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› Braeburn 7500 Universal Wireless Programmable Thermostat User Manual

Braeburn 7500-C

Braeburn 7500 Universal Wireless Programmable Thermostat User Manual

Model: 7500-C | Brand: Braeburn

INTRODUCTION

The Braeburn 7500 Universal Wireless Programmable Thermostat Kit provides advanced control over your home's heating and cooling system. This kit includes the thermostat, a control module, a supply air sensor, and a cleaning cloth, offering a comprehensive solution for temperature management. It supports 7-day, 5-2 day, or non-programmable settings, making it versatile for various residential and commercial applications.

This manual provides detailed instructions for installation, operation, and maintenance of your Braeburn 7500 thermostat system.

KEY FEATURES

- **Programmable Options:** Choose between 7-day, 5-2 day, or non-programmable modes.
- **Large Backlit Display:** A 5 square inch backlit display ensures easy readability.
- **Auto or Manual Changeover:** Seamlessly switch between heating and cooling modes.
- **Wireless Connectivity:** Superior wireless range for flexible placement and optional sensor integration.
- **Battery Operated:** Offers installation flexibility, with an included return air sensor for default temperature control even if batteries drain.
- **System Compatibility:** Compatible with conventional and heat pump systems up to 3H/2C, and 2 or 3 wire hydronic zone systems.
- **Adjustable Temperature Limits:** Set minimum and maximum temperature boundaries.
- **Multi-Level Keypad Lockout:** Enhance security and prevent unauthorized changes.
- **Expandable Sensing:** Connect up to 4 optional wireless indoor sensors, and optional wireless outdoor or humidity plenum sensors.

COMPONENTS INCLUDED

Your Braeburn 7500 Universal Wireless Thermostat Kit includes the following components:

- Braeburn 7500 Thermostat

- Braeburn BlueLink Control Module
- Supply Air Sensor
- Cleaning Cloth



Image: The complete Braeburn 7500 Universal Wireless Thermostat Kit, showing the thermostat, BlueLink control module, supply air sensor, and a cleaning cloth.

SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance of your Braeburn 7500 thermostat. It is recommended that installation be performed by a qualified HVAC technician.

1. Mounting the Thermostat

The thermostat can be wall-mounted in a central location, away from direct sunlight, drafts, or heat sources that could affect temperature readings.

FULLY MOUNTABLE



Image: The Braeburn 7500 thermostat mounted on a wall, demonstrating its compact and discreet design.

2. Wiring the Control Module

The Control Module acts as the central communication hub for the wireless system. Connect the module to your HVAC system wiring according to the wiring diagram provided in the full installation guide (not included in this manual). Ensure all power to the HVAC system is turned off before beginning any wiring.



Image: The Braeburn BlueLink Control Module, which facilitates wireless communication between the thermostat and the HVAC system.

3. Installing the Supply Air Sensor

The supply air sensor is used for specific system configurations. Install it in the supply air ductwork as per the detailed instructions in the complete installation guide.



Image: The supply air sensor, a component used for monitoring air temperature within the HVAC system.

4. Powering the Thermostat

The thermostat can be powered by batteries for total installation flexibility. It also has R and C terminals for optional 24-volt operation if a common wire is available.

5. Pairing the Thermostat and Control Module

Follow the instructions in the quick reference card or full manual to pair the thermostat with the control module. This typically involves a simple pairing sequence to establish wireless communication.

OPERATION

The Braeburn 7500 thermostat features an intuitive interface with a large backlit display and clearly labeled buttons.

Thermostat Controls Overview

Braeburn 7500



Image: A detailed view of the Braeburn 7500 thermostat, highlighting the function of each button: Reset, System, PROG, HOLD, RETURN, DAY/TIME, Arrow Buttons, and Fan.

- **SYSTEM Button:** Toggles between system modes (OFF, HEAT, COOL, AUTO).
- **DAY/TIME Button:** Used to set the current day and time.
- **PROG Button:** Accesses programming settings for scheduled temperature changes.
- **HOLD Button:** Maintains the current temperature setting indefinitely, overriding the program.
- **RETURN Button:** Used to exit menus or return to the previous screen.
- **Arrow Buttons (Up/Down):** Adjusts temperature settings, navigates menus, or changes values.
- **FAN Button:** Controls fan operation (AUTO, ON).
- **Reset Button (Front Access):** A small button typically located on the front for resetting the thermostat.

Setting the Temperature

Use the **Up** and **Down** arrow buttons to adjust the desired temperature. The large backlit display will show the current room temperature and the set temperature.



Image: A user interacting with the Braeburn 7500 thermostat, demonstrating the ease of adjusting settings on its large, clear display.

Programming Schedules

To set a programmable schedule (7-day or 5-2 day), press the **PROG** button and follow the on-screen prompts. You can set up to four time slots per day with unique temperature settings (Morning, Day, Evening, Night).

Using the HOLD Function

Press the **HOLD** button to temporarily or permanently override the programmed schedule. The thermostat will maintain the current set temperature until the HOLD function is cancelled or a new program is initiated.

MAINTENANCE

Regular maintenance ensures the longevity and accuracy of your Braeburn 7500 thermostat.

Battery Replacement

If your thermostat is battery-powered, replace the batteries annually or when the low battery indicator appears on the display. Use fresh AA alkaline batteries. Even if batteries are drained, the included return air sensor provides default temperature control.

Cleaning

Wipe the thermostat's display and casing with a soft, damp cloth. Avoid using abrasive cleaners or solvents. The included cleaning cloth can be used for this purpose.

TROUBLESHOOTING

If you encounter issues with your Braeburn 7500 thermostat, refer to the following common troubleshooting steps:

- **No Display/Power:** Check batteries and ensure they are correctly inserted. If wired, verify the 24-volt power supply and C-wire connection.
- **"COMM LOST" Error:** This indicates a loss of communication between the thermostat and the control module.
 - Ensure the control module has power.
 - Verify the distance between the thermostat and module is within range.
 - Attempt to re-pair the thermostat with the control module as per installation instructions.
 - Check for potential wireless interference from other devices.
- **Incorrect Temperature Readings:** Ensure the thermostat is not exposed to direct sunlight, drafts, or heat sources. Verify the supply air sensor is correctly installed if used.
- **System Not Responding:** Check system mode (HEAT/COOL/OFF). Ensure the fan setting is appropriate. Verify wiring connections at the control module and HVAC system.
- **Programming Issues:** Review the programming steps in the operation section or the full manual. Ensure the correct day and time are set.

For persistent issues, consult a qualified HVAC technician or contact Braeburn customer support.

SPECIFICATIONS

Feature	Detail
Model Name	Braeburn 7500 Universal Wireless Kit
Model Number	7500-C
Brand	Braeburn
Controller Type	Push Button
Special Features	Temperature Display, Programmable
Color	White
Specific Uses	Heat Pump
Temperature Control Type	Programmable, Manual/Automatic
Connectivity Technology	Wi-Fi (for BlueLink module communication)
Included Components	Braeburn 7500 Thermostat, Supply Air Sensor, Control Module, Cloth
Power Source	Battery Powered (optional 24 Volts)
Voltage	24 Volts (optional)
Display Type	LCD
Screen Size	5 Sq. In.
Mounting Type	Wall Mount
Product Dimensions	7 x 6 x 4 inches

Feature	Detail
Item Weight	1.96 pounds

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your product or visit the official Braeburn website. Keep your purchase receipt for warranty claims.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question