

## BAOSHISHAN T2

# BAOSHISHAN 45L Mini Aquarium Cooler and Heater with Integrated Pump (Model T2)

Instruction Manual

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your BAOSHISHAN T2 45L Mini Aquarium Cooler and Heater. This device is designed to maintain a stable water temperature in your aquarium, ensuring a healthy environment for aquatic life. It features precise temperature control, low noise operation, and an integrated water pump for convenience.

## 2. IMPORTANT SAFETY INFORMATION

- **Pre-Assembly Check:** Ensure the machine is fully assembled before powering it on for testing.
- **Initial Water Presence:** It is normal for the machine to contain residual water from factory testing. This does not indicate a used or faulty product.
- **Saltwater Aquarium Use:** For saltwater aquariums, the water pipes must be flushed with fresh water for 1-2 hours prior to use. Failure to do so may compromise the health of aquatic creatures due to potential oil residue inside the machine.
- **Full Power Operation:** The device will operate at full power when there are significant temperature differences between the desired setting and the current water temperature.
- **Placement:** Position the chiller on the left side of the aquarium, leaving ample space on the left side of the machine for heat dissipation.

## 3. PACKAGE CONTENTS

Please check the package carefully to ensure all items are present:



Figure 3.1: Included Components

- Chiller Unit
- Power Cord
- Silicone Hose
- Pipe Bracket
- Water Inlet Filter
- Flat Spout for Water Outlet
- Fuse
- Filter Cotton Cover
- Tool Bag

4. PRODUCT SPECIFICATIONS



Figure 4.1: Product Dimensions and Ports

Technical Data

Feature	Specification
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Model Number	T2
Dimensions (L x W x H)	15 x 19 x 18 cm
Weight	3.7 kg
Cooling Capacity (Variable Frequency)	10-93W
Heating Capacity (Variable Frequency)	10-230W
Main Pump Power	10.8W
Auxiliary Pump Power	3.6W
Water Flow Rate	50-200 L/H
Suction/Lift	4m
Pipe Diameter	8/11 mm
Power Cord Length	Approximately 1.6m
Temperature Control Range	10 to 35 °C
Cooling Performance (Ambient 32°C)	≤35L to 23-26°C; ≤45L to 25-28°C
Heating Performance (Ambient 8°C)	≤45L to 28-32°C
Noise Level (Thermostat Mode)	35 dB (below 40 dB in silent mode)
Suitable for	Freshwater aquariums (up to 45L)

## 5. SETUP AND INSTALLATION

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Follow these steps to set up your aquarium chiller:

- Unpack Components:** Carefully remove all items from the packaging and verify against the package contents list.
- Positioning:** Place the chiller unit on a stable, flat surface next to your aquarium. It is recommended to position the chiller on the left side of the aquarium, ensuring sufficient space (at least 10-15 cm) on the left side for proper heat dissipation.
- Connect Hoses:**
  - Connect the silicone hoses to the inlet and outlet ports of the chiller.
  - Attach the water inlet filter to the end of the inlet hose that will be submerged in the aquarium.
  - Attach the flat spout for water outlet to the end of the outlet hose that will return water to the aquarium.
  - Secure the hoses within the aquarium using the provided pipe bracket.
- Submerge Hoses:** Place the inlet filter and outlet spout into the aquarium, ensuring they are fully submerged.
- Power Connection:** Connect the power cord to the chiller unit and then plug it into a suitable power outlet.
- Initial Priming (Automatic):** The built-in self-priming water circulation design automatically purges air and fills with water upon first power-on. One-touch operation completes this process.



# MINI REFRIGERATORE INTELLIGENTE PER ACQUARIO

Rendi il tuo acquario pieno di vitalità



Figure 5.1: Automatic Water Pump and Circulation

## SUGGERIMENTI PER L'USO DEL TERMOSTATO

- La macchina è impostata di default con l'uscita dell'aria a destra e l'ingresso dell'aria a sinistra. Si consiglia di posizionare il refrigeratore sul lato sinistro dell'acquario, lasciando un ampio spazio sul lato sinistro della macchina per la dissipazione del calore.
- Se è necessario sostituire l'uscita dell'aria, è possibile visualizzare il video dell'operazione nella pagina dei dettagli.



Figure 5.2: Suitable for Freshwater Aquariums (with Saltwater Warning)

## TEMPERATURA COSTANTE TUTTO L'ANNO



Figure 5.3: Modular Design and Temperature Stability

## 6. OPERATING INSTRUCTIONS

## 6.1. Manual Temperature Adjustment

The chiller features physical buttons for direct temperature control:

1. To unlock the screen and adjust the temperature, simultaneously press the top two buttons.
2. Once unlocked, press either button to adjust the desired temperature.
3. Pressing two buttons simultaneously will also initiate automatic water absorption and air exhaust.

## REFRIGERATORE SEMPLICE E INTELLIGENTE

Scaricare questa applicazione per utilizzare la macchina.  
Tutte le operazioni vengono eseguite all'interno del programma.  
(È anche possibile scansionare il codice QR sul manuale  
di istruzioni per scaricare l'APP)

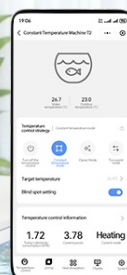


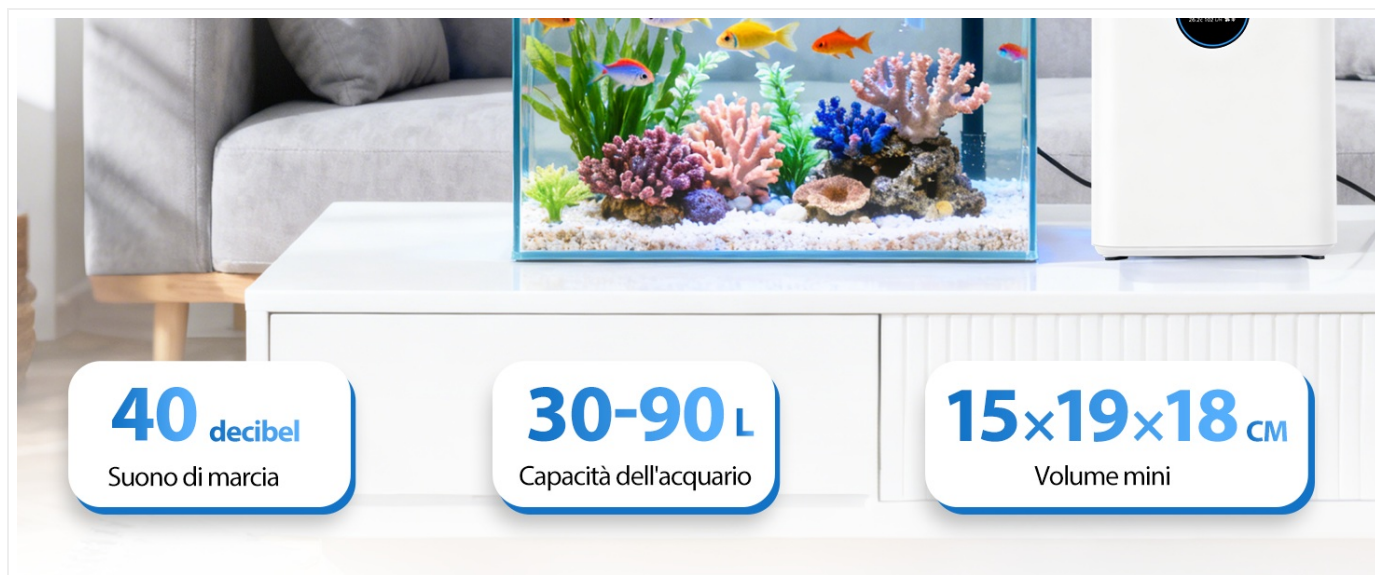
Figure 6.1: Temperature Adjustment Buttons and Status Indicators

### Indicator Lights:

- **Blue light:** Indicates Cooling mode.
- **Red light:** Indicates Heating mode.
- **Green light:** Indicates the machine has stopped working (e.g., reached target temperature).

## 6.2. Smart App Control (T2 Smart Version)

The T2 Smart Version allows for remote control and monitoring via a mobile application. Refer to the product description or scan the QR code in the manual (if provided) to download the app.





**Figure 6.2:** Mobile App Interface for Chiller Control

The app provides a simple and clear user interface, allowing you to:

- Control pump modes (constant speed, timer, wave making).
- Set temperature alarms.
- Calibrate water temperature.
- Monitor electricity usage.
- Select temperature control strategies (Constant temperature mode, Classic mode, Two-point mode).

### 6.3. Noise Level

The chiller is designed for low-noise operation, featuring an integrated self-priming water circulation pump and a low-noise fan with dual ball bearings. In thermostat mode, the noise level is approximately 35 decibels, making it suitable for living rooms, bedrooms, and offices.

## 7. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your chiller.

- **Cleaning Hoses:** For saltwater aquariums, it is crucial to flush the water pipes with fresh water for 1-2 hours before initial use and periodically thereafter to prevent residue buildup that could harm aquatic life.
- **Filter Maintenance:** Regularly check and clean the water inlet filter and filter cotton cover to ensure unrestricted water flow.
- **Unit Cleaning:** Wipe the exterior of the chiller unit with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Modular Design:** The modular design allows for easy cleaning of internal components if necessary. Refer to the product diagram for component access.

## 8. TROUBLESHOOTING

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If you encounter issues with your BAOSHISHAN T2 chiller, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Chiller not turning on	No power supply; Loose power connection; Blown fuse.	Check power outlet; Ensure power cord is securely connected; Replace fuse (refer to package contents for spare).
Water not circulating	Hoses kinked or blocked; Inlet filter clogged; Pump malfunction.	Check hoses for kinks or obstructions; Clean inlet filter; Contact customer support if pump is faulty.
Temperature not stable or incorrect	Incorrect temperature setting; Sensor issue; Significant ambient temperature fluctuations; Chiller capacity exceeded.	Verify target temperature setting; Ensure water flow is adequate; Allow time for temperature stabilization; Ensure aquarium size is within recommended limits (up to 45L). Calibrate temperature via app if necessary.
Unusual noise during operation	Air trapped in system; Unit not level; Fan obstruction.	Allow automatic priming to complete; Ensure unit is on a flat surface; Check for any obstructions around the fan vents.

If the problem persists after attempting these solutions, please contact customer support.

## 9. WARRANTY AND SUPPORT

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### 9.1. Warranty Information

This product is covered by a standard warranty. For specific details regarding warranty claims, returns, or defects, please refer to the purchase platform's return policy or contact the seller directly. Generally, products can be returned within 30 days of receipt if you change your mind. For defective or damaged products, specific assistance pages are available on the purchase platform.

### 9.2. Customer Support

For further assistance, technical support, or inquiries not covered in this manual, please contact BAOSHISHAN customer service through the retailer where the product was purchased. Please have your model number (T2) and purchase date available when contacting support.

