READ AND SAVE THESE INSTRUCTIONS

Owner’s Manual

Includes Operating Instructions and Warranty Information

MODEL 8476 THERMOSTAT WITH EVENT-BASED™ AIR CLEANING
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ABOUT YOUR NEw THERMOSTAT

THERMOSTAT FEATURES
• Event-Based™ Air Cleaning.
• Large, clear, backlit display is easy to read — even in the dark.
• Displays room temperature, temperature setting, and optional outdoor temperature.
• Front battery door access for fast, easy replacement.
• Built in compressor protection.
• Air filter and humidifier service indicators.
• Auto backlight (activated with first button press).
• Separately programmable weekday/weekend schedules.
• Easy to use temperature control can override program schedule at any time.
• Progressive recovery.
ABOUT YOUR NEW THERMOSTAT

OPERATION & PROGRAMMING

SELECT SYSTEM MODE
(OFF/HEAT/EM-HEAT/COOl/AUTO)

CHANGE TEMPERATURE SETTING

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About your new thermostat

Note: backlight is activated with first button press and automatically turns off.

CURRENT INDOOR TEMPERATURE
SYSTEM MODE
CLEAN AIR SETTING
SYSTEM MODE
CLEAN AIR
PROGRAM
BATTERY DOOR
CURRENT SCHEDULE PERIOD
MESSAGE CENTER
LOW BATTERY WARNING

Includes event-based™ air cleaning

INDOOR TEMPERATURE
OUTDOOR TEMPERATURE (OPTIONAL)

CURRENT TIME
TEMPERATURE SETTING
EQUIPMENT STATUS

UP
DOWN
HOLD

HEAT PUMP ONLY
EQUIPMENT STATUS
EMERGENCY HEAT (RED)
SYSTEM FAULT (YELLOW)

INDICATOR SHOWS THROUGH HOUSING

Quick reference card

System mode:

Press to select:

AUTO: Thermostat automatically selects heating or cooling depending on the indoor temperature.
OFF: Heating and cooling systems are off.
HEAT: Thermostat controls only the heating system.
COOl: Thermostat controls only the cooling system.
EM-HEAT: Thermostat controls emergency/auxiliary heat. Heat pump will not operate. (Only for heat pumps with auxiliary heat.)

Press or to adjust the current setting. In AUTO use to switch between the HEAT and COOL setting.
**SELECT EVENT-BASED™ AIR CLEANING SETTING**

**CIRC-30/HR:** 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-3HR:** When selected, the air cleaner will run continuously and then return to the most recent mode of AUTO, CIRC-30/HR, or ON-24/7. Use this option when the air needs cleaning; an example would be after vacuuming.

**ALLERGY-24HR:** When seasonal allergies spike and outside air quality is at its worst, choose this option. Your air cleaner will run continuously for 24 hours and then return to the most recent mode of AUTO, CIRC-30/HR, or ON-24/7.

Press 📷 to select:

**ON-24/7:** 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.

**AUTO:** Air cleaning will not occur for the sole purpose of air cleaning, but will occur during fan operation for heating and cooling.

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**OPERATION & PROGRAMMING**

**RESET SERVICE REMINDER MESSAGES**

Press and hold ⬆️ and ⬇️ together for three seconds to reset a service reminder message.

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**BATTERY INSTALLATION AND RESET BUTTON**

The thermostat can either be AC or battery powered, or both. When wired to be AC powered, the batteries are optional and only provide backup power to the clock. The thermostat has a memory backup that saves the thermostat’s settings in case of a power interruption. The reset button located under the battery cover can be used to reset the thermostat back to factory defaults.
**OPERATION & PROGRAMMING**

**SET TIME AND DAY**

1. Press [MODE] to enter time setting mode. Hour and AM/PM are flashing.

![Image of thermostat with time set to 12:00]  

2. Press [ or ] to adjust the hour.
3. Press [MODE], the minutes flash. Press [ or ] to adjust the minutes.
4. Press [MODE], the day flashes. Press [ or ] to adjust day.
5. Press [MODE] to end. “DONE” will display.

The thermostat will return to normal mode if no key is pressed within 3 seconds.

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**UNDERSTANDING PROGRAM SCHEDULES**

The daily schedule is split into four sections:

**WAKE**: 6am-8am – Temperature you would prefer to wake up to, until you leave for the day.

**LEAVE**: 8am-5pm – Temperature when you are away from the house during the day.

**RETURN**: 5pm-10pm – Temperature you would prefer to return to, until bedtime.

**SLEEP**: 10pm-6am – Temperature you would prefer during the night.

The times shown are the defaults. The start time and temperature of each section can be changed to fit your schedule (see page 10).

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**OPERATION & PROGRAMMING**

**UNDERSTANDING PROGRAM SCHEDULES (CONTINUED)**

**PROGRESSIVE RECOVERY**

The Progressive Recovery feature allows the thermostat to activate the heating and cooling equipment prior to an event in order to reach the desired temperature at the start of the next scheduled event.

Example:
Set the Wake time to 6 am, and the temperature to 70°. The heat will come on before 6 am, so the temperature is 70° by the time you wake at 6.

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<table>
<thead>
<tr>
<th>Event</th>
<th>Event designator</th>
<th>Start time</th>
<th>Heat Set temps</th>
<th>Cool Set temps</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>WAKE</td>
<td>6:00AM</td>
<td>70°F (21°C)</td>
<td>78°F (26°C)</td>
</tr>
<tr>
<td>2</td>
<td>LEAVE</td>
<td>8:00AM</td>
<td>62°F (17°C)</td>
<td>85°F (29°C)</td>
</tr>
<tr>
<td>3</td>
<td>RETURN</td>
<td>5:00PM</td>
<td>70°F (21°C)</td>
<td>78°F (26°C)</td>
</tr>
<tr>
<td>4</td>
<td>SLEEP</td>
<td>10:00PM</td>
<td>62°F (17°C)</td>
<td>82°F (28°C)</td>
</tr>
</tbody>
</table>
1. Press twice to enter program setting mode. Start time of the WAKE event is flashing.

2. Press or to adjust the start time.

3. Press , HEAT setting flashes. Press or to adjust the heat setting.

4. Press . COOL setting flashes. Press or to adjust the cool setting.

5. Press to advance the next event, and repeat steps 2-5 for LEAVE, RETURN and SLEEP events.

6. Press to change to weekend program. Repeat steps 2-5 for the weekend program.

7. Press to end. “DONE” will display. The thermostat will return to normal mode if no button is pressed in 3 seconds.

Temporary program override

Press or to immediately adjust the temperature. This will temporarily override the temperature setting for the current programmed time period. The new temperature setting will be maintained until the next time period of the programmed schedule.

To cancel the temporary override, adjust the temperature setting back to the programmed temperature, or press twice.

Permanent program override

Press to permanently hold the temperature at its current setting. This will override the temperature settings for all time periods of the programmed schedule. With the thermostat in permanent override, the thermostat temperature can be manually adjusted and will stay at that setting until the override is cancelled.

To cancel the permanent override press .
ELECTRONIC THERMOSTAT FIVE YEAR LIMITED WARRANTY

Your Research Products Corporation Aprilaire® Thermostat unit 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.

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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.

This equipment if installed in strict accordance with the manufacturer's instructions, complies with the limits for a Class B computing device pursuant to Subpart J of Part 15 of FCC Rules.

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.

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