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› Walfront Smart Thermostat TRV Valve Instruction Manual

Walfront WALFRONTowpn0r48vb

Walfront Smart Thermostat TRV Valve Instruction Manual

Model: WALFRONTowpn0r48vb

INTRODUCTION

Thank you for choosing the Walfront Smart Thermostat TRV Valve. This device is designed to provide intelligent temperature control for your home, offering convenience through app and voice control, multiple operating modes, and programmable schedules. Please read this manual carefully before installation and operation to ensure proper use and optimal performance.

SAFETY INFORMATION

- Ensure the power supply is disconnected before installation or maintenance.
- This device is intended for indoor use only.
- Do not expose the device to water or excessive humidity.
- Keep out of reach of children.
- Use only the specified battery type (2 x AA batteries).

PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Thermostatic Valve
- 10 x Installation Accessories
- 1 x Screw
- 1 x Nut
- 1 x User Manual (this document)

Note: A Zigbee hub is required for smart functionality and app control. The Zigbee hub is not included and must be purchased separately.

PRODUCT OVERVIEW

The Walfront Smart Thermostat TRV Valve features an integrated display and control knob for easy interaction. Below is a diagram illustrating the key components and display indicators:

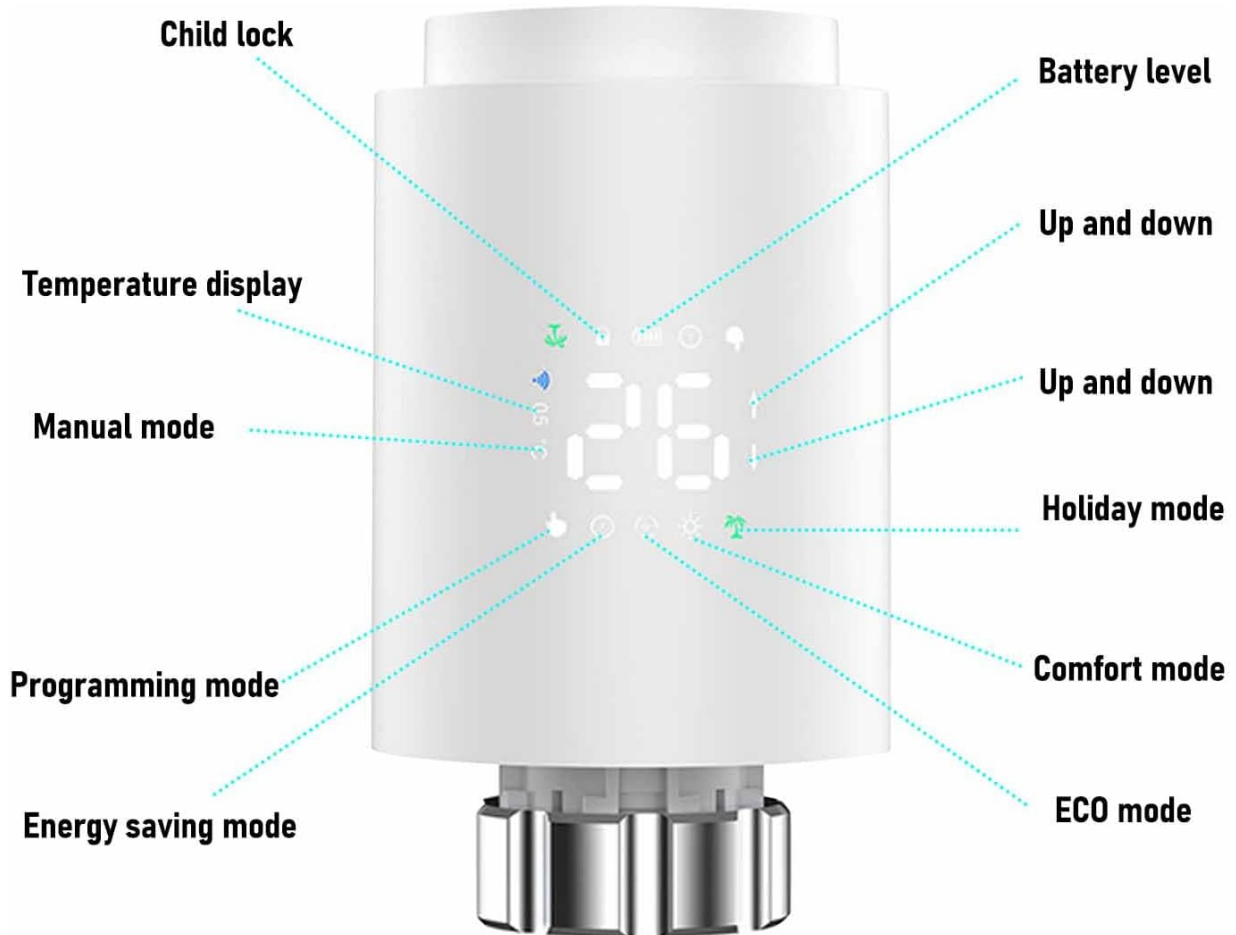


Image: Front view of the Walfront Smart Thermostat TRV Valve, highlighting its display and various indicators for modes, settings, and battery status.

- **Temperature Display:** Shows the current or set temperature.
- **Child Lock Indicator:** Appears when the child lock function is active.
- **Battery Level Indicator:** Displays the remaining battery power.
- **Up and Down Arrows:** Used for adjusting temperature or navigating settings.
- **Manual Mode Indicator:** Shows when the thermostat is in manual control.
- **Programming Mode Indicator:** Indicates an active programmed schedule.
- **Holiday Mode Indicator:** Activates during holiday settings.
- **Comfort Mode Indicator:** Engaged for comfort temperature settings.
- **ECO Mode Indicator:** Shows when energy-saving mode is active.
- **Energy Saving Mode Indicator:** Indicates energy-saving operation.

SPECIFICATIONS

Feature	Specification
Item Type	Thermostatic Valve
Material	ABS, PC
Power Supply	3V, 2 x AA Batteries (not included)
Maximum Stroke	Approx. 5.5mm / 0.22in
Accuracy	±0.5°C
Set Temperature Range	5 to 45°C
Display Temperature Range	0 to 70°C
Operating Temperature	0 to 45°C
Operating Humidity	5 to 95% RH (non-condensing)
Storage Temperature	-5 to 45°C
Timing Error	1%
Level	IP20
Button	Rotation knob
App Compatibility	Tuya, Smart Life App



Image: Detailed dimensions of the Walfront Smart Thermostat TRV Valve.

Motor Characteristics:

- **Ultra quiet:** Motor sound less than 25 decibels.
- **Ultra large stroke:** The motor stroke is 5.5mm / 0.22in.
- **Extra large diameter:** The motor rod diameter is 8mm / 0.31in.
- **Power saving:** The standby power consumption of the motor is very small.

SETUP

1. Battery Installation

1. Gently twist and remove the top cover of the thermostatic valve.
2. Insert two AA batteries (not included) into the battery compartment, ensuring correct polarity (+/-).
3. Replace the top cover, twisting it until it clicks securely into place.

2. Physical Installation

The Walfront Smart Thermostat TRV Valve is designed for easy installation on various radiator valves. Use the provided installation accessories to match your specific valve type.

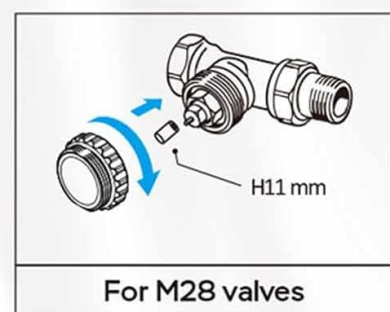
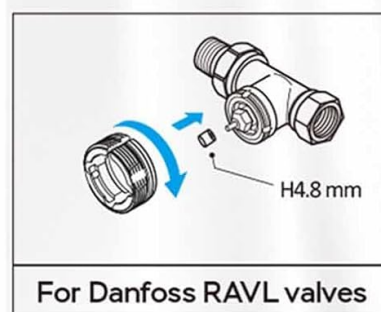
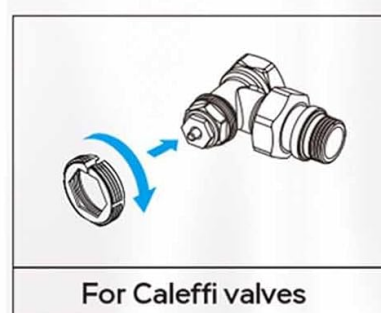
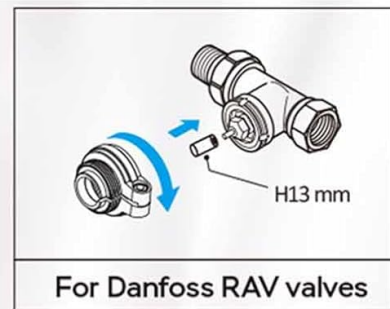
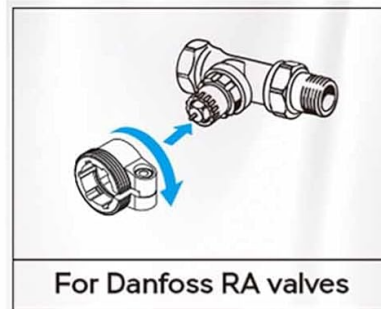
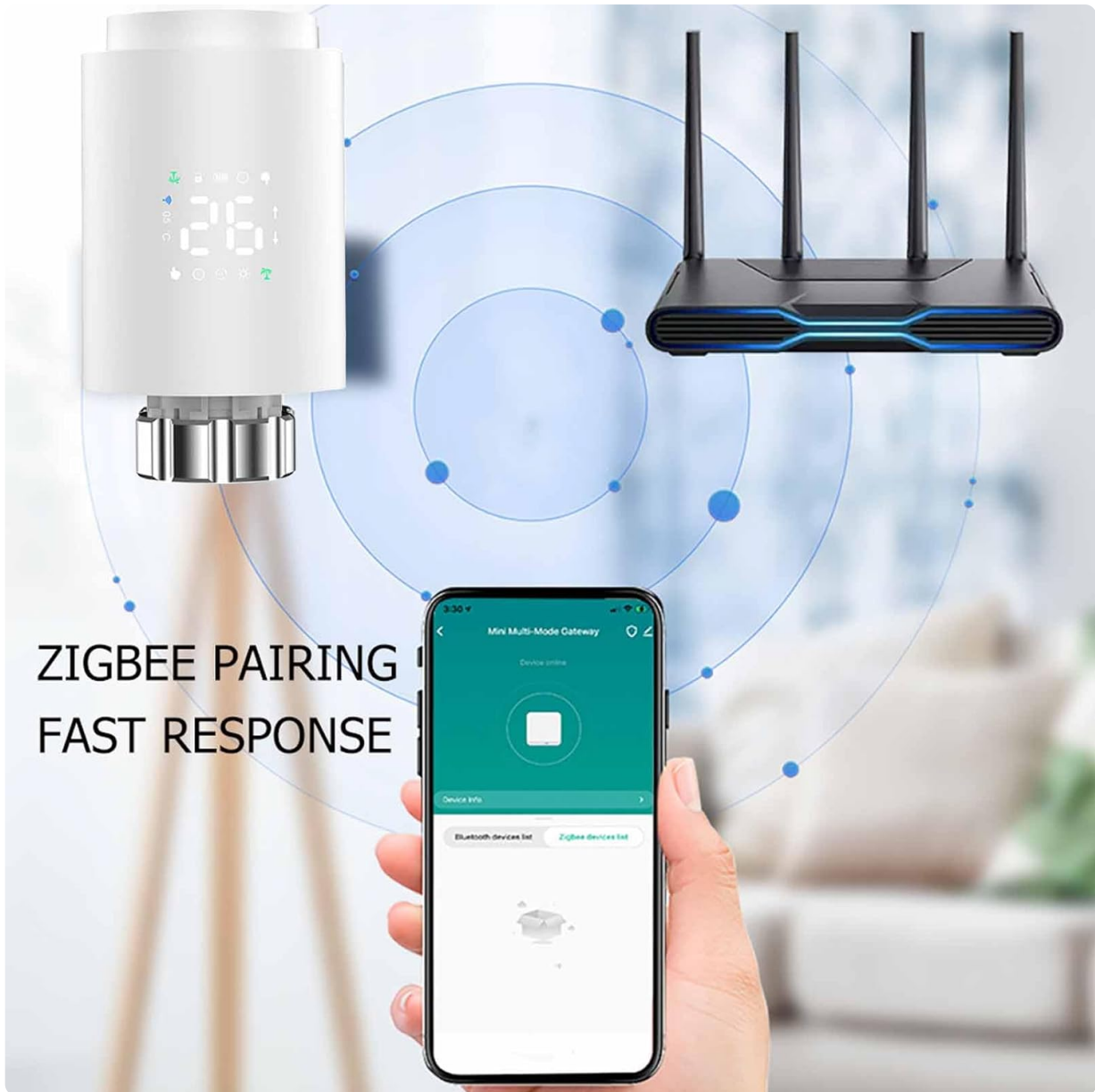


Image: Installation guide for various radiator valve types, including adapters for Danfoss, Caleffi, Giacomini, and M28 valves.

1. Identify your existing radiator valve type.
2. Select the appropriate adapter from the installation accessories.
3. Attach the adapter to your radiator valve as shown in the diagrams.
4. Screw the Walfront Smart Thermostat TRV Valve onto the adapter until it is firmly secured.

3. App Installation and Pairing (Requires Zigbee Hub)

To utilize the smart features of your thermostat, you need to connect it to a Zigbee hub via the Tuya or Smart Life app.



ZIGBEE PAIRING FAST RESPONSE

Image: Visual representation of the Zigbee pairing process between the thermostat, a Zigbee gateway, and the mobile app.

1. Download the **Tuya Smart** or **Smart Life** app from your smartphone's app store (iOS or Android).
2. Register or log in to your account.
3. Ensure your Zigbee hub is powered on and connected to your home Wi-Fi network.
4. In the app, tap 'Add Device' or the '+' icon.
5. Select 'Gateway' or 'Zigbee Gateway' and follow the on-screen instructions to add your Zigbee hub.
6. Once the Zigbee hub is added, select it and then choose 'Add sub-device'.
7. Follow the app's instructions to put the TRV valve into pairing mode (usually by pressing and holding a button on the device until an indicator flashes).
8. The app will detect and add the TRV valve. You can then rename the device for easy identification.

OPERATING INSTRUCTIONS

1. Basic Operation (Manual Control)

- **Adjusting Temperature:** Rotate the knob on the thermostat to increase or decrease the desired

temperature. The new set temperature will be displayed.

- **Manual Mode:** The thermostat will maintain the set temperature until changed manually or a programmed schedule takes over.

2. App Control

Once paired with the Tuya or Smart Life app, you can control your thermostat remotely.



Image: Mobile app interface demonstrating temperature control and device status.

- Open the Tuya Smart or Smart Life app and select your TRV valve.
- You can view the current room temperature and adjust the set temperature directly from the app.
- Access various operating modes and programming options through the app interface.

3. Operating Modes

The thermostat offers several modes to suit your needs:

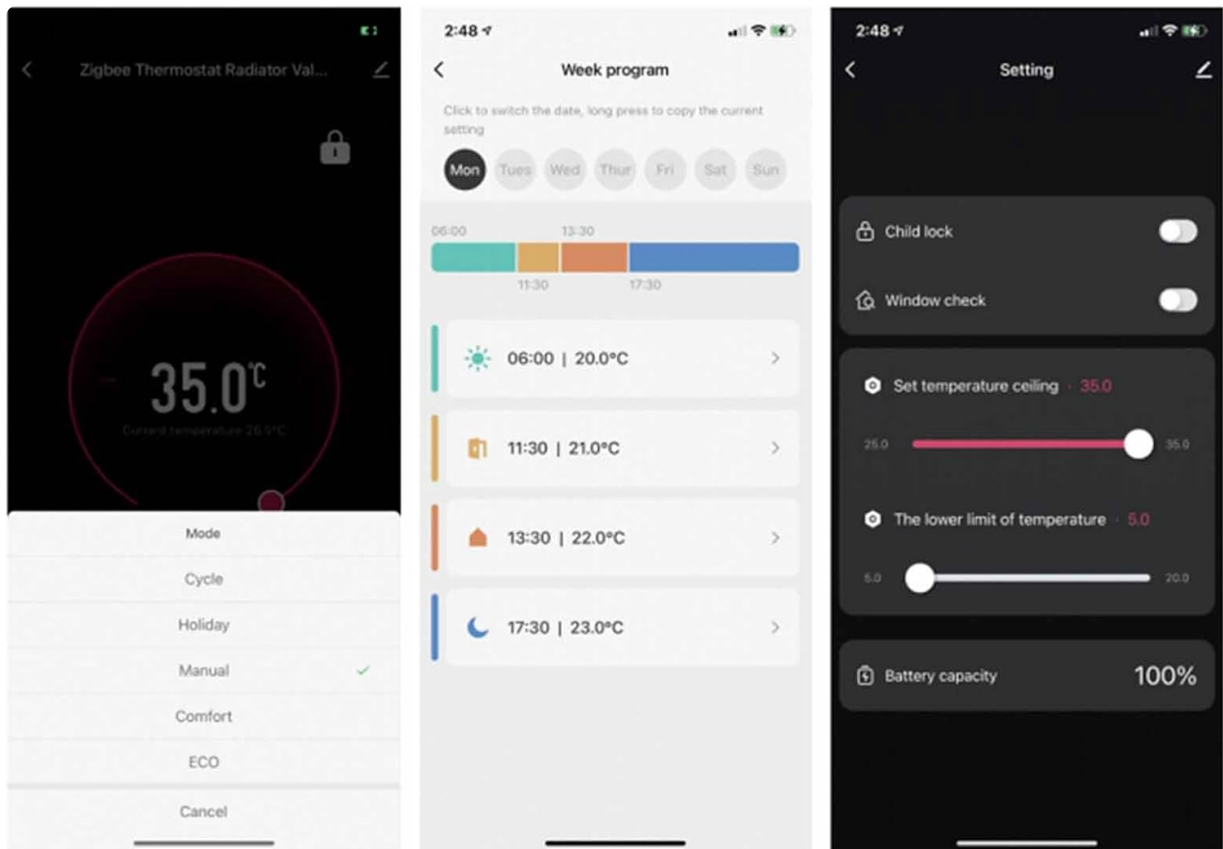


Image: App screenshots showing mode selection, weekly programming, and general settings.

- **Manual Mode:** Maintains a constant temperature set by the user.
- **Automatic Mode:** Follows the programmed weekly schedule.
- **Comfort Mode:** Sets the temperature to a predefined comfortable level.
- **ECO Mode (Energy Saving):** Sets the temperature to an energy-efficient level.
- **Vacation Mode:** Maintains a lower, energy-saving temperature for extended periods when you are away.
- **Vent Open Mode (Window Check):** Automatically detects open windows/vents and temporarily suspends heating to save energy.

4. Weekly Programmable Schedules

Create personalized heating schedules for maximum convenience and energy efficiency.

- The thermostat supports 5+2 (weekdays/weekend), 6+1 (weekdays/Saturday/Sunday), or 7-day programming options.
- You can set up to six time slots per day, each with its own desired temperature.
- Access and configure schedules through the Tuya or Smart Life app under the 'Weekly Program' section.

5. Child Lock

Activate the child lock feature via the app settings to prevent unauthorized changes to the thermostat settings.

6. Voice Control

The thermostat supports voice control through compatible smart home assistants (e.g., Amazon Alexa,

Google Assistant) when integrated with the Tuya/Smart Life app. Refer to your smart assistant's instructions for connecting Tuya/Smart Life devices.

7. Sharing Device

You can share control of the thermostat with family members through the Tuya or Smart Life app.



Image: Illustration of sharing device control with multiple family members via the app.

1. In the app, navigate to the device settings for your TRV valve.
2. Look for the 'Share Device' option.
3. Follow the prompts to invite family members to control the device. They will need their own Tuya/Smart Life accounts.

MAINTENANCE

- **Battery Replacement:** When the battery indicator shows low power, replace the two AA batteries promptly to ensure continuous operation.
- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.

- **Storage:** If storing the device for an extended period, remove the batteries.

TROUBLESHOOTING

- **Device not powering on:** Check battery installation and ensure batteries are fresh.
- **Cannot connect to app:** Ensure a Zigbee hub is present and properly connected to your Wi-Fi. Confirm the thermostat is in pairing mode. Check Wi-Fi signal strength.
- **Temperature not adjusting:** Verify the device is not in child lock mode. Check if the valve is physically obstructed.
- **Inaccurate temperature readings:** Ensure the thermostat is not exposed to direct sunlight or drafts, which can affect readings.
- **App shows device offline:** Check the Zigbee hub's connection to the internet and ensure the thermostat is within range of the hub.

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided at the point of purchase or contact Walfront customer service. Keep your purchase receipt as proof of purchase.

DISPOSAL

This product contains electronic components and batteries. Do not dispose of it with general household waste. Please follow local regulations for the proper disposal of electronic waste and batteries to protect the environment.