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SunSun 50945

SunSun CUF-2500 3-in-1 Pond Filter Pump Instruction Manual

Model: CUF-2500 (50945)

Product Overview

The SunSun CUF-2500 is a versatile 3-in-1 pond device designed to ensure clear and healthy pond water. It combines water circulation, mechanical and biological filtration, and UVC sterilization. This unit can function as a fountain pump or as part of a complete filtration system.



Image: The SunSun CUF-2500 pump in action, producing a bell-shaped fountain in a pond with clear water, fish, and water lilies.

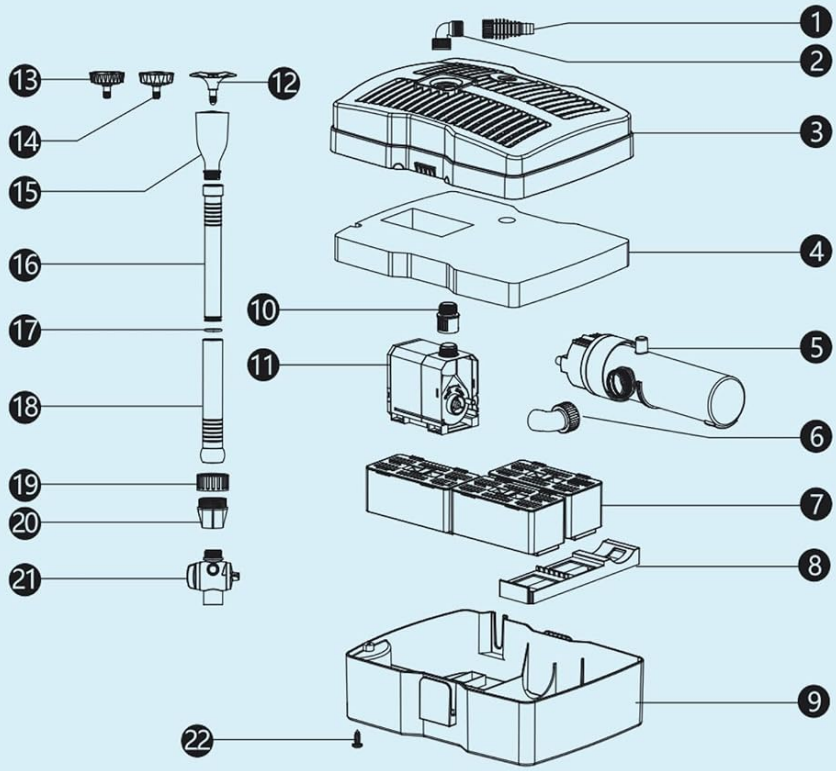
Safety Instructions

- Always disconnect the power supply before performing any maintenance or cleaning.
- Ensure the pump is fully submerged in water during operation to prevent overheating.
- Do not operate the UVC lamp outside of the water or when the casing is open, as UV radiation can be harmful to eyes and skin.
- Check the power cable regularly for damage. Do not use if damaged.

- This device is intended for pond use only.

Components and Assembly

The CUF-2500 includes various components for its multi-functional operation. Familiarize yourself with each part before assembly.



1	Sortie	9	Base de filtre	17	Joint torique
2	Sortie coudée 1	10	Adaptateur	18	Tube de raccord
3	Couvercle de filtre	11	Pompe à eau	19	Bague filetée
4	Éponge	12	Buse de fontaine 1	20	Connecteur
5	Lampe UV-C	13	Buse de fontaine 2	21	Régulateur
6	Sortie coudée 2	14	Buse de fontaine 3	22	Vis
7	Boîtes de matériau de filtration	15	Base de fontaine		
8	Support	16	Tuyau d'extension		

Image: Exploded view of the CUF-2500, detailing all components and their assembly points.

Parts List

No.	Component	No.	Component
1	Outlet	12	Fountain Nozzle 1
2	Elbow Outlet 1	13	Fountain Nozzle 2

3	Filter Cover	14	Fountain Nozzle 3
4	Sponge	15	Fountain Base
5	UV-C Lamp	16	Extension Tube
6	Elbow Outlet 2	17	O-ring
7	Filter Material Boxes	18	Connection Tube
8	Support	19	Threaded Ring
9	Filter Base	20	Connector
10	Adapter	21	Regulator
11	Water Pump	22	Screw

Dimensions

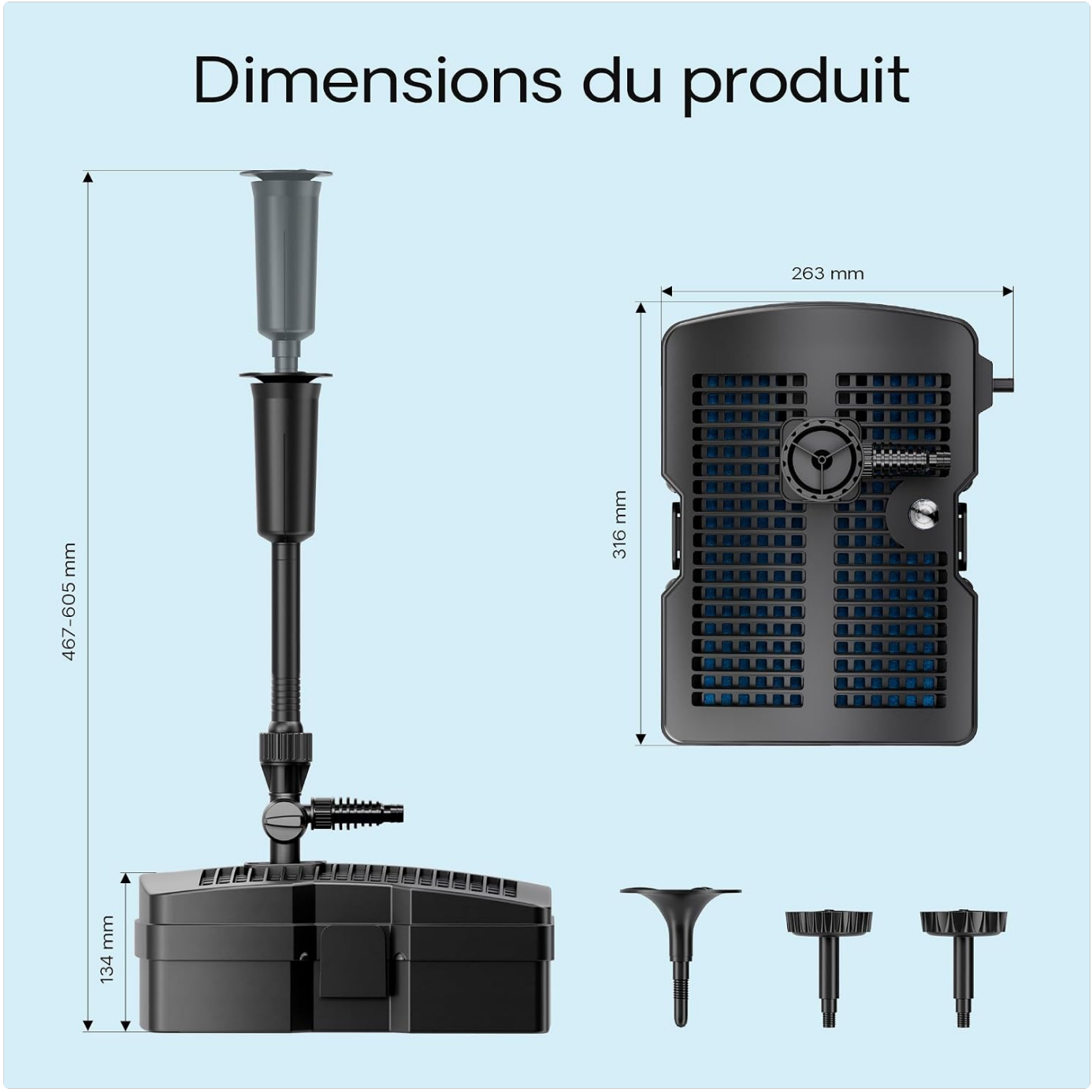


Image: Product dimensions, including the main unit and various fountain nozzles.

The pump unit measures approximately 31.6 x 26.3 x 46.7 cm. The fountain attachments allow for adjustable height and spray patterns.

Setup and Installation

1. **Placement:** Position the pump in a stable location within your pond, ensuring it is fully submerged. Avoid placing it directly on the pond bottom if it is muddy or heavily soiled.
2. **Fountain Assembly:**
   - Attach the desired fountain nozzle (bell, classic strong, or classic light) to the extension tube.
   - Connect the extension tube to the pump's outlet.
   - Adjust the height of the fountain using the extension tube as needed.
3. **Flow Control:** The pump features a regulator (part 21 in the diagram) to adjust the water flow rate. Rotate it to achieve the desired effect.

4. **Power Connection:** Connect the power cable to a suitable, weather-protected outdoor power outlet. Ensure a drip loop is formed to prevent water from running along the cable to the outlet.



Image: Three types of fountain patterns available with interchangeable nozzles.

Your browser does not support the video tag.

Video: Demonstration of changing fountain nozzles and adjusting the water flow pattern.

Operating Instructions

Once properly installed and connected to power, the SunSun CUF-2500 will begin its multi-functional operation.

Filtration System

The pump integrates mechanical and biological filtration, along with UVC sterilization.



Image: Diagram of the powerful filtration system, highlighting the filter sponge, biological balls, pump, and UV-C lamp.

- **Mechanical Filtration:** Filter sponges capture coarse particles and debris.
- **Biological Filtration:** Bio balls and filter stones provide a large surface area for beneficial bacteria to colonize, breaking down nitrates and improving water quality.
- **UVC Sterilization:** The integrated 9-watt UVC sterilizer effectively eliminates germs, suspended algae, and pathogens, contributing to clear water and healthier aquatic life.



Image: Powerful and effective UV-C sterilization, reducing harmful bacteria and microorganisms with a 9W UV-C lamp.

Maintenance

Regular maintenance is crucial for the optimal performance and longevity of your SunSun CUF-2500 pond filter pump.



Image: Easy cleaning and maintenance, showing a filter sponge being rinsed.

1. **Filter Material Cleaning:** Clean the filter material (sponges, bio balls) regularly. It is recommended to clean the filter sponge weekly, or more frequently depending on pond conditions and debris levels. Use pond water for cleaning to preserve beneficial bacteria.
2. **UVC Lamp Maintenance:** The UVC lamp is a consumable item. Its effectiveness diminishes over time. Replace the UVC lamp annually, typically at the start of each pond season, to ensure continuous sterilization.
3. **Pump Cleaning:** Periodically clean the pump impeller and housing to remove any accumulated debris or mineral deposits that could impede performance.
4. **Filter Material Replacement:** Biological filter materials should be replaced every 1-2 years, or as needed, to maintain optimal biological filtration.

TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your pond filter pump.

No Water Flow or Reduced Flow

- **Check Power:** Ensure the pump is properly plugged in and the power outlet is functional.
- **Clogged Intake:** Inspect the pump intake for debris (leaves, algae) and clear any blockages.
- **Clogged Filter Media:** Clean the filter sponges and other filter materials as described in the Maintenance section.
- **Kinked Hose/Tubing:** Check all connected hoses and tubing for kinks or obstructions.
- **Impeller Blockage:** Disconnect power, remove the pump cover, and inspect the impeller for any debris or damage. Clean or replace if necessary.

Water Remains Cloudy

- **Filter Media Saturation:** Clean or replace filter sponges and biological media.
- **UVC Lamp Effectiveness:** If the UVC lamp is old (over 1 year), its effectiveness may have decreased. Replace the UVC lamp.
- **Pond Size/Pump Capacity:** Ensure the pump's capacity is appropriate for your pond volume. For very large or heavily stocked ponds, additional filtration may be required.
- **Water Parameters:** Test pond water parameters (pH, ammonia, nitrite, nitrate) and adjust as needed.

UVC Lamp Not Lighting

- **Power Supply:** Verify the pump is receiving power.
- **Lamp Life:** UVC lamps have a limited lifespan. Replace the lamp if it has been in use for approximately one year or more.
- **Lamp Installation:** Ensure the UVC lamp is correctly seated and connected within its housing.

Specifications

Key technical specifications for the SunSun CUF-2500 pond filter pump.



Image: Technical specifications including power, flow rate, and maximum head height.

Feature	Value
Model Number	50945
Product Dimensions (L x W x H)	31.6 x 26.3 x 46.7 cm
Item Weight	4.4 Kilograms
Max Flow Rate	1000 Liters per hour
Max Head Height	1.6 meters
Pump Power	28 W
UVC Lamp Power	9 W
Power Source	Corded Electric
Material	Alloy Steel
IP Rating	IPX8

Warranty and Support

For warranty information, technical support, or to purchase replacement parts, please contact SunSun customer service

directly. Refer to the product packaging or the official SunSun website for contact details.

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