VEVOR CPF-2500

VEVOR Bio Pressure Pond Filter

Model: CPF-2500

Introduction

This manual provides instructions for the VEVOR Bio Pressure Pond Filter, Model CPF-2500. This filter system is designed to maintain clear and healthy water in decorative ponds up to 1600 gallons and fish ponds up to 800 gallons, utilizing biological and mechanical filtration along with a 13W UV-C light.

Image: The VEVOR Bio Pressure Pond Filter, Model CPF-2500, shown in an outdoor pond setting. This image highlights the overall design and intended use of the filter system.

Setup

1. Unpacking and Component Check

Carefully unpack all components and verify against the parts list below. Ensure all items are present and undamaged before proceeding with installation.

Image: Diagram showing the VEVOR Bio Pressure Pond Filter CPF-2500 and its included accessories, such as sewage exit

adapters, water outlet adapters, water inlet adapters, water inlet/outlet nuts, O-rings, rubber pads, sealing piece, screwdriver, screws, and a spare UV light tube.

2. Connecting the Filter

The filter requires connection to a water pump (purchased separately) for operation. Follow these steps for proper connection:

1. **Positioning:** Place the filter in a stable location near your pond. It can be used above ground or partially buried.
2. **Inlet Connection:** Connect the pond water inlet hose from your pump to the filter's inlet port. Use the appropriate adapter (3/4", 1", or 1-1/4") for a secure fit.
3. **Outlet Connection:** Connect the filtered clean water outlet hose from the filter's outlet port back to your pond.
4. **Sewage Discharge:** Connect a hose to the sewage discharge port for backwashing. This hose should direct dirty water away from the pond.

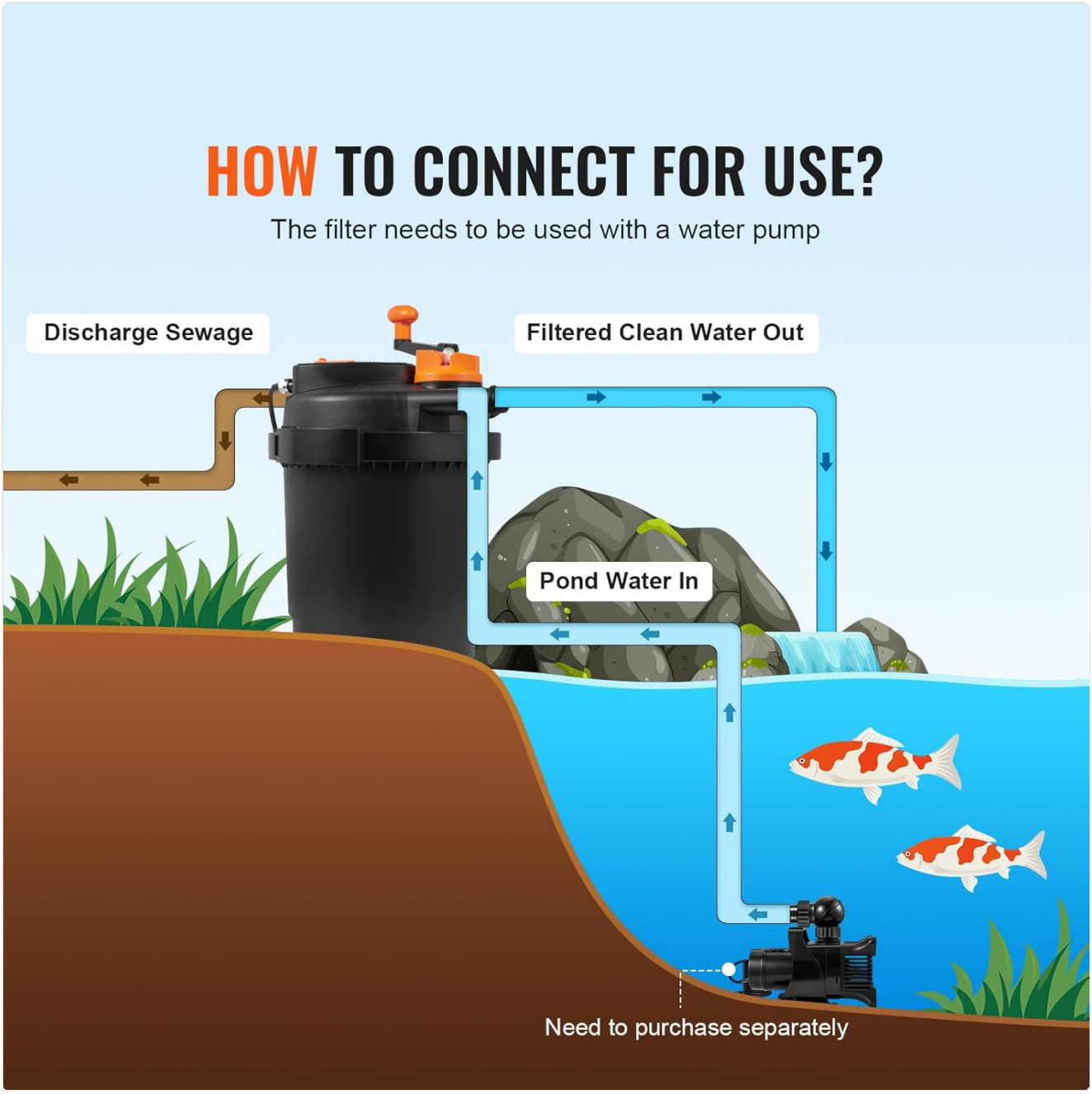

Image: A schematic diagram illustrating the connection of the VEVOR Bio Pressure Pond Filter. It shows the flow of pond water in, filtered clean water out, and discharge sewage, emphasizing the need for a separate water pump.

3. Adapter Usage

The filter includes three different adapter sizes to accommodate various water pipe diameters: 3/4" (1.9 cm), 1" (2.54 cm), and 1-1/4" (3.2 cm). Select the adapter that matches your water pipes for a leak-free connection.

Image: Close-up view of the universal adapters provided with the VEVOR Bio Pressure Pond Filter, showing the 1 1/4", 1", and 3/4" sizes for connecting different water pipes.

Operation

1. Filtration Process

The VEVOR Bio Pressure Pond Filter employs a multi-stage filtration system to ensure clear pond water:

- **UV-C Lamp:** An integrated 13W UV-C lamp helps to inhibit the growth of microbes and algae, improving water quality.
- **Coarse Pore Biochemical Cotton:** Filters out large particulate impurities.
- **Fine Pore Biochemical Cotton:** Filters out small particle impurities, sediments, and organic matter.

Image: Cross-section diagram of the VEVOR Bio Pressure Pond Filter, illustrating the internal components including the UV-C lamp, coarse pore biochemical cotton, and fine pore biochemical cotton, and how they contribute to powerful stain removal.

2. UV-C Lamp Settings

The 13W UV-C lamp features three timing settings to optimize its longevity and effectiveness:

- **OFF:** UV-C lamp is turned off.
- **12H Working:** UV-C lamp operates for 12 hours.
- **24H Working:** UV-C lamp operates continuously for 24 hours.

Select the desired working time using the switch on the filter head. A clear indicator shows the working status of the lamp.

Image: Detailed view of the 3-level adjustable UV-C lamp feature on the VEVOR Bio Pressure Pond Filter, showing the OFF, 12H, and 24H settings, along with a clear working status indicator.

Maintenance

1. Filter Cleaning (Backwash)

The filter is designed for easy cleaning without disassembly. A turbidity indicator on top of the filter will float up when the filter sponges require cleaning.

1. **Switch to Sewage Function:** Rotate the top switch to the 'sewage' position.
2. **Crank Handle Operation:** Use the crank handle on top of the filter to agitate the internal cleaning rod. This action cleans the filter sponges.
3. **Discharge Dirty Water:** The dirty water will be discharged through the sewage outlet. Continue cranking until the discharged water runs clear.

4. **Return to Filter Function:** Once clean, rotate the switch back to the 'filter' position.

Image: Close-up view of the VEVOR Bio Pressure Pond Filter's top, showing the sponge cleaning reminder (turbidity indicator) and the crank handle used for effortless filter cleaning without disassembly.

Image: A visual guide demonstrating the two steps of the hand-operated backwash process for the VEVOR Bio Pressure Pond Filter, showing how to switch to sewage function and then use the crank handle to clean the sponges.

2. Sponge and UV Bulb Replacement

Both the filter sponges and the UV bulb are replaceable components. Refer to the product's packaging or VEVOR's official website for information on purchasing replacement parts and detailed replacement instructions.

Troubleshooting

This section provides general guidance for common issues. For more complex problems, please contact VEVOR customer support.

Problem	Possible Cause	Solution
Water remains cloudy	Filter sponges are dirty; UV-C lamp not working or ineffective; pond size exceeds filter capacity.	Perform backwash cleaning; check UV-C lamp operation and replace if necessary; ensure filter is appropriate for pond volume.
Reduced water flow	Inlet/outlet hoses are clogged; pump is not functioning correctly; filter sponges are heavily clogged.	Check and clear hoses; inspect pump; perform backwash cleaning.
Water leakage	Loose connections; damaged O-rings or seals.	Tighten all connections; inspect and replace O-rings or seals as needed.

Specifications

Key technical specifications for the VEVOR Bio Pressure Pond Filter, Model CPF-2500:

Feature	Detail
Model Number	CPF-2500
Voltage	AC 110-120V/60Hz
Max Flow-through	1580 GPH (6000 L/H)
Rated Pressure	0.3 bar
UV-C Lamp Power	13W
Filter Volume	4.2 gal
Inlet/Outlet Sizes	0.8 in (20 mm), 1 in (25 mm), 1.3 in (32 mm)
Product Weight	11.46 lbs (5.2 kg)

Feature	Detail
Cable Length	16.4 ft (5 m)
Product Dimensions (L x W x H)	15.04" x 15.04" x 22.6"
Max Decorative Pond Capacity	1600 Gallons
Max Fish Pond Capacity	800 Gallons
Material	Polypropylene (PP)

Warranty & Support

For detailed warranty information and customer support, please refer to the warranty card included with your product or visit the official VEVOR website. You can also contact VEVOR customer service directly for assistance with product inquiries, troubleshooting, or replacement parts.