

Wiltec 54102



Wiltec Complete Pond Filter System

INSTRUCTION MANUAL

Model: 54102

Introduction

This instruction manual provides detailed information for the setup, operation, and maintenance of your Wiltec Complete Pond Filter System. This comprehensive set is designed to ensure clear and healthy water in garden ponds up to 90,000 liters. It includes a powerful bio-pond filter, an efficient UVC clarifier, an energy-saving pond pump, and all necessary hose connections.

Please read this manual carefully before installation and operation to ensure proper function and longevity of your pond system. Keep this manual for future reference.

Product Components Overview

Your Wiltec Complete Pond Filter System includes the following main components:

- **SunSun Bio-Pond Filter CBF-350C:** A multi-chamber flow-through filter system for mechanical and biological filtration.
- **SunSun CUV-224 UVC Pond Clarifier:** A 24W ultraviolet clarifier to combat algae and pathogens, ensuring clear water.
- **SunSun NEO-10000 SuperECO Pond Pump:** An energy-efficient pump with a flow rate of 10,000 l/h to circulate water through the filter system.
- **Pond Hose (25m, 25mm):** Durable hose for connecting the pump to the filter and for water return.



Figure 1: Overview of the complete Wiltec Pond Filter System, including the multi-chamber filter, pond pump, UVC clarifier, and connecting hose.



Figure 2: The SunSun CBF-350C Bio-Pond Filter, showing its robust black casing and inlet/outlet connections.



Figure 3: The SunSun NEO-10000 SuperECO Pond Pump, designed for high flow and low energy consumption, with its protective cage.



Figure 4: The SunSun CUV-224 UVC Pond Clarifier, a cylindrical unit with inlet and outlet ports for water flow and UV lamp housing.



Figure 5: A coiled section of the 25-meter, 25mm diameter pond hose, used for water circulation.

Setup and Installation

1. **Positioning the Filter:** Place the CBF-350C bio-filter on a stable, level surface next to your pond, ensuring it is slightly elevated above the pond's water level to allow gravity return of filtered water.
2. **Connecting the UVC Clarifier:** Connect the CUV-224 UVC clarifier directly to the inlet of the CBF-350C filter using

appropriate hose connectors and clamps (not included, typically). Ensure a watertight seal.

3. **Installing the Pond Pump:** Submerge the NEO-10000 SuperECO pond pump in the deepest part of your pond, away from heavy sludge, to ensure optimal water intake.
4. **Hose Connections:**
 - Connect one end of the 25m pond hose to the outlet of the pond pump.
 - Connect the other end of this hose to the inlet of the CUV-224 UVC clarifier.
 - Connect a return hose (not included, typically) from the outlet of the CBF-350C filter back to the pond, ensuring the water flows freely.
5. **Electrical Connections:** Ensure all electrical components (pump, UVC clarifier) are connected to a ground-fault circuit interrupter (GFCI) protected outdoor power outlet. Do not plug in until all connections are secure and the pump is submerged.
6. **Initial Start-up:** Once all connections are secure and the pump is submerged, plug in the pump and UVC clarifier. Water should begin flowing through the system. Check for any leaks immediately.

Operating Instructions

The Wiltec pond filter system is designed for continuous operation to maintain optimal water quality. Once installed and started, the system will continuously circulate and filter pond water.

- **Continuous Operation:** For best results, allow the pump and UVC clarifier to run 24/7 during the pond season.
- **Water Clarity:** It may take several days for the pond water to become completely clear after initial setup, especially in heavily algae-laden ponds.
- **Flow Rate Adjustment:** The NEO-10000 pump has a fixed flow rate of 10,000 l/h. Ensure the filter system can handle this flow.

Maintenance

Regular maintenance is crucial for the efficient operation and longevity of your pond filter system.

- **Filter Cleaning (CBF-350C):**
 - Check filter media (sponges, bio-balls) regularly, typically weekly or bi-weekly depending on pond load.
 - Clean filter sponges by rinsing them in a bucket of pond water (not tap water, to preserve beneficial bacteria).
 - Remove any large debris from the filter chambers.
- **UVC Lamp Replacement (CUV-224):**
 - The UVC lamp's effectiveness diminishes over time. Replace the 24W UVC lamp annually, ideally at the start of the pond season.
 - Always disconnect power before opening the UVC clarifier.
 - Clean the quartz sleeve surrounding the UVC lamp periodically to ensure maximum UV light penetration.
- **Pump Cleaning (NEO-10000):**
 - Disconnect power before handling the pump.
 - Periodically remove the pump from the pond and clean the impeller and pump housing to prevent blockages and maintain flow rate. The pump housing can be opened without tools for easy cleaning.
- **Hose Inspection:** Regularly inspect the pond hose for kinks, damage, or blockages.

Troubleshooting

Problem	Possible Cause	Solution
Pond water remains cloudy/green	<ul style="list-style-type: none">• Filter media clogged• UVC lamp old or dirty quartz sleeve• Insufficient filtration time• Pond overloaded	<ul style="list-style-type: none">• Clean filter media thoroughly.• Replace UVC lamp, clean quartz sleeve.• Ensure system runs 24/7.• Reduce fish stock or increase filtration capacity.
Pump not working	<ul style="list-style-type: none">• No power supply• Impeller blocked• Pump motor failure	<ul style="list-style-type: none">• Check power connection and GFCI.• Disconnect power, clean impeller and housing.• Contact support if pump still fails.
Reduced water flow from filter	<ul style="list-style-type: none">• Pump clogged• Hose kinked or blocked• Filter media heavily clogged	<ul style="list-style-type: none">• Clean pump impeller.• Inspect and clear hose.• Clean filter media.

Specifications

Feature	Specification
Brand	Wiltec
Model Number	54102
Product Dimensions	80 x 80 x 80 cm (approximate for entire set)
Item Weight	29.39 Kilograms
Material	Polyvinylchloride (PVC)
Power Source	Corded Electric
Voltage	230 Volts
Max. Flow Rate (Pump)	10,000 Liters per Hour
UVC Clarifier Power	24 Watts
Pond Capacity (Max)	90,000 Liters
Hose Length	25 meters
Hose Diameter	25 mm

Warranty and Support

For information regarding product warranty, please refer to the warranty card included with your purchase or visit the official Wiltec website. Warranty terms and conditions may vary.

Should you encounter any issues or require technical assistance, please contact Wiltec customer support:

- **Wiltec Wildanger Technik GmbH**
- Refer to your purchase documentation or the Wiltec website for current contact details (phone, email, service hours).
- You can also visit the [Wiltec Store on Amazon](#) for more information and product range.

