Owner's Manual

AprilAire

Model

S86W MUPR

Wi-Fi Thermostat with IAQ

READ AND SAVE THESE INSTRUCTIONS

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About Your New Thermostat

THERMOSTAT FEATURES

- Remote access and control over Wi-Fi.
- Indoor air quality control.

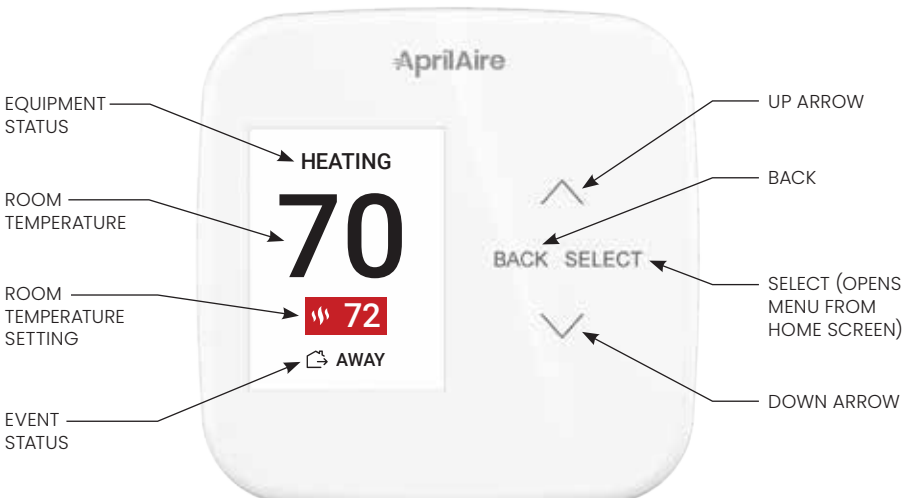
NOTE: Only one of the following IAQ accessories can be controlled per installation:

  - Humidifier, automatic or manual control.
  - Dehumidifier.
  - Ventilation, with temperature and humidity limits.

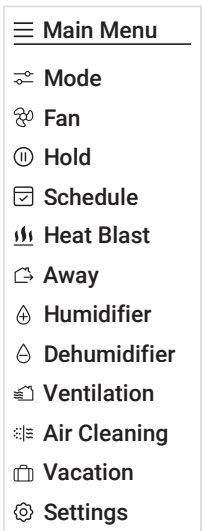
- Healthy Air Mode to run ventilation/air cleaning based on indoor air quality. Requires separate AprilAire Healthy Air Monitor to be installed.
- Heat Blast® raises the room temperature 3°F to 5°F.
- Easy to read, color display.
- 7 day programmability.
- Displays room temperature, room humidity, temperature setting, and outdoor temperature.
- Air filter, humidifier, dehumidifier, and HVAC service reminders.
- Programmable fan control with fan circulation mode.
- Easy to use temperature control can override program schedule at any time.
- Progressive recovery ensures proper temperature at the start of a program event.
- Optional wireless indoor and outdoor temperature and humidity sensors.
- Optional wireless water sensor.
- Temperature sensor averaging and the ability to assign a sensor to a schedule event.

Quick Reference to Controls & Display

HOME SCREEN



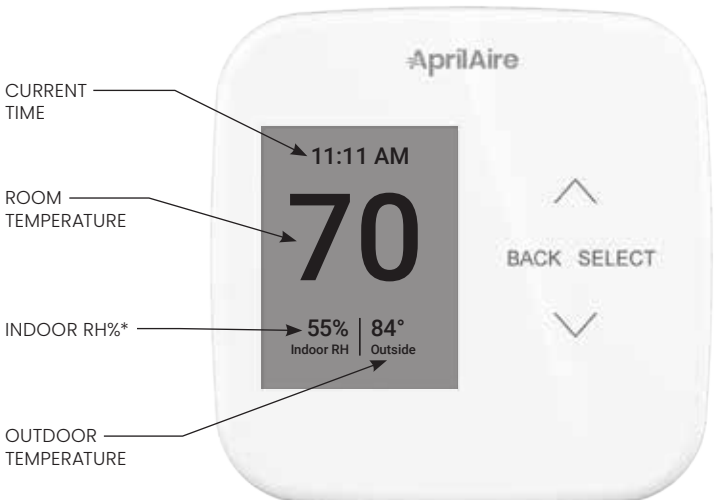
MAIN MENU



Item availability based on installed options.

SCREEN SAVER

Starts 45 seconds after inactivity, press any button to wake the screen.



**Indoor RH is only displayed if enabled in the Installer Set-up.*

Wi-Fi Setup & Remote Access

For instructions on connecting the thermostat to a Wi-Fi network and registering it to an AprilAire account, refer to the Healthy Air App User Guide at: **aprilaire.com/support/app-user-guide**

Operation

SELECT SYSTEM MODE (EM HEAT / HEAT / COOL / AUTO / OFF)

1. Press **SELECT** to enter **Main Menu**.
2. Use ^ or v to select the **Mode** option.
3. Press **SELECT** to enter **Mode** menu:
4. Use ^ or v to select the desired mode.

   Heat: Thermostat controls only the heating system.

   Cool: Thermostat controls only the cooling system.

   Auto: (if enabled in installer setup) Thermostat automatically selects heating or cooling depending on the indoor temperature.

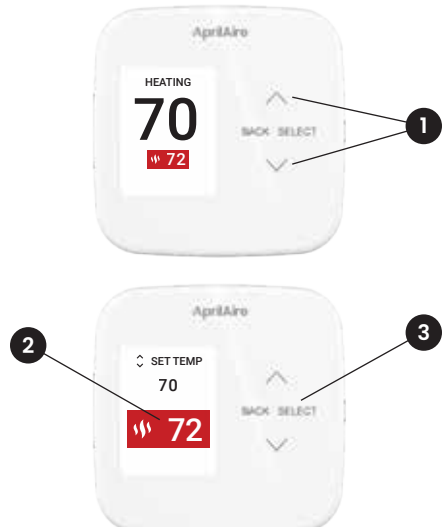
   Emergency Heat: (only for heat pumps with auxiliary heat) Thermostat controls auxiliary heat. Heat pump will not operate in **Em Heat** mode.

   Off: Heating and cooling systems are off.
5. Press **SELECT** to save the mode and return to the home screen, or **BACK** to exit without saving.

CHANGE TEMPERATURE SETTING

1. From the **Home** screen press ^ or v to adjust the current temperature setting.
2. The temperature setting will enlarge during adjustment.
3. The temperature setting will take effect 3 seconds after the last adjustment or press **SELECT** to save and return to the home screen.

See **HOW TO MODIFY PROGRAM SCHEDULES** on pages 24-25 for more information.



SELECT FAN SETTING (AUTO / ON / CIRCULATE)

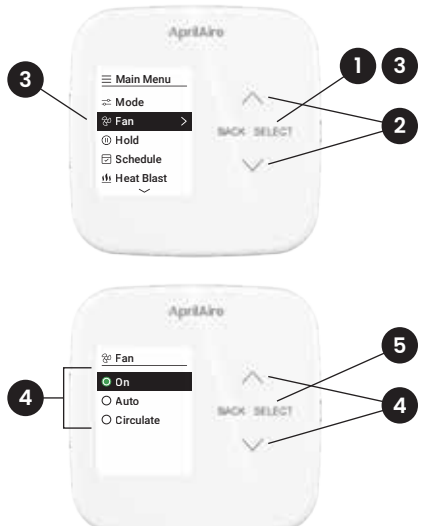
When the fan mode is changed during a program event, it remains in that mode until the next event starts. The fan must be programmed to **Fan On** in the schedule to run continuously through all events.

1. Press **SELECT** to enter **Main Menu**.
2. Use ^ or v to select the **Fan** option.
3. Press **SELECT** to enter **Fan** menu:
4. Use ^ or v to select the desired fan mode.

   On: Fan runs continuously. Use this mode for maximum air circulation/filtering.

   Auto: Fan runs only when the heating or cooling system is on.

   Circulate: Same as **Auto**, but ensures the fan is on for at least 30 minutes per hour. Use this mode for a balance of energy savings and air circulation/cleaning.
5. Press **SELECT** to save the fan mode and return to the home screen, or **BACK** to exit without saving.



MAINTENANCE REMINDERS

Maintenance reminders are set up by the installer to indicate when the equipment is due for service. If a maintenance reminder is displayed, call your HVAC dealer for service. They can be reset by selecting the **Reset** option on the reminder message or in the **Reset Service Reminders** option found in the **Settings** menu.

LOCKOUT

The user can disable access to the thermostat's features. (See **USER SYSTEM SETTINGS TABLE** on page 30 for details.) This feature can be overridden by pressing and holding the **SELECT** button for 7 seconds.

Indoor Air Quality Functions

EVENT-BASED™ AIR CLEANING (IF INSTALLED)

1. Select **Air Cleaning** from the **Main Menu**. Air Cleaning has two temporary events and three persistent modes that can be set. Air cleaning will activate the fan for the purpose of air cleaning.

2. **Events** (temporary)

   3 Hrs: When selected, the air cleaner will run for 3 hours continuously and then return to the most recent mode of **Auto**, **Continuous**, or **Off**. This option only cleans the air when needed; an example would be after vacuuming.

   24 Hrs: When seasonal allergies spike and outside air quality is at its worst, choose this option. Your air cleaner will run continuously for 24 hours, then return to the most recent mode of **Auto**, **Continuous**, or **Off**.

NOTE: The thermostat will manage fan and air cleaning selections when the selections overlap.

3. **Modes** (persistent)

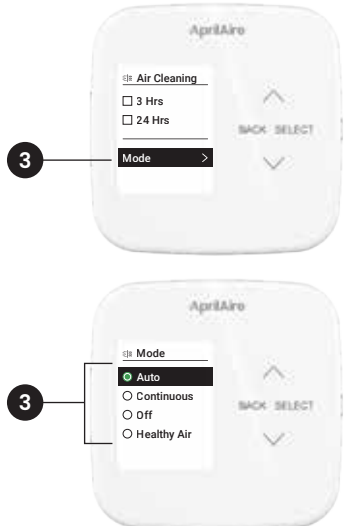
   Auto: The air cleaner will run a minimum of 30 minutes every hour. The air cleaner will monitor the amount of time your heating and cooling system runs; if 30 minutes is not reached the air cleaner will automatically turn on. This will provide a balance between air cleaning and energy usage.

   Continuous: This option will provide the maximum amount of air cleaning available. The air cleaner will be active for 24 hours a day, seven days a week.

   Off: The air cleaner will not run the fan for the sole purpose of air cleaning.

   Healthy Air: The air cleaner will run based on the air quality measured by your AprilAire Healthy Air Monitor. This is an efficient way to air clean by only turning on the air cleaner when needed. A separate AprilAire Healthy Air Monitor must be installed in the location and connected to the cloud for this mode to be available on your thermostat.

NOTE: If air cleaning is installed, air cleaning will still occur during normal fan operation during heating, cooling or other indoor air quality events.



HUMIDIFIER CONTROL (IF INSTALLED)

The thermostat can be configured, through the **Installer** set-up, to control a humidifier and operate it in one of two modes, either **Automatic** or **Manual**. The thermostat will allow you to set a range of humidity based on an outdoor temperature reading (Automatic) or set and hold a value based on a single set point (Manual).

1. Select **Humidifier** from the **Main Menu**.
2. From this screen you can select humidity level adjustment or turning the control on or off.
3. To determine which mode the thermostat is set to, see **3a** and **3b** at right.

AUTOMATIC MODE

In **Automatic Mode**, you will receive the optimal amount of humidity so that your home and its furnishings will be protected from the potentially damaging effects of excessive or insufficient humidity during the heating season. The thermostat automatically adjusts your home's relative humidity based on the outdoor temperature to provide as much humidity as possible while avoiding window condensation.

The humidity setting needs to be set low initially to determine the humidity limits of your home. Please follow these steps when adjusting your thermostat.

1. Adjust the humidity setting to **3**, which is within the low-normal range. During the next 24-48 hours, it may be necessary to adjust the setting for more or less humidity, depending on your personal comfort and home's construction.
2. During the coldest days of the first heating season, minor adjustments may be necessary. This will depend on your home's windows and overall insulation. The relative humidity in your home will then be accurately controlled to meet your needs and should not need any adjustment during future heating seasons.

MANUAL MODE

In Manual Mode, it is important to anticipate drops and react to increases in outdoor temperature to maintain as much humidity as possible while avoiding window condensation.

1. Use **TABLE 1** below to determine the proper relative humidity setting. Changes may be necessary several times per day throughout the heating season.

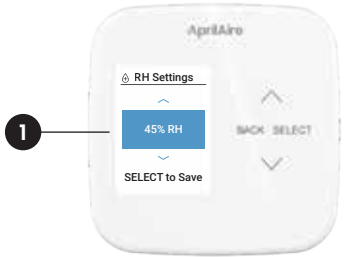


TABLE 1: RECOMMENDED RELATIVE HUMIDITY

Outdoor Temperature	Indoor Relative Humidity
+50°F	50%
+40°F	45%
+30°F	40%
+20°F	35%
+10°F	30%
0°F	25%
-10°F	20%
-20°F	15%

DEHUMIDIFIER CONTROL (IF INSTALLED)

The thermostat can be configured, through the installer set-up, to control dehumidification with either a whole home dehumidifier or with the air conditioner (cooling unit). The thermostat will allow you to set the desired humidity (% relative humidity) level in your home and can be used to turn the dehumidification **On** or **Off**.

1. Use the dehumidification adjustment to set the dehumidification setpoint to **60%** when first installed. Allow dehumidification to run until the initial setpoint is reached, before deciding if you want to change the humidity setting.

   Raise the setting if you prefer the air to be **less dry**; this will reduce the amount of time that dehumidification runs.

   Lower the setting if you prefer the air to be **more dry**; this will increase the amount of time that dehumidification runs.

Your comfort is the best measure of how to adjust your setting. When first installed, your dehumidifier has to remove all the moisture that is initially in your home. The home acts like a sponge so the moisture in the materials of your home is at the same level as the air. After drying the air, the materials of the home will release the moisture back into the air until they are again at the same level. As a result, it is not uncommon for dehumidification to operate for an extended period of time when it is first installed.

IF DEHUMIDIFICATION IS DONE WITH THE AIR CONDITIONER

The thermostat will cool up to 3°F beyond the cooling setpoint for dehumidification.
NOTE: overcooling may not be sufficient to meet the dehumidification setpoint.

ENERGY SAVING TIP #1:

Adjust the setting to be as high as is comfortable to reduce dehumidification run time – if it feels clammy or smells damp or moldy lower the setting. To save energy, turn the dehumidifier control **OFF** when you open your windows just as you would with air conditioning.

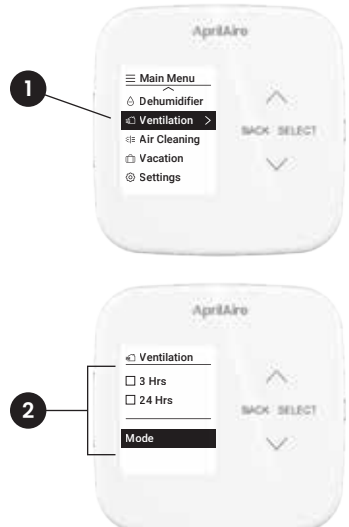
ENERGY SAVING TIP #2:

If vacating your home for an extended period in the summer, set the relative humidity to **60%** and the cooling set point to the highest level that meets the comfort and safety needs of your pets and possessions. Consult with professionals to determine the best set point. This will keep the humidity at a controlled level to help prevent mold while minimizing the amount of the cooling energy used. **Vacation** hold is a convenient way to adjust the dehumidification and cooling setpoint when you will be away. See page 27.

FRESH AIR VENTILATION (IF INSTALLED)

This thermostat can be configured, through the **Installer** set-up, to control fresh air ventilation based on a predetermined hourly schedule. You can temporarily override that schedule to bring in more fresh air, if desired, or even turn it off if outdoor conditions are poor.

1. Select **Ventilation** from the **Main Menu**.
2. From this screen you can select **Ventilation Events** or **Mode**.



Ventilation has two temporary events and three permanent modes that can be set.

3. **Events** (temporary)

   3 Hours: Ventilation will be constantly energized for 3 hours and then the fresh air mode will return to **Auto** or **Off** depending on which mode was most recently active. This option is used when fresh air is needed. **Example:** To dilute unwanted cooking odors.

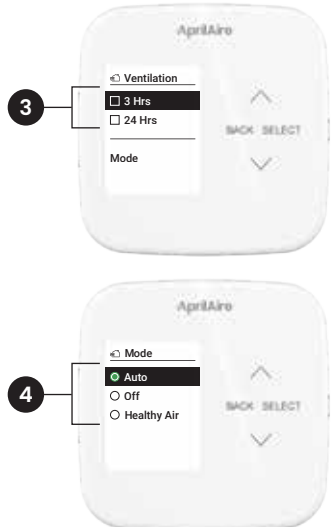
   24 Hours: Ventilation will be constantly energized for 24 hours and then the fresh air mode will return to **Auto** or **Off** depending on which mode was most recently active. This option is used when a large amount of fresh air is desired. **Example:** A day with desirable outdoor conditions.

4. **Mode** (persistent)

   Auto: Ventilation will cycle based on the parameters set by the installer to meet your home's ventilation requirements.

   Off: Ventilation will not run.

   Healthy Air: Ventilation will run based on the air quality measured by your AprilAire Healthy Air Monitor. This is an efficient way to only bring in fresh air when needed. A separate AprilAire Healthy Air Monitor must be installed in the location and connected to the cloud for this mode to be available on your thermostat.

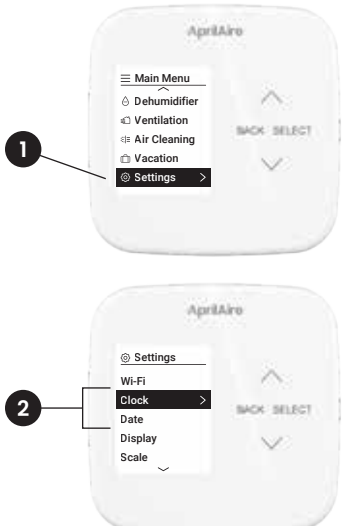


Program Schedule and Holds

SET TIME AND DATE

1. Select **Settings** from the **Main Menu**.
2. From the **Settings** menu, select **Clock** the to set the time, or **Date** to set the date.

NOTE: Once the thermostat connects to the cloud, the time and date will be updated periodically. The thermostat will automatically update for daylight savings.



UNDERSTANDING PROGRAM SCHEDULES

The daily schedule is split into four sections:

Wake: Temperature you would prefer to wake up to.

Leave: Temperature when you are away from the house.

Return: Temperature you would prefer to return home to.

Sleep: Temperature you would prefer while sleeping.

Event 1: Optional additional event enabled in app only.

Event 2: Optional additional event enabled in app only.

The times and temperatures shown in **TABLE 2** are the defaults. The start time and temperature of each section can be changed to fit your schedule. We recommend these settings, since they can reduce your heating/cooling expenses. The fan program is pre-set to **Auto** for all events.

TABLE 2: DEFAULT SCHEDULE

Event Designator	Start Time	Set Temperature		Fan
		Heat	Cool	
Wake	6:00 AM	70°F (21°C)	78°F (25.5°C)	Auto
Leave	8:00 AM	62°F (16.5°C)	85°F (29.5°C)	Auto
Return	5:00 PM	70°F (21°C)	78°F (25.5°C)	Auto
Sleep	10:00 PM	62°F (16.5°C)	82°F (27.5°C)	Auto
Event 1*	User defined	70°F (21°C)	78°F (25.5°C)	Auto
Event 2*	User defined	70°F (21°C)	78°F (25.5°C)	Auto

**Event 1 and 2 are optional events, enabled from the app.*

PROGRESSIVE RECOVERY

The Progressive Recovery feature allows Pre-Heating or Pre-Cooling PRIOR to a scheduled event in order to reach the desired temperature at the start of that scheduled event. **Example:** According to **TABLE 2**, the **Wake** time is 6:00 am, the **Wake** heat set point is 70°F and the **Sleep** set point is 62°F. The heat will turn on prior to 6:00 am so that the temperature reaches 70°F by the time the **Wake** event begins.

HOW TO MODIFY PROGRAM SCHEDULES

1. From the **Schedule** option in the **Main Menu**, you can turn the schedule on or off, and make changes to the schedule.

   Modify: The event start time, temperature, fan mode, and controlling sensor (if installed) can be adjusted for each event of each day.

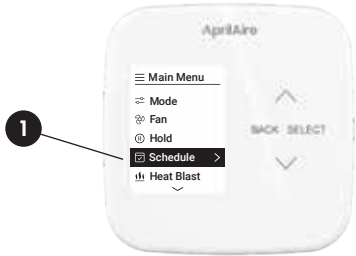
   View: View the current schedule that is programmed.

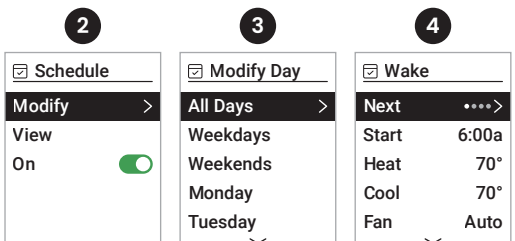
   On/Off: When the **Schedule** is turned **Off** the thermostat will continue to control at the current temperature setting until adjusted with ∧ and ∨.

2. Select **Modify** to change default schedule settings.

3. Select the group of days or day you would like to modify.

4. Adjust **Wake** details (**Start**, **Heat**, **Cool**, **Fan**, **Sensors**, and/or select **Next** to proceed.





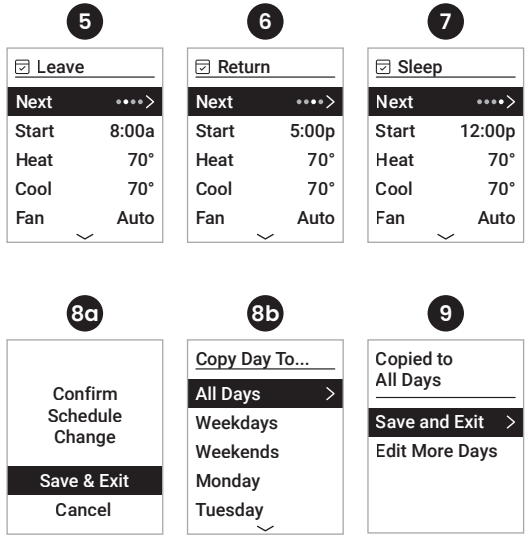
5. Adjust **Leave** details and/or select **Next** to proceed.

6. Adjust **Return** details and/or select **Next** to proceed.

7. Adjust **Sleep** details and/or select **Next** to proceed.

8. **a)** If you modified a group of days you will see a confirmation message, you can return to the **Home** screen by selecting **Save & Exit**, or go back by selecting **Cancel**.
   b) Or if you modified a single day you can copy the settings to another day or group of days.

9. If you choose to copy, you will see this confirmation message, you can return to the **Modify** menu to make changes to another day by selecting **Edit More Days** or return to the **Home** screen by selecting **Save and Exit**.



HEAT BLAST® (IF INSTALLED)

Heat Blast® will raise the current room temperature 3°F to 5°F based on the installer set-up, and then resume normal operation.

To activate Heat Blast, select **Heat Blast** from the **Menu**, and use the **Select** button to set the toggle to **ON**.

NOTE: Heat Blast button is only available if it is enabled in the **Installer Setup** and the thermostat is in **Heat** or **Emergency Heat** mode.

To cancel Heat Blast, select **Heat Blast** from the **Menu**, and use the **Select** button to set the toggle to **OFF**.

PROGRAM SCHEDULE HOLDS

TEMPORARY HOLD

Press ∧ or ∨ to immediately adjust the temperature when the schedule is running. This will temporarily hold the temperature setting until the next scheduled event.

A temporary hold can also be set from the **Hold** option in the **Menu**. The end time of the hold can also be adjusted from here.

The temporary hold can be canceled from the **Hold** option in the **Menu**, or by adjusting the temperature back to the scheduled temperature.

AWAY

The Away feature allows the thermostat to be set to a predefined setpoint(s) by simply pressing the **Away** button in your App or in the thermostat's **Menu**. The default cooling setpoint is 85°F (29.5°C), the default heating setpoint is 62°F (16.5°C) and the default fan mode is **Auto**. The default settings can be modified in the **Settings Menu** under the **Away** option. Away can be canceled from the **Away** option in the **Menu**.

VACATION

This energy saving feature allows you to suspend the programmed schedule for an extended period of time. The selected temperature and dehumidification setpoint (optional) will be maintained until the vacation hold end date and time. Once that date and time are met, the previously programmed schedule will resume. If you return earlier than expected, turn off the vacation hold from the **Vacation** option in the **Menu** to resume the programmed schedule.

Wi-Fi Maintenance and Troubleshooting

CLEARING ROUTER SETTINGS

If you purchase a new Wi-Fi router or change the security settings on your existing router, the router settings in the thermostat need to be cleared so the new Wi-Fi router settings can be entered. To do this, enter the **Wi-Fi Settings** menu (Menu > Settings > Wi-Fi). Then select **Disconnect**. This will remove all the previous Wi-Fi connection settings. Refer to the Healthy Air App User Guide (**aprilaire.com/support/app-user-guide**) for instructions on connecting the thermostat to your Wi-Fi network. **NOTE:** Clearing the router settings will not remove the thermostat from your user account. See **Removing the Thermostat from a User Account**.

REMOVING THE THERMOSTAT FROM A USER ACCOUNT

The thermostat can only be registered to one account. If you need to remove the thermostat from an existing account so it can be registered to a new account, it can be done at the thermostat. This may need to be done for instance if you have purchased a home with the thermostat and need to remove the thermostat from the previous owner's account and register it to your account. To do this, enter the **Advanced Wi-Fi Settings** menu (Menu > Settings > Wi-Fi > Advanced). Then select **Unregister**. This will remove the thermostat from any account that it is currently registered to. Refer to the Healthy Air App User Guide (**aprilaire.com/support/app-user-guide**) for instructions on registering the thermostat to a new account.

DISABLING THE WI-FI RADIO

To turn off the Wi-Fi radio on the thermostat, enter the **Advanced Wi-Fi Settings** menu (Menu > Settings > Wi-Fi > Advanced > Wi-Fi ON/OFF). Then select **OFF** and press **SELECT**. This will turn off the Wi-Fi radio, but maintain all network settings. To turn the Wi-Fi radio back on simply enter the **Advanced Wi-Fi Settings** menu and change the setting to **ON** and press **SELECT**.

TROUBLESHOOTING WI-FI CONNECTION

The Wi-Fi connection status is communicated through the use of the radio strength indicator on the **Wi-Fi Settings** menu (Menu > Settings > Wi-Fi).

Setup Menu

TABLE 3: USER SYSTEM SETTINGS TABLE	
Wi-Fi	Wi-Fi connection mode, connection status, and advanced connection settings.
Clock	Set time (automatically updates when connected to internet).
Date	Set date (automatically updates when connected to internet).
Display	Display can be disabled during sleep for light sensitive locations.
Scale	Change temperature scale from Fahrenheit to Celsius.
Away	Adjust the default heating and cooling temperatures used for away holds.
About	Contains thermostat model number and software/hardware version.
Reset Reminder	Reset expired service reminders.
Lockout	Locks controls to prevent tampering. To temporarily override the lockout press and hold the **Select** button for 7 seconds.

Limited Warranty

Terms of Coverage

Your AprilAire® Thermostat is expressly warranted to be free from defects in materials or workmanship for five (5) years from date of purchase.

What Is Covered

The exclusive obligation of AprilAire under this Limited Warranty shall be, at the sole discretion of AprilAire, to supply, without charge, a replacement for any component or product which is found to be defective. A defective part will be replaced pursuant to this Limited Warranty with a genuine AprilAire part. A defective product will be replaced pursuant to this Limited Warranty with a new AprilAire product of equal or similar features and functionality if the original product has been discontinued or is no longer available.

Not Covered by the Limited Warranty

- Consumable or maintenance products, such as, but not limited to: Air Filters, Evaporative Humidifier Water Panels, Steam Canisters, or Steam Humidifier Electrode Wires.
- Products purchased from third parties that were previously used, such as previously-used products purchased from eBay, similar third party/auction sites, or individuals selling used products.
- Labor charges, shipping costs, removal fees, service fees, or reinstallation costs.
- Materials furnished by the installer.
- Damage caused by misuse, abuse, improper installation, or failing to install, use, or maintain the product in accordance with the instructions provided.
- Damage to HVAC equipment caused by improper installation(s) or misapplication installation(s).
- Modifications, changes, repurposing, or alterations to the AprilAire product.
- Extended warranties or satisfaction guarantees offered by third parties.
- Cosmetic damage or normal wear and tear, including, but not limited to: scratches, peeling finish, or dents that do not impede the mechanical functionality of the product.
- Damage caused by acts of nature, including but not limited to: fire, collision, flood, wind, power surge, lighting strike, or mold.
- Damage caused during transit.
- Damage caused during installation due to failure to follow local, state, or federal laws, statutes, codes, or ordinances.
- Damage caused by defects in materials furnished by the installer.

Limit of Liability

IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL BE LIMITED IN DURATION TO THE AFOREMENTIONED EXPRESS WARRANTY PERIOD. APRILAIRE LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, OTHER THAN DAMAGES FOR PERSONAL INJURIES, RESULTING FROM ANY BREACH OF THE AFOREMENTIONED IMPLIED WARRANTIES OR THE ABOVE LIMITED WARRANTY IS EXPRESSLY EXCLUDED. THIS LIMITED WARRANTY IS VOID IF DEFECT(S) RESULT(S) FROM FAILURE TO INSTALL THE PRODUCT ACCORDING TO THE APRILAIRE INSTALLATION INSTRUCTIONS. IF THE LIMITED WARRANTY IS VOID DUE TO MISAPPLICATION OR IMPROPER INSTALLATION, ALL DISCLAIMERS OF IMPLIED WARRANTIES SHALL BE EFFECTIVE UPON INSTALLATION.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitation(s) may not apply to your situation. This Limited Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Register Your AprilAire® Product

Thank you for choosing AprilAire. Register your product at **aprilaire.com/warranty** to receive important updates and notifications, and to streamline the process in the unlikely event you file a claim.

Your warranty registration information will not be sold or shared outside of this company.

Make a Warranty Claim

For questions regarding the Limited Warranty or to initiate a claim, contact AprilAire Customer Service at 1.800.334.6011 Monday through Friday, 7:00 a.m. to 5:00 p.m. Central Time.

At the sole discretion of AprilAire, you may be required to: return the product not later than thirty (30) days after the warranty period to the place of purchase or (if directed) to AprilAire, contact a professional contractor to provide warranty service, submit a product for testing related to a warranty claim, and/or send pictures of the original product with the serial number (if applicable) to AprilAire Technical Support for inspection as a condition to reviewing a claim and/or receiving a replacement product under this Limited Warranty.

AprilAire® is a registered trademark and division of Research Products Corporation, P.O. Box 1467, Madison, WI 53701-1467 USA.

FCC and ISED Compliance Statements

Contains FCC ID: TFB-1003 and QOQGM210P

Contains IC: 5969A-1003 and 5123A-GM210P

This device complies with Part 15 of the FCC Rules and with Innovation, Science and Economic Development Canada's License-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Interference Statement – Part 15.105 (b)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To comply with FCC and Innovation, Science and Economic Development Canada's RF exposure limits for general population/uncontrolled exposure, the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be operating in conjunction with any other antenna or transmitter, except in accordance with FCC multi-transmitter product procedures.

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U.S. Patent Numbers 8,146,376, 8,596,078, 9,874,366 and other patents pending.

AprilAire reserves the right to change specifications without notice.