Braeburn.

Detailed User Manual

PREMIER SERIES

Non-Programmable Thermostats

3020 For 1 Heat / 1 Cool Systems

3220 For Systems Up to 3 Heat / 2 Cool

Read all instructions before proceeding.

Store this manual for future reference

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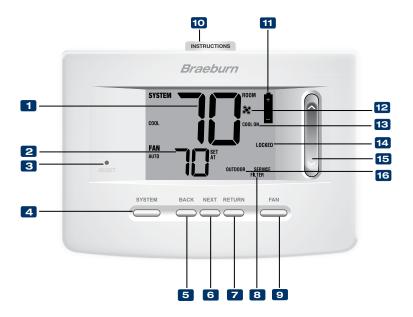
Congratulations! You are in control of one of the easiest-to-use thermostats on the market today. This thermostat has been designed to provide you with years of reliable performance and comfort control.

Features

- SpeedBar® Multi-Function Button simplifies programming and setting changes.
- Large 4 sq. in. bright blue backlit display is easy to read.
- Extra large display characters make viewing settings even easier.
- User selectable service monitors remind you of required system maintenance.
- · Precise temperature accuracy keeps you in control of your comfort.
- Optional indoor or outdoor remote sensing.

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1 About Your Thermostat



Thermostat and Display

1	Room Temperature	Displays the current room temperature
2	3 Set Temperature	Displays the current set point temperature
3	Reset Button	Resets current time, program and user settings
4	SYSTEM Button	Selects the system you want to control
5	BACK Button	Moves back in installer/user setup modes
6	NEXT Button	Moves forward in installer/user setup modes
7	RETURN Button	Returns to normal mode from installer/user setup modes
8	Service Indicators	Displays various service/maintenance information
9	FAN Button	Selects the system fan mode
10	Quick Reference Instructions	Stored in slot located at top of thermostat
11	Low Battery Indicator	Indicates when the batteries need to be replaced
12	Fan Indicator	Indicates when the system fan is running
13	System Status Indicator	Displays information about the status of the system
14	Lock Mode Indicator	Indicates if the thermostat is locked
15	SpeedBar®	Increases or decreases settings (time, temperature, etc.)
16	Outdoor Temperature Indicator.	Displays along with the outdoor temperature reading (see note below)
	Battery Compartment	Located in the back of thermostat

NOTE: If a Braeburn® outdoor sensor was connected you can view the outdoor temperature by pressing the **BACK** and **NEXT** buttons at the same time.

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2 Setting User Options

Advanced User Options

User options allow you to customize some of your thermostat's features. The default user options are compatible with most applications, therefore it is not required that you adjust them.

To access the User Options menu, press and hold the **RETURN** button for approximately 3 seconds until the screen changes and displays the first User Option.

Press the SpeedBar® up or down to change the setting for the displayed User Option. After you have changed your desired setting, press **NEXT** to advance to the next User Option. You may also press **BACK** to move backwards through the User Options.



When your changes are complete, press **RETURN** to exit.

Table of User Options

NOTE: A detailed description of each User Option follows this table.

No.	User Options	Factory Default	Setting Options	Comments	Pg.
1	Filter Service Monitor	OFF	OFF 30, 60, 90, 120, 180, 365	Disables filter service monitor feature. Selects a number of days that must pass before the thermostat will flash a Service Filter reminder in the display screen.	8
2	UV Light Service Monitor	OFF	OFF 180, 365	Disables filter service monitor feature. Selects a number of days before the thermostat will flash a Service UV reminder in the display screen.	8
3	Humidifier Pad Service Monitor	OFF	OFF 180, 365	Disables filter service monitor feature. Selects a number of days before the thermostat will flash a Service Humid reminder in the display screen.	8
4	Set Point Adjustment Limit*	O RDJ	0, 1, 2, or 3 RDJ -0	Selects a temperature adjustment limit of 0 (disabled), 1°, 2° or 3°.	8
5	Thermostat Lock Code	000	0-9	Select a 3 digit lock code of 0-9 for each digit.	9

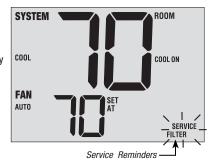
^{*} For this option to be available, thermostat must be set to security level 1 (See Installer Manual).

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Service Monitors (Filter, UV and Humidifier Pad)

User Options 1, 2 and 3

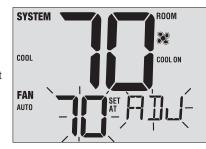
There are three user selectable service monitors that will display reminders for a required air filter, UV bulb or humidifier pad replacement. The SERVICE segment flashes in the display along with FILTER, UV or HUMID. When the service interval has been reached, and required cleaning or replacement has been performed, press the **RETURN** button to reset the timer. Select OFF or a set number of days before the reminder will appear.



Set Point Adjustment Limit

User Option 4

The Set Point Adjustment Limit will limit how much the temperature can be adjusted from the current set point when the thermostat is locked with security level 1 (See Installer Manual). This setting will not allow the user to override the temperature past the selected limit amount of 1, 2 or 3 degrees from the current set point. When the user reaches the adjustment limit the screen will flash ADJ. A setting of 0 disables the adjustment limit.



Thermostat Lock Code

User Option 5

The Thermostat Lock Code sets a 3-digit code that you may use at any time to lock or unlock the thermostat. Setting the code in the user options mode does not activate the lock feature (See Locking/Unlocking Thermostat, page 15). You may choose a 3-digit code with each digit being 0-9.

3 Operating Your Thermostat

Setting the SYSTEM Control Mode

The System Control has 5 modes of operation – AUTO, COOL, OFF, HEAT and EMER. The mode can be selected by pressing the **SYSTEM** button to scroll through the different modes.

NOTE: Depending on how your thermostat was configured, some system modes may not be available.

AUTO The system will cycle between heating and cooling automatically based on your program set points.

AUTO will be displayed with either HEAT or COOL.

COOL Only your cooling system will operate.

OFF Heating and cooling systems are off.

HEAT Only your heating system will operate

EMER Operates a backup heat source (Emergency Heat) for heat pump systems only (Model 3220 only).



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Setting the FAN Control Mode

The Fan Control has 2 modes of operation – AUTO and ON. The mode can be selected by pressing the **FAN** button to scroll through the different modes.

NOTE: Depending on how your thermostat was configured, some fan modes may not be available.

AUTO The system fan will run only when your heating or cooling system is running.

ON The system fan will run continually.



Setting the Temperature

Temperature Adjustment – Press the SpeedBar® up or down to adjust the current set temperature.

Status Indicators

Status indicators appear in the display to let you know if your system is heating, cooling or off.

HEAT ON Indicates that your heating system is running.

COOL ON Indicates that your cooling system is running.

AUX Indicates that the auxiliary stage of heating is running (Model 3220 - multi-stage systems only).

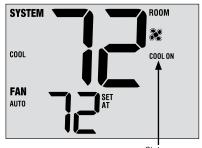
EMER Indicates that the emergency heating system is running (Model 3220 - heat pump systems only).

CHECK Indicates that there is a potential problem with your system. Contact a local service technician.

(Model 3220 only)

SERVICE Indicates a user selectable service reminder for changing a filter, UV air purifier bulb or humidifier pad (*See Service Monitors, page 8*).





Status Indicator

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Resetting the Thermostat

This thermostat provides you with a reset button that will erase all of your user settings. The reset feature does not affect the Installer Settings.

To reset the thermostat, use a small object such as a tooth pick or paperclip and gently press the button located inside the small hole on the front of the thermostat housing labeled "reset".

NOTE: You cannot reset the thermostat if it is locked.

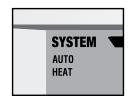


4 Additional Operation Features

Auto Changeover Mode

Auto Changeover mode is a feature enabled/disabled in the Installer Settings (see Installer Manual). If enabled, it is selected by pressing the SYSTEM button until AUTO HEAT or AUTO COOL appears in the display.

When Auto Changeover mode is enabled and selected, the system automatically switches between heating and cooling when the room temperature meets the programmed heating or cooling set points. To operate properly, the thermostat requires a "dead band" setting to eliminate program conflicts. The dead band is set in the Installer Settings (*See Installer Manual*). The default setting is 3° F. Therefore,



you will not be able to set your heat or cool temperature within 3° F of each other. If a setting is made in either heating or cooling which violates the dead band, the opposite mode will adjust up or down automatically to maintain the programmed dead band spacing.

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Compressor Protection

Compressor protection is enabled/disabled in the Installer Settings (See Installer Manual). If enabled, this feature is automatically present in cooling and/or heating (heat pump only) modes.

This thermostat includes an automatic compressor protection delay to avoid potential damage to your system from short cycling. This feature activates a short delay after turning off the system compressor.

Additionally, for multi-stage heat pump systems, this thermostat provides cold weather compressor protection by locking out the compressor stage(s) of heating for a period of time after a power outage greater than 60 minutes. This compressor lockout can be manually overridden at any time by changing the system mode to OFF momentarily, then back to HEAT.

Locking and Unlocking the Thermostat

Your 3-digit Lock Code is set in the "User Options" portion of this manual (See "Setting User Options", page 7 and 9). Once the code is set, the thermostat can be locked or unlocked at any time by entering that code.

To lock or unlock the thermostat, press and hold the **NEXT** and **RETURN** buttons together for 5 seconds (Figure 1).

The screen will change, displaying 000 and LOCK will be flashing (Figure 2). Press the SpeedBar® up or down to enter the first digit of your lock code and then press **NEXT** to advance to the next digit. Repeat this process to enter the second and third digit of your lock code. After entering the third digit, press **RETURN**.

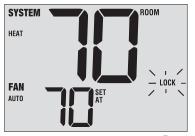


Figure 1

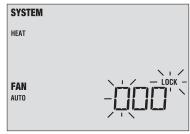


Figure 2

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Locking and Unlocking the Thermostat (cont.)

If you entered a valid code the thermostat will be locked or unlocked (depending on its previous state). When locked, the word LOCKED appears in the display (Figure 3). If an invalid code is entered the word NO will briefly appear, indicating that an incorrect code was entered (Figure 4).

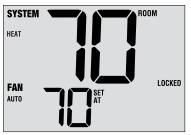


Figure 3

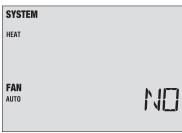
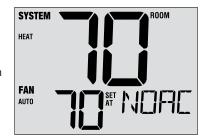


Figure 4

AC Power Monitor

The AC Power Monitor feature is enabled in the Installer Settings (See Installer Manual). If enabled, this feature will automatically be present.

If your thermostat was hardwired (power provided from the system with batteries as a backup) then the AC Power Monitor feature will indicate when a loss of power to the thermostat has occurred by displaying NOAC.



Indoor Remote Sensing

Indoor remote sensing is achieved by installing a Braeburn® remote indoor sensor and is configured in the Installer Settings (See Installer Manual).

If a Braeburn indoor remote sensor was installed and properly configured in the Installer Settings, the thermostat will sense temperature at a remote location or at a combination of a remote location and the thermostat location.

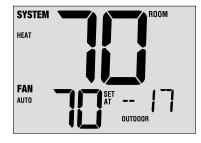
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Outdoor Remote Sensing

Outdoor remote sensing is enabled by installing a Braeburn® remote outdoor sensor. No additional configuration is required.

If a Braeburn outdoor remote sensor was installed you may press the **BACK** and **NEXT** buttons at the same time to view the outdoor temperature.





5 Thermostat Maintenance

Thermostat Cleaning

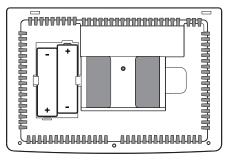
Never spray any liquid directly on the thermostat. Using a soft damp cloth wipe the outer body of the thermostat. Never use any abrasive cleansers to clean your thermostat.

Changing the Batteries

This thermostat requires two (2) properly installed "AA" alkaline batteries to provide power for the thermostat if 24 volt AC power is not connected. (See Installer Manual).

If batteries become low, a battery indicator will appear in the display. You should change your batteries immediately when you see the low battery signal by following these instructions.

- 1. Remove thermostat body by gently pulling it from base.
- 2. Remove old batteries and replace with new batteries.
- 3. Make sure to correctly position the (+) and (-) symbols.
- 4. Gently push thermostat body back onto base.



NOTE: We recommend replacing the thermostat batteries annually or if the thermostat will be unattended for an extended period of time.

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Limited Warranty

When installed by a professional contractor, this product is backed by a 5 year limited warranty. Limitations apply. For limitations, terms and conditions, you may obtain a full copy of this warranty:

· Visit us online: www.braeburnonline.com/warranty

· Phone us: 866.268.5599

· Write us: Braeburn Systems LLC

2215 Cornell Avenue Montgomery, IL 60538



Store this manual for future reference.

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Braeburn Systems LLC 2215 Cornell Avenue • Montgomery, IL 60538 Technical Assistance: www.braeburnonline.com Call us toll-free: 866-268-5599 (U.S.) 630-844-1968 (Outside the U.S.)