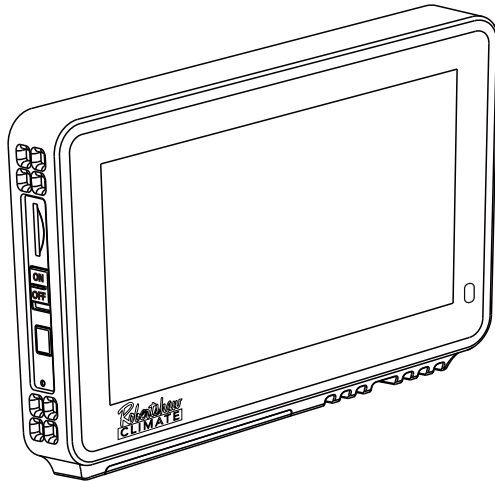


Installation & User Manual

For 24V-AC Thermostat Wiring

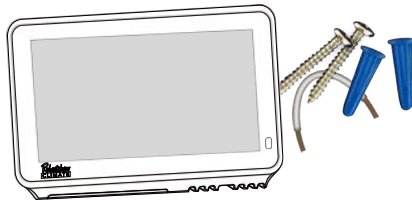
RS7210 



Warning: Failure to follow and read all instructions before installing or operating this device may cause personal injury and/or property damage.

In the Box

- Wi-Fi Thermostat Model RS7210
- Two screws and anchors
- Wire labels
- Jumper wire
- User manual



Some features require an internet connection and a user account. Features, specifications, and appearance are subject to change without notice.

Check Compatibility First

For conventional (gas/oil/electric) and heat-pump systems
> **2-Heat & 1-Cool** > **Heat Only** > **Cool Only**
* C-Wire required to power the thermostat

Getting started

This thermostat is designed to work on most 24V low voltage heating and cooling systems such as gas and oil furnaces, heat pumps, and single-stage systems

Professional installation recommended for:

- Dual fuel systems (heat pump with furnace)

Turn Power Off

Please turn off the furnace's main power at the switchbox before beginning the installation process.

POWER  OFF

Warning: Failure to turn off power may result in electrical shock and/or system damage.

1 Remove the Old Thermostat

Before removing the wires from the thermostat or wall plate, take a photo of all wires for reference, then label each wire according to the terminal codes.

Disconnect the wires from the old thermostat one by one. **Do not let any wires fall back into the wall.** Remember, the power to your HVAC system must be turned off.

After labeling the wires, we recommend securing them to an object such as a pen or clip to prevent them from falling back into the wall.



2 Connect the New Wall Plate

Warning: Use caution when securing and routing wires to prevent possible short to adjacent terminals.

Insert all wires vertically from the open socket into the proper terminal. Ensure each wire is inserted into the matching terminal (refer to the photo taken previously if needed). Pull wires gently to ensure wires are securely fastened.

When all wire connections have been completed, place any surplus wires back inside the wall.

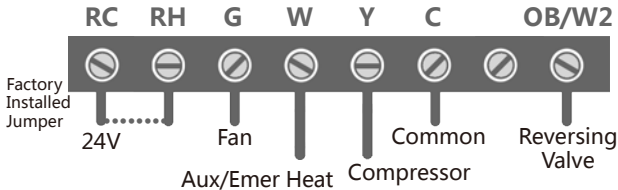
*For the heat pump system, if the old thermostat has separate wires for Aux-Heating and Emergency-Heating, twist the wires together and connect them to the W terminal.

The following are typical wiring diagrams for common systems:

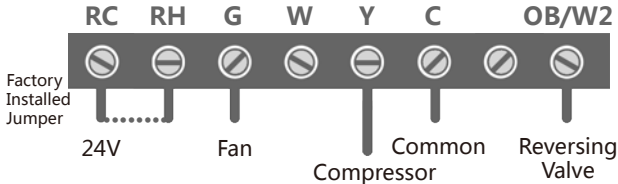
..... RC	- Power Cooling	Y	- 1st Stage Cooling
..... RH	- Power Heating	C	- Common
G	- Fan	O/B	- Reversing Valve
W	- 1st Stage Heating Emergency heat	(W2)	- 2nd Stage Heating

Remove jumper wire if you have both RC & RH wires

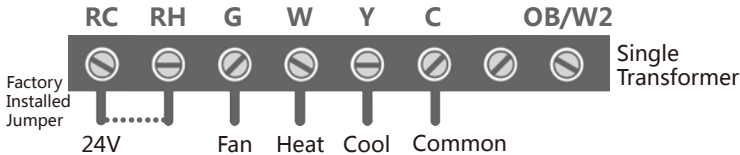
Heat Pump with Emergency Heating



Heat Pump without Emergency Heating

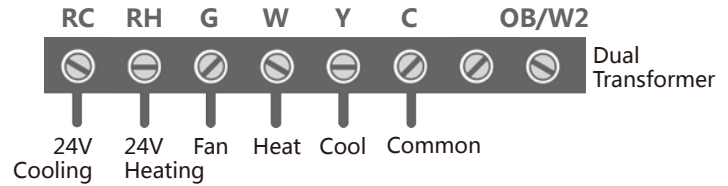


Conventional Heating/Cooling system with C wire

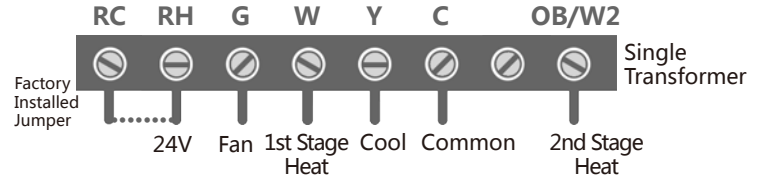


Conventional Heating/Cooling system with C wire

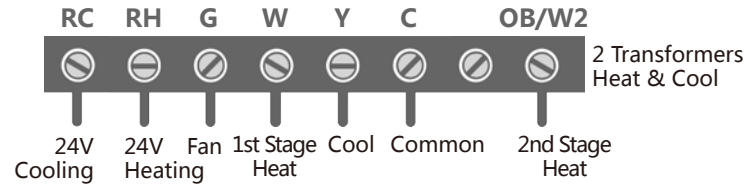
You may substitute the C wire with a spare wire if one is available.



Conventional 2nd Stage Heating



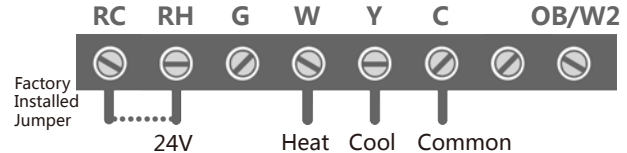
Conventional 2nd Stage Heating



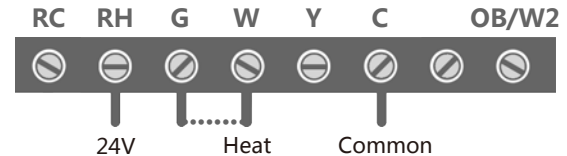
Conventional system without the C or spare wire

(also commonly called a 4-wire system)

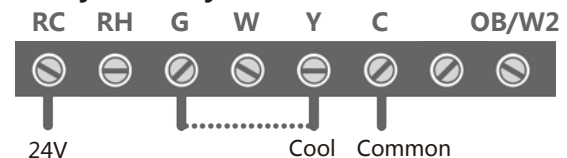
- 1) At the thermostat, connect C with the G wire;
- 2) **At the furnace's wiring terminal**, move the G wire to the C terminal, then use the included jumper wire, G with Y for cooling or G with W for heating.
- 3) **With this configuration the thermostat will have no fan control.**



Heat only 3-Wire system



Cool only 3-Wire system



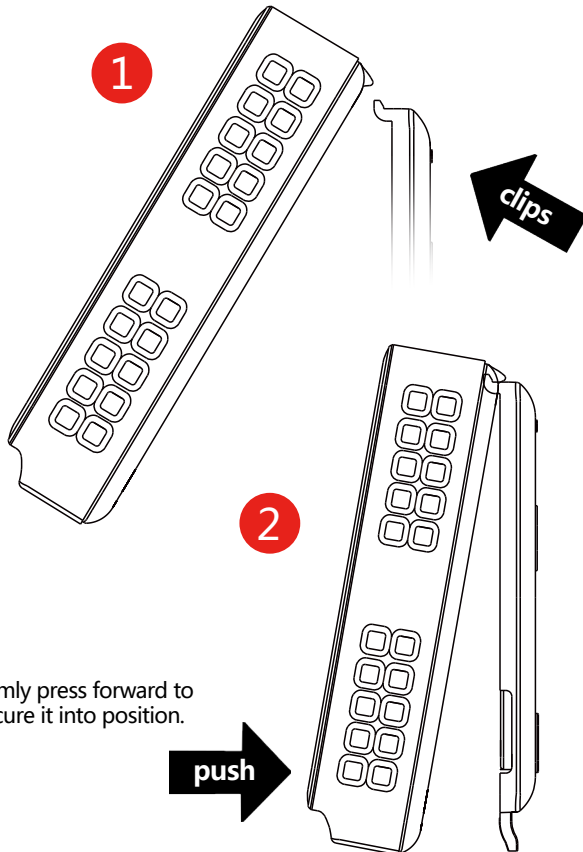
3 Mount the New Wall Plate

Use the enclosed screws and anchors to mount the new wall plate. In most cases, you can utilize the same mounting position of your old thermostat. Be sure to check the alignment of your wall plate pre and post installation of the thermostat unit.



4 Attach to the Wall

First, align the two clips on the back of the thermostat into the corresponding slots on the top of the wall plate.



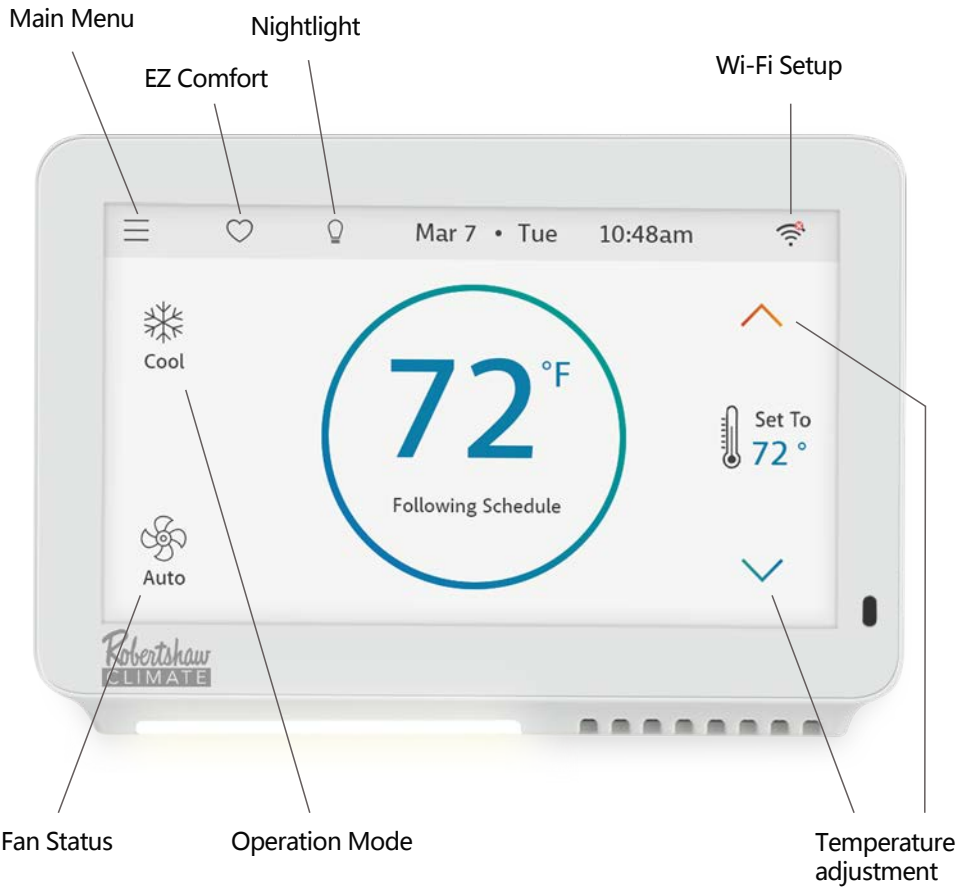
5 Power On and Enjoy!

Ensure the C-wire is properly connected to the furnace and thermostat. Properly secure and lock the furnace door into place. Switch the power back on for the heating/cooling system at the main switch box.

If you have done everything correctly, your thermostat should power on and prompt you to start the setup.

Now, enjoy the savings and comfort of owning one of the industry's best smart thermostats! The Robertshaw Climate RS7210.

Main Screen



Initialization

For a quick and easy way to begin using your new smart thermostat, the device will automatically direct you to the Initialization Setup process once it's turned on for the first time.

1. Date, Time

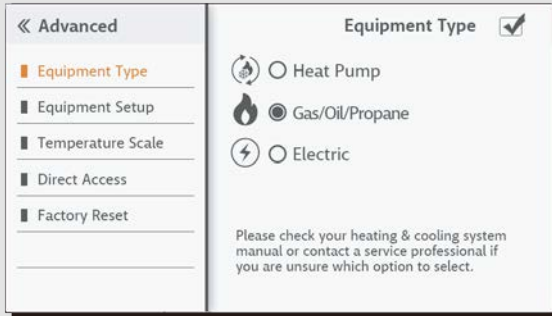
ON THE DEVICE: Though there is no restriction for any date and time you set as current, please enter your location's current date and time to avoid any confusion; once the device is registered or linked to a user account, the date and time on the device will automatically update to the current time associated with the user account.

Time	HOUR	MIN.	<input checked="" type="checkbox"/> 24-HOUR	
	03	: 16	AM	^
Date	YEAR	MONTH	DAY	
	2016	03	25	v
Date Format	DATE FORMAT	YYYY/MM/DD		

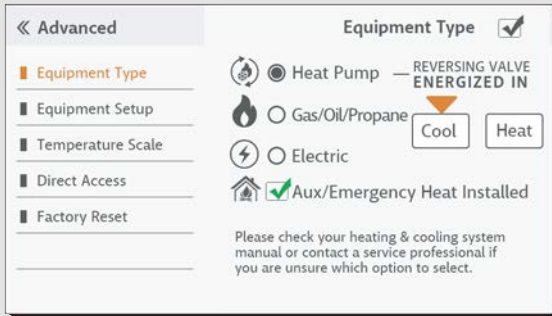
APP or WEBPAGE: The date and time for the device as well as the user account will automatically update by selecting the time zone for the device.

2. Heating Type

Select your home's heating type from the options available:
Gas/Oil/Propane, Electric, or Heat Pump



Heat Pump system? You must also select Cool or Heat for the mode in which the reversing valve is energized.

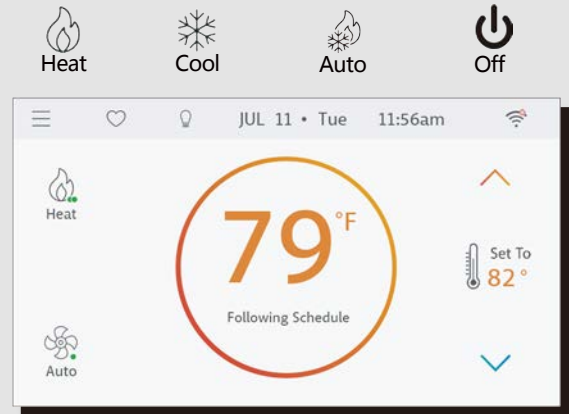


This thermostat doesn't support Fan-Coil systems.

Please check your heating and cooling system manual or consult with a professional HVAC technician if you do not know which option to select.

3. Mode

Tap the Mode icon on the main screen to switch between modes:



4. Wi-Fi Setup

You must have a proper Wi-Fi connection in order to access smart features such as App remote access, weather forecast and more. Please follow the on-screen instructions to complete the Wi-Fi setup. More information on Wi-Fi connections can be found on the next page.

After a successful connection, the a message that the device has not been registered by any user will be shown. You can now add the device to a user account after downloading the App and setting up an account.

MENU ACCESS

Date & Time

Menu -> Settings -> Date & Time

Heating Type

Menu -> Settings -> Advanced -> Equipment Type

Mode

Mode Icons on Main Screen

Wi-Fi Setup

Wi-Fi Icon on Main Screen

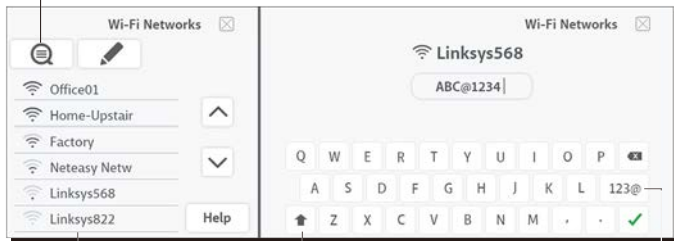
Wi-Fi Setup

Wi-Fi Connection



Tap the Wi-Fi icon to enter the Wi-Fi setup screen, then tap the Scan icon to generate available Wi-Fi networks. Follow the on-screen instructions to complete the Wi-Fi setup.

Scan



Available Wi-Fi Networks (SSID)

Cap Letters

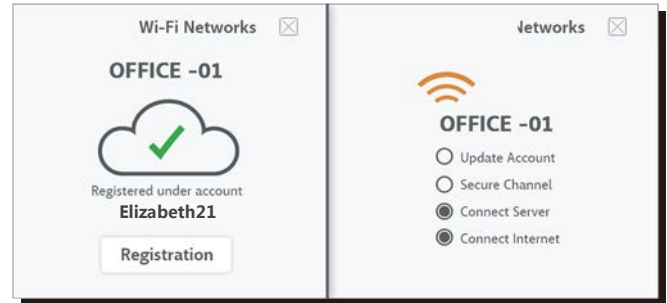
Numeric or Special Characters

The following may cause a failed connection to the device:

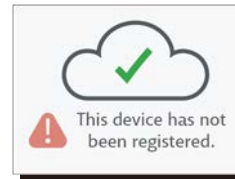


- 1) Wi-Fi signal is too weak or IS ON A 5G network?
- 2) SSID contains spaces or non-ASCII characters;
- 3) Incorrect password;
- 4) Wi-Fi is okay but your internet is unavailable;
- 5) Requires additional webpage authentication.

If no password is required, press OK to continue.



After a successful connection, an account ID for the network device will appear.



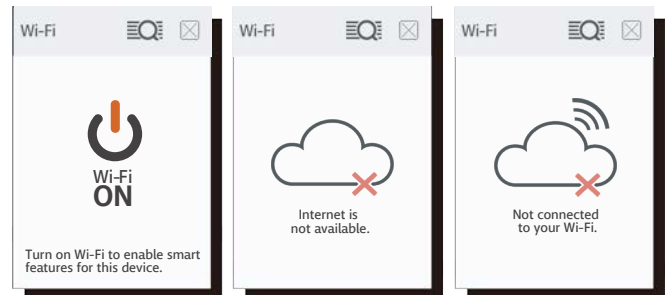
For an unregistered device, it will display the message that the device needs to be registered.

Follow the instructions on the next page to add the device to your account after downloading the App and setting up an account.

Auto Reconnect

If your device loses connection with your wireless network, it will automatically attempt to reconnect after five minutes. If that fails, it will make a new attempt every 15 minutes for the next 24 hours. Any manual operation of the thermostat will stop automatic reconnection attempts.

Wi-Fi can be manually turned off or on. Turning off your Wi-Fi will also disable the internet connection and all smart features, including App access to the device.



Members of a family need to share an account in order to gain access to the thermostat.

App Setup

Congratulations! You are now ready to use the thermostat. Now set up your App to enjoy exciting smart features.

Step 1: Download

iOS / Android App Download

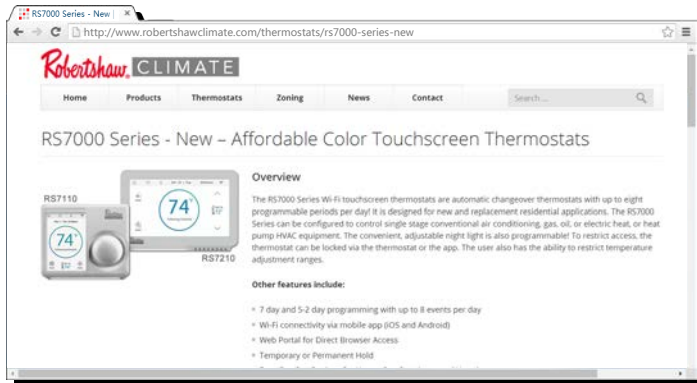


There are three ways to download the App for your Smart Device:

- 1) Search **RS7000** in the App Store or the Google Play Store, then download.
- 2) Use your smart device to scan the QR code on the left, then click on the iOS or Android link to download.
- 3) Go to www.robertshawclimate.com/thermostats/rs7000-series, then click on the iOS or Android link to download.

Step 2: Create a User Account

After installing the App onto your smart phone or tablet, create a user account. The user account can also be created through the home page on our website.



Step 3: Add Device to your Account



Log in to your account: tap "Add Device" on the device list screen, then simply follow the on screen instructions on the App or Webpage to complete this task. You will be asked to enter the MAC-ID and the Temporary Verification Code.

Wi-Fi Status Screen

- MENU ACCESS**
- > Main Menu
 - > Wi-Fi Connection
 - > Registration Info.

MAC-ID and Verification Code



Once the device is connected to the internet, you'll be able to read the **Temporary Verification Code (TVC)** and **MAC ID** from the Wi-Fi Status screen.

Tap the TVC to generate a new one when the previous code expires.

The MAC ID is a unique network ID for this device; this helps to identify your device over the internet.

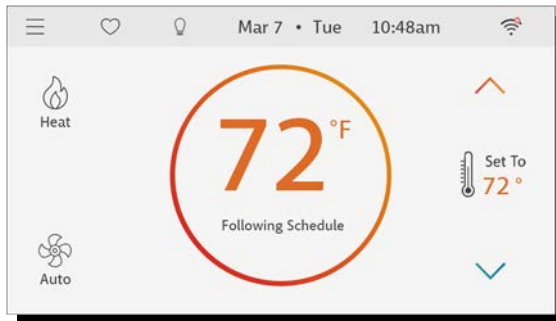
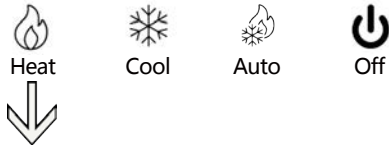
The Temporary Verification Code (**TVC**) is a 4-digit code that is randomly generated each time you enter this screen. It expires after 90 seconds, upon which a new one will be needed.

During technical support, the TVC also functions as the verification of "the user currently in possession of the device".


Mode Setup

On the Main Screen, tap the mode icon on the upper left to switch between Cool, Heat, Auto, and Off settings.

System Modes



Please note that your device is always “running a program” and the current operation mode is part of that program. Thus, changing the current mode will also update the mode setting in the current program.

 System Off

You can opt to turn the System Off to shut down all HVAC operations including fan operation.

Schedule

Temporary Adjustment

You can override the current schedule by tapping the color-bar to adjust the temperature. This is a temporary adjustment, meaning that the override expires when the next schedule begins. Tap the lock icon to permanently hold the setting.



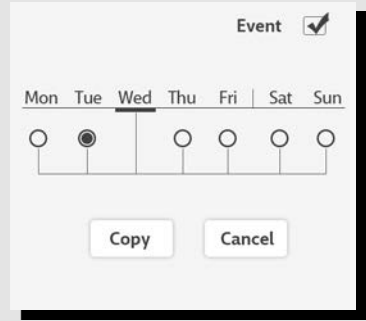
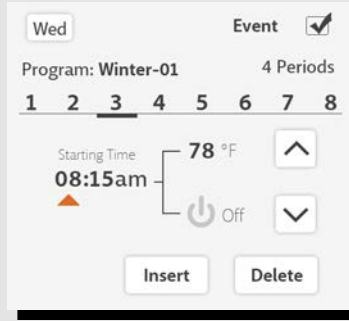
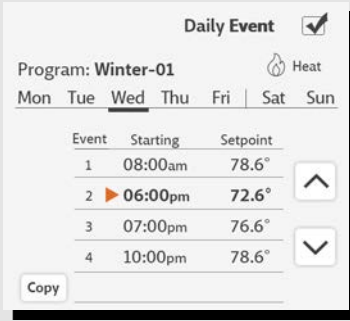
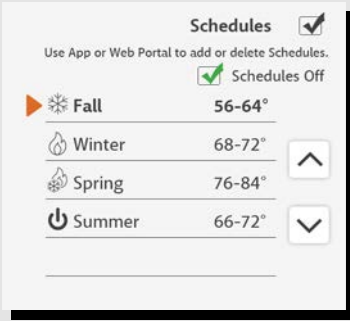
Scheduling with the App

From the main menu in the App, select Schedule:

- 1) Tap a day of the week;
- 2) Scroll left and right to the column you want to change;
- 3) Simply drag the color bar up or down to change the temperature;
- 4) To create a new setpoint, tap on a time column, then move the rest of the color bar section up or down;
- 5) To delete a setpoint, merge the color bar with the one before or after.

Schedule on the Thermostat

System Menu -> Schedules



VIEW: View the schedule in either Graphic or List View.

SET: Set up specific setpoints (temperature and time).

COPY: Copy the setpoints to other days of the week.

Schedule List:

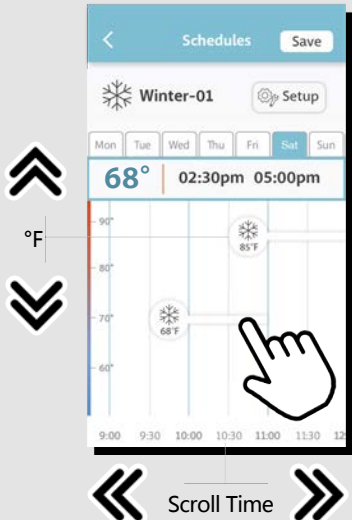
There are only two default schedules available for selection when the device is offline. Please follow the instructions on the App or Webpage to create a new schedule or to delete an existing one.

Schedule Steps:

- STEP 1:** Select a **period** (total of 8 available per day) to change.
- STEP 2:** Set **Starting** Time increments in 15-minute intervals.
- STEP 3:** Select desired **temperature** or system **Off** for the period.

INSERT Insert a new period before the current one.

DELETE Delete the current period, merging the time with the next period.



Webpage Schedule



Log in to your account on the Webpage, select Schedule from the user menu:

- 1) Select a schedule, then tap a day;
- 2) Scroll left and right to the column you want to change;
- 3) Simply drag the color bar up or down to change the temperature;
- 4) To create a new setpoint, tap on a time column, then move the rest of the color bar up and down;
- 5) To delete a setpoint, merge the color bar with the one before or after.

Additional Features



Nightlight Nightlight can be programmed to turn on and off on a fixed daily schedule.

Screen There are 4 levels of screen brightness.

EZ Comfort EZ Comfort allows you to choose from four adjustable presets for your convenience. Tap the heart icon on the home screen to enter the EZ Comfort screen.



Weather Forecast

The weather forecast is based on the physical location of the thermostat.

When you use the App to add the device to your account, the location will automatically be assigned. You can also assign or change the location after you log in to your account on the App or webpage.

Fan Operation

Auto Fan will follow heating and cooling operations.

On Fan runs non-stop until either 'Auto' or 'Circulation' have been selected.

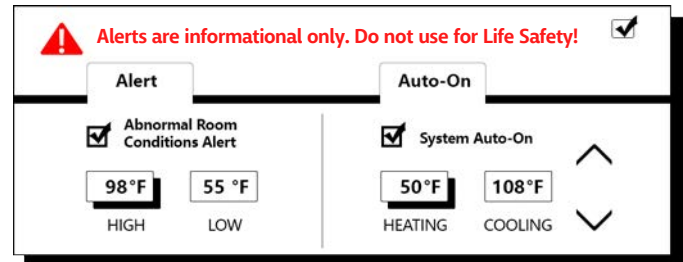
Circulation Fan runs on and off regularly in addition to heating and cooling operations*.

By selecting this option, you also need to define the operation time length and schedule for the circulation.



*If the G wire was substituted for the C wire during installation, the Fan-On & Circulation options will not function.

Temperature Alerts and Auto-On



Alert Sends alert message when room temperature is out of the range between high and low.

Auto-On Turns system on automatically when the room temperature reaches the heating and cooling setpoints while the system is off.

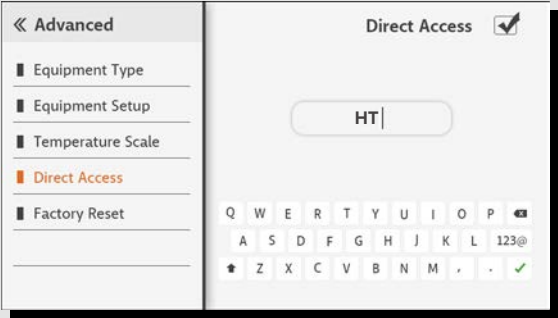
Messages will be sent to your account and can be viewed on the device, App and Webpage.

These codes provide direct access to many common features; it is also the entry point to advanced features for the device. This is designed for professionals who want to utilize advanced features for better accessibility.

Direct Access

- HT Heating Setup**
Set up heating type and valve for heat pump systems
- IS Initialization Setup**
Step by step guide to set up your thermostat for the first time
- PM Parameter Modifier ***
Advanced settings for system key parameters
- SC Sensor Calibration ***
To calibrate or correct the device temperature reading
- SI System Information**
Display hardware and software info for the device
- SL System Lock/Unlock**
Lock the thermostat to prevent on-device operation
- SM System Message**
System generated notices and alerts
- ST Screen Timeout ***
Set timeout length for screen auto-off during inactivity
- SU System Update**
Manually update system software
- VC Verification Code**
Display a 4-digit temp. code for verification purposes
- WF Additional Wi-Fi Options**
Turn Wi-Fi on/off to enable or disable internet connection

* Advanced Features



THIS DOCUMENT CONSISTS OF IMPORTANT LIMITED WARRANTY INFORMATION REGARDING YOUR CLAIMS AND ACCOUNTABILITY, AS WELL AS RESTRICTIONS AND EXCLUSIONS THAT MAY APPLY TO YOU.

Robertshaw Climate warrants to the original purchaser that this product and its component parts will be free from defects in workmanship and materials for a period of two (2) years from the date of purchase with proof of purchase. If this product is purchased and installed from a licensed HVAC/R (Heating, Ventilation, Air Conditioning, Refrigeration) professional, Robertshaw Climate will extend this limited warranty an additional three (3) years, resulting in a warranty period of five (5) years for that product.

Warranty Limitations

This warranty begins on the date of purchase.

Warranty is Void if:

- The date code is defaced or removed.
- The product has a defect or damage due to product alteration, connection to an improper electrical supply, shipping and handling, accident, fire, flood, lightning or other conditions beyond the control of the manufacturer.
- The product is not installed according to the manufacturers instructions and specifications.
- The product has been installed near sources of electromagnetic interference (EMI) such as arcing relay contacts.

Owner's Responsibility

- Provide proof of purchase.
- Provide proof of proof of professional installation (if outside the standard warranty period but less than 5 years).
- Provide normal care and maintenance.
- Pay for return postage.
- Pay for service calls related to product installation.
- Return any defective product.
- In no event shall the manufacturer be liable for incidental or consequential damages.

This warranty gives you specific legal rights and you may have others which vary by state and/or province. For example, some states and/or provinces do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion may not apply to you.

The manufacturer's continuing commitment to quality products may require a change in specifications without notice.

LIMITED WARRANTY

Please visit our website for the complete disclosure of this statement