

briidea BR-147

Briidea Wi-Fi CO2 Controller User Manual

Model: BR-147

1. INTRODUCTION

The Briidea Wi-Fi CO2 Controller (Model BR-147) is designed to monitor and regulate carbon dioxide (CO2) levels in controlled environments such as grow tents, grow rooms, and greenhouses. This device features remote control capabilities via a mobile application, independent dual outlets for CO2 regulators and exhaust fans, a high-sensitivity CO2 sensor, and multiple operating modes to optimize plant growth conditions.

This manual provides detailed instructions for the installation, operation, and maintenance of your Briidea Wi-Fi CO2 Controller.

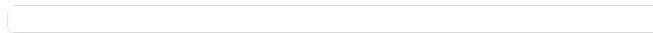


Image 1.1: Briidea Wi-Fi CO2 Controller with its components.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating the device. Failure to follow these instructions may result in electric shock, fire, or property damage.

- **Electrical Safety:** Ensure the power supply matches the device's requirements (AC 120VAC). Do not operate the device with damaged cords or plugs. Keep the device away from water or excessive moisture.
- **CO2 Safety:** Carbon dioxide can be dangerous in high concentrations. Ensure adequate ventilation in the controlled environment. Do not exceed recommended CO2 levels for your specific application.
- **Installation:** Install the controller in a stable, dry location, away from direct sunlight or heat sources. Ensure all connections are secure before powering on.
- **Maintenance:** Disconnect power before performing any maintenance or cleaning.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Briidea Wi-Fi CO2 Controller (Model BR-147)

- High-Sensitivity CO2 Sensor with integrated temperature and humidity sensor
- Power Cable
- User Manual (this document)

4. PRODUCT OVERVIEW

The Briidea Wi-Fi CO2 Controller features a compact design with an integrated display and control buttons. It includes two independent outlets for connecting a CO2 regulator and an exhaust fan, allowing for precise environmental management.



Image 4.1: Controller with independent dual outlets for CO2 regulator and exhaust fan.

4.1. High-Sensitivity Sensor

The controller is equipped with a high-sensitivity sensor for accurate and stable CO2 measurements. This sensor also provides temperature and humidity data, contributing to comprehensive environmental monitoring.



Image 4.2: Internal view of the high-sensitivity CO2 sensor.

5. SETUP

5.1. Physical Installation

1. **Mount the Controller:** Choose a suitable location within your grow environment, ensuring it is easily accessible and protected from direct water spray. Use appropriate mounting hardware (not included) to secure the controller to a wall or sturdy surface.
2. **Connect the Sensor:** Plug the high-sensitivity CO2 sensor cable into the designated port on the bottom of the controller. Position the sensor in the center of your growing area, away from direct airflow from fans or CO2 sources, to ensure accurate readings.
3. **Connect CO2 Regulator:** Plug your CO2 regulator (not included) into the 'GREEN' outlet on the controller. This outlet controls the CO2 enrichment.
4. **Connect Exhaust Fan:** Plug your inline exhaust fan (not included) into the 'VENT' outlet on the controller. This outlet controls ventilation.
5. **Power On:** Plug the controller's power cable into a standard AC 120VAC electrical outlet. The display will illuminate.

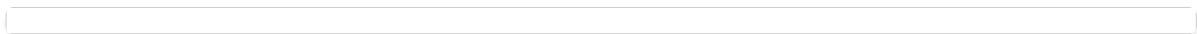


Image 5.1: System diagram illustrating controller connections.

5.2. App Download and Wi-Fi Connection

1. **Download the GeniLife App:** Search for 'GeniLife' in your smartphone's app store (iOS or Android) and download the application.
2. **Register/Log In:** Open the GeniLife app and follow the on-screen instructions to create an account or log in.
3. **Add Device:** In the app, select 'Add Device' or the '+' icon. Follow the app's instructions to connect your Briidea Wi-Fi CO2 Controller to your home Wi-Fi network. **Note: The controller supports only 2.4GHz Wi-Fi networks.**

4. **Verification:** Once connected, the app will display the current CO2 levels and other environmental data from your controller.

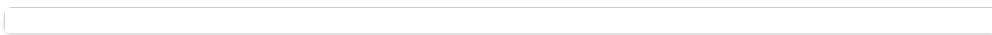


Image 5.2: GeniLife app interface for remote control and monitoring.

6. OPERATION

The Briidea Wi-Fi CO2 Controller offers three primary operating modes to suit various plant growth stages and environmental control strategies.

6.1. Operating Modes

You can select and configure these modes via the GeniLife app or directly on the controller's interface.

- **Auto Mode:** In this mode, the controller automatically maintains a target CO2 level by activating the CO2 regulator when levels drop below the set point and activating the exhaust fan if CO2 levels exceed a safe threshold or for general ventilation.
- **Timer Mode:** Allows you to schedule specific ON/OFF times for CO2 enrichment and ventilation, independent of CO2 readings. This is useful for precise, time-based environmental control.
- **Light-Sensitive Mode:** This mode uses a photocell sensor to detect light conditions. CO2 enrichment can be configured to operate only during light periods (daytime) when plants actively photosynthesize, and ventilation can be adjusted for both light and dark periods.

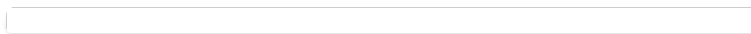


Image 6.1: Visual representation of the three operating modes on the controller display.



Image 6.2: Light-Sensitive mode operation during day and night.

6.2. Adjusting Settings and Monitoring

- **Via GeniLife App:** The app provides a comprehensive interface to set target CO2 levels, configure mode-specific parameters (e.g., schedules for Timer mode, light sensitivity for Light-Sensitive mode), view real-time CO2, temperature, and humidity data, and access historical data logs.
- **Alerts:** Configure real-time alerts via the app for high/low CO2 levels, ensuring you are immediately notified of any deviations.
- **Independent Control:** The dual outlets allow for separate control logic for CO2 enrichment and exhaust fan operation, providing flexibility in environmental management.

7. MAINTENANCE

Regular maintenance ensures the longevity and accuracy of your Briidea Wi-Fi CO2 Controller.

- **Cleaning:** Periodically wipe the controller and sensor with a soft, dry cloth. Do not use abrasive cleaners or immerse the device in water.
- **Sensor Care:** Keep the sensor free from dust, debris, and moisture. Avoid touching the sensor element directly.
- **Calibration:** While the sensor is designed for long-term stability, periodic calibration may be required for optimal accuracy. Refer to the GeniLife app or manufacturer's support for calibration procedures if needed.

8. TROUBLESHOOTING

If you encounter issues with your Briidea Wi-Fi CO2 Controller, refer to the following common problems and solutions:

- **Controller Not Powering On:**
 - Ensure the power cable is securely plugged into both the controller and a working electrical outlet.
 - Check the circuit breaker for the outlet.
- **Cannot Connect to Wi-Fi:**
 - Verify that your Wi-Fi network is 2.4GHz. The controller does not support 5GHz networks.
 - Ensure your smartphone is connected to the same 2.4GHz network during the setup process.
 - Move the controller closer to your Wi-Fi router.
 - Restart your router and the controller.
- **Inaccurate CO2 Readings:**
 - Ensure the sensor is clean and free from obstructions.
 - Verify the sensor cable is securely connected to the controller.
 - Ensure the sensor is placed in an appropriate location, away from direct CO2 sources or strong airflow.
 - Consider performing a sensor calibration if available through the app or manufacturer guidelines.
- **CO2 Regulator/Exhaust Fan Not Activating:**
 - Check if the devices are properly plugged into the 'GREEN' and 'VENT' outlets.
 - Verify that the operating mode and set points in the app or on the controller are configured correctly.
 - Ensure the connected devices (regulator/fan) are functional independently.
- **App Issues:**
 - Ensure your GeniLife app is updated to the latest version.
 - Restart the app or your smartphone.
 - If issues persist, try reinstalling the app.

9. SPECIFICATIONS

Technical specifications for the Briidea Wi-Fi CO2 Controller (Model BR-147):

Feature	Specification
Product Dimensions	3.9 x 2.7 x 5.7 inches
Item Weight	1.72 pounds
Power Input	AC 120VAC
Maximum Output Power	1800W
CO2 Measurement Range	0-5000ppm
Display Resolution	1ppm
Operating Temperature	32°F – 122°F (0°C – 50°C)
Storage Temperature	14°F – 140°F (-10°C – 60°C)
Wi-Fi Support	2.4GHz only
Included Components	Controller, Sensor

Manufacturer	briidea
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Image 9.1: Product dimensions of the controller and sensor.

10. WARRANTY AND SUPPORT

For warranty information, technical support, or further assistance, please contact briidea customer service. Refer to the product packaging or the briidea official website for contact details.

ASK A QUESTION ABOUT THIS MANUAL

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