

Jebao PU-13

Jebao PU-13 Pond and Aquarium Clarifier Instruction Manual

Model: PU-13

1. INTRODUCTION

The Jebao PU-13 Non-submersible Pond and Aquarium Clarifier is designed to help maintain clear water in ponds and aquariums. It effectively reduces green water and helps prevent unpleasant odors. This unit is suitable for new or existing water features.

Key features include:

- Effective for ponds up to 2,000 gallons (without fish) or 1,000 gallons (with fish).
- Can be installed both vertically and horizontally.
- Includes a G23 13W light bulb.
- Comes with various hose fittings (3/4", 1", 1-1/4", and 1-1/2").
- Equipped with a 22 ft weather-resistant cord and transformer.

2. SAFETY INFORMATION

WARNING: Ultraviolet (UV) light can cause damage to eyes and skin. **Avoid looking directly at the UV light.** Wear protective glasses and clothing during use or maintenance involving the UV lamp.

- Always disconnect power before performing any maintenance or installation.
- This unit is designed for out-of-water use only. Do not submerge the clarifier.
- Ensure all electrical connections are dry and protected from water.
- Avoid direct sunlight exposure for the unit to maximize its lifespan.
- Keep out of reach of children.

3. PACKAGE CONTENTS

Verify that all components are present before beginning installation.

- Jebao PU-13 Clarifier Unit

- G23 13W UV Light Bulb (pre-installed or separate)
- Power Adapter/Transformer with 22 ft cord
- Hose Adapters (3/4", 1", 1-1/4", 1-1/2")
- O-rings/Seals
- Mounting Brackets (if applicable)
- Instruction Manual



Image: Jebao PU-13 Clarifier unit and its accessories, including the power adapter, various hose adapters, and the owner's manual.

4. INSTALLATION

The PU-13 clarifier is designed for non-submersible, out-of-water use. It can be installed either vertically or horizontally. Ensure the installation location is protected from direct sunlight and extreme weather conditions.

4.1 Placement

- Choose a location near your pond or aquarium filter system, but ensure it is not submerged in water.
- Mount the unit securely using the integrated mounting brackets.
- Ensure the unit is easily accessible for maintenance.

4.2 Hose Connections

- Select the appropriate hose adapters (3/4", 1", 1-1/4", or 1-1/2") for your pump and tubing.
- Connect the inlet of the clarifier to the outlet of your pond pump or filter system.
- Connect the outlet of the clarifier to the return line to your pond or aquarium.
- Ensure all connections are tight and secure to prevent leaks. Applying a small amount of silicone grease to rubber seals can aid in sealing and prevent overtightening damage.



Image: Top-down view of the Jebao PU-13 Clarifier, showing the inlet and outlet ports with clear hose adapters attached.



Image: Angled view of the Jebao PU-13 Clarifier, illustrating the clear hose adapters and the black mounting feet for secure placement.

4.3 Electrical Connection

- Connect the power adapter to the clarifier unit.

- Plug the transformer into a suitable weather-protected electrical outlet.
- Ensure the electrical outlet is equipped with a Ground Fault Circuit Interrupter (GFCI) for safety.

5. OPERATION

Once installed and connected, the Jebao PU-13 Clarifier operates continuously to treat your pond or aquarium water.

- Ensure water is flowing through the unit before powering it on.
- The clarifier is designed to run 24/7 for optimal results.
- The unit is rated for ponds up to 2,000 gallons without fish, or 1,000 gallons with fish. Adjust the flow rate of your pump if necessary to ensure proper contact time with the UV light.
- A small indicator light on the unit or transformer may confirm the UV lamp is operating.

6. MAINTENANCE

Regular maintenance ensures the longevity and effectiveness of your clarifier.

6.1 UV Lamp Replacement

- The G23 13W UV light bulb has an effective lifespan of approximately 8,000 hours (about 11 months of continuous operation).
- For optimum cleaning performance, it is recommended to replace the bulb every 6 to 12 months.
- **To replace the bulb:**
 1. **Disconnect power** to the unit and pump.
 2. Allow the unit to cool down.
 3. Carefully open the clarifier housing according to the specific instructions in the detailed manual (not provided here, but generally involves unscrewing end caps).
 4. Remove the old UV lamp, handling it by the ceramic base to avoid touching the glass.
 5. Insert the new UV lamp, ensuring it is seated correctly.
 6. Reassemble the unit, ensuring all seals and O-rings are properly seated to prevent leaks.
 7. Reconnect power.

6.2 Quartz Sleeve Cleaning

- Periodically inspect and clean the quartz sleeve that encases the UV lamp. Algae or mineral deposits on the sleeve can reduce UV effectiveness.
- **To clean the quartz sleeve:**
 1. Follow steps 1-3 for UV lamp replacement.
 2. Carefully remove the quartz sleeve.
 3. Clean the sleeve with a soft cloth and a mild acid solution (e.g., vinegar) to remove deposits. Rinse thoroughly with clean water.
 4. Inspect the sleeve for cracks or damage. Replace if damaged.
 5. Reassemble the unit, ensuring all seals are correctly positioned.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Green water persists	• UV lamp is old or ineffective. • Quartz sleeve is dirty. • Unit size is too small for pond volume. • Insufficient water flow rate. • Excessive nutrients in water.	• Replace UV lamp (see Maintenance). • Clean quartz sleeve (see Maintenance). • Verify pond volume against clarifier rating. • Check pump for proper flow; ensure no blockages. • Reduce feeding, perform partial water changes.
No indicator light / UV lamp not on	• No power to the unit. • Faulty UV lamp. • Faulty transformer.	• Check power outlet and connections. • Replace UV lamp. • Contact customer support if transformer is suspected faulty.
Water leaks from unit	• Loose hose connections. • Damaged or improperly seated O-rings/seals. • Cracked housing or quartz sleeve.	• Tighten hose connections. • Inspect and reseal or replace O-rings/seals. Apply silicone grease. • Inspect unit for damage. Replace damaged parts or unit if necessary.

8. SPECIFICATIONS

Feature	Detail
Model Number	PU-13
Power Consumption	13 Watts
Recommended Pond Volume (No Fish)	Up to 2,000 Gallons
Recommended Pond Volume (With Fish)	Up to 1,000 Gallons
UV Lamp Type	G23 13W
UV Lamp Lifespan	Approx. 8,000 hours (11 months)
Hose Fittings Included	3/4", 1", 1-1/4", 1-1/2"
Power Cord Length	22 ft
Installation Type	Non-submersible, vertical or horizontal
Dimensions (Approx.)	12 inches (length)
Weight	2.27 Kilograms (5 Pounds)
EPA Establishment Number	97745-CHN-1

9. WARRANTY

The Jebao PU-13 Clarifier comes with a **180-day warranty**. This warranty specifically **excludes the UV lamp**, which is considered a consumable item with a limited lifespan.

Please retain your proof of purchase for warranty claims. For specific warranty terms and conditions, refer to the documentation included with your product or contact customer support.

10. CUSTOMER SUPPORT

For technical assistance, replacement parts, or warranty inquiries, please contact Jebao customer support.

- Refer to the contact information provided in the original packaging or on the official Jebao website.
- When contacting support, please have your model number (PU-13) and proof of purchase readily available.