## SunSun HJB-120 (52194)

# SunSun Electromagnetic Air Pump HJB-120 Instruction Manual

Model: HJB-120 (52194)

## 1. Product Overview

The SunSun Electromagnetic Air Pump HJB-120 is designed to provide essential aeration for aquariums and garden ponds. Adequate oxygenation is crucial for the health of fish and aquatic plants, promoting beneficial bacteria and preventing oxygen depletion, especially in warm water conditions. This pump features a robust electromagnetic motor, an aluminum alloy housing for efficient heat dissipation, and operates with low noise.


Image 1.1: SunSun Electromagnetic Air Pump HJB-120 showing its dimensions.

## 2. Safety Instructions

- Always disconnect the power supply before performing any maintenance, installation, or cleaning.
- The pump must be placed in a dry, well-ventilated area, protected from direct sunlight and rain.
- To prevent water backflow into the pump, position the air pump above the water level of the aquarium or pond. If this is not possible, install a check valve on the air line.
- Do not immerse the pump in water.
- Ensure the power cord is not damaged or pinched. Do not operate the pump with a damaged cord or plug.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

## 3. Package Contents

Verify that all components are present and undamaged upon unpacking:

- 1 x SunSun Electromagnetic Air Pump HJB-120
- 1 x Air Manifold (if included with your model)
- User Manual

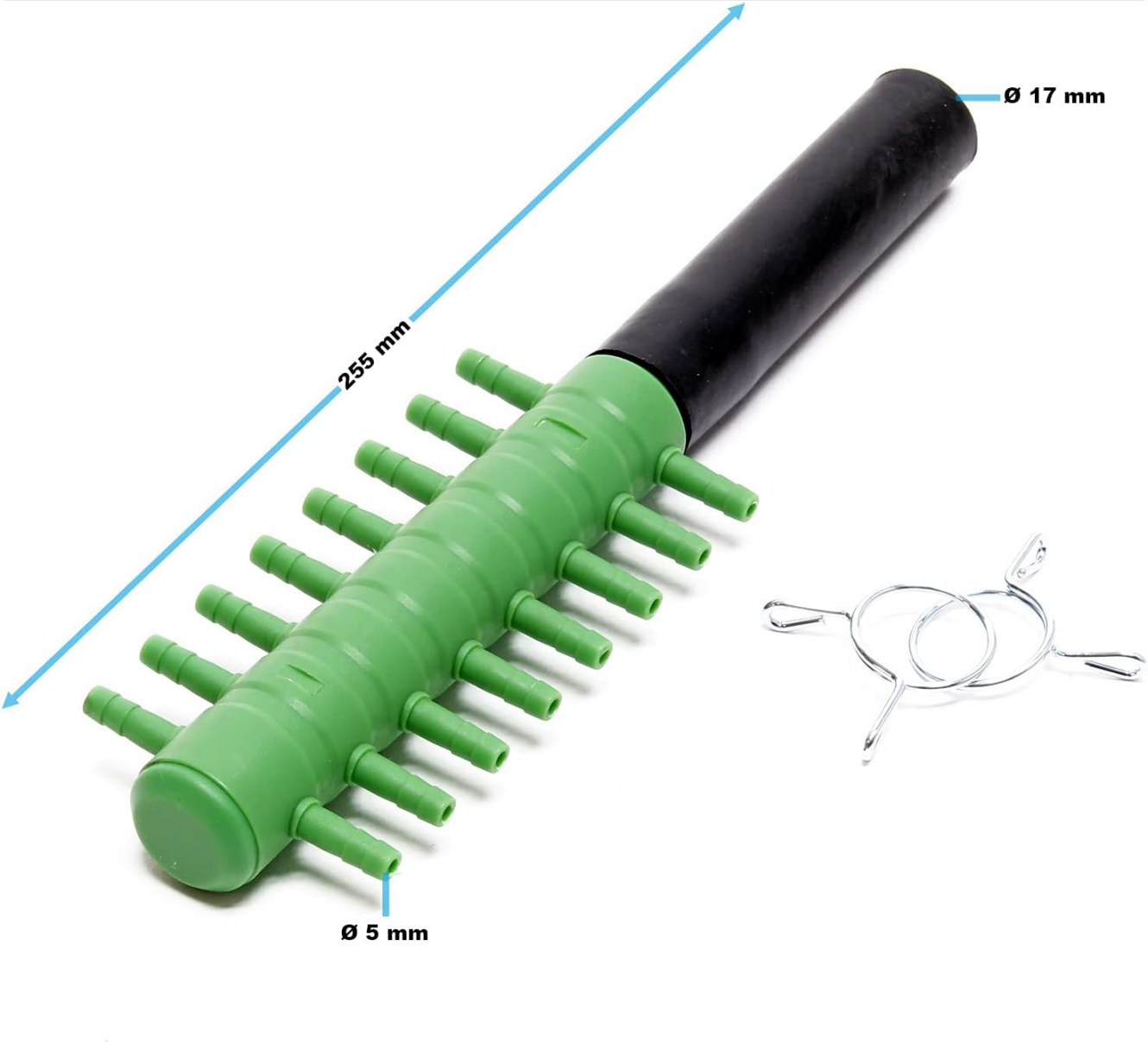


Image 3.1: Example of an air manifold, which may be included with your pump.

## 4. Setup

1. **Placement:** Select a dry, stable, and well-ventilated location for the air pump. Ensure it is positioned above the water level of your aquarium or pond to prevent water backflow. If placing below water level, a check valve is mandatory.
2. **Connect Air Tubing:** Attach appropriate air tubing (not included) to the pump's air outlet. If using an air manifold, connect the manifold to the pump's outlet, then connect individual air lines from the manifold to air stones or other air-driven devices in your water body.
3. **Install Air Stones:** Place air stones or diffusers at the desired depth in your aquarium or pond. Ensure they are securely weighted to prevent floating.
4. **Power Connection:** Once all air lines are connected and secured, plug the pump into a suitable electrical outlet.

Ensure the outlet is protected by a Ground Fault Circuit Interrupter (GFCI) for safety.


Image 4.1: Air pump connected to an air manifold for multiple air outlets.

## 5. Operating Instructions

- **Starting the Pump:** After completing the setup, plug the power cord into an electrical outlet. The pump will start operating immediately, producing air flow.
- **Continuous Operation:** This air pump is designed for continuous operation to maintain consistent oxygen levels.
- **Monitoring:** Regularly check the air stones and tubing to ensure a steady stream of bubbles is being produced, indicating proper air flow.
- **Stopping the Pump:** To turn off the pump, simply unplug it from the electrical outlet.

## 6. Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your air pump.

- **Air Filter Cleaning:** Periodically check and clean the air filter (if accessible) to prevent dust and debris from entering the pump, which can reduce efficiency. Refer to the pump's specific design for filter access.
- **Tubing and Air Stone Inspection:** Inspect air tubing for kinks, blockages, or damage. Clean air stones regularly to remove algae or mineral buildup that can restrict air flow. Replace damaged tubing or clogged air stones as needed.
- **Pump Exterior:** Wipe the exterior of the pump with a damp cloth to remove dust. Do not use harsh chemicals or abrasive cleaners.
- **Diaphragm Replacement:** Over time, the internal diaphragms may wear out, leading to reduced air output or increased noise. Consult a qualified technician or the manufacturer for diaphragm replacement if necessary.

## 7. Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| No air flow | No power; Kinked or blocked air tubing; Clogged air stone; Internal pump issue | Check power connection; Straighten or clear tubing; Clean or replace air stone; Contact support if pump is faulty |
| Reduced air flow | Partially blocked air tubing/stone; Dirty air filter; Worn diaphragms | Clear tubing/stone; Clean air filter; Consult for diaphragm replacement |
| Excessive noise/vibration | Improper placement; Loose components; Worn internal parts | Ensure pump is on a stable, level surface; Check for loose parts; Consult for internal inspection |
| Pump overheating | Poor ventilation; Blocked air intake; Continuous heavy load | Ensure adequate space around pump; Clear air intake; Reduce load if possible; Disconnect and allow to cool |

## 8. Specifications

- **Model:** HJB-120 (52194)
- **Voltage:** AC 220-240V / 50Hz
- **Power Consumption:** 80 W
- **Max. Flow Capacity:** 120 Liters per minute (7200 Liters per hour)
- **Max. Pressure:** 0.04 MPa
- **Dimensions (L x W x H):** 250 x 180 x 200 mm
- **Weight:** 7.06 kg
- **Material:** Aluminum alloy housing, Nylon 66 components
- **Insulation:** IP44

## 9. Warranty and Support

For warranty information and technical support, please refer to the documentation provided at the time of purchase or contact your retailer. Keep your proof of purchase for warranty claims.