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› Coiwsei RTH702 Multi-Stage Thermostat User Manual

## Coiwsei RTH702

# Coiwsei RTH702 Multi-Stage Thermostat User Manual

Model: RTH702 | Brand: Coiwsei

## 1. INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of your Coiwsei RTH702 Multi-Stage Thermostat. This non-programmable thermostat is designed for 2 Heat/2 Cool systems, offering clear temperature control for your home's heating and cooling needs. Please read this manual thoroughly before installation and use to ensure proper function and safety.

## 2. IMPORTANT SAFETY INSTRUCTIONS

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- Always turn off power to the heating/cooling system at the main fuse or circuit breaker panel before installing or servicing the thermostat.
- Ensure all wiring is performed in accordance with local electrical codes and ordinances.
- If you are unsure about any part of the installation process, it is recommended to consult a qualified HVAC technician.
- Do not use this thermostat with systems that operate on voltages exceeding 30V AC.
- Keep the thermostat away from direct sunlight, heat sources, or drafts, as these can affect temperature readings.

## 3. PACKAGE CONTENTS

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Verify that all items listed below are included in your package:

- 1 x Coiwsei RTH702 Thermostat
- 1 x Wall Plate
- 1 x Instruction Manual
- 1 x Screw Set (screws and wall anchors)
- 1 x Wiring Labels

**Universal Thermostat  
for Temperature  
Controls at Your Home**



Image 3.1: Contents of the Coiwsei RTH702 Thermostat package, including the thermostat unit, wall plate, manual, screws, and wiring labels.

## 4. SYSTEM COMPATIBILITY

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The Coiwsei RTH702 thermostat is designed for a wide range of HVAC systems. Please review the compatibility information below to ensure it is suitable for your system.

### Compatible Systems:

- Single-stage or Multi-stage 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
- 24V Gas fireplaces
- 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
- Convector
- Radiant-ceiling heat
- Mini split systems
- 12V RV systems

# 2 Heat, 2 Cool Multi Stage Room Thermostat System Compatibility

## Cooling Compatible:

- ✓ Cooling Only Systems
- ✓ Multi Stage Cooling

## Heating Compatible:

- ✓ Gas / Oil / Electric Furnace - Heating Only
- ✓ Gas / Oil / Electric Furnace - Multi Stage
- ✓ Heat Pump w/o Auxiliary or Emergency Heat
- ✓ Floor or Wall Furnaces
- ✓ Gas Fireplaces (24V)
- ✓ Millivolt
- ✓ Forced Air



## Not Compatible:

- × Heat Pump with Auxiliary or Emergency Heat
- × Electric Baseboard Heat (110-240 Volts)
- × Portable Space Heaters
- × Radiant Ceiling Heat
- × Mini Split Systems
- × Convector

Image 4.1: A visual guide detailing the heating and cooling system types compatible and incompatible with the Coiwsei RTH702 thermostat.

## 5. INSTALLATION GUIDE

### 5.1 Tools Required

- Phillips head screwdriver
- Drill (with appropriate bit for wall anchors, if needed)
- Wire strippers (if wires are not pre-stripped)
- Pencil
- Level (optional)

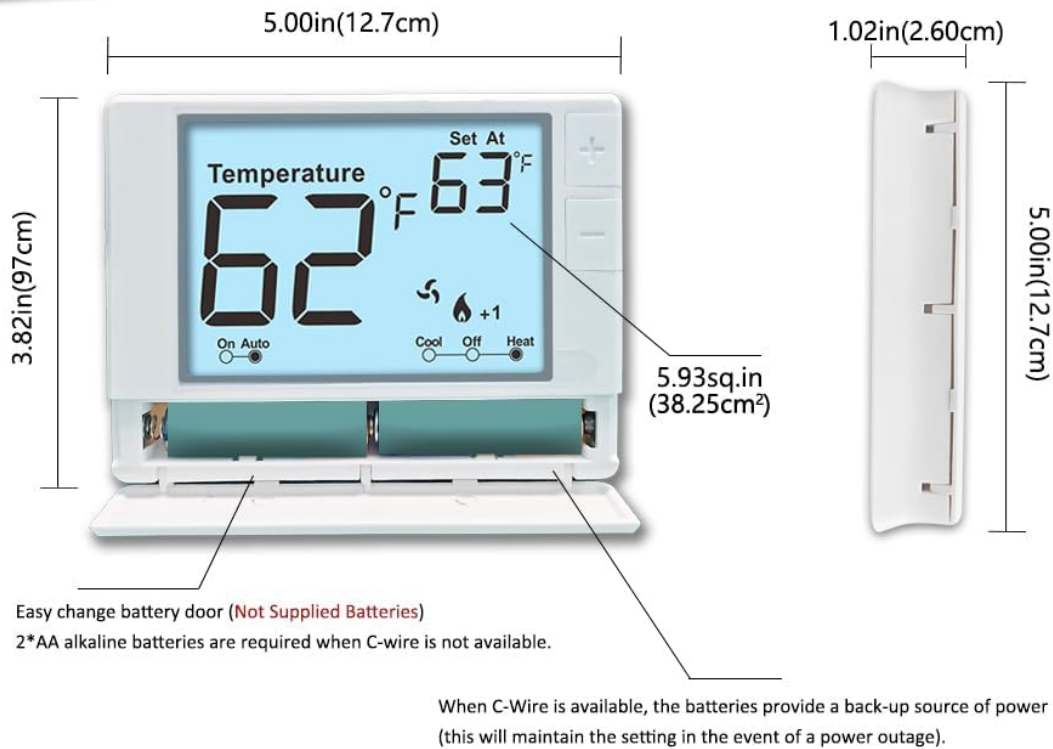
## 5.2 Removing Your Old Thermostat

1. **Turn off power:** Locate the main fuse or circuit breaker panel and turn off the power to your heating and cooling system.
2. **Remove old thermostat cover:** Carefully remove the cover of your old thermostat.
3. **Photograph wiring:** Take a clear picture of the wiring connections before disconnecting any wires. This will serve as a reference.
4. **Label wires:** Use the provided wiring labels to mark each wire with its corresponding terminal letter (e.g., R, C, W, Y, G).
5. **Disconnect wires:** Loosen the terminal screws and disconnect the wires from your old thermostat.
6. **Remove old wall plate:** Unscrew and remove the old thermostat's wall plate.

## 5.3 Mounting the New Wall Plate

1. **Position wall plate:** Hold the new Cooiwsei wall plate against the wall where you want to mount it. Ensure it covers any previous paint marks or holes.
2. **Mark screw holes:** Use a pencil to mark the positions for the mounting screws through the holes in the wall plate.
3. **Drill holes (if needed):** If drilling into drywall, use a drill to create pilot holes for the wall anchors. Insert the wall anchors.
4. **Secure wall plate:** Feed the thermostat wires through the opening in the wall plate and then screw the wall plate securely to the wall.

## Heating and Cooling Thermostat Dimensions



**Important:** Confirm whether the size of the product can completely cover the traces of your old thermostat.

Image 5.1: Dimensions of the Cooiwsei RTH702 thermostat, useful for ensuring it covers existing wall marks.

### 5.4 Wiring the Thermostat

Refer to the wiring diagram below and your previously taken photograph to connect the wires to the new thermostat's terminals. Ensure wires are stripped approximately 3/8 inch (9.5 mm) and inserted firmly into the terminal blocks.

## What's in the Box Package Contents

- 1 x Thermostat
- 1 x Wall Plate
- 1 x Manual
- 1 x Wiring Labels
- 1 x Screw Sets

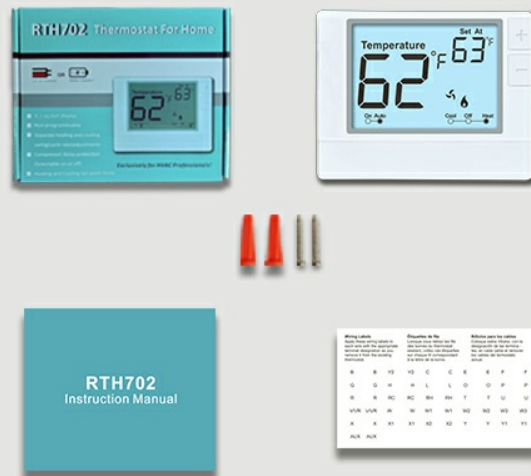
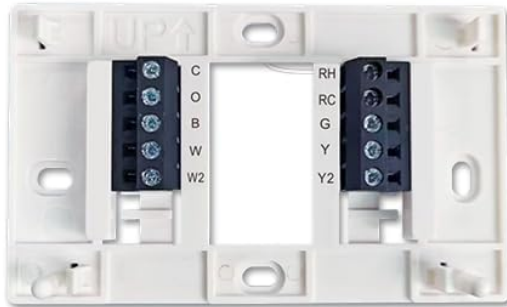


Image 5.2: Detailed wiring diagram for the Cooiwsei RTH702 thermostat, showing terminal connections for various HVAC systems.

- **C:** Common 24VAC (system power supply)
- **O:** Reversing valve cool
- **B:** Reversing valve heat
- **W:** Heat relay stage 1
- **W2:** Heat relay stage 2
- **RH:** 24VAC (system power supply) - Heat
- **RC:** 24VAC (system power supply) - Cool
- **G:** Fan relay
- **Y:** Cool relay stage 1
- **Y2:** Cool relay stage 2

**Important:** If you have both RH and RC wires, remove the metal jumper wire connecting them. If only 2 wires are used, batteries must be installed for operation.

**Just Install It Yourself!**  
**You can carry out the installation**  
**yourself quickly and easily.**



- C** ..... Common 24VAC (system power supply)
- O** ..... REV VALVE COOL
- B** ..... REV VALVE HEAT
- W** ..... Heat relay stage 1
- W2** ..... Heat relay stage 2
- RH** ..... 24VAC (system power supply)  
HEAT = RH to W
- RC** ..... COOL =RC to Y FAN = RC to G
- G** ..... FAN
- Y** ..... Cool relay stage 1
- Y2** ..... Cool relay stage 2



**Electric or Gas Switch**

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

Image 5.3: An illustration demonstrating the process of connecting wires to the thermostat's terminal block.

## 5.5 Attaching the Thermostat Body

Once wiring is complete, align the thermostat body with the wall plate and gently push until it snaps into place.

## 6. INITIAL SETUP AND CONFIGURATION

### 6.1 Battery Installation

The thermostat requires 2 AA alkaline batteries (not supplied) for operation if a C-wire is not connected, or as a backup power source if a C-wire is present. Open the front-load battery compartment and insert the batteries, observing the correct polarity.

### 6.2 System Type Selection (Gas/Electric Switch)

On the back of the thermostat's circuit board, locate the small switch labeled