation, maintenance, or replacement procedures.
- **Handle with Care:** UV lamps are made of glass and can break easily. Handle the lamp carefully to avoid injury and damage.
- **Intended Use:** This lamp is designed exclusively for use in SunSun UV pond sterilizers. Do not use it for general household lighting or other purposes.
- **Disposal:** Dispose of old UV lamps according to local environmental regulations, as they may contain mercury.

3. PRODUCT OVERVIEW

The SunSun CUV-618 is an 18W UV-C lamp, a critical component for your pond's UV sterilizer. It emits targeted UV-C radiation that effectively destroys algae proteins and inhibits their growth, significantly contributing to clear pond water. This replacement bulb ensures your sterilizer continues to operate at peak efficiency.



This image displays the transparent glass tube of the CUV-618 UV lamp, revealing the internal filaments that produce UV-C radiation.

4. SPECIFICATIONS

Model	CUV-618
Power	18 W
Dimensions (L x W x H)	2.6 x 4.7 x 24 cm
Weight	60 grams
Average Lifespan	6000 hours
Luminous Flux	1600 lumen
Bulb Base Type	4-pin base (as shown in images)
Color	Transparent
Usage Environment	Outdoor (for pond sterilizers)

5. INSTALLATION AND REPLACEMENT

Follow these steps to safely replace your UV lamp:

1. **Disconnect Power:** Ensure the UV sterilizer is completely disconnected from the main power supply before proceeding.
2. **Access the Lamp Housing:** Refer to your specific UV sterilizer's manual for instructions on how to open the housing and access the UV lamp.
3. **Remove Old Lamp:** Carefully grasp the base of the old UV lamp and gently pull it straight out from its socket. Avoid twisting or bending the lamp.
4. **Insert New Lamp:** Align the 4 pins of the new CUV-618 UV lamp 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:** Close and secure the lamp housing according to your sterilizer's instructions. Ensure all seals are properly in place to prevent water ingress.
6. **Reconnect Power:** Once the lamp is securely installed and the housing is closed, you may reconnect the UV sterilizer to the power supply.



This image illustrates the components of a SunSun UV sterilizer, highlighting the position and connection points for the CUV-618 UV lamp. It shows how the lamp fits into the sterilizer unit.



A detailed view of the 4-pin connector base of the CUV-618 UV lamp, essential for proper electrical connection within the sterilizer.



This image shows the CUV-618 UV lamp being carefully guided into its housing within the UV sterilizer, demonstrating the installation step.

6. OPERATION

The CUV-618 UV lamp operates automatically once installed correctly within a compatible SunSun UV sterilizer and the sterilizer is powered on. The lamp emits UV-C light as water flows through the sterilizer, neutralizing harmful microorganisms and preventing algae growth. There are no direct user operational controls for the lamp itself.

7. MAINTENANCE

To ensure the continuous effectiveness of your UV sterilizer, regular maintenance of the UV lamp is essential:

- **Replacement Schedule:** The optimal efficiency of the UV-C lamp diminishes over time. It should be replaced after approximately 6,000 operating hours.
- **Annual Replacement:** To maintain consistent performance of your pond clarifier, it is recommended to replace the UV lamp annually, ideally at the beginning of spring.
- **Quartz Sleeve Cleaning:** Periodically clean the quartz sleeve (if applicable to your sterilizer model) that surrounds the UV lamp to ensure maximum UV light penetration. Always disconnect power before cleaning.

8. TROUBLESHOOTING

- **Lamp Not Lighting:**
 - Ensure the sterilizer is properly connected to a power source.
 - Verify that the UV lamp is correctly seated in its socket with all 4 pins aligned.
 - Check for any visible damage to the lamp or its electrical connections.
 - If the lamp has exceeded its 6000-hour lifespan, it may have failed and requires replacement.
- **Reduced Sterilizer Effectiveness (e.g., persistent algae):**
 - The UV lamp's intensity decreases over time. If the lamp has been in use for more than 6000 hours or for over a year, replace it.
 - Ensure the quartz sleeve is clean and free of deposits that could block UV light.

9. SUPPORT

If you require assistance with SunSun products or have further questions regarding the CUV-618 UV lamp, please contact SunSun customer support. We are ready to help you.

Information regarding the availability of spare parts beyond the UV lamp is not provided.