

Aprilaire®

Model 8820 Wi-Fi Thermostat with Event-Based™ Air Cleaning and Humidity or Ventilation Control



Owner's Manual

Includes
Operating Instructions and
Warranty Information

READ AND SAVE THESE INSTRUCTIONS

TABLE OF CONTENTS

ABOUT YOUR NEW THERMOSTAT

Thermostat features	3
Controls & display overview	4-5

WI-FI SETUP

Wi-Fi set-up	6-7
--------------------	-----

OPERATION

Select system mode (EM HEAT/HEAT/OFF/COOL/AUTO)	8
Change temperature set point	9
Select fan setting (ON/AUTO/CIRC)	9
Clean screen	10
Maintenance reminders	10
Screen lockout	10

INDOOR AIR QUALITY FUNCTIONS

Event-Based™ air cleaning	11-12
Humidity control	13
Automatic mode	13-14
Manual mode	15-16
If dehumidification is installed	17-18
If dehumidification is done with air conditioner	19
Fresh Air	20-21

PROGRAM SCHEDULE AND HOLDS

Set time and date	22
Understanding program schedules	23-24
Progressive recovery	24
Changing program schedules	25-26
Heat Blast®	27
Program schedule holds	
Temporary	27-28
Permanent	28
Away	29
Vacation	30-31

WI-FI MAINTENANCE AND TROUBLESHOOTING

Clearing router settings	32
Removing the thermostat from a my.aprilaire.com account	32
Disabling the Wi-Fi radio	33
Troubleshooting Wi-Fi connection	33-34

SETUP MENU

How to enter the setup menu to change settings	35
User system settings table	36-39

WARRANTY

Limited warranty and registration	40
---	----

ABOUT YOUR NEW THERMOSTAT

WARNING

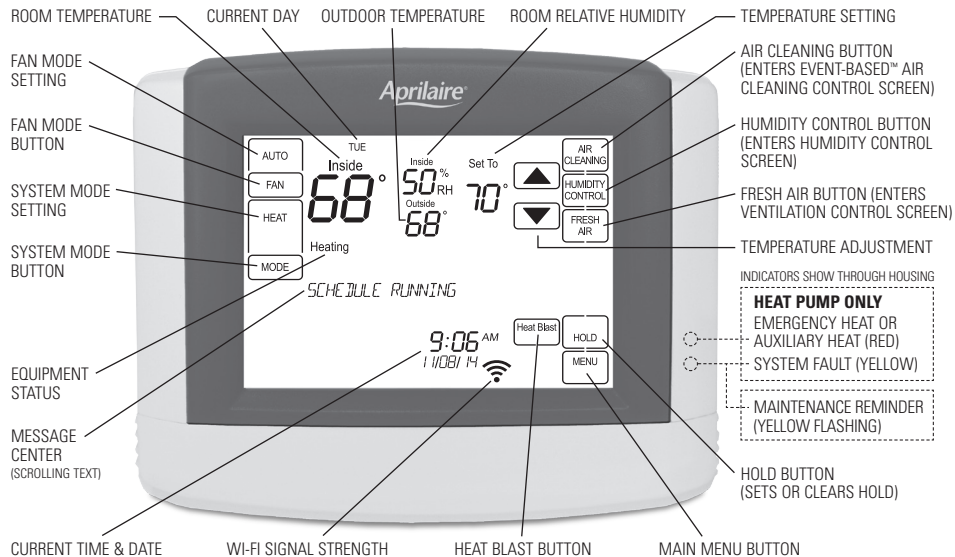
Do not use sharp instruments to press touch screen. Only use your fingertips.

THERMOSTAT FEATURES

- Remote access and control over Wi-Fi.
- Indoor air quality control.
 - Humidification automatic or manual control.
 - Dehumidification.
 - Event-Based™ air cleaning.
 - Ventilation with temperature and humidity limits.**Note:** The 8820 can only control one of the following per installation: ventilation, whole home dehumidifier or humidifier.
- Temperature control.
- Heat Blast® raises the room temperature 3°F to 5°F.
- Large touch screen with adjustable backlight – constant backlight available.
- Message center provides feedback, instructions, and service reminders.
- 7 day programmability.
- Displays room temperature, room humidity, temperature setting, and outdoor temperature.
- Programmable fan control with fan circulation mode.
- Easy to use temperature control can override program schedule at any time.

ABOUT YOUR NEW THERMOSTAT

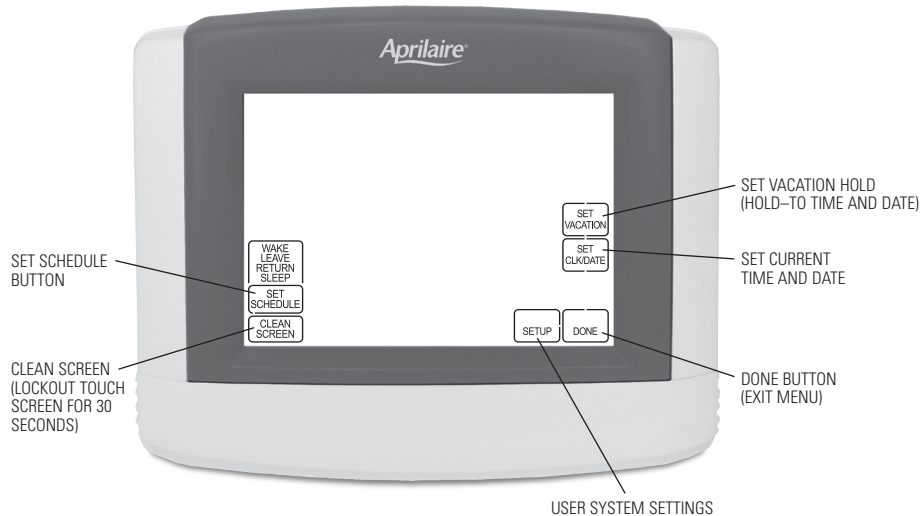
CONTROLS & DISPLAY OVERVIEW – HOME SCREEN



NOTE: BACKLIGHT IS ACTIVATED WITH FIRST BUTTON PRESS AND AUTOMATICALLY TURNS OFF.
NOT ALL BUTTONS WILL BE DISPLAYED IN EVERY INSTALLATION.

ABOUT YOUR NEW THERMOSTAT

CONTROLS & DISPLAY OVERVIEW – MAIN MENU



WI-FI SETUP

To connect the 8820 thermostat to a Wi-Fi network follow the steps below.

Note: You will need a computer or mobile device with Wi-Fi and a web browser.

STEP 1

Verify the thermostat is in Wi-Fi Connection Mode.

The thermostat by default will be in Wi-Fi Connection Mode. To confirm that the thermostat is in Wi-Fi Connection Mode, verify that the radio bars on the thermostat are strobing as shown below.



Note: If the thermostat is not in Wi-Fi Connection Mode, refer to Clearing Router Settings on page 32.

STEP 2

Connect to the thermostat using a computer or mobile device.

On your computer or mobile device, scan for available networks. The thermostat should appear as APRILAIRE8820 followed by a unique identifier, corresponding to the last 6 digits of the MAC address. Connect to the thermostat you want to configure.

If you are installing multiple thermostats, the MAC address of each thermostat will be displayed in the message center on the display of the thermostat. The MAC address can also be found by removing the cover on the front of the thermostat.

(Continued on the following page.)

WI-FI SETUP

STEP 3

Configure the thermostat to connect to the Wi-Fi network.

Open a web browser on your computer or mobile device. In the browser enter:

`http://192.168.1.99/index.html`

In the web browser interface select the network you want to connect the thermostat to, and enter the network's security credentials.

STEP 4

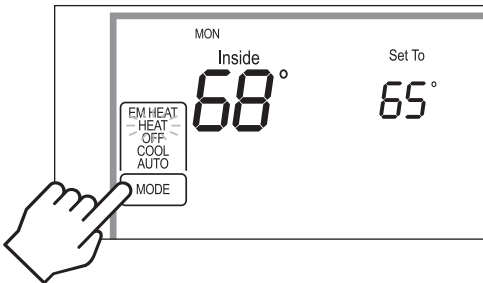
Verify the thermostat is connected to the Wi-Fi network.

Once all the required information is entered in the web browser interface, the thermostat will connect to the Wi-Fi network you selected. After the thermostat is connected to the Wi-Fi network, the thermostat will display the radio bars based on the Wi-Fi signal strength. If the radio bars are not displaying the signal strength, refer to Troubleshooting Wi-Fi Connection on pages 32-33.

Note: If you are not using the thermostat with a home automation system, but are instead using an Aprilaire account to communicate with the thermostat, refer to **Wi-Fi Thermostat App User Guide** and then **Start Up** on my.aprilaire.com for instructions on connecting to Wi-Fi and registering to an Aprilaire account. For additional instructions on using the Aprilaire web and mobile Apps refer to **Wi-Fi Thermostat App User Guide** on my.aprilaire.com.

OPERATION

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



Press **[MODE]** to select:

EM HEAT: (only for heat pumps with auxiliary heat) Thermostat controls auxiliary heat. Heat pump will not operate in EM HEAT mode.

HEAT: Thermostat controls only the heating system.

OFF: Heating and cooling systems are off.

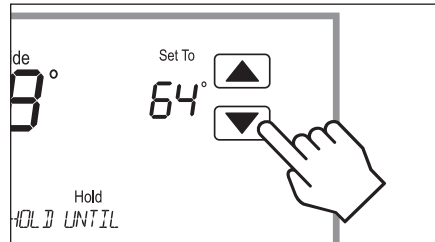
COOL: Thermostat controls only the cooling system.

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

Press **[DONE]** to save and exit, Or **[CANCEL]** to exit without saving. The thermostat will save and exit if nothing is pressed within 10 seconds.

OPERATION

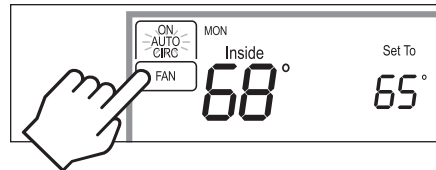
CHANGE TEMPERATURE SET POINT



Press **▲** or **▼** to adjust the current set point. (See Program Schedule Holds on pages 27-31 for more information.)

SELECT FAN SETTING (ON/AUTO/CIRC)

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.



Press **[FAN]** to select:

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

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

CIRC: 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.

Press **[DONE]** to save and exit, Or **[CANCEL]** to exit without saving. The thermostat will save and exit if nothing is pressed within 10 seconds.

OPERATION

CLEAN SCREEN

Press **[MENU]** to enter the main menu.

Press **[CLEAN SCREEN]** to disable the touch screen for 30 seconds for cleaning.

Note: Use a soft damp cloth to clean the screen. Use water or household glass cleaner. Do not spray liquids directly on the screen.

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 cleared by pressing **[MENU]** to enter the main menu. Press **▲** or **▼** select YES to Service Reminders and then press **[Next]**. Press **▲** and **▼** to select YES for each reminder you would like to reset. Press **[Next]** to go to the next reminder or **[Back]** to go to a previous reminder. Press **[DONE]** to reset the selected service reminders.

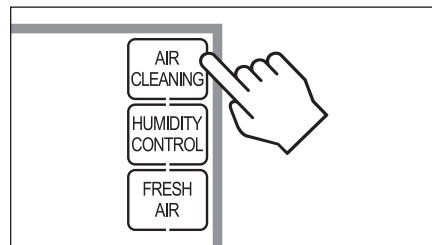
SCREEN LOCKOUT

The user can disable certain features of the thermostat. (See User System Setting Table on pages 36-39 for details.) This feature can be overridden by pressing and holding **[MENU]** for 7 seconds.

INDOOR AIR QUALITY FUNCTIONS

EVENT-BASED™ AIR CLEANING

Press **[AIR CLEANING]** on the Home screen to enter the Air Cleaning screen.



If installed, air cleaning can operate in five different modes. Air cleaning will activate the fan for the purpose of air cleaning.

Off: The air cleaner will not call the fan for the purpose of air cleaning. **Note:** If air cleaning is installed, air cleaning will still occur during normal fan operation during heating, cooling or other indoor air quality events.

Constant Clean: 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.

Automatic: 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 maximize the amount of air cleaning while minimizing energy consumption.

Event Clean (3 hour cycle): When selected, the air cleaner will run for 3 hours continuously and then return to the most recent mode of Off, Automatic, or Constant Clean. This option only cleans the air when needed; an example would be while vacuuming.

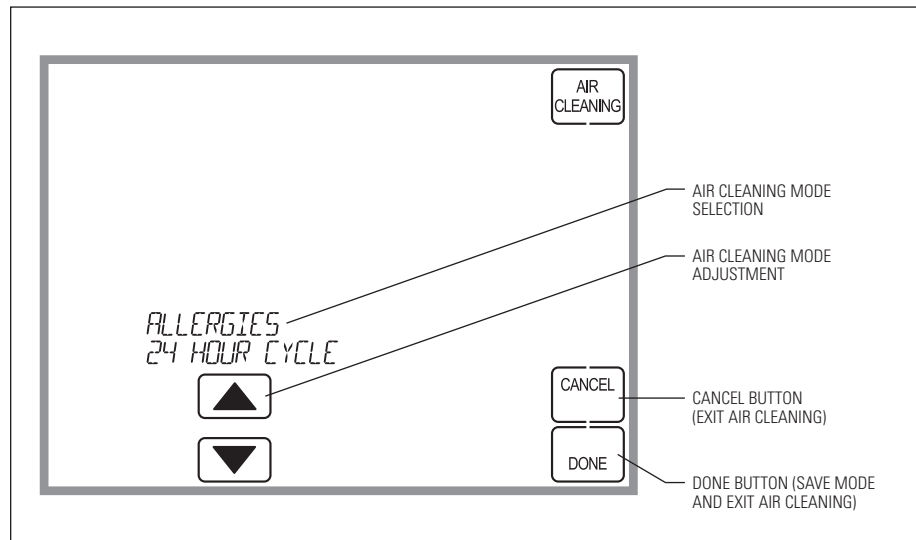
Allergies (24 hour cycle): When seasonal allergies spike and outside air quality is at its worst, choose this option. Your air cleaner will run continuously for 24 hours, then return to the most recent mode of Off, Automatic, or Constant Clean.

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

INDOOR AIR QUALITY FUNCTIONS

EVENT-BASED™ AIR CLEANING (CONTINUED)

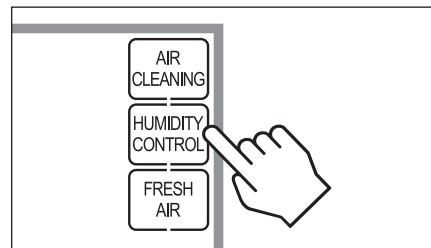
Air Cleaning Screen



INDOOR AIR QUALITY FUNCTIONS

HUMIDITY CONTROL

Press **[HUMIDITY CONTROL]** on the Home screen to enter the Humidity Control screen.



The Humidity Control screen is used to access control for both humidification and dehumidification.

If humidification is installed it can be controlled in two modes, automatic or manual.

Automatic or manual mode is configured by the installer. To determine which mode the thermostat is set to, see the diagrams on pages 14 and 16.

In automatic mode you will receive the optimum amount of humidity so that your home and its furnishings are protected from the damaging effects of excess condensation or low humidity during heating season. The thermostat automatically adjusts your home's Relative Humidity based on the outdoor temperature.

The humidity setting needs to be set initially to meet your home's conditions. Please follow these steps when adjusting your thermostat.

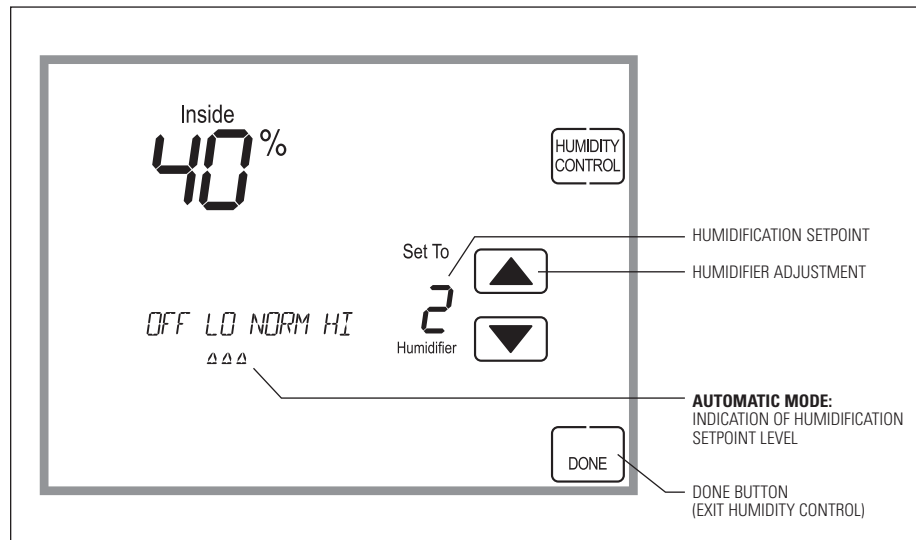
1. Adjust the humidity setting to "3" which is within normal range. During the next 24-48 hours it may be necessary to adjust the setting for more or less humidity, depending on your personal comfort and home's requirements.
2. During the coldest portion of the first heating season, minor adjustments may be necessary. This is dependent upon your home's construction.

The relative humidity in your home will now be accurately controlled to meet your needs and should not need further adjustment during future heating seasons.

INDOOR AIR QUALITY FUNCTIONS

HUMIDITY CONTROL (CONTINUED)

Humidity Control Screen for Humidification in Automatic Mode



INDOOR AIR QUALITY FUNCTIONS

HUMIDITY CONTROL (CONTINUED)

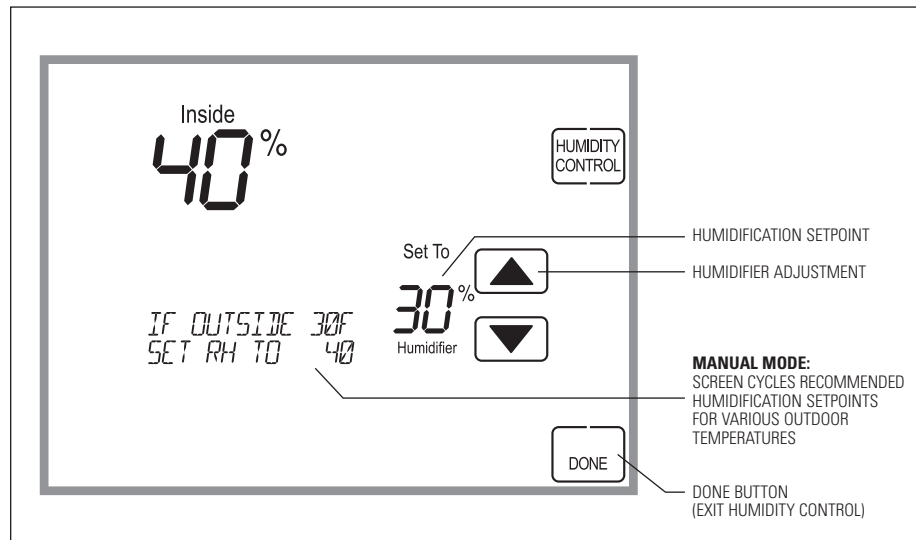
In **manual mode** it is important to anticipate a drop in outdoor temperature and reduce the setting accordingly to avoid excessive condensation. Use the following table to determine the proper Relative Humidity setting.

Outdoor Temperature/Indoor Relative Humidity	
Outside Temperature	Recommended 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%

INDOOR AIR QUALITY FUNCTIONS

HUMIDITY CONTROL (CONTINUED)

Humidity Control Screen for Humidification in Manual Mode



INDOOR AIR QUALITY FUNCTIONS

HUMIDITY CONTROL (CONTINUED)

If dehumidification is installed the thermostat can be configured, through the installer setup, 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.

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.

INDOOR AIR QUALITY FUNCTIONS

HUMIDITY CONTROL (CONTINUED)

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.

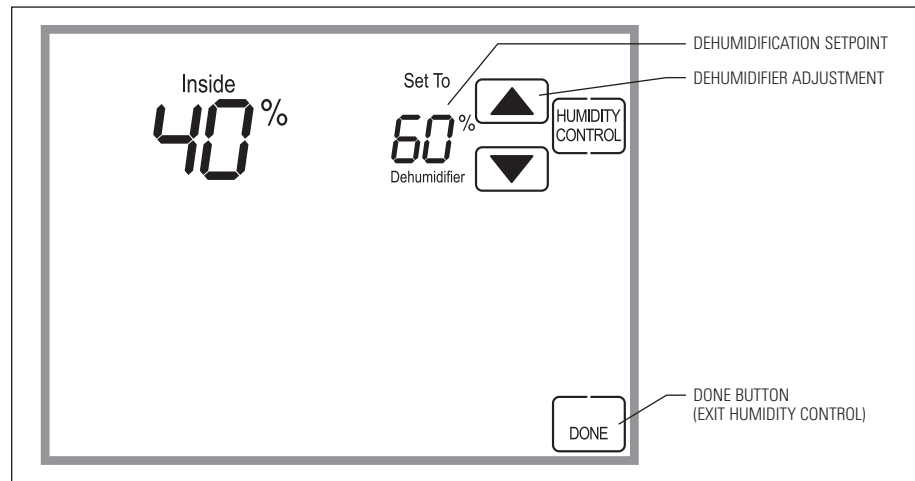
Energy Saving Tip #2:

If vacating your home for an extended period in the summer, set the relative humidity at 60% and set the cooling setpoint as high as you are comfortable setting it to in cooling mode. Consult with appropriate professionals regarding the highest temperature that is safe for your pets or possessions. 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.

INDOOR AIR QUALITY FUNCTIONS

HUMIDITY CONTROL (CONTINUED)

Humidity Control Screen with only Dehumidification Installed

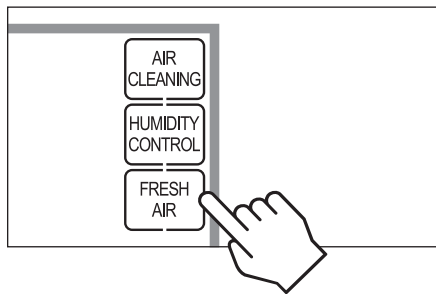


If dehumidification is done with the air conditioner, the thermostat will cool up to 3°F beyond the cooling setpoint for dehumidification. Note overcooling may not be sufficient to meet the dehumidification setpoint.

INDOOR AIR QUALITY FUNCTIONS

FRESH AIR

Press **[FRESH AIR]** on the Home screen to enter the Fresh Air screen.



If ventilation is installed, Fresh Air can operate in four different modes.

Off: Ventilation will not run.

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

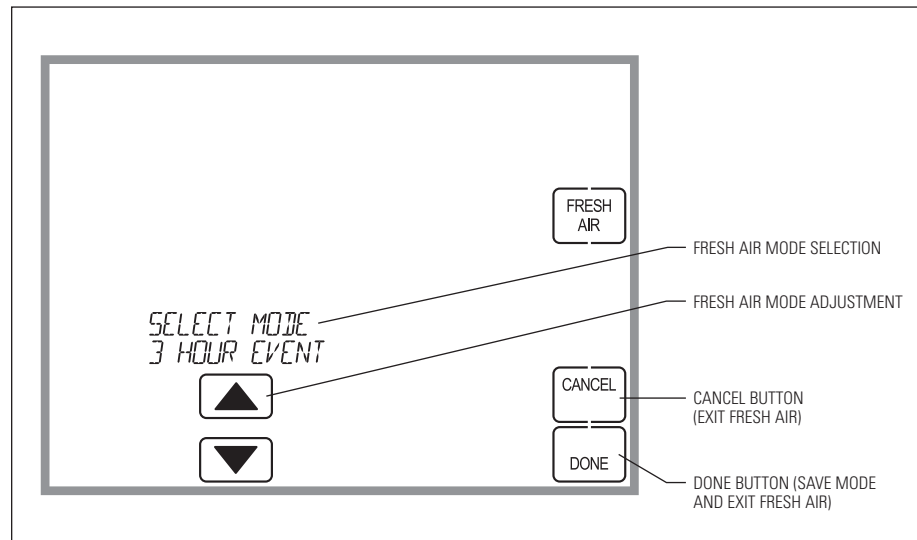
3 Hour Event: Ventilation will be constantly energized for 3 hours and then the fresh air mode will return to Off or Automatic depending on which mode was most recently active. This option is used when fresh air is needed. An example would be after cooking.

24 Hour Event: Ventilation will be constantly energized for 24 hours and then the fresh air mode will return to Off or Automatic depending on which mode was most recently active. This option is used when a large amount of fresh air is desired. An example would be a day with desirable outdoor conditions.

INDOOR AIR QUALITY FUNCTIONS

FRESH AIR (CONTINUED)

Fresh Air Screen

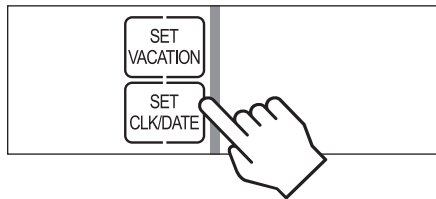


PROGRAM SCHEDULE AND HOLDS

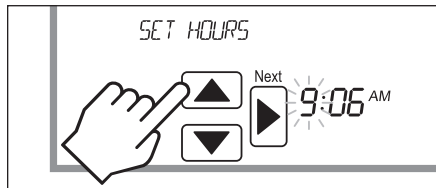
SET TIME AND DATE

Press **[MENU]** to enter the main menu.

Press **[SET CLK/DATE]** to enter clock menu.



Press ▲ or ▼ to set the hour.



Press **[Next]**, then ▲ or ▼ to set the minute.

Press **[Next]**, then ▲ or ▼ to set the month.

Press **[Next]**, then ▲ or ▼ to set the day.

Press **[Next]**, then ▲ or ▼ to set the year.

Press **[DONE]** to save and exit, Or **[CANCEL]** to exit without saving. The thermostat will save and exit if nothing is pressed within 20 seconds.

Note: If configured to do so, the home automation system can send periodic time updates to the thermostat. If the thermostat is configured to be used with an Aprilaire account the thermostat's time and date will be updated periodically, and will update automatically for daylight savings.

PROGRAM SCHEDULE AND HOLDS

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.

The times shown in the table below are the defaults. The start time and temperature of each section can be changed to fit your schedule. (See Changing Program Schedules section on pages 25-26.)

This thermostat is pre-set to use the following program settings (see table below). We recommend these settings, since they can reduce your heating/cooling expenses. The fan program is pre-set to AUTO for all events.

Event designator	Start time	Setpoint		Fan
		Heat	Cool	
WAKE	6:00AM	70°F (21°C)	78°F (25.5°C)	AUTO
LEAVE	8:00AM	62°F (16.5°C)	85°F (29.5°C)	AUTO
RETURN	5:00PM	70°F (21°C)	78°F (25.5°C)	AUTO
SLEEP	10:00PM	62°F (16.5°C)	82°F (27.5°C)	AUTO

PROGRAM SCHEDULE AND HOLDS

UNDERSTANDING PROGRAM SCHEDULES (CONTINUED)

Use the table below to assist in modifying the schedule.

Event designator	Start time	Setpoint		Fan
		Heat	Cool	
WAKE				
LEAVE				
RETURN				
SLEEP				

PROGRESSIVE RECOVERY

The Progressive Recovery feature allows the thermostat to activate the heating and cooling equipment **PRIOR** to a scheduled event in order to reach the desired temperature at the start of that scheduled event.

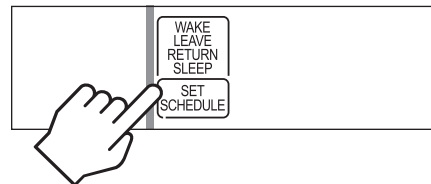
Example: If the WAKE time is 6 am, and the heat setpoint is 70°F, the heat will come on before 6 am, so the temperature is 70°F by the time you wake at 6 am.

PROGRAM SCHEDULE AND HOLDS

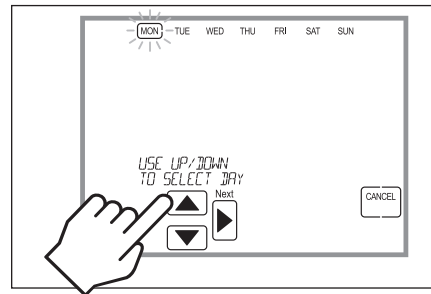
CHANGING PROGRAM SCHEDULES

Press **[MENU]** to enter the main menu.

Press **[SET SCHEDULE]** to enter schedule programming.



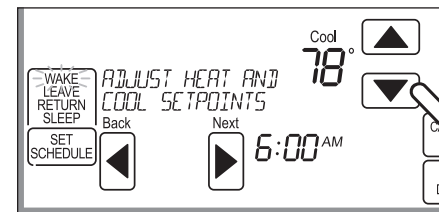
Press **▲** or **▼** to select the day.



Press **[Next]**, then **▲** or **▼** to set the start time of the first event.



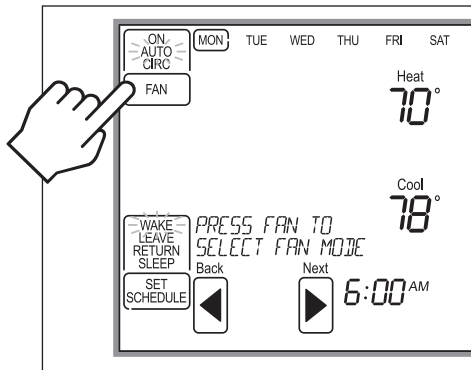
Press **[Next]**, then **▲** or **▼** to set the setpoints of the first event.



PROGRAM SCHEDULE AND HOLDS

CHANGING PROGRAM SCHEDULES (CONTINUED)

Press **[Next]**, then **[FAN]** to set the fan mode of the first event.

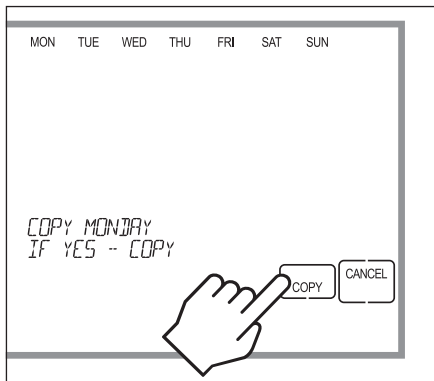


Press **[Next]** to advance to the next event.

Repeat above process for each remaining event.

Press **[DONE]** to save the schedule for the day.

The thermostat will display the COPY option.



Press **[COPY]** to copy the schedule of the day just programmed to any other day.

OR

Press **[CANCEL]** to proceed to the next day and repeat the above process.

PROGRAM SCHEDULE AND HOLDS

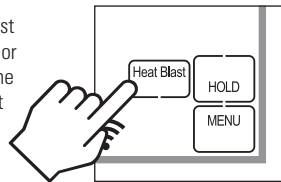
HEAT BLAST®

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

Press **[Heat Blast]** to activate Heat Blast.

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.

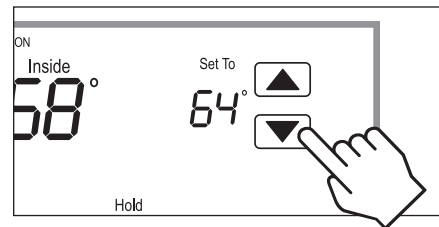
To cancel Heat Blast press **[CANCEL]**, or **[Heat Blast]**, or the temperature adjust buttons.



PROGRAM SCHEDULE HOLDS – TEMPORARY

TEMPORARY PROGRAM HOLD

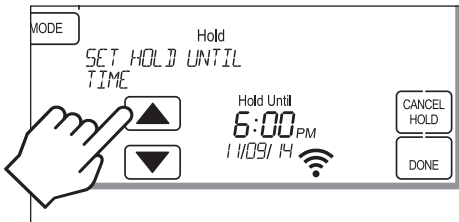
Press **▲** or **▼** to immediately adjust the temperature when the schedule is running. This will temporarily hold the temperature setting until the next scheduled event.



PROGRAM SCHEDULE AND HOLDS

PROGRAM SCHEDULE HOLDS – TEMPORARY (CONTINUED)

Press ▲ or ▼ to adjust the end time of the hold. If end time is not adjusted, the Temporary Hold will end at the start of the next event.

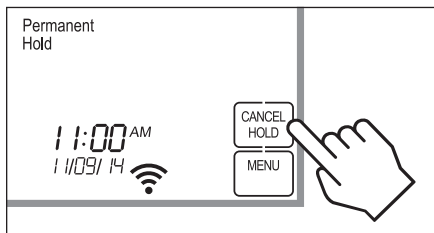


To cancel the Temporary Hold, press **[CANCEL HOLD]**.

PROGRAM SCHEDULE HOLDS – PERMANENT

PERMANENT PROGRAM HOLD

Press **[HOLD]** to permanently hold the temperature at its current setting while the schedule is running. This will override the temperature settings for all events. With the thermostat in Permanent Hold, the temperature setting and fan mode can be adjusted and will stay at that setting until the hold is cancelled.



To cancel the Permanent Hold, press **[CANCEL HOLD]**.

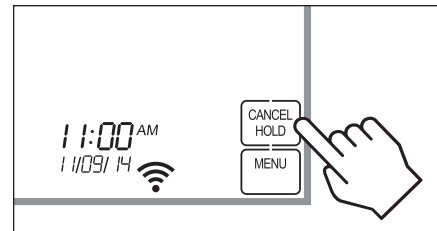
PROGRAM SCHEDULE AND HOLDS

PROGRAM SCHEDULE HOLDS – AWAY

AWAY

The Away feature, if enabled, allows the thermostat to be set to a predefined setpoint(s) by simply pressing the Away button in your home automation interface (if supported). 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 home automation interface (if supported).

To cancel Away at the thermostat press **[CANCEL HOLD]**.



PROGRAM SCHEDULE AND HOLDS

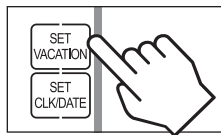
PROGRAM SCHEDULE HOLDS – VACATION

VACATION PROGRAM HOLD

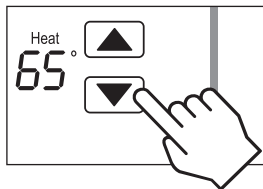
This energy saving feature allows you to suspend the programmed schedule for extended periods of time. The temperature and dehumidification setpoint (optional) you select will be maintained 24 hours a day until the vacation program hold end date and time. Once the end date and time have been surpassed, the previously programmed schedule will resume. If you return earlier than expected, **press [CANCEL HOLD]** to resume the programmed schedule.

Press [MENU] to enter the main menu.

Press [SET VACATION] to enter vacation program hold.

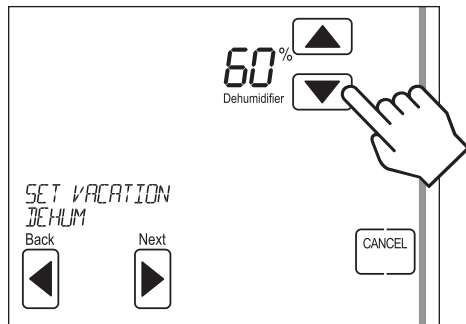


Press ▲ or ▼ to adjust the temperature setting.



Press [NEXT], then adjust the dehumidification setting.

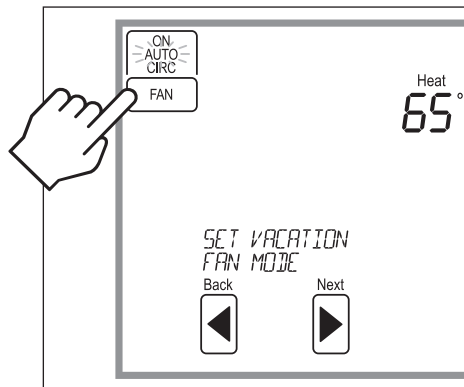
Note: If dehumidification in vacation mode is not enabled this step will be skipped.



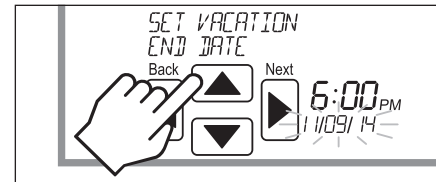
PROGRAM SCHEDULE AND HOLDS

PROGRAM SCHEDULE HOLDS – VACATION (CONTINUED)

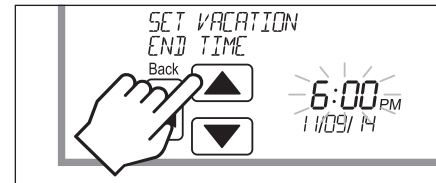
Press [Next], then **[FAN]** to set the fan mode.



Press [Next], then ▲ or ▼ to set end date.



Press [Next], then ▲ or ▼ to set end time.



Press [DONE] to save and exit, Or **[CANCEL]** to exit without saving. The thermostat will save and exit if nothing is pressed within 20 seconds.

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 user system settings as described in the Setup Menu section on pages 35-39. Change the setting for WiFi Disconnect and Clear Settings to Yes and then press **[DONE]**. This will remove all the previous Wi-Fi settings. Refer to Wi-Fi Setup on pages 6-7 for instructions on connecting the thermostat to your Wi-Fi Network.

REMOVING THE THERMOSTAT FROM A my.aprilaire.com ACCOUNT

The thermostat can only be registered to one web and mobile app 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 setup menu as described in the following section. Change the setting for Unregister the Thermostat to Yes and then press **[DONE]**. This will remove the thermostat from any account that it is currently registered to. Refer to **Wi-Fi Thermostat App User Guide** and then **Start Up** on my.aprilaire.com for instructions on registering the thermostat to a new my.aprilaire.com account.

WI-FI MAINTENANCE AND TROUBLESHOOTING






DISABLING THE WI-FI RADIO

To turn off the Wi-Fi radio on the thermostat, enter the setup menu as described in the Setup Menu section on pages 35-39. Change the setting for Turn Off WiFi Radio to Yes and then press **[DONE]**. This will turn off the Wi-Fi radio, but maintain all network settings. To turn the Wi-Fi radio back on simply enter the setup menu and change the setting for Turn Off WiFi Radio to No and then press **[DONE]**.

TROUBLESHOOTING WI-FI CONNECTION

The Wi-Fi connection status is communicated through the use of the radio strength indicator and the message center. The table on page 34 describes the various statuses and the corresponding message and radio bar display.

WI-FI MAINTENANCE AND TROUBLESHOOTING

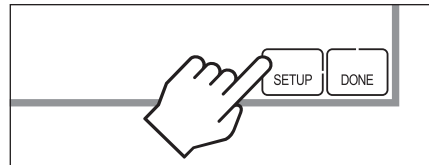
Wi-Fi connection status	Radio status indicator	Message Center
Normal Operation.	Wi-Fi signal strength is indicated by the appropriate number of bars. 	No corresponding message
The thermostat Wi-Fi settings have not been entered. Refer to Wi-Fi Setup on pages 6-7 for instructions for entering the Wi-Fi settings.	The frame is displayed and the bars cycle from 0 to 4. 	Displays the SSID of the thermostat. Note: The SSID will be used to identify the thermostat when using a smart device to connect the thermostat to your Wi-Fi router.
The thermostat cannot connect to the Wi-Fi router. Verify that the router is functioning properly.	The frame and all bars flash on and off. 	WiFi Connection Lost
Indicates the thermostat was not configured properly when connecting to the router. Confirm there is no IP conflict and repeat Wi-Fi setup. Note: If the thermostat is configured to work with an Aprilaire account this indicates that the thermostat cannot connect to the Aprilaire Cloud. Confirm that the internet connection is working.	The display will alternate between displaying the frame and all bars. 	Internet Connection Lost
There is an internal error with the thermostat Wi-Fi radio. The thermostat will continue to control the HVAC and indoor air quality control equipment, but will not be able to connect to Wi-Fi. Contact an HVAC professional for repair.	The frame will flash on and off. 	Radio Error
Wi-Fi radio turned off. Refer to the Setup Menu section for information about turning the Wi-Fi module on.	Not displayed.	WiFi Turned Off

SETUP MENU

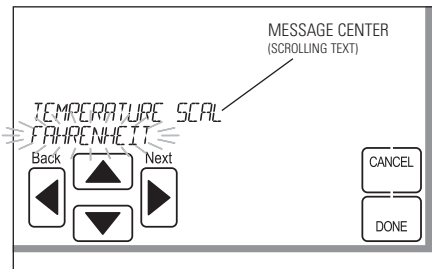
HOW TO ENTER THE SETUP MENU TO CHANGE SETTINGS

Press **[MENU]** to enter the main menu.

Press **[SETUP]** to enter the setup menu.



Press **[Next]** or **[Back]** to page through the settings (the setting is displayed in the message center).



Press **▲** or **▼** to adjust the setting. (Selected option flashes.)

Press **[DONE]** to save and exit, Or **[CANCEL]** to exit without saving.

The thermostat will discard changes and exit if nothing is pressed within 60 seconds.

SETUP MENU

USER SYSTEM SETTINGS TABLE

The following table is the list of the settings and their details. Default settings are shown in **bold**.

User system setting	Description	Factory default setting (bold) and setting range
Temperature Scale	Set the thermostat to Fahrenheit or Celsius mode.	Fahrenheit Celsius
Lockout Type	Sets the screen lockout level. Setting the Lockout Type to Full will prevent any changes from being made at the thermostat. Setting the Lockout Type to Partial allows individual functions to be locked out at the thermostat. Set this to None to disable the lockout feature. Note: The thermostat can be unlocked by holding the [MENU] button for 7 seconds.	None Partial Full
Mode Lockout	Prevents changes to the system mode from being made at the thermostat. Note: Only available when the Lockout Type is set to Partial.	Disable Enable
Fan Lockout	Prevents changes to the fan mode from being made at the thermostat. Note: Only available when the Lockout Type is set to Partial.	Disable Enable
Dehum Lockout	Prevents changes to the dehumidification setpoint from being made at the thermostat. Note: Only available when the Lockout Type is set to Partial and dehumidification installed.	Disable Enable

SETUP MENU

USER SYSTEM SETTINGS TABLE (CONTINUED)

User system setting	Description	Factory default setting (bold) and setting range
Setpoint Lockout	Prevents or limits changes to the heating and cooling setpoints at the thermostat. If set to Full no changes to the setpoints are allowed. If set to Range, changes to the setpoint are limited by the Max Temp Setpoint Change in Lockout. If set to Time and Range, changes to the setpoint are limited by the Max Temp Setpoint Change in Lockout, and the changes will last for the duration set by Setpoint Change Time Limit in Lockout. Note: Only available when the Lockout Type is set to Partial.	Disable Range Time and Range Full
Max Setpoint Change in Lockout	Sets the maximum change to the heat or cool setpoint that can be made at the thermostat. Note: Only available when Setpoint Lockout is set to Range or Time and Range.	3°F or 1.5°C 1°F to 20°F (0.5° to 10°C)
Setpoint Change Time Limit in Lockout	Sets the duration that changes to the setpoint that are made at the thermostat will last before reverting back to the original setpoint. Note: Only available when the thermostat is configured to work with home automation and Setpoint Lockout is set to Time and Range.	60 Minutes 15 to 480 Minutes
Menu Lockout	Prevent the Menu screen from being accessed at the thermostat. Note: Only available if no other lockouts are enabled. If another lockout is enabled the Menu screen is automatically locked out.	Disable Enable

SETUP MENU

USER SYSTEM SETTINGS TABLE (CONTINUED)

User system setting	Description	Factory default setting (bold) and setting range
Program Format	Enables the 7 day program.	7-Day Non-Prog
Reset Service Reminders	Clears the Change Air Filter, Fresh Air, Dehumidifier, and HVAC service reminders if they are active and resets the start date to the current date. Clears the Change Water Panel reminder if it is active. If the reminder is set to timed, the timer will be reset.	No Yes
Backlight Intensity	Set the active backlight intensity. Note: The minimum setting is 40% when Constant Backlight is enabled.	100 Percent 0 to 100 Percent
WiFi Disconnect and Clear Settings	Disconnects the thermostat from the router and clears the Wi-Fi settings. Use this to set the thermostat back to provisioning mode so it can be connected to a new Wi-Fi router.	No Yes
Turn Off WiFi Radio	Use to turn off the Wi-Fi radio. Wi-Fi settings will be maintained.	No Yes

SETUP MENU

USER SYSTEM SETTINGS TABLE (CONTINUED)

User system setting	Description	Factory default setting (bold) and setting range
Unregister the Thermostat	Unregisters the thermostat from an Aprilaire account. Use this when the thermostat needs to be registered to a new Aprilaire account. For instance, if you have purchased a home with the thermostat already installed, this setting would allow you to clear the previous registration so that you can register the thermostat to your account. Note: This option is only available if the thermostat is configured to be used with an Aprilaire account.	No Yes
Display Monitor Support Module Sensor	Selects if the temperature or humidity values from support modules that are configured for monitoring are displayed in the message center of the thermostat.	No Yes

THERMOSTAT FIVE YEAR LIMITED WARRANTY

Your Research Products Corporation Aprilaire® Thermostat is expressly warranted for five (5) years from date of installation to be free from defects in materials or workmanship.

Research Products Corporation's exclusive obligation under this warranty shall be to supply, without charge, a replacement for any thermostat which is found to be defective within such five (5) year period and which is returned, together with the date of installation, no later than thirty (30) days after said five (5) year period by you to either your original supplier or to Research Products Corporation, Madison, Wisconsin 53701.

THIS WARRANTY SHALL NOT OBLIGATE RESEARCH PRODUCTS CORPORATION FOR ANY LABOR COSTS AND SHALL NOT APPLY TO DEFECTS IN WORKMANSHIP OR MATERIALS FURNISHED BY YOUR INSTALLER AS CONTRASTED TO DEFECTS IN THE THERMOSTAT ITSELF.

IMPLIED WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE SHALL BE LIMITED IN DURATION TO THE AFORESAID FIVE YEAR PERIOD. RESEARCH PRODUCTS CORPORATION'S LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, OTHER THAN DAMAGES FOR PERSONAL INJURIES, RESULTING FROM ANY BREACH OF THE AFORESAID IMPLIED WARRANTIES OR THE ABOVE LIMITED WARRANTY IS EXPRESSLY EXCLUDED. THIS LIMITED WARRANTY IS VOID IF DEFECT(S) RESULT FROM FAILURE TO HAVE THIS THERMOSTAT INSTALLED BY A QUALIFIED HEATING AND AIR CONDITIONING CONTRACTOR. IF THE LIMITED WARRANTY IS VOID DUE TO FAILURE TO USE A QUALIFIED CONTRACTOR, 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 exclusions or limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

WARRANTY REGISTRATION

Visit us on-line at www.aprilaire.com to register your Aprilaire product. If you do not have on-line access, please mail a postcard with your name, address, phone number, product purchased and date of purchase to: Research Products Corporation, P.O. BOX 1467, Madison, WI 53701.

Your Warranty Registration information will not be sold or shared outside of this company.

FCC DECLARATION

Compliance Statement (Part 15.19)

This device complies with Part 15 of the FCC Rules. 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.

Warning (Part 15.21)

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.

FCC RF Radiation Exposure statement

To comply with FCC/IC 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 co-located or operating in conjunction with any other antenna or transmitter.

IC STATEMENT

RSS-GEN, Sec. 7.1.2

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

RSS-GEN, Sec. 7.1.3

Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.



P.O. Box 1467 • Madison, WI 53701-1467 • Phone: 800/334-6011 • Fax: 608/257-4357

www.aprilaire.com

61001111 8.15
B2206473A

U.S. Patent Numbers 8,146,376, 8,596,078 and other patents pending.
© 2015 Aprilaire – A division of Research Products Corporation