

Jebao CBF-4000

Jebao CBF-4000 Bio Pressurized Pond Filter with 13-Watt UV User Manual

Model: CBF-4000 | Brand: Jebao

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1. INTRODUCTION

Thank you for choosing the Jebao CBF-4000 Bio Pressurized Pond Filter. This filter is designed to provide clear and healthy water for your pond up to 1000 gallons. It features an integrated 13-watt UV-C lamp for algae control and an easy-clean mechanism for convenient maintenance. Please read this manual thoroughly before installation and operation to ensure proper function and longevity of your filter.

2. SAFETY INFORMATION

- Always disconnect the power supply before performing any maintenance, cleaning, or when handling the UV lamp.
- Ensure the filter is installed on a stable, level surface.
- Do not operate the UV lamp outside of the filter housing or when exposed to direct view, as UV radiation can be harmful to eyes and skin.
- The filter is designed for outdoor pond use. Do not use it for purposes other than its intended application.
- Ensure all electrical connections are waterproof and protected from moisture.
- Keep out of reach of children and pets.
- Regularly inspect the power cord for damage. Do not use if the cord is damaged.

3. PRODUCT OVERVIEW AND COMPONENTS

The Jebao CBF-4000 Bio Pressurized Filter is a comprehensive pond filtration system. Key features include:

- Integrated 13-watt UV-C lamp for improved water clarity and algae control.
- Indicator light for UV-C function monitoring.
- Easy Clean technology for simple and convenient cleaning without opening the filter.

- Suitable for ponds up to 1000 gallons.
- Can be installed above water level or recessed into the ground.



Figure 1: Overview of the Jebao CBF-4000 Bio Pressurized Pond Filter. This image displays the complete filter unit with its handle and power cord.



Figure 2: Top view of the filter head showing the "In", "Out", and "Dirty" hose connections, along with the function selector knob and UV indicator light.

4. SETUP AND INSTALLATION

1. **Placement:** The CBF-4000 can be installed either above the water level or recessed into the ground next to the pond,

ensuring the filter lid remains accessible. Choose a location that is stable and allows for easy access for maintenance.

2. **Hose Connections:** Connect your pond pump's output hose to the "In" port of the filter. Connect a return hose from the "Out" port back to your pond. The "Dirty" port is used for the easy-clean backwash function; connect a suitable hose to direct waste water away from the pond. The filter includes hose adapters for 1", 3/4", and 1/2" tubing. Ensure all connections are secure and watertight to prevent leaks.
3. **Pump Recommendation:** A pond pump with a flow rate between 500-1500 gallons per hour (GPH) is recommended for optimal performance. (Water pump and pond tubing are sold separately).
4. **Electrical Connection:** Plug the filter's power cord into a grounded electrical outlet protected by a Ground Fault Circuit Interrupter (GFCI). Ensure the power cord is routed safely to avoid damage.
5. **Initial Start-up:** Once all connections are secure and the filter is properly placed, turn on your pond pump. Allow the filter to fill with water. Check for any leaks. Then, connect the filter's power to activate the UV lamp.

5. OPERATION

The Jebao CBF-4000 operates continuously to filter your pond water. The integrated 13-watt UV-C lamp helps to control green water algae by clumping microscopic algae particles, making them easier for the filter media to capture.

- **UV Indicator Light:** A small indicator light on the filter head allows for UVC function monitoring. If this light is on, it indicates that the UV lamp is receiving power and is operational.
- **Filter Function:** Water enters the filter, passes through the mechanical and biological filtration media, and is then exposed to the UV-C light before returning to the pond.

6. MAINTENANCE

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

1. **Easy Clean Technology:** The CBF-4000 features an easy-clean mechanism. To clean the filter media without opening the unit:
 - Ensure the "Dirty" outlet hose is directed to a suitable drainage area.
 - Rotate the selector knob on the filter head to the "Clean" or "Backwash" position (refer to markings on your specific unit).
 - Operate the cleaning handle (if present) or follow specific instructions for your model to agitate the filter media.
 - Allow water to flow through the "Dirty" outlet until it runs clear.
 - Return the selector knob to the "Filter" position.
2. **UV Lamp Replacement:** The 13-watt UV lamp has a limited lifespan and should be replaced annually, typically in spring, for optimal algae control.
 - **WARNING:** Disconnect power to the filter and pump before replacing the UV lamp.
 - Carefully open the filter housing (refer to specific instructions for lid removal).
 - Remove the old UV lamp and replace it with a new 13-watt UV-C lamp. Handle the new lamp by its base to avoid touching the glass.
 - Ensure the quartz sleeve (if present) is clean and free of debris.
 - Reassemble the filter, ensuring all seals are correctly seated to prevent leaks.
3. **General Cleaning:** Periodically, it may be necessary to open the filter and manually clean the filter sponges and bio-media, especially if the easy-clean function is not sufficient or if flow is significantly reduced.



Figure 3: The filter unit with the top removed, showing the internal foam filtration media. Regular cleaning of these media is essential.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Green water/Algae persists	UV lamp is old or not working. Filter media is clogged. Pond is oversized for the filter. Excess nutrients in pond water.	Check UV indicator light; replace UV lamp annually. Perform easy-clean backwash or manual clean. Ensure pond size is within recommended limits (up to 1000 gallons). Reduce fish feeding, remove decaying organic matter.

Problem	Possible Cause	Solution
Water leaking from filter	Lid gasket improperly seated or damaged.	Disconnect power, open filter, inspect and reseal/replace gasket.
	Hose connections are loose.	Tighten all hose clamps and connections.
	Cracked housing or components.	Inspect filter housing for damage. Contact support if damaged.
Reduced water flow	Filter media is clogged.	Perform easy-clean backwash or manual clean.
	Pond pump is clogged or underpowered.	Clean pond pump impeller and intake. Ensure pump flow rate is adequate.

8. SPECIFICATIONS

Brand:	Jebao
Model:	CBF-4000
UV Power:	13-watt, 110-120V 60Hz
Recommended Pond Size:	Up to 1000 gallons
Recommended Pump Size:	500-1500 GPH
Product Dimensions:	10"L x 10"W x 16"H
Hose Adapters:	1", 3/4", 1/2"
Power Source:	Corded Electric
Item Weight:	9 Pounds

9. WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please refer to the manufacturer's official website or contact Jebao customer service directly. Keep your purchase receipt as proof of purchase.

Contact Information: Please visit www.jebao.com for the most up-to-date contact details and support resources.

