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› Walfront Intelligent Touchscreen Thermostat (Model WALFRONTxrh7c8g92p) User Manual

Walfront WALFRONTxrh7c8g92p

Walfront Intelligent Touchscreen Thermostat User Manual

Model: WALFRONTxrh7c8g92p

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Walfront Intelligent Touchscreen Thermostat. This device features a 4.3-inch full-color touchscreen, Wi-Fi connectivity, and supports remote control via mobile applications compatible with Tuya and Google Assistant. It is designed to monitor and regulate indoor temperature and humidity, contributing to energy efficiency and home comfort.

2. SAFETY INFORMATION

- **Electrical Safety:** Installation should be performed by a qualified electrician or a knowledgeable individual. Ensure power to the HVAC system is turned off at the circuit breaker before installation to prevent electrical shock.
- **Voltage:** This thermostat operates on 24VAC. Do not connect it to higher voltage systems.
- **Indoor Use Only:** This device is designed for indoor use within a temperature range of 0-50°C (32-122°F) and humidity range of 5-95%.
- **Avoid Moisture:** Do not expose the thermostat to water or excessive humidity.

3. PACKAGE CONTENTS

Verify that all components are present in the package:

- 1 x Touch Screen Thermostat
- 1 x Back Cover
- 1 x Wall Plate
- 1 x Controller
- 12 x Accessories (screws, anchors, etc.)
- 1 x Double Sided Adhesive
- 1 x Instruction Book (this manual)
- 1 x Label

4. PRODUCT OVERVIEW

The Walfront Intelligent Touchscreen Thermostat features a sleek design with a large, intuitive display for easy interaction and monitoring.



Figure 4.1: Front view of the thermostat, displaying current temperature, humidity, and operational modes on its 4.3-inch LCD screen.



Figure 4.2: Rear view of the thermostat, illustrating the wiring terminals for connection to your HVAC system.



Figure 4.3: Angled view of the thermostat, showing the ventilation grilles on the side, which are important for internal temperature and humidity sensing.

5. SETUP

5.1 Installation Type

The thermostat supports both desktop use and wall-mounted installation. Choose the method that best suits your needs.

5.2 Wiring Instructions

Before proceeding, ensure the power to your HVAC system is completely off at the circuit breaker.

1. Remove your old thermostat's faceplate. Take a picture of the wiring for reference.
2. Disconnect the wires from your old thermostat.
3. Mount the new Walfront thermostat's wall plate to the desired location using the provided screws and anchors, or use the double-sided adhesive for desktop placement.
4. Connect the HVAC system wires to the corresponding terminals on the Walfront thermostat. This thermostat requires 18AWG wiring, specifically R and C lines for power. Refer to the wiring diagram in the included instruction book for detailed connections.
5. Once wiring is complete, attach the thermostat's touch screen unit to the back cover/wall plate.
6. Restore power to your HVAC system at the circuit breaker.

5.3 Initial Power-On and Wi-Fi Connection

Upon first power-on, the thermostat will guide you through the initial setup process, including connecting to your home Wi-Fi network (802.11B G N20 N40 at 2.4GHz).

1. Follow the on-screen prompts to select your language and time zone.
2. Select your Wi-Fi network from the list and enter the password.
3. Download the compatible mobile application (e.g., Tuya Smart app) from your device's app store.
4. Register or log in to the app and follow the in-app instructions to add your new thermostat. This typically involves putting the thermostat into pairing mode (refer to the on-screen instructions or the included instruction book for specific steps).



Figure 5.1: Example of the mobile application interface for remote control and monitoring.

6. OPERATING INSTRUCTIONS

6.1 Basic Touchscreen Operation

The 4.3-inch full-color touchscreen allows direct control of your thermostat.

- **Temperature Adjustment:** Use the up/down arrows on the screen to set your desired temperature.
- **Mode Selection:** Tap the mode icon (e.g., fan, snowflake for cool, sun for heat) to cycle through available operating modes.
- **Display Information:** The screen continuously displays current temperature, humidity, time, and Wi-Fi status.

6.2 Remote Control via APP

Once connected to the mobile application, you can control your thermostat from anywhere with an internet connection.

- **Temperature Control:** Adjust the temperature remotely.
- **Scheduling:** Set up daily or weekly schedules to automate temperature changes.
- **Monitoring:** View current temperature and humidity levels.
- **Mode Changes:** Switch between heating, cooling, and fan-only modes.

6.3 Smart Learning Function

The thermostat incorporates an intelligent algorithm that learns your family's habits and automatically adjusts the indoor temperature for optimal comfort and energy savings over time. Allow several days for the thermostat to learn your preferences.

6.4 Voice Control Integration

This thermostat is compatible with Google Assistant. Once integrated with your smart home system, you can use

voice commands to adjust settings (e.g., "Hey Google, set the thermostat to 72 degrees").

7. MAINTENANCE

- **Cleaning:** Gently wipe the touchscreen and exterior with a soft, dry, or slightly damp cloth. Do not use abrasive cleaners or solvents.
- **Firmware Updates:** Ensure your thermostat's firmware is up to date through the mobile application to benefit from the latest features and improvements.
- **Sensor Care:** Keep the thermostat's ventilation grilles clear of dust and obstructions to ensure accurate temperature and humidity readings.

8. TROUBLESHOOTING

Issue	Possible Cause	Solution
Thermostat not powering on	No power from HVAC system; incorrect wiring.	Check circuit breaker for HVAC system. Verify R and C wire connections. Ensure 24VAC power supply.
Cannot connect to Wi-Fi	Incorrect Wi-Fi password; out of range; 5GHz network.	Ensure correct 2.4GHz Wi-Fi password. Move thermostat closer to router. Confirm router is broadcasting 2.4GHz.
App cannot find thermostat	Thermostat not in pairing mode; Wi-Fi issue.	Put thermostat into pairing mode (refer to device screen). Check Wi-Fi connection on both thermostat and phone.
Inaccurate temperature reading	Blocked sensors; thermostat exposed to direct sunlight or drafts.	Ensure ventilation grilles are clear. Relocate thermostat if it's in an unsuitable spot.

9. SPECIFICATIONS

Feature	Specification
Model Name	WALFRONTxrh7c8g92p
Display Type	4.3 Inch Full Color Touch Screen LCD
Control Type	Touch, App
Connectivity Technology	Wi-Fi (802.11B G N20 N40 at 2.4GHz)
Controller Type	Google Assistant, Tuya App
Power Source	Corded Electric
Electrical Rating	24VAC, 1A Current Carrying; 5A 50/60HZ
Wiring	18AWG, R and C lines for HVAC system required
Operating Temperature Range	0-50°C (32-122°F)
Operating Humidity Range	5-95% (non-condensing)
Storage Temperature Range	-30°C-60°C (-22°F-140°F)
Mounting Type	Desktop Use or Wall Mounted
PIR Sensor	Detection Room, Sensing Distance Three Meters, Angle 70°

10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the contact information provided with your purchase documentation or contact the seller directly. Keep your purchase receipt as proof of purchase.