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Jebao CF-10

Jebao CF-10 Pressured Pond Bio Filter with 13W UVC Clarifier User Manual

Model: CF-10

1. INTRODUCTION

The Jebao CF-10 Pressured Pond Bio Filter is designed to provide a clearer and healthier environment for your pond or water garden. This filter features an integrated 13-watt UVC clarifier, a backwash facility for easy cleaning, a cleaning indicator, and a UVC viewing window. It is crucial to understand that this unit is a filter and **does not include an integrated pump**. An external pond pump is required to operate this system.

The CF-10 filter is suitable for various pond sizes depending on the fish load:

- **Nature Ponds (with plants):** Cleans up to 1500 gallons.
- **Goldfish Ponds (with some plants):** Cleans up to 1000 gallons.
- **Koi Ponds or Ponds with Large Fish:** Cleans up to 500 gallons.

2. PRODUCT FEATURES

- Dual Filtration System for superior water quality.
- Integrated 13W UVC Clarifier to combat algae.
- Convenient backwash facility for easy maintenance.
- Cleaning indicator for timely maintenance.
- UVC viewing window to confirm UV lamp operation.
- Recommended for use with pond pumps capable of pumping between 850 to 1250 Gallons of Water per Hour (GPH).
- Inlet/Outlet Size: 1/2", 3/4", 1" (1" hose recommended for optimal performance).

How the Filtration System Works:

1. **Mechanical Filtration:** Water is pumped into the filter, creating pressure. Two foam discs (black and blue) capture various sizes of unwanted organic debris. This stage also encourages the growth of beneficial bacteria.
2. **Biological Filtration:** The water then passes through bio-balls located at the bottom of the filter. These bio-balls offer a large surface area, providing an ideal habitat for beneficial bacteria. These bacteria

naturally convert harmful ammonia and nitrites into useful nitrates, supporting a healthy pond environment.

3. **UV Clarification:** Water containing microscopic suspended algae spores passes the 13W UV lamp. The UV light causes the algae spores to clump together and die, resulting in crystal clear water. The quartz glass tube covering the UV lamp ensures effective penetration of UV rays, as ordinary glass can reduce this by up to 90%. The UV lamp operates at an optimum temperature in an enclosed chamber, and water is kept close to the lamp for maximum UV efficiency.

3. SETUP AND INSTALLATION

Proper installation is key to the efficient operation of your Jebao CF-10 filter. Ensure all connections are secure to prevent leaks.

Components Overview:



Figure 3.1: Assembled Jebao CF-10 filter unit. This image shows the complete filter unit with its inlet/outlet ports and control levers on top, and the UVC viewing window on the side.



Figure 3.2: Disassembled Jebao CF-10 filter showing internal components. This image displays the filter's lid, foam filter discs (blue and black), and bio-balls, illustrating the internal media for mechanical and biological filtration.

Installation Steps:

1. **Placement:** Position the filter on a stable, level surface near your pond. It can be installed above ground or partially buried, ensuring the top is accessible for maintenance. If burying, ensure proper drainage around the unit.
2. **Connect Pump:** Connect your external pond pump (not included) to the filter's inlet port. Use appropriate hose sizes (1/2", 3/4", or 1"). A 1" hose is recommended for optimal flow and pressure.
3. **Connect Outlet:** Connect a hose from the filter's outlet port back to your pond, ideally to a waterfall or stream for aeration.
4. **Secure Connections:** Ensure all hose connections are tightly secured with clamps to prevent leaks under pressure.
5. **Power Connection:** Plug the filter's power cord into a GFCI-protected outdoor electrical outlet. Ensure the power cord is routed safely and away from water.
6. **Initial Check:** Before powering on, ensure the filter lid is securely latched. The O-ring gasket must be correctly seated in the groove on the lid to prevent leaks.

4. OPERATING INSTRUCTIONS

Once installed, operating the Jebao CF-10 is straightforward. The filter is designed for continuous operation during pond season.

1. **Start-up:** Ensure the pond pump is submerged and connected, and the filter is properly installed and sealed. Turn on the power to both the pond pump and the filter's UVC unit.
2. **UVC Indicator:** Observe the UVC viewing window (typically a small clear cap on the side) to confirm the UV lamp is illuminated. A blue glow indicates the UV lamp is functioning.
3. **Cleaning Indicator:** The filter is equipped with a cleaning indicator (often a small pop-up or color-changing mechanism) that signals when the filter media requires cleaning. Monitor this indicator regularly.
4. **Backwash Function:** To perform a backwash, typically, you will switch a lever (often gray) to the "clean" position. This diverts water flow to flush accumulated debris out of a dedicated waste port. Continue backwashing until the water exiting the waste port runs clear. Then, switch the lever back to the "operation" position.

5. MAINTENANCE

Regular maintenance ensures the longevity and efficiency of your Jebao CF-10 filter. Frequency of cleaning depends on pond size, fish load, and environmental conditions.

Routine Cleaning:

- **Frequency:** In sunny and hot conditions, cleaning may be required daily. Otherwise, follow the cleaning indicator or clean weekly/bi-weekly as needed.
- **Backwash:** Utilize the backwash feature as described in the Operating Instructions. This is the primary method for routine cleaning without disassembling the unit.
- **Manual Cleaning (Disassembly):** Periodically, a more thorough manual cleaning of the filter media is necessary.

Manual Cleaning Steps:

1. **Disconnect Power:** Always unplug the filter and pump from the power source before performing any manual maintenance.
2. **Release Pressure:** Ensure the system is depressurized before opening.
3. **Open Filter:** Unlatch the clips securing the lid. Carefully remove the lid.
4. **Clean Foam Discs:** Remove the foam filter discs (see Figure 5.1). Rinse them thoroughly with pond water (not chlorinated tap water, as it can harm beneficial bacteria) until clean.
5. **Clean Bio-balls:** The bio-balls (see Figure 3.2) should also be rinsed with pond water. It is recommended to keep them in a mesh bag for easier handling during cleaning.
6. **Inspect O-ring:** Inspect the large O-ring gasket located on the lid. Ensure it is clean, free of debris, and properly seated in its groove. An improperly seated or damaged O-ring is a common cause of leaks.
7. **Reassemble:** Place the clean media back into the filter. Carefully align the lid and press down firmly to ensure the O-ring is compressed. Secure all clips. It may require some effort to latch the clips, especially if the O-ring is new or slightly thicker.
8. **Restart:** Reconnect power and check for leaks.



Figure 5.1: Blue and black foam filter sponges. These sponges are the primary mechanical filtration media, trapping debris and providing surface area for beneficial bacteria.



Figure 5.2: Jebao UV Ballast JUVG-13. This component powers the 13W UVC lamp, which is essential for algae clarification.

Replacement Schedule:

- **Filter Foams:** Replace annually, or as needed if they become excessively worn or damaged.
- **Gasket Ring (O-ring):** Replace annually, or every 2 years in cooler climates, to ensure a proper seal.
- **13W UV Bulb:** Replace annually, or when the UVC viewing window no longer shows a glow. UV bulbs lose effectiveness over time even if they still light up.
- **Bio-balls:** Replace annually or bi-annually, depending on algae growth and wear.

6. TROUBLESHOOTING

If you encounter issues with your Jebao CF-10 filter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Filter is leaking	<ul style="list-style-type: none"> • Improperly seated O-ring gasket. • Damaged O-ring gasket. • Lid clips not fully latched. • Loose hose connections. 	<ul style="list-style-type: none"> • Disconnect power, open filter, ensure O-ring is clean and correctly seated in the lid's groove. • Replace O-ring if damaged. • Ensure all lid clips are securely fastened. • Tighten hose clamps on all connections.
Pond water remains green/murky	<ul style="list-style-type: none"> • UV lamp not working or ineffective. • Filter media is clogged. • Filter capacity is too small for pond size/fish load. • Insufficient pump flow. 	<ul style="list-style-type: none"> • Check UVC viewing window; if no glow, replace UV bulb. • Perform backwash or manual clean of filter foams and bio-balls. • Verify pond size and fish load against filter capacity recommendations. • Ensure your pond pump provides adequate flow (850-1250 GPH).
No water flow from filter	<ul style="list-style-type: none"> • Pond pump is not working. • Hoses are kinked or blocked. • Filter is severely clogged. 	<ul style="list-style-type: none"> • Check pond pump operation and power supply. • Inspect hoses for kinks or blockages. • Perform a thorough manual cleaning of the filter media.

7. SPECIFICATIONS

- **Model:** CF-10
- **Manufacturer:** Jebao
- **Integrated UVC:** 13 Watts
- **Max Pond Capacity (Nature Pond):** 1500 Gallons
- **Max Pond Capacity (Goldfish Pond):** 1000 Gallons
- **Max Pond Capacity (Koi Pond):** 500 Gallons
- **Recommended Pump Flow:** 850 - 1250 GPH
- **Inlet/Outlet Sizes:** 1/2", 3/4", 1" (1" recommended)

- **Product Dimensions:** 12.1 x 17.1 x 12 inches
- **Item Weight:** 9.1 pounds

8. WARRANTY AND SUPPORT

Jebao products are typically covered by a manufacturer's warranty against defects in materials and workmanship. Please refer to the warranty information provided with your purchase or contact Jebao customer service for specific details regarding warranty duration and claims procedures.

For technical assistance, replacement parts, or further inquiries, please contact Jebao customer support through their official website or the retailer from whom you purchased the product.