

Beca BHT-8000GCLW

Beca BHT-8000GCLW WiFi Smart Thermostat User Manual

Model: **BHT-8000GCLW** | Brand: **Beca**

1. INTRODUCTION

The Beca BHT-8000GCLW is an advanced WiFi-enabled smart thermostat designed for controlling gas boiler heating systems. This thermostat allows you to manage your home's temperature efficiently through its intuitive 4.8-inch color LCD touchscreen, a dedicated mobile application, or voice commands via smart home assistants. Its sleek, modern design and slim profile integrate seamlessly into any living space.

Key Features:

- **WiFi Control:** Remote management via the SmartLife app on Android and iOS devices.
- **Programmability:** Supports 5+2 period programming for optimized comfort and energy savings.
- **High Accuracy:** Maintains temperature within ± 0.5 °C or ± 1 °F of the set point.
- **Large Color LCD:** Intuitive 4.8-inch display for clear information visibility.
- **Smart Home Integration:** Certified for Amazon Alexa, Google Home, and IFTTT.
- **Weather Synchronization:** Supports local weather synchronization for enhanced control.



Image 1.1: Beca BHT-8000GCLW Thermostat and its mobile application interface.

2. SAFETY INFORMATION

Please read this manual carefully before installation and operation. Failure to follow instructions could result in product damage or hazardous conditions. All wiring must be performed by a qualified electrician and comply with local electrical codes.

- Always disconnect power at the circuit breaker before installing or servicing the thermostat.
- Do not install the thermostat in areas with excessive vibration, direct sunlight, or drafts.
- Ensure the power supply voltage matches the thermostat's requirements (95 ~ 240 V AC).
- This device is designed for gas boiler control systems. Do not use it for other applications unless specified.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Beca BHT-8000GCLW Smart Thermostat
- Mounting hardware (screws)
- Wiring (if included by manufacturer, otherwise user-supplied)
- User Manual (this document)

4. PRODUCT OVERVIEW

The BHT-8000GCLW features a large, clear display and intuitive touch controls for easy operation. Its design emphasizes both functionality and aesthetics.



Image 4.1: Display features of the Beca BHT-8000GCLW Thermostat.

4.1. Display Elements and Buttons

Familiarize yourself with the various indicators and capacitive touch buttons on the thermostat's screen:

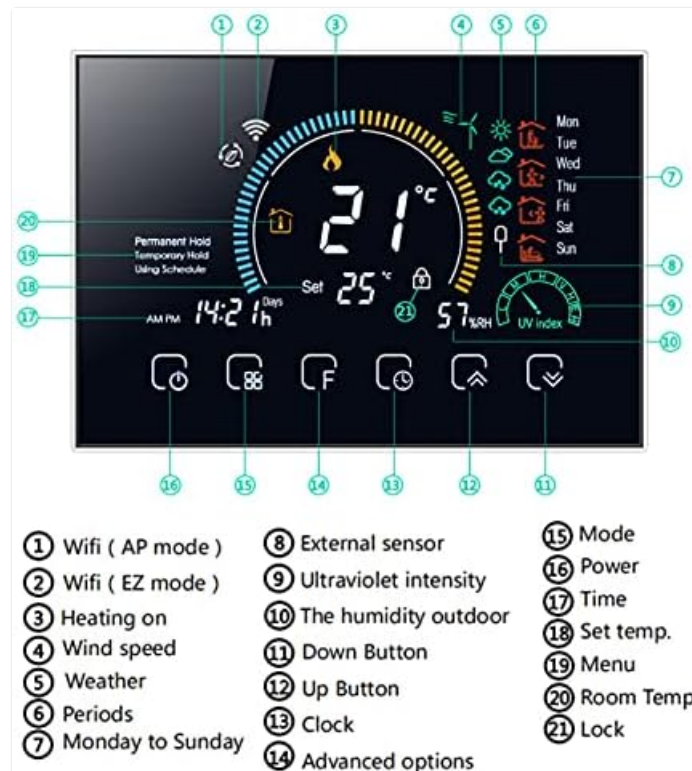


Image 4.2: Labeled display elements of the Beca BHT-8000GCLW Thermostat.

1. **WiFi (AP mode):** Access Point mode indicator for Wi-Fi setup.
2. **WiFi (EZ mode):** Easy mode indicator for Wi-Fi setup.
3. **Heating On:** Indicates when the heating system is active.
4. **Wind Speed:** (May indicate fan speed or external weather data).
5. **Weather:** Current weather condition icon.

6. **Periods:** Indicates the current programming period.
7. **Monday to Sunday:** Day of the week indicator.
8. **External Sensor:** Indicates if an external temperature sensor is connected/active.
9. **Ultraviolet Intensity:** UV index display.
10. **The Humidity Outdoor:** Outdoor humidity display.
11. **Down Button:** Decreases temperature or navigates menu options.
12. **Up Button:** Increases temperature or navigates menu options.
13. **Clock:** Displays current time.
14. **Advanced Options:** Accesses advanced settings menu.
15. **Mode:** Switches between manual, programmable, or auto modes.
16. **Power:** Power On/Off button.
17. **Time:** Current time display.
18. **Set Temp.:** Desired temperature setting.
19. **Menu:** Accesses the main menu.
20. **Room Temp.:** Current room temperature.
21. **Lock:** Child lock or keypad lock indicator.

5. INSTALLATION

Professional installation is highly recommended to ensure correct wiring and safe operation.

5.1. Mounting

The thermostat is designed for installation in standard electrical wall boxes. It is compatible with 86 x 86 mm square boxes or 60 mm European round boxes.

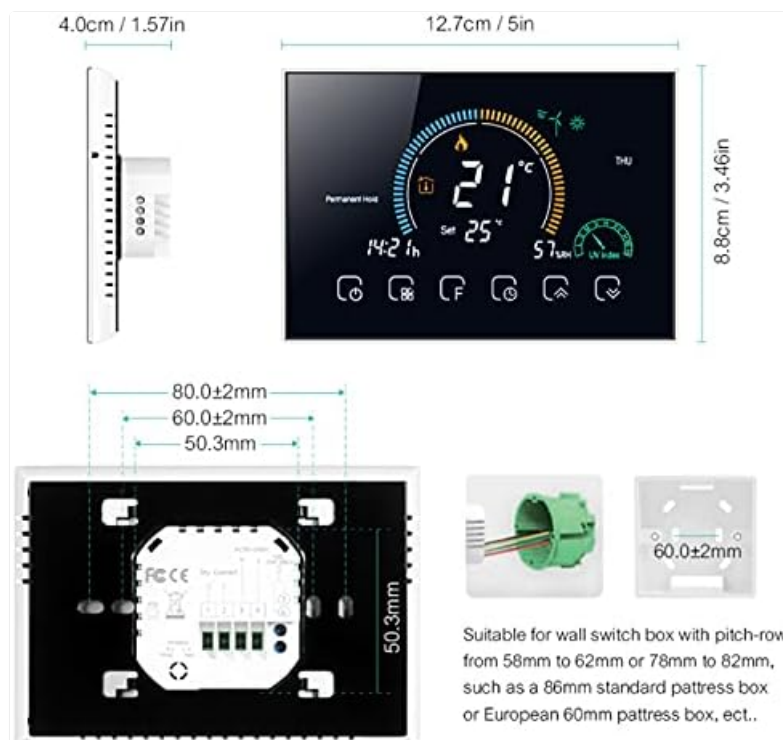


Image 5.1: Thermostat dimensions and compatible installation box types.

5.2. Wiring

WARNING: Disconnect power at the circuit breaker before wiring.

1. Carefully remove the front panel of the thermostat to access the wiring terminals.
2. Connect the power supply wires (Live and Neutral) to the designated terminals. The thermostat requires 95 ~ 240 V AC, 50 ~ 60 Hz.
3. Connect the gas boiler control wires (dry contact) to the appropriate terminals. Refer to your boiler's manual for specific wiring requirements.
4. Ensure all wire connections are secure. The terminals are suitable for 2 x 1.5 mm² wires or 1 x 2.5 mm² wire.
5. Mount the thermostat backplate to the wall box using the provided screws.
6. Reattach the front panel to the backplate.

6. SETUP

6.1. Initial Power-On

After installation and wiring are complete, restore power at the circuit breaker. The thermostat display should light up, indicating it is powered on.

6.2. Wi-Fi Connection (SmartLife App)

To enable remote control and smart features, connect your thermostat to your home Wi-Fi network using the SmartLife app.

1. Download the **SmartLife** app from the App Store (iOS) or Google Play Store (Android).
2. Register or log in to your SmartLife account.
3. On the thermostat, press and hold the Wi-Fi button (refer to Image 4.2, item 1 or 2) until the Wi-Fi icon starts blinking rapidly (EZ mode) or slowly (AP mode).
4. In the SmartLife app, tap '+' to add a device, then select 'Small Home Appliances' > 'Thermostat'.
5. Follow the on-screen instructions in the app to connect the thermostat to your 2.4GHz Wi-Fi network.
6. Once connected, the Wi-Fi icon on the thermostat will become solid.

6.3. Smart Home Integration (Alexa, Google Home)

After connecting to the SmartLife app, you can integrate your thermostat with Amazon Alexa or Google Home for voice control.

1. Open the Amazon Alexa app or Google Home app.
2. Navigate to 'Skills & Games' (Alexa) or 'Works with Google' (Google Home).
3. Search for and enable the 'SmartLife' skill/service.
4. Link your SmartLife account when prompted.
5. Discover devices. Your Beca thermostat should now appear and be controllable via voice commands.

7. OPERATING INSTRUCTIONS

The BHT-8000GCLW offers multiple ways to control your heating system.

7.1. Manual Temperature Control

In manual mode, you can set a desired temperature that the thermostat will maintain until changed.

- Press the 'Mode' button (Image 4.2, item 15) to switch to manual mode (usually indicated by a hand icon or 'M').
- Use the 'Up' (Image 4.2, item 12) and 'Down' (Image 4.2, item 11) buttons to adjust the target temperature.
- The thermostat will activate the boiler to reach and maintain this temperature.

7.2. Programmable Mode (5+2 Periods)

The 5+2 programmable mode allows you to set different temperature schedules for weekdays (5 days) and weekends (2 days), with multiple periods per day.

- Press the 'Mode' button to select programmable mode (often indicated by a clock or calendar icon).
- Access the programming menu (usually via the 'Menu' or 'Advanced Options' button).
- Set desired temperatures and times for each period (e.g., morning, day, evening, night) for weekdays and weekends.
- Save your settings. The thermostat will now automatically follow this schedule.

7.3. App Control

The SmartLife app provides comprehensive control over your thermostat from anywhere.

- Open the SmartLife app on your smartphone.
- Select your Beca thermostat from the device list.
- You can view current temperature, adjust set points, change modes, modify schedules, and access advanced settings.

7.4. Voice Control

Use voice commands with Amazon Alexa or Google Home for hands-free temperature adjustments.

- **Alexa:** "Alexa, set the thermostat to 22 degrees." or "Alexa, what is the temperature in the living room?"
- **Google Assistant:** "Hey Google, turn up the heat." or "Hey Google, set the living room thermostat to 21 degrees."

7.5. Child Lock

To prevent unauthorized changes, activate the child lock feature. This is usually done by pressing and holding a specific button combination (refer to the thermostat's on-screen prompts or advanced settings menu). The lock icon (Image 4.2, item 21) will appear when active.

8. MAINTENANCE

The Beca BHT-8000GCLW thermostat requires minimal maintenance.

- **Cleaning:** Wipe the screen and casing with a soft, dry cloth. Do not use abrasive cleaners, solvents, or spray directly onto the thermostat.
- **Avoid Obstructions:** Ensure no furniture or curtains block the thermostat, as this can affect temperature readings.

9. TROUBLESHOOTING

If you encounter issues with your thermostat, try the following steps:

- **No Power/Blank Screen:** Check the circuit breaker. Ensure wiring connections are secure.
- **Heating Not Responding:** Verify the thermostat is in the correct mode (manual or programmable) and the set temperature is above the current room temperature. Check boiler operation.
- **Wi-Fi Disconnected:** Check your home Wi-Fi router. Restart the thermostat and attempt to reconnect via the SmartLife app. Ensure your Wi-Fi is 2.4GHz.
- **Inaccurate Temperature Reading:** Ensure the thermostat is not exposed to direct sunlight, drafts, or heat sources.

- **App Control Issues:** Ensure your phone has an internet connection and the SmartLife app is up to date.

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

10. SPECIFICATIONS

Feature	Specification
Power Supply	95 ~ 240 V AC, 50 ~ 60 Hz
Accuracy	±0.5 °C or ±1 °F
Temperature Setting Range	5-35 °C
Display Temperature Range	5 ~ 99 °C
Storage Temperature	-5 ~ 45 °C
Shell Material	PC + ABS (flame retardant)
Installation Box	86 x 86 mm square box or 60 mm European round box
Wire Terminals	2 x 1.5 mm ² wire or 1 x 2.5 mm ² wire
Protection Class	IP 20
Buttons	Capacitive touch buttons
Connectivity	Wi-Fi
Compatible Smart Assistants	Amazon Alexa, Google Home, IFTTT
Color	Transparent (as per product details, though product image shows white frame)

11. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official Beca website. Keep your proof of purchase for warranty claims.