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Coiiwsei RTH701

Coiiwsei RTH701 Non-Programmable Thermostat User Manual

Model: RTH701

1. Introduction

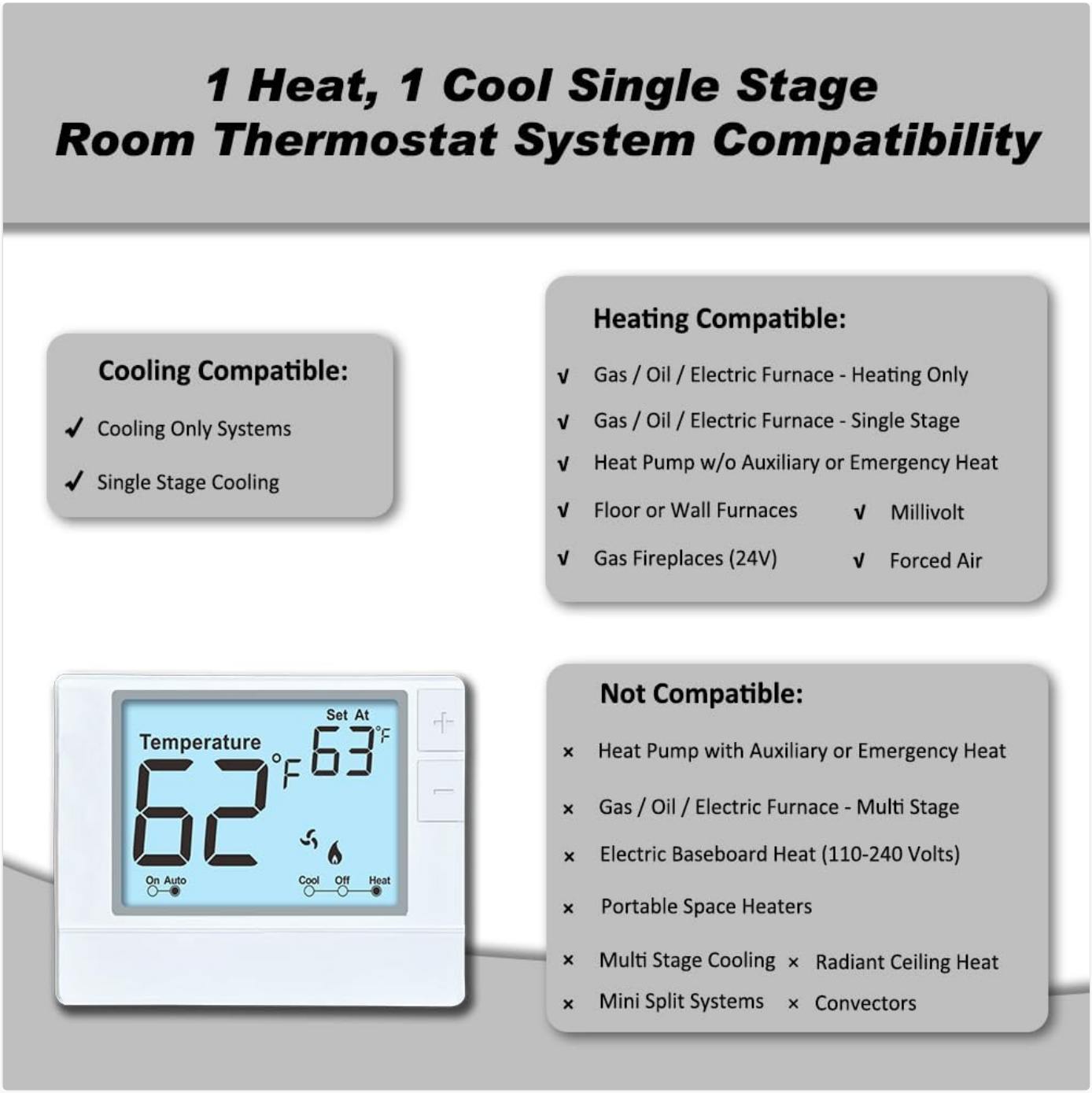
This manual provides detailed instructions for the installation, operation, and maintenance of your Coiiwsei RTH701 Non-Programmable Thermostat. Designed for conventional single-stage heating and cooling systems (1 Heat/1 Cool), this thermostat offers straightforward temperature control with a clear, backlit LCD display.



Front view of the Coiiwsei RTH701 non-programmable thermostat, showing its large digital display with current temperature and set temperature, along with fan and system mode indicators.

1.1 System Compatibility

The Coiiwsei RTH701 thermostat is compatible with a variety of conventional single-stage HVAC systems. Please review the compatibility information below to ensure it meets your system requirements.



A detailed chart outlining compatible and incompatible HVAC systems for the Coiiwsei RTH701 thermostat, including single-stage cooling, gas/oil/electric furnaces, heat pumps without auxiliary heat, and various incompatible systems like multi-stage or line voltage.

Compatible Systems:

- Forced air (gas, oil, or electric)
- Electric furnace
- Hot water steam or gravity radiant heat
- Heat-only systems
- Heat pump without auxiliary or emergency heat
- Millivolt systems
- Gas fireplaces (24V)
- Floor or wall furnaces
- Cool-only systems

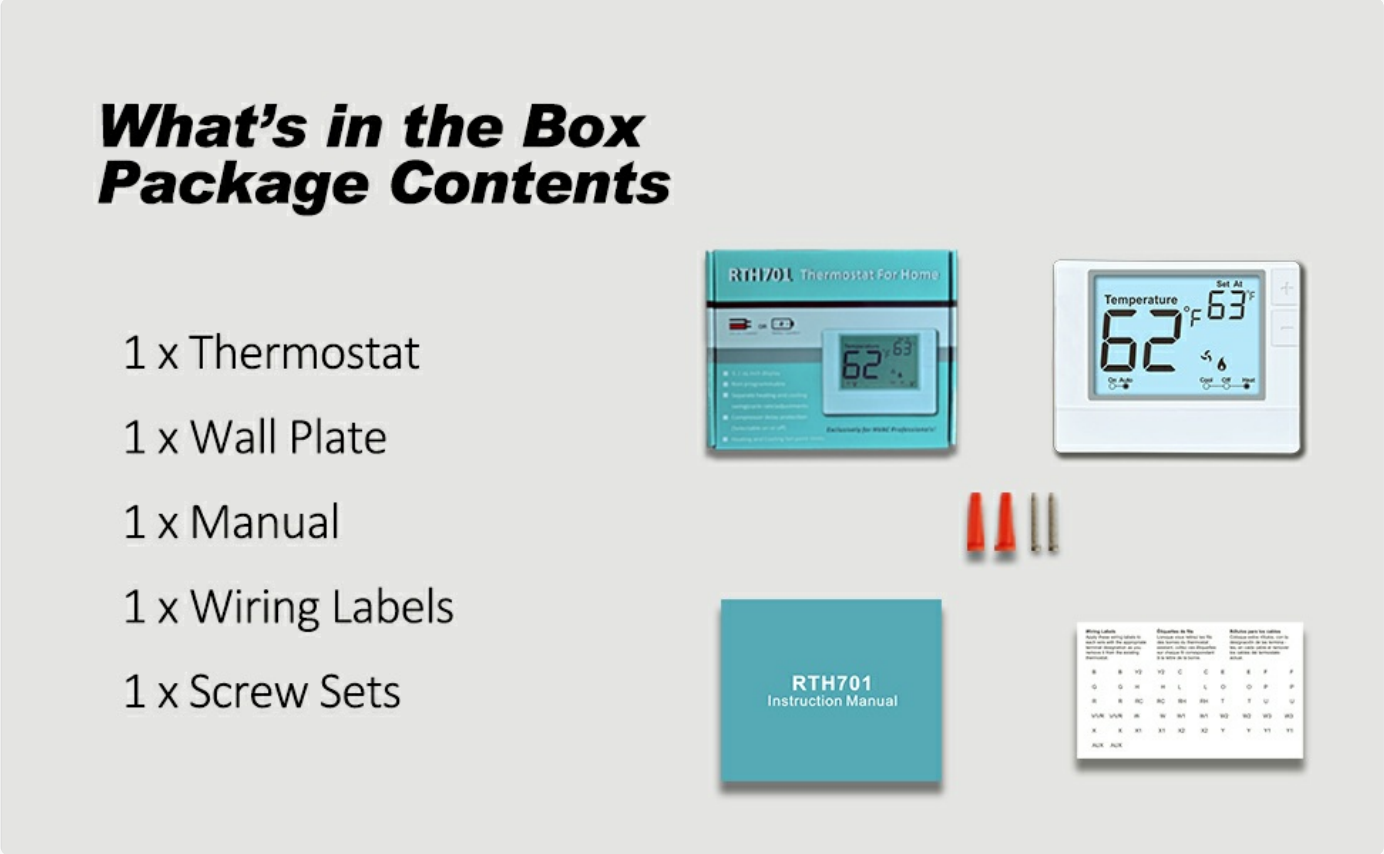
Not Compatible With:

- Heat pump with auxiliary or emergency heat
- Dual fuel/hybrid heating systems
- Electric baseboard heat (110-240 volts)
- Line voltage systems
- Convectors
- Radiant-ceiling heat
- Mini split systems
- 12V RV systems

2. Setup and Installation

2.1 What's in the Box

Before beginning installation, verify that all components are present:



An image displaying the contents of the Coiiwsei RTH701 thermostat package, including the thermostat unit, wall plate, instruction manual, wiring labels, and screw set.

- One Coiiwsei RTH701 Thermostat
- One Wall Plate
- One Instruction Manual
- One Set of Wiring Labels
- One Set of Screws

2.2 Pre-Installation Checklist

1. **Turn off power:** Before starting, ensure the power to your heating/cooling system is turned off at the main breaker or fuse box to prevent electrical shock.

2. **Verify compatibility:** Confirm your HVAC system is compatible with the RTH701 thermostat (refer to Section 1.1).
3. **Gather tools:** You will need a screwdriver (Phillips head), wire strippers (if wires are not pre-stripped), and possibly a drill.

2.3 Removing Your Old Thermostat

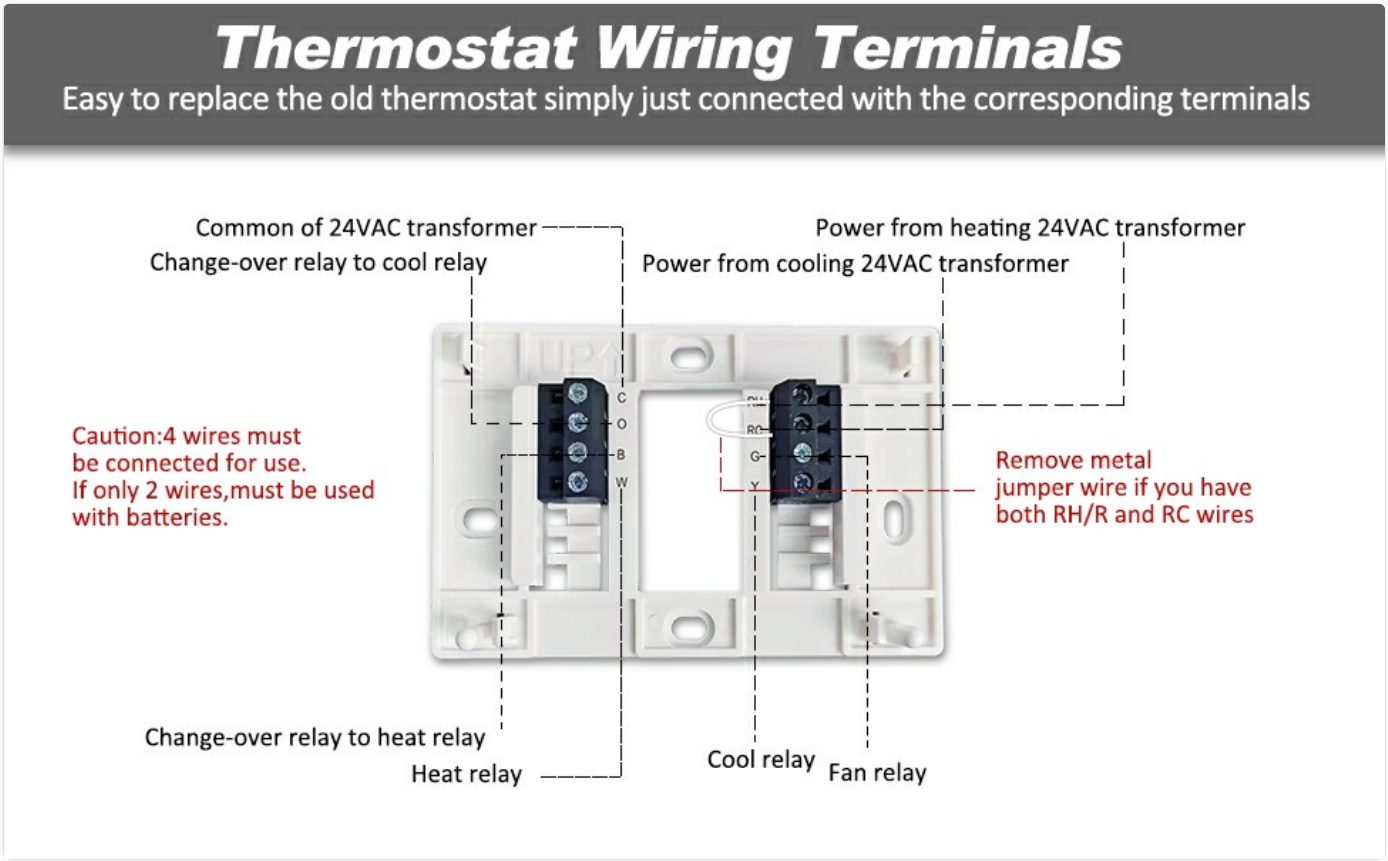
1. Remove the cover of your old thermostat.
2. Take a picture of the wiring connections for reference.
3. Label each wire with the provided wiring labels according to its terminal designation (e.g., R, C, Y, W, G).
4. Disconnect the wires and remove the old thermostat's wall plate.

2.4 Mounting the New Thermostat

1. Position the new wall plate against the wall where the old thermostat was located.
2. Mark the screw holes. If new holes are needed, drill pilot holes.
3. Secure the wall plate to the wall using the provided screws.

2.5 Wiring Connections

Connect the labeled wires to the corresponding terminals on the new thermostat's wall plate. Ensure connections are secure.



A close-up view of the Coiiwsei RTH701 thermostat's wiring terminals (C, O, B, W, RH, RC, G, Y) with corresponding labels for common 24VAC, heat, cool, and fan connections. Note: 4 wires must be connected for use. If only 2 wires, batteries must be used. Remove metal jumper wire if you have both RH/R and RC wires.

Terminal Designations:

- **C:** Common 24VAC transformer (system power supply)
- **O:** Reversing valve cool (for heat pump systems)

- **B:** Reversing valve heat (for heat pump systems)
- **W:** Heat relay
- **RH:** 24VAC (system power supply) - Heat
- **RC:** 24VAC (system power supply) - Cool
- **G:** Fan relay
- **Y:** Cool relay

Note: If your system has separate RH and RC wires, remove the metal jumper wire connecting them on the thermostat. If you only have one R wire, connect it to RH and leave the jumper in place.

2.6 Electric or Gas Switch Setting

Locate the Electric/Gas switch on the back of the thermostat unit. Set it according to your heating system type:

- If you have an electric furnace, set the switch to**ELEC**.
- If you have a gas or oil furnace, set the switch to**GAS**.

2.7 Battery Installation

The thermostat requires 2 AA alkaline batteries (not supplied) for operation or as a backup power source if a C-wire is not available. The front-load battery compartment makes replacement easy.

1. Open the battery compartment door located at the bottom front of the thermostat.
2. Insert two new AA alkaline batteries, ensuring correct polarity (+/-).
3. Close the battery compartment door.

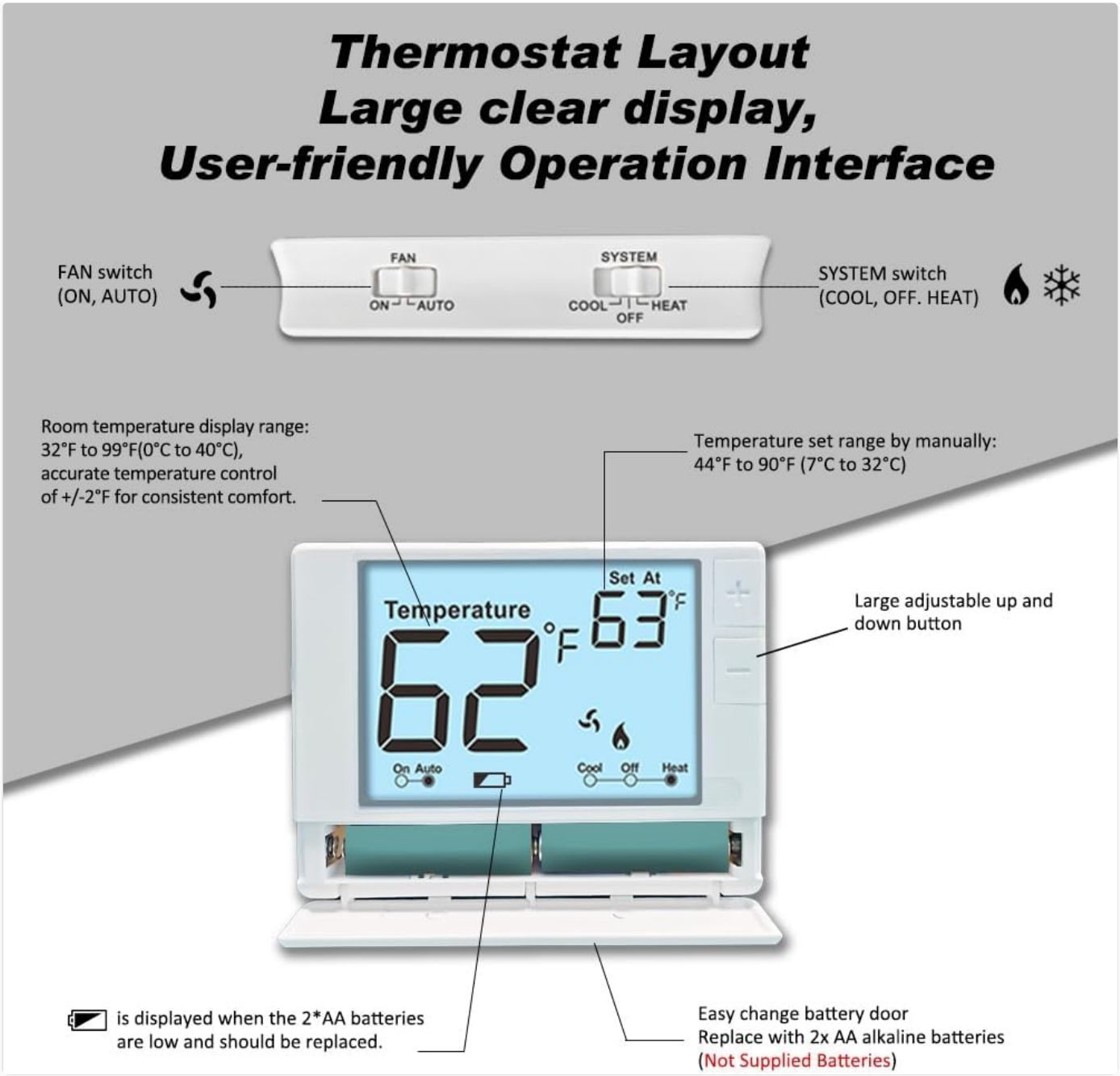
Note: When a C-wire is available, the batteries provide a back-up source of power, maintaining settings during a power outage.

2.8 Final Steps

1. Carefully align the thermostat unit with the wall plate and snap it into place.
2. Restore power to your HVAC system at the main breaker.

3. Operating Instructions

The Coiiwsei RTH701 thermostat features a user-friendly interface with a large, clear LCD display and simple controls.



An illustration of the Coiiwsei RTH701 thermostat highlighting its large display, adjustable up/down buttons, FAN and SYSTEM switches, and the easy-access front-load battery compartment for 2 AA batteries.

3.1 Display Overview

The LCD display shows the current room temperature, the set temperature, and the active system mode (Cool, Off, Heat) and fan mode (On, Auto). The display features a white backlight for easy readability in various lighting conditions.

3.2 Setting the Temperature

Use the large **+** (Up) and **-** (Down) buttons on the right side of the thermostat to adjust the desired set temperature. The set temperature range is 44°F to 90°F (7°C to 32°C).

3.3 Fan and System Switches

Two slide switches are located at the top of the thermostat for controlling the fan and system modes:

- **FAN Switch:**
  - **ON:** The fan runs continuously.

- **AUTO:** The fan runs only when the heating or cooling system is actively operating.

- **SYSTEM Switch:**
  - **COOL:** The thermostat controls the cooling system.
  - **OFF:** The heating and cooling systems are turned off.
  - **HEAT:** The thermostat controls the heating system.

3.4 Temperature Unit Conversion (°C/°F)

The thermostat supports displaying temperature in either Fahrenheit (°F) or Celsius (°C). Refer to the full instruction manual for specific steps on how to switch between these units, typically involving a button combination or a switch on the circuit board.

3.5 Compressor Delay Protection

This feature helps protect your compressor from short cycling. It can be selected ON or OFF. When ON, the compressor will delay restarting for a few minutes after it has turned off, preventing potential damage. Refer to the full instruction manual for details on how to enable or disable this feature.

4. Maintenance

4.1 Battery Replacement

When the battery indicator appears on the display, it signifies that the AA batteries are low and should be replaced promptly. Refer to Section 2.7 for battery installation instructions.

4.2 Cleaning the Thermostat

To clean the thermostat, gently wipe the exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these can damage the finish or internal components.

5. Troubleshooting

If you encounter issues with your Coiiwsei RTH701 thermostat, refer to the following common troubleshooting steps:

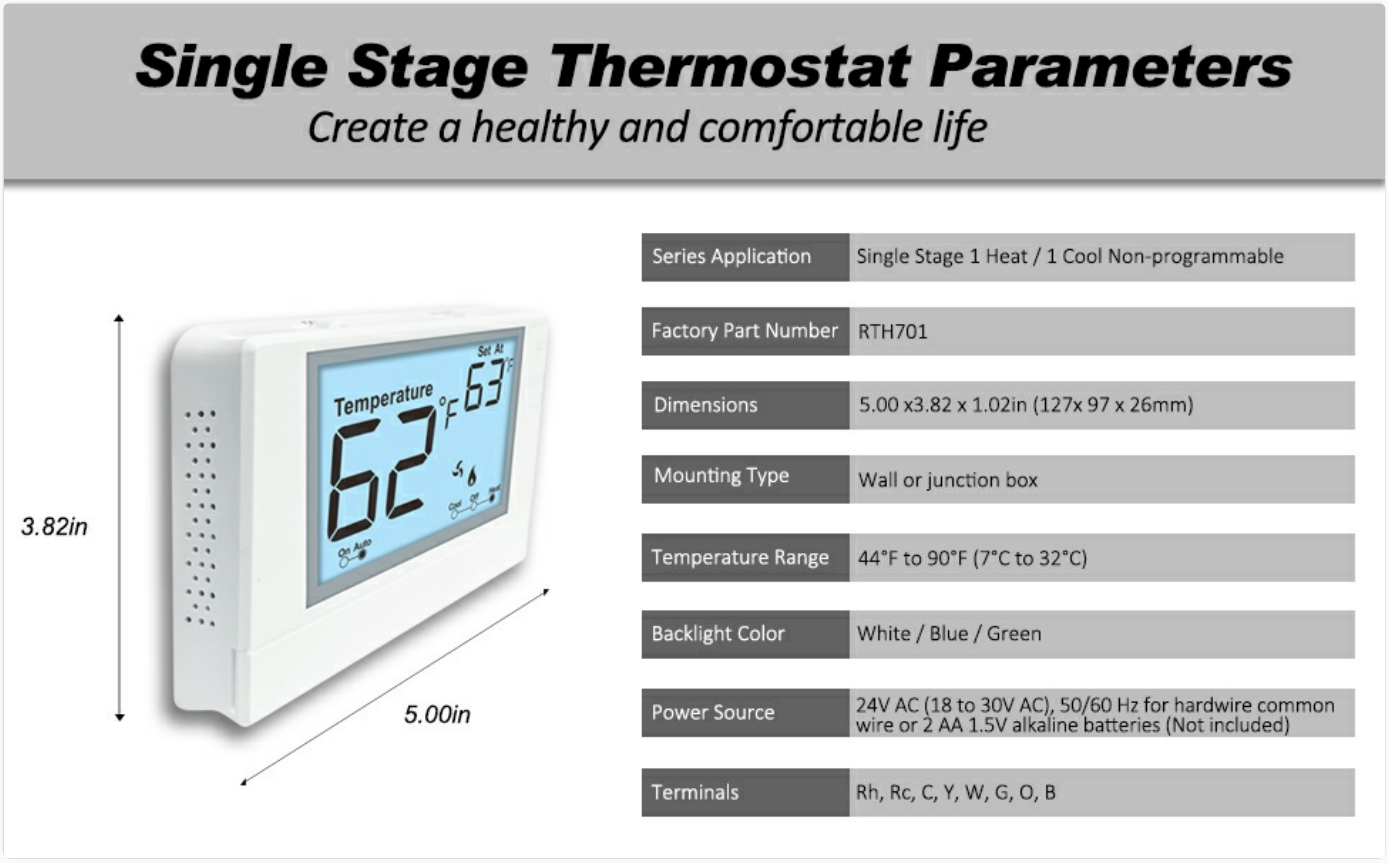
Problem	Possible Cause	Solution
Thermostat display is blank	No power (batteries dead or C-wire issue)	Replace AA batteries. Check power at the circuit breaker. Verify C-wire connection if used.
Heating/Cooling system not responding	Incorrect wiring, system switch in 'OFF' position, power issue, or compressor delay active.	Check wiring connections (Section 2.5). Ensure system switch is set to 'HEAT' or 'COOL'. Verify power to HVAC unit. Wait for compressor delay to complete.
Incorrect temperature reading	Thermostat location, calibration needed.	Ensure thermostat is not exposed to direct sunlight, drafts, or heat sources. Refer to the full manual for temperature display calibration instructions.

Problem	Possible Cause	Solution
Fan runs continuously in AUTO mode	Fan switch set to 'ON'.	Set the FAN switch to 'AUTO'.

If these steps do not resolve the issue, please contact customer support.

6. Specifications

Detailed technical specifications for the Coiiwsei RTH701 Non-Programmable Thermostat:



Visual representation of the Coiiwsei RTH701 thermostat's key parameters and dimensions.

Brand	Coiiwsei
Model Name	RTH701
Product Dimensions (D x W x H)	1.02" x 5" x 3.82" (2.60 cm x 12.7 cm x 9.7 cm)
Controller Type	Push Button
Color	White
Specific Uses For Product	Heating and Cooling Controls
Temperature Control Type	Conventional Single Stage Systems (1 Heat / 1 Cool)

Connectivity Technology	Wired
Power Source	Corded Electric (24V AC, 18 to 30V AC, 50/60 Hz for hardwire common wire) or 2 AA 1.5V alkaline batteries
Item Weight	5.9 ounces (0.37 Pounds)
Material	Plastic
Display Type	LCD
Control Method	Touch (Button Control)
Mounting Type	Wall Mount
Number of Batteries	2 AA batteries required (not included)
Temperature Range	44°F to 90°F (7°C to 32°C)
Backlight Color	White
Terminals	Rh, Rc, C, Y, W, G, O, B

7. Warranty and Support

7.1 Customer Support

Coiiwsei is committed to providing reliable products and customer satisfaction. Our customer service team is available 7 days a week, 24 hours a day, to assist you with any questions or concerns regarding your RTH701 thermostat.

For assistance, please refer to the contact information provided with your product packaging or visit the official Coiiwsei website.

7.2 Warranty Information

Specific warranty details are typically included with your product purchase. Please refer to the warranty card or documentation provided in the product packaging for information on coverage, terms, and conditions.

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