

Jebao SME22000

Jebao SME-22000 Adjustable Pond Water Pump with Controller User Manual

1. INTRODUCTION

Thank you for choosing the Jebao SME-22000 Adjustable Pond Water Pump. This manual provides essential information for the safe installation, operation, and maintenance of your new pump. Please read these instructions thoroughly before use and retain them for future reference.

1.1 General Safety Information

- This pump is designed for submersible use only. Do not operate it dry.
- Ensure the power supply matches the pump's requirements (110-120V 60Hz).
- Always disconnect the power supply before performing any maintenance or cleaning.
- Do not use this pump for purposes other than those specified.
- The pump is equipped with a 30-foot power cord and a 3-prong US plug. Ensure the electrical outlet is properly grounded.
- This pump is fish-safe as no oil is used in its operation.

2. PRODUCT OVERVIEW

The Jebao SME-22000 is an adjustable pond water pump featuring Sinewave technology for efficient and controlled water flow. It is designed for continuous duty operation and can handle dirt particles up to 8mm in size.

2.1 Components

- Jebao SME-22000 Pump Unit
- External Controller (SINE Vario Driver)
- Power Cord with 3-prong plug
- Various Outlet Connectors (1", 1.25", 1.5", 2")



Figure 1: Overview of the Jebao SME-22000 pump and its external controller.



Figure 2: The Jebao SME-22000 pump unit with its protective cage and threaded outlet.



Figure 3: The SINE Vario Driver controller for the Jebao SME-22000 pump, showing the display and control buttons.

3. INSTALLATION

3.1 Placement

Place the pump fully submerged in your pond or water garden. Ensure it rests on a stable, level surface to prevent tipping and to allow for proper water intake. The pump is designed to handle dirt particles up to 8mm, but avoid placing it directly in heavy sludge to prolong its lifespan.

3.2 Connecting the Pump to the Controller

1. Locate the waterproof connector on the pump's cable and the corresponding port on the SINE Vario Driver controller.
2. Align the pins and carefully push the connector together until it clicks securely.
3. Tighten the threaded collar on the connector to ensure a watertight seal.

3.3 Connecting the Controller to Power

1. Ensure the controller is placed in a dry, protected area, away from direct water exposure.
2. Plug the 3-prong power cord from the controller into a properly grounded 110-120V 60Hz electrical outlet.

3.4 Outlet Connections

The pump comes with multiple outlet connectors (1", 1.25", 1.5", 2") to accommodate various hose sizes. Select the appropriate connector for your pond's filtration system or water feature. Securely attach the chosen connector to the pump's outlet and then connect your hose or piping.

4. OPERATION

4.1 Powering On/Off

Once the pump and controller are properly installed and connected to power, the pump will typically start automatically. To turn the pump off, disconnect the controller from the power outlet. Reconnect to power to resume operation.

4.2 Adjusting Flow Rate

The SINE Vario Driver controller allows you to adjust the pump's flow rate. Use the 'Up' and 'Down' arrow buttons on the controller to increase or decrease the water flow. The digital display will show the current wattage consumption, which correlates to the flow rate. Adjust the flow to suit your pond's specific needs.

5. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your Jebao SME-22000 pump.

5.1 Cleaning the Pump and Intake

1. **Disconnect Power:** Always unplug the controller from the power outlet before handling the pump.
2. **Remove from Pond:** Carefully remove the pump from the pond.
3. **Clean Intake Screen:** The pump is equipped with a protective cage. Remove any debris, leaves, or algae that may have accumulated on the intake screen. A soft brush and clean water can be used.
4. **Inspect Impeller:** If flow is reduced, the impeller may be obstructed. Refer to the pump's design to access the impeller chamber (usually by removing the front cover or cage) and clear any blockages.
5. **Rinse:** Rinse the pump thoroughly with clean water before returning it to the pond.

5.2 Winterization

In regions with freezing temperatures, it is recommended to remove the pump from the pond before winter. Clean the pump thoroughly and store it in a frost-free location, submerged in a bucket of water if possible, to keep seals moist.

6. TROUBLESHOOTING

If you encounter issues with your pump, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Pump does not start	No power; Loose electrical connection; Impeller jammed	Check power outlet and circuit breaker; Ensure controller is securely plugged in; Disconnect power and inspect/clean impeller.
Reduced water flow	Clogged intake screen; Impeller obstructed; Kinked hose; Incorrect flow setting	Clean intake screen; Disconnect power and clean impeller; Check hose for kinks; Adjust flow rate using the controller.
Unusual noise or vibration	Debris in impeller; Pump not stable	Disconnect power and clean impeller; Ensure pump is on a stable, level surface.
Controller display shows error	Internal fault; Overload protection activated	Disconnect power for 5 minutes, then reconnect. If error persists, contact support.

7. SPECIFICATIONS

Feature	Specification
Model Number	SME22000
Power	330 Watts
Voltage	110-120V 60Hz
Max Flow Rate	5811 GPH (Gallons Per Hour)
Max Head Height	24 Feet
Product Dimensions (L x W x H)	10" x 4.5" x 6.5"
Item Weight	12.1 Pounds
Power Cord Length	30 Feet
Inlet/Outlet Sizes	1", 1.25", 1.5", 2"
Particle Handling	Up to 8mm
Operation Type	Submersible, Continuous Duty
Technology	Sinewave

8. WARRANTY AND SUPPORT

Jebao products are manufactured to high-quality standards. For specific warranty details, please refer to the documentation provided at the time of purchase or contact your retailer. If you require technical assistance or have questions not covered in this manual, please contact the seller or manufacturer's customer support.

