

## SunSun 50101-09

# SunSun Quartz Glass Sleeve A for CUV-224 Sterilizer

Model: 50101-09

## 1. INTRODUCTION

This manual provides instructions for the replacement of the SunSun Quartz Glass Sleeve A, model 50101-09, designed for the SunSun CUV-224 pond sterilizer. This sleeve is a critical component that protects the UV lamp from water while allowing UV light to pass through, ensuring effective water clarification in your pond system. Proper installation and maintenance are essential for the sterilizer's performance and longevity.

## 2. SAFETY INSTRUCTIONS

Please read and understand all safety instructions before attempting to replace the quartz glass sleeve. Failure to follow these instructions may result in injury or damage to the product.

- **Always disconnect power:** Before performing any maintenance or replacement on the UV sterilizer, ensure it is completely disconnected from the power supply.
- **Handle with care:** The quartz glass sleeve is fragile. Handle it carefully to prevent breakage. Avoid dropping or subjecting it to impact.
- **UV radiation hazard:** UV lamps emit harmful UV-C radiation. Never operate the UV lamp outside of its protective housing or look directly at a lit UV lamp. Exposure can cause severe eye and skin damage.
- **Water leakage prevention:** Ensure all seals and O-rings are correctly seated and tightened during reassembly to prevent water leaks. Water and electricity are a dangerous combination.
- **Keep dry:** Ensure the electrical connections and UV lamp are completely dry before reconnecting power.

## 3. PRODUCT OVERVIEW

The SunSun Quartz Glass Sleeve A (Model 50101-09) is specifically designed as a direct replacement part for the SunSun CUV-224 UV sterilizer. It is manufactured from high-quality quartz glass, which offers excellent transparency to UV-C radiation, ensuring maximum efficiency of your sterilizer's UV lamp. The sleeve acts as a barrier, protecting the delicate UV lamp from direct contact with pond water while allowing the germicidal UV light to penetrate and clarify the water.



Image: The SunSun Quartz Glass Sleeve A, a transparent cylindrical glass tube with a slightly flared end, ready for installation.

50101-09



Image: Close-up view of the end of the quartz glass sleeve, highlighting the smooth, clear glass and the precise manufacturing of the rim.

#### 4. INSTALLATION GUIDE

Follow these steps carefully to replace the quartz glass sleeve in your SunSun CUV-224 sterilizer.

1. **Disconnect Power:** Unplug the UV sterilizer from the electrical outlet.
2. **Drain Water:** Disconnect the sterilizer from your pond's filtration system and drain all water from the unit.
3. **Access UV Lamp:** Carefully open the sterilizer housing according to your CUV-224 sterilizer's main instruction manual. This usually involves unscrewing end caps or clamps.
4. **Remove Old Components:** Gently remove the old UV lamp and the damaged quartz glass sleeve. Dispose of the old lamp and sleeve responsibly.
5. **Clean Housing:** Inspect the interior of the sterilizer housing for any debris or mineral buildup. Clean if necessary, ensuring no residue remains.
6. **Insert New Sleeve:** Carefully slide the new SunSun Quartz Glass Sleeve A (Model 50101-09) into its designated position within the sterilizer housing. Ensure it is seated correctly and securely.
7. **Install UV Lamp:** Insert the new UV lamp (not included with this sleeve) into the center of the new quartz glass sleeve. Ensure the lamp is fully seated in its electrical connector.
8. **Reassemble:** Reassemble the sterilizer housing, ensuring all O-rings and seals are properly in place and

not pinched. Tighten all caps or clamps securely to prevent leaks.

9. **Reconnect and Test:** Reconnect the sterilizer to your pond's filtration system, ensuring water flow is established. Then, plug the sterilizer back into the electrical outlet. Check for any leaks immediately.



Image: Exploded view of the SunSun CUV-224 sterilizer, illustrating the position of the quartz glass sleeve (labeled 50101-09) and other components for proper assembly.

## 5. MAINTENANCE

---

To ensure optimal performance of your UV sterilizer, regular cleaning of the quartz glass sleeve is recommended. Over time, mineral deposits or algae can accumulate on the sleeve, reducing the effectiveness of the UV light.

- **Cleaning Frequency:** Inspect the sleeve every 3-6 months, or more frequently if you notice reduced water clarity.
- **Cleaning Procedure:** Disconnect power and drain the sterilizer as described in the installation steps. Carefully remove the quartz glass sleeve. Gently wipe the sleeve with a soft cloth or sponge. For stubborn deposits, use a mild cleaning solution such as a diluted vinegar solution or a specialized UV sterilizer cleaner. Rinse thoroughly with clean water before reinstallation.
- **Avoid Abrasives:** Do not use abrasive pads or harsh chemicals, as these can scratch the quartz glass and impair UV light transmission.

## 6. TROUBLESHOOTING

---

If you encounter issues after replacing the quartz glass sleeve, consider the following:

- **UV Lamp Not Lighting:** Ensure the UV lamp is correctly seated in its electrical connector and that the power supply is connected. The lamp itself might be faulty or at the end of its lifespan.
- **Water Leaks:** If water leaks from the sterilizer, immediately disconnect power. Check that the quartz glass sleeve is properly seated and that all O-rings and seals are correctly positioned and not damaged. Retighten all connections.
- **Reduced Clarification:** If water clarity does not improve, ensure the quartz glass sleeve is clean and free of deposits. Also, verify that the UV lamp is functioning and that the sterilizer is appropriately sized for your pond volume and flow rate.

## 7. SPECIFICATIONS

---

<b>Product Model Number</b>	50101-09
<b>Material</b>	Quartz Glass
<b>Dimensions (L x W x H)</b>	31.5 x 5.2 x 5.2 cm (approximately)
<b>Weight</b>	170 grams (approximately)
<b>Compatibility</b>	SunSun CUV-224 UV Sterilizer