

Poafamx AL-500

Poafamx AL-500 Aquarium Chiller Instruction Manual

Model: AL-500 | Brand: Poafamx

INTRODUCTION

Thank you for choosing the Poafamx AL-500 Aquarium Chiller. This device is designed to maintain a stable water temperature for various aquatic environments, including aquariums, fish farms, and ice baths. It features a powerful 1/2 HP compressor, digital temperature control, and a low-noise, energy-efficient design. Please read this manual thoroughly before installation and operation to ensure proper use and longevity of your chiller.

IMPORTANT SAFETY INFORMATION

- This product is an overseas product. Please reconfirm product specifications, your phone number, and address before ordering.
- The maximum capacity of the aquarium chiller is 500L. For room temperatures between 25-28°C and water volumes of 400-450L, it can cool down to 23-24°C. For room temperatures above 30°C and water volumes of 400-450L, it can cool down to 25-26°C.
- When using in poorly ventilated areas, ensure a clearance of at least 20cm between the chiller unit and other objects to maintain proper heat dissipation and cooling efficiency. Reduced heat dissipation will lead to reduced cooling efficiency.
- Adjust the set temperature slightly based on the ambient temperature of the day.
- Always unplug the device before installation, maintenance, or when placing your hands into the water.
- Smaller water volumes generally result in better cooling effects. The actual cooling effect and the ability to reach the minimum temperature may vary depending on the water volume. The temperature adjustment range is related to the ambient environmental temperature.
- Before initial use, perform a leak check and verify that the unit operates normally.

PACKAGE CONTENTS

The Poafamx AL-500 Aquarium Chiller comes as a complete set, including all necessary components for immediate use.

- Poafamx AL-500 Chiller Unit
- Circulation Water Pump
- Connection Pipes (Inner diameter: 16mm)
- Power Cable
- Hose Clamps and other connectors



■ タイプ：
AL-500

■ 水容量：
≤500L/132Gal

■ 電圧：
110V/60hz

■ パワー：
1/2 HP

■ パイプの内径：
16mm

■ 重量：
21KG(46lb)

Figure 1: Poafamx AL-500 Chiller and Included Accessories. This image displays the main chiller unit with its dimensions (36cm x 32cm x 32cm) and all components provided in the package, including the water pump, connection pipes, and power cords.

SPECIFICATIONS

Model	AL-500
Power	1/2 HP
Weight	21 KG (46 lbs)
Pipe Inner Diameter	16 mm
Temperature Adjustment Range	18-26 °C
Dimensions (L x W x H)	36 x 32 x 32 cm (14.2 x 12.6 x 12.6 inches)

Voltage	110V 60Hz
Recommended Tank Volume	Up to 500 Liters

1/2 HP

強力なコンプレッサー冷却

冷却速度がより速い





急速冷却



フロン・フリー



省エネルギー

Figure 2: Internal Compressor and Cooling System. This image illustrates the powerful 1/2 HP compressor and efficient cooling mechanism, emphasizing its rapid cooling, eco-friendly (freon-free) operation, and energy-saving features.

SETUP INSTRUCTIONS

- Unpacking:** Carefully remove all components from the packaging. Inspect for any damage during transit.
- Placement:** Place the chiller unit on a stable, level surface. Ensure there is at least 20cm (8 inches) of clear space around all sides of the unit, especially the rear and sides where heat is dissipated, to allow for adequate ventilation. Avoid placing it in enclosed spaces or direct sunlight.
- Pump Connection:** Connect the provided circulation water pump to the water inlet of your aquarium or water system.
- Pipe Connection:** Connect the inlet and outlet pipes from the chiller to your water system. Ensure all connections are

secure and leak-free. The inner diameter of the pipes should be 16mm.

5. **Leak Check:** Before plugging in the chiller, fill your aquarium or water system and run the circulation pump (without the chiller powered on) to check for any leaks in the plumbing. Address any leaks immediately.
6. **Power Connection:** Once all connections are secure and leak-free, plug the chiller into a grounded 110V 60Hz power outlet.



Figure 3: Heat Dissipation and Placement Guidelines. This image highlights the large cooling fan and pure titanium heat sink, crucial for efficient heat exchange. It also visually reinforces the requirement for at least 20cm clearance from walls for optimal performance.

OPERATING INSTRUCTIONS

1. **Power On:** After successful setup and leak check, plug in the chiller. The digital display will illuminate.
2. **Set Temperature:** Use the control buttons on the digital display to set your desired water temperature within the 18-26°C range. Refer to the specific instructions for your model's control panel for detailed button functions.
3. **Automatic Operation:** The chiller will automatically begin cooling the water until it reaches the set temperature. Once the target temperature is achieved, the chiller will stop cooling. If the water temperature rises above the set point, the chiller will

automatically restart cooling to maintain the desired temperature.

- 4. **Monitoring:** Regularly monitor the water temperature displayed on the unit to ensure it is operating correctly.
- 5. **Initial Cooling Time:** Allow sufficient time for the chiller to reach the desired temperature, especially during initial setup or after significant temperature fluctuations. The cooling speed is efficient due to the 1/2 HP compressor.

MAINTENANCE

- **Regular Cleaning:** Periodically clean the air intake vents and fan blades to prevent dust buildup, which can hinder heat dissipation and reduce efficiency. Use a soft brush or vacuum cleaner.
- **Water Flow:** Ensure consistent and adequate water flow through the chiller. Reduced flow can impact cooling performance. Check the pump and pipes for blockages.
- **Pipe Inspection:** Regularly inspect all pipes and connections for signs of wear, cracks, or leaks. Replace damaged components as needed.
- **Unplug Before Maintenance:** Always unplug the chiller from the power outlet before performing any cleaning or maintenance tasks.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Chiller not turning on	No power supply; Loose connection; Unit malfunction	Check power outlet and cable; Ensure secure connections; Contact customer support if unit is still unresponsive.
Insufficient cooling	Poor ventilation; Water volume too large for conditions; Clogged air vents; Insufficient water flow; High ambient temperature	Ensure 20cm clearance around unit; Verify water volume is within recommended limits; Clean air vents; Check pump and pipes for blockages; Adjust set temperature based on ambient conditions.
Water leakage	Loose pipe connections; Damaged pipes or seals	Tighten all pipe connections; Inspect pipes and seals for damage and replace if necessary.
Unusual noise	Vibrations; Obstruction in fan; Compressor issue	Ensure unit is on a stable surface; Check fan for obstructions; If noise persists, contact customer support.

APPLICATION AREAS

The Poafamx AL-500 Aquarium Chiller is versatile and suitable for a wide range of applications requiring precise water temperature control:

- **Aquariums:** Ideal for maintaining optimal temperatures for various fish and aquatic life.
- **Home Use:** Suitable for small-scale aquatic setups.
- **Fish Shops:** Helps keep display tanks at stable temperatures.
- **Fish Farms:** Supports aquaculture operations by controlling water temperature for breeding and growth.
- **Ice Baths:** Can be used in conjunction with ice bath tubs for controlled cold therapy.
- **Hydroponics:** Maintains nutrient solution temperatures for optimal plant growth.

応用分野が広い

淡水 & 海水両用

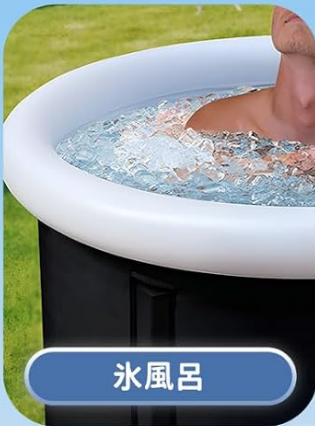


Figure 4: Diverse Applications of the Chiller. This image visually demonstrates the chiller's suitability for various environments, including ice baths, aquariums, hydroponic systems, and seafood markets, highlighting its versatility for both fresh and saltwater applications.

500L大容量 氷風呂に最適



アイスバスタブと組み合わせること
で、より効率的で長持ちするア
イスバスを体験できます。

Figure 5: Chiller with Ice Bath Tub. This image illustrates the chiller's capability to handle large volumes (500L) and its effective use with ice bath tubs for prolonged cold therapy experiences.

WARRANTY AND SUPPORT

This product comes with a one-year warranty from the date of purchase. If you encounter any quality issues with the device during this period, we offer a full refund.

Should you have any questions or experience any problems, please do not hesitate to contact us. We are committed to providing prompt assistance and ensuring your satisfaction. Our customer support operates Monday through Friday (excluding holidays). For support, please refer to the contact information provided with your purchase or visit the official Poafamx store on Amazon.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Answered questions about this manual

Why won't my Poafamx AL-500 aquarium chiller turn on?

If your Poafamx AL-500 chiller is not turning on, please follow these troubleshooting steps based on the official manual:Check the Power Supply: Ensure the power cable is firmly plugged into both the unit and...

[Read full answer](#)