

Smart Thermostat

Installation & Owner's Manual

MODEL:

MST07



Read this manual carefully before installation and keep it where the operator can easily find it for future reference.

Due to updates and constantly improving performance, the information and instructions within this manual are subject to change without notice.

Version Date: May 20, 2026

Please visit www.mrcool.com/documentation to ensure you have the latest version of this manual.



MRCOOL[®]
COMFORT MADE SIMPLE

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WARNING FOR PRODUCT INSTALLATION

Failure to follow these safety instructions could result in fire, electric shock, or other injury or damage.

- In some regions, professional installation may be necessary. Check your local regulations and building codes before undertaking any electrical work, as permits and/or professional installation might be legally required.
- Before starting installation, turn off the power to the installation area at your circuit breaker or fuse box. Always handle electrical wiring with care to avoid the risk of electrical shock or equipment damage.
- Install your device in a location that is away from heat sources and direct sunlight to prevent temperature fluctuations, which could affect the accuracy of temperature readings and overall device performance. Avoid placing your device near water or in areas with high humidity.
- Do not install in a place vulnerable to leakage of flammable gases.
- Do not install in an area where heavy oil, vapor, corrosive or sulfured gasses are present, as this can damage the thermostat.
- Do not install on an exterior wall.
- Do not install near any heat-producing equipment, as this can cause inaccurate temperature control.
- Do not operate the device with wet hands as this may cause electric shock.
- Always disconnect the device from power before installation or maintenance to avoid equipment damage or potential electric shock.
- The wiring must be rated for the thermostats voltage.
- Do not alter terminals on this thermostat.
- During installation and use, prevent liquid from entering the device.




2 INSTALLATION

2.1 Packing List

Part	Looks Like	Quantity
Manual		1
Smart Thermostat		1
Backplate		1
Trim Plate		1
Screws		2
Drywall Plugs		2
Wire Labels		1
Phillips Screwdriver		1
Flat Heat Screwdriver		1

2 INSTALLATION

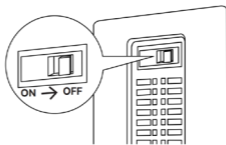
2.2 Tools Required

Part	Looks Like
Drill with 3/16in. Bit	
Pencil	
Pliers & Wire Strippers	

2.3 Replacing Old Thermostat

Step 1: Turn Off the Power

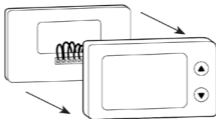
Locate the power switch for the HVAC system and turn it off. This step is important for your safety and the safety of your home.



Once the power is off, try adjusting your old thermostat to make sure the system is off.

Step 2: Remove Your Old Thermostat Faceplate

Some faceplate's can pop off easily, while others may require a screwdriver.



2 INSTALLATION

Step 3: Compatibility Check

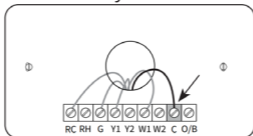
A. High Voltage



If you see any of these indicators on the back of your old thermostat, it indicated that your system is high voltage, which may not be compatible.

B. C-Wire

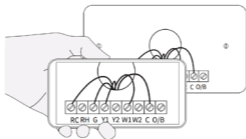
The thermostat requires a C wire for power. Check if there is a wire connected to the C terminal on your old thermostat.



If you have neither a C wire, then your system is incompatible.

Step 4: Take a Photo of your Old Wiring

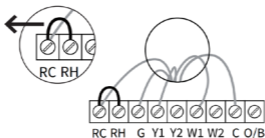
It is recommended to have a photo of your old wiring in case you need to return the wiring to the way it was prior.



2 INSTALLATION

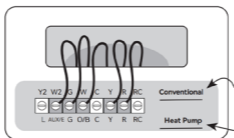
Step 5: Remove all Jumper Wires

Some systems have short wires connecting two terminals. One of the two terminals may not have a wire coming from the wall. Remove all jumper wires and be careful not to remove the wires coming from the wall.



Step 6: Check Which Set of Labels you will be Using

Some thermostats have 2 sets of terminal labels, one for heat pump and one for conventional. If you only have one set of labels, please skip this step and go to **Step 7**.

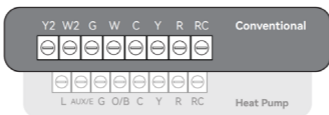


If your system has a heat pump, please use the heat pump wire labels or the set of wires that include the "O/B" label.

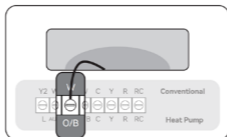


2 INSTALLATION

If your system has a heat pump, please use the heat pump wire labels or the set of wires that without the "O/B" label.



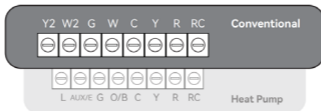
You can also identify it by the colors of wire with W and O/B labels.



If it is orange, please use the heat pump wire labels or the set of wires that includes the "O/B" label.



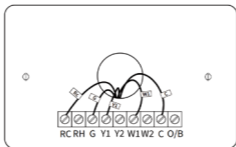
If it is white, please use the conventional wire labels or the set of wires without the "O/B" label.



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Step 7: Label your Wires

Use the provided Wire Labels (white background) to tag each wire accordingly. If you have two sets of terminal labels, please select the correct one.



Special Labels:

If your old thermostat has wires connected to the following terminals, you need to pay attention when tagging them:

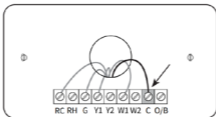
If you are Heat Pump system

Terminal	Labels
W2/Aux	→ W1
Aux or Aux1	→ W1
Aux2	→ W2

If you are Conventional system

Terminal	Labels
W2/Aux	→ W2

Do you see any wire connected to the C terminal on your old thermostat?

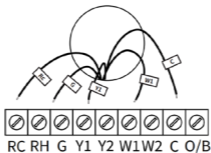


Install the thermostat with a C wire.

2 INSTALLATION

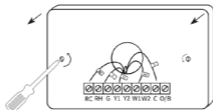
Step 8: Disconnect Wires

Loosen each terminal and disconnect the wires from your old thermostat. Do not let your wiring fall back into the wall after you disconnect them.



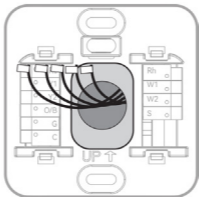
Step 9: Remove your Old Wall Plate

Unscrew the old thermostat from the wall. If your old thermostat has a trim plate, remove it also. You may want to wrap the wires around a pencil so they do not fall back into the wall.



Step 10: Pull the Wires Through the Backplate

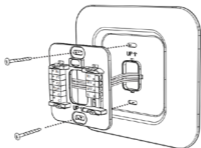
Mark where the screws will go. Use the bubble level to make sure the thermostat is straight. If you need to drill new holes in your wall, remove the backplate before doing so.



2 INSTALLATION

Step 11: Attach the Backplate to the Wall

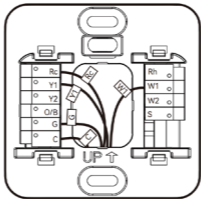
Secure your new thermostat's backplate to the wall by using the included anchors and screws. You can drill a hole for the drywall anchors with a 3/16" drill bit.



Optional: Use the trim plate to cover screw holes or gaps left over from your old thermostat's installation.

Step 12: Connect the Wires

Press the terminal block levers down to insert each labeled wire to the matching slot in your backplate. You can refer to the wiring diagram on pg. 23.



Tug on the wires gently to ensure they are secured. After all the wires are inserted, tuck them neatly back into the wall.

Special Wires:

If you have more than one R wire (that includes R, Rc, and Rh), connect them as follows on pg. 11:

2 INSTALLATION

Wires you Have	Wire to Rc Terminal	Wire to Rh Terminal
Rc,Rh	Rc	Rh
Rc,R	Rc	R
Rh,R	R	Rh

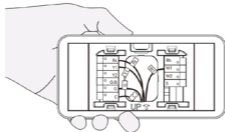
If you only have one R wire (that includes R, Rc, and Rh), connect it to the Rc terminal.

If you have E wire (Emergency Heat).

E wire → **W2 terminal**

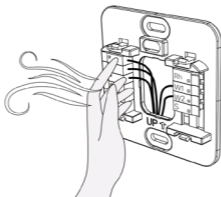
Step 13: Take a Photo of your New Wiring

It is important to have a photo of your new wiring. You will need it later when setting the thermostat.



Step 14: Check for Air Drafts

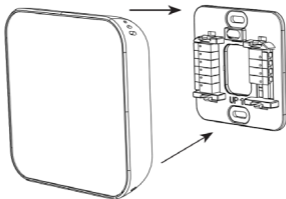
Air drafts can affect temperature readings. If you feel a draft, seal the hole with insulation in the wall.



2 INSTALLATION

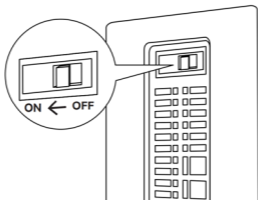
Step 15: Attach the Thermostat Faceplate

Gently press your thermostat faceplate onto the backplate until it clicks into place.



Step 16: Power on your System

Go back to your power switch to turn your HVAC'S system's power back on.



2 INSTALLATION

Once powered on the thermostat's screen will light up and display "SEt". Go to pg. 37 to set up the thermostat.



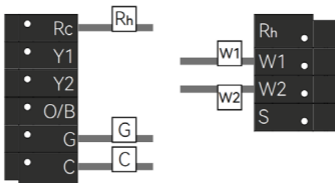
2.4 Wiring Diagrams

Terminals	What it Means
Rc	24VAC power from cooling transformer
Rh	24VAC primary for heating
C	24VAC common
W1	1st stage primary heating relay in conventional system/auxiliary or alternative 1st stage heat in heat pump system
W2	2nd stage secondary heating relay in conventional system/auxiliary or alternative 2nd stage heat in heat pump system/emergency heat
Y1	1st stage primary compressor contactor
Y2	2nd stage secondary compressor contactor
G	Fan relay
O/B	Changeover valve for heat pumps

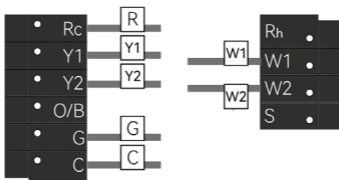
2 INSTALLATION

Below are wiring diagrams for common HVAC equipment.

Conventional 2 Stage Heating

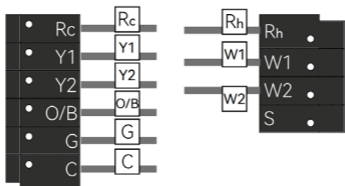


Conventional 2 Stage Heating, 2 Stage Cooling

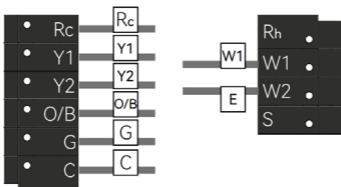


2 INSTALLATION

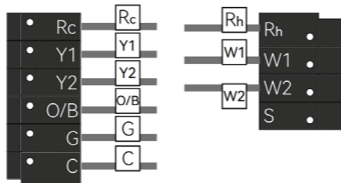
2 Stage Heat Pump with 2 Stage Aux. Heat



2 Stage Heat Pump with Aux. Heat & Emergency Heat



Dual Fuel- 2 Stage Heat Pump, 2 Stage Heat



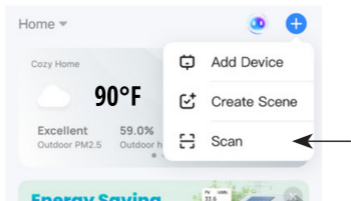
3.1 App Setup

Option 1: You will need to set up the thermostats system. You can do this through the app (recommended), or you can set it up on the thermostat. If you prefer to set it up through the thermostat, please refer to pg. 37 for instructions.

1. Download the MRCOOL® Connect app through the App Store or Google Play.



2. Open the MRCOOL® Connect app to create an app account, then click the "Scan" button on the upper right corner of the app's home page.

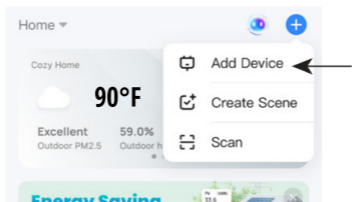


3 SETUP

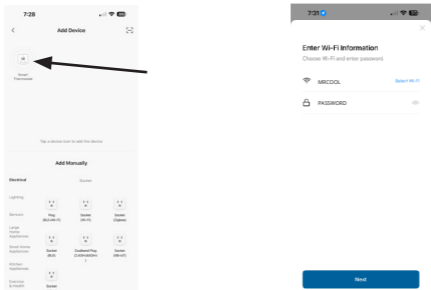
3. Scan the following QR code to configure the network.



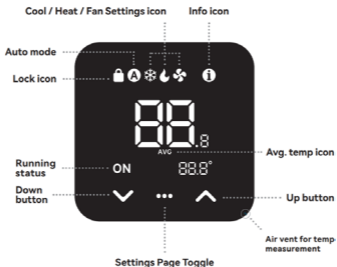
Option 2: On the app press the (+) button and click on add device. Make sure you allow the app to turn on Bluetooth to pair with the thermostat. Then on the thermostat press and hold the (...) button for 10 seconds or until the thermostat shows the countdown from 5 and resets to show a flashing green (I) on the top right corner.



Once the thermostat shows on the app press the thermostat icon and enter in the wifi router information and password to connect.



3.2 Using Your Thermostat



3 SETUP

Lock Icon:

Appears when using the app to disable specific functions.

Running Status:

Displays On only for the active setting (Cooling, Heating, or Fan) on its respective settings page.

Avg. Temp. Icon:

Displayed when more than one sensor is involved in the temperature calculation.

Info Icon:

The status gives the following information:

Status	What it Means
Green LED Blinking	Waiting for Wi-Fi pairing.
Red LED Solid On	The device is connected to the router but failed to connect to the cloud.
Red LED Blinking	Wi-Fi has been configured but failed to connect to the router.
Orange LED Solid On	Using Aux. Heat, ALT. Heat, or Emergency Heat.
Orange LED Blinking	System delay to prevent wear.

Settings Page Toggle (Center Button):

This button can do the following:

1. Tap once to switch between settings pages (Cool/Heat/Fan settings).
2. Change the Mode: Press and hold for 3 seconds.
3. Clear Wi-Fi: Press and hold, after 10 seconds a countdown will start. Continue to hold the button until the countdown reaches 0.

Factory Reset:

Press and hold the Up and Down buttons for 10 seconds until the screen displays "RST". Hold the Center button until the countdown finishes.

3.3 Adding Sensor

Note: The sensor is an optional accessory.

Batteries:

2* AAA alkaline batteries

Maximum Distance Between the Sensor and the Thermostat:

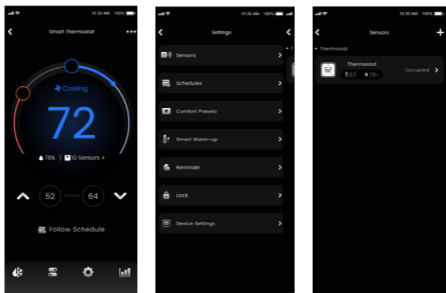
98.4 ft. (30 m.)

Purpose:

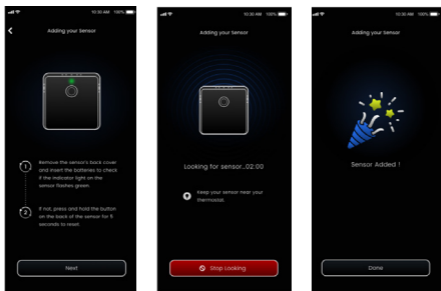
1. Monitors temperature and humidity in the room the sensor is placed.
2. Balances hot and cold spots that enables more consistent comfort throughout the space.
3. Prioritizes the room where placed.

Connecting to MRCOOL® Connect:

1. Go to settings in the app and then to sensors. Tap the plus (+) icon in the top right corner.



3 SETUP

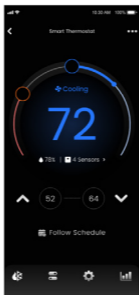


2. Remove the sensor's back cover and insert the batteries to check if the indicator light on the sensor flashes green. If it does not flash, press and hold the button on the back of the sensor for 5 seconds to reset.
3. Tap "Next" in the app and wait for the sensor to pair. If pairing times out, reset the sensor and try again.

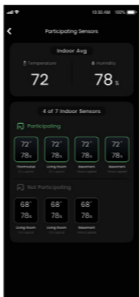
Operation Instructions:

1. When the thermostat is paired with a remote sensor, the sensor icon will appear on the thermostat's control screen in the app showing the number of sensors currently active in temperature control. Additionally, the AVG indicator on the thermostat unit itself will light up.

Note: The room temperature is the average of all sensors in use.



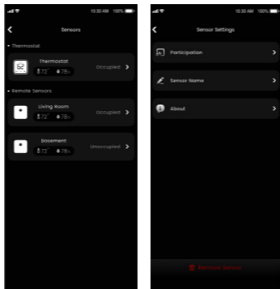
2. Tap the sensor count on the thermostat's control screen in the app to view detailed information about each participating sensor that includes their temperature, humidity, and occupancy status.



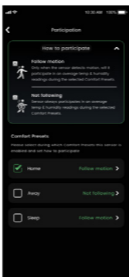
3 SETUP

- The sensor's participation is determined by the following settings:
 - Which presets are configured for the sensor.
 - The scheduled time periods for the preset.
 - How the sensor participates during the preset period-whether it follows motion or is set to not follow motion.

Sensor Settings:



- Go to settings and then to sensors. Tap a sensor to set when it participates, rename it, and view its information.



- On the participation settings page, you can configure which preset the sensor is used and how it participates in temperature control.

3.4 Link Alexa or Google Assistant

Alexa

Method 1:

- Download the Alexa App and register/login to your Amazon account.
- Open the App that needs to be bound, go to Home - Me - Third-party Voice Services - Alexa.
- Click "Sign in With Amazon" and the Alexa App will be launched. Click "LINK" to complete the binding.

Method 2:

- Download the App that needs to be bound and register/login to your account.
- Open the Alexa App and click "More" in the lower right corner.
- Click "Skills & Games" and then click the search button in the upper right corner. Enter the name of the skill you need to bind, using MRCOOL® Connect as an example.

3 SETUP

4. Click the MRCOOL® Connect skill to enter the skill details page (ENABLE TO USE), click "Agree and link", and return to the Alexa App.
5. Click "CLOSE" and then click "DISCOVER DEVICES" to complete the binding.

Google Assistant

Method 1:

1. Ensure the smart device has been added to the app you need to bind, "MRCOOL® Connect" and the device is online.
2. Ensure the Google Home App is installed.
3. Open the app and click "Me" in the bottom right corner, find and click "Google Assistant"
4. Click "Connect to Google Assistant"
5. The app will launch the Google Home App; click "Link"
6. Click "Confirm Authorization"
 - Wait for the loading to complete, and the smart device will be synced to Google Assistant. Now you can control the smart device using Google Assistant or the Google Home App. Next, you can assign rooms to the device in the Google Home App.

Method 2:

1. Open the Google Home App and click the plus sign in the top left corner.
2. Click "Set up device"
3. Click "Works with Google"
4. Search for the name corresponding to the app you need to bind "MRCOOL® Connect" and click on the name.
5. Click "Link"
6. This will open the login webpage of the app you need to bind. You can enter the account and password of the app to complete the authorization.

3.5 Thermostat Setup

Hold the Center button and the Up button for 3 seconds to enter the manual setup page.

Display	Items	Options
GS	Is there any wiring connected?	1-Connected
	To the G or S terminals?	0-Not Connected
OE	Outdoor Equipment	AC1-Conventional Cooling 1 (Single Stage)
	Configuration	AC2-Conventional Cooling 2 (Two-Stage)
	Cooling or Heat Pumps	HP1-Heat Pump 1 (Single Stage)
		HP2-Heat Pump 2 (Two-Stage)
	-- No Cooling	
HP	Heat Pump Type	AtA-Air to Air
		GEO-Geothermal
ob	O/B Setting	O-On Cool
		B-On Heat
IE	Indoor Equipment Configuration for Gas or Electric Heat	Fn1-Furnace1 (Conventional or Alternative Single Stage)
		Fn2-Furnace2 (Conventional or Alternative Two-Stage)
		bo1-Boiler1 (Conventional or Alternative Single Stage)
		bo2-Boiler2 (Conventional or Alternative Two-Stage)
		AU1-Aux1 (Electric Auxiliary Single Stage)
		AU2-Aux2 (Electric Auxiliary Two-Stage)
		-- No Indoor Equipment

3 SETUP

Display	Items	Options
EH	Emergency Heat	1-Enable
		0-Disable
HS	Heat Source	1-Natural Gas (For Furnace)
		2-Electric (For Furnace)
		3-Oil (For Furnace)
		4-Hot Water Fan Coil (For Furnace)
		5-Hot Water (For Boiler)
		6-Steam (For Boiler)
HF	Heat Fan Activation	1-Activate
		0-Not active
nu	Number of R wires (R/Rc/Rh) connected to your thermostat	1-One R Wire (R/Rc/Rh)
		2-Two R Wires (R/Rc/Rh)
FC	F/C Setting	F
		C
HS1	Min. Heating Set point	-
HS2	Max. Heating Set point	
CS1	Min. Cooling Set point	
CS2	Max. Cooling Set point	
SC	Schedule Options	1-Enable
		0-Disable

4-Warranty

1. MRCOOL® warrants the owner of the enclosed MRCOOL® Smart Thermostat contained in this ("Product") will be free from defects in materials and workmanship for a period of (1) years from the date of delivery, following the original retail purchase (the "Warranty Period").
2. If the Product fails to conform to this Limited Warranty during the Warranty Period, MRCOOL® will, at its sole discretion, either repair or replace any defective Product or component.
3. Repair or replacement may be made with a new or refurbished product or components, at MRCOOL®'s sole discretion.
4. If the Product or a component incorporated within it is no longer available, MRCOOL® may replace the Product with a similar product of similar function, at MRCOOL®'s sole discretion.
5. Any Product that has either been repaired or replaced under this Limited Warranty will be covered by the terms of this Limited Warranty for the longer of ninety (90) days from the date of delivery or the remaining Warranty Period. This Limited Warranty is non-transferable from the original purchaser to subsequent owners and the Warranty Period will not be extended in duration or expanded in coverage for any such transfer.

6. WARRANTY CONDITIONS: HOW TO GET SERVICE IF YOU WANT TO CLAIM UNDER THIS LIMITED WARRANTY

Before being able to claim under this Limited Warranty, the owner of the Product must (a) notify MRCOOL® of the intention to claim by visiting our website during the Warranty Period and providing a description of the alleged failure, and (b) comply with MRCOOL®'s return shipping instructions.

7. WHAT THIS LIMITED WARRANTY DOES NOT COVER

This warranty does not cover the following (collectively "ineligible Products"): Products marked as "sample" or sold "AS IS", or Products that have been subject to: (a) modifications, alterations, tampering, or improper maintenance or repairs; (b) handling, storage, installation, testing, or use not in accordance with the User's Guide or other instructions provided by MRCOOL®; (c) abuse or misuse of the Product; (d) breakdowns, fluctuations, or interruptions in electric power or the telecommunications networks; or (e) Acts of God, including lightning, flood, tornado, earthquake, or hurricane. This warranty does not cover consumable parts, unless damage is due to defects in materials or workmanship of the Product, or software *even if package or sold with the product). Unauthorized use of the Product or software can impair the Product's performance and may invalidate this Limited Warranty.

8. DISCLAIMER OF WARRANTIES

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