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› Lifebreath 99-BC02 Basic Wall Control User Manual

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Model: 99-BC02

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Lifebreath 99-BC02 Basic Wall Control. This control unit is designed to provide efficient and convenient management of your Lifebreath Heat Recovery Ventilator (HRV) system.

The 99-BC02 offers essential functions including two-speed fan settings (LOW/HIGH) and a standby mode (fan OFF), along with an integrated electronic dehumidistat. It is compatible with various Lifebreath residential HRV models and can be connected using a 3-wire 20 gauge low voltage wire.

2. PRODUCT OVERVIEW



Figure 1: Lifebreath 99-BC02 Basic Wall Control Unit. This image shows the front face of the white wall control unit,

featuring buttons for power, dehumidistat, and fan speed, along with indicators for ventilation fan percentage and high/low settings. Mounting tabs are visible on the top and bottom.

Key Features:

- **2-Speed Fan Setting:** Easily switch between LOW and HIGH fan speeds for optimal ventilation.
- **Standby Setting:** Turn the fan OFF when ventilation is not required.
- **Electronic Dehumidistat:** Integrated sensor to manage humidity levels automatically.
- **Compatibility:** Works with most Lifebreath residential HRV Models, including RNC5-ES, RNC5-HEX-TPD, RNC5-HEX-TPF, RNC 95, RNC 155, RNC 205.
- **Slim-line Design:** Modern and discreet appearance for seamless integration into your home.
- **Wired Connection:** Connects via 3-wire 20 gauge low voltage wire.
- **Wireless Timer Compatibility:** Compatible with 99-DET02 Wireless Timers for enhanced control options.

3. SETUP AND INSTALLATION

3.1 Safety Precautions

- Always disconnect power to the HRV unit before beginning installation.
- Installation should be performed by a qualified technician in accordance with local electrical codes.
- Ensure proper wiring to prevent damage to the control or HRV unit.

3.2 Wiring Instructions

The 99-BC02 wall control requires a 3-wire 20 gauge low voltage connection to the Lifebreath HRV unit. Refer to your HRV unit's specific wiring diagram for terminal connections.

1. Locate the low voltage terminal block on your Lifebreath HRV unit.
2. Connect the three wires from the 99-BC02 control to the corresponding terminals on the HRV unit. Typically, these are labeled R, G, and Y or similar low-voltage control terminals. Consult the HRV manual for exact terminal assignments.
3. Ensure all connections are secure and properly insulated.

3.3 Mounting the Control

The 99-BC02 is designed for standard wall mounting. Choose a location that is easily accessible and not subject to extreme temperature fluctuations or direct sunlight, which could affect the dehumidistat's accuracy.

1. Route the low voltage wiring through the wall to the desired mounting location.
2. Secure the control unit to the wall using appropriate screws (not included) through the mounting holes provided on the unit's tabs.
3. Ensure the control is level and flush against the wall.

4. OPERATING INSTRUCTIONS

Once installed and powered, the 99-BC02 allows for simple control of your HRV system.

4.1 Control Buttons and Indicators

- **Power Button ():** Toggles the HRV unit between ON and Standby (OFF) modes.
- **Dehumidistat Button ():** Activates or deactivates the electronic dehumidistat function. When active, the HRV will operate to reduce indoor humidity to the set level.

- **Fan Speed Button (▲):** Cycles through fan speeds: LOW, HIGH.
- **Ventilation Fan Indicators (20% - 60%):** These LEDs indicate the current ventilation rate or dehumidistat activity.
- **HI/LO Indicators:** These LEDs indicate the current fan speed setting.

4.2 Basic Operation

1. **To Turn On/Off:** Press the Power button (). The unit will start or stop operation.
2. **To Adjust Fan Speed:** Press the Fan Speed button (▲) to cycle between LOW and HIGH settings. The corresponding HI or LO indicator will illuminate.
3. **To Use Dehumidistat:** Press the Dehumidistat button (). The unit will automatically adjust operation based on humidity levels. Refer to your HRV manual for specific dehumidistat setpoint adjustments if available.

4.3 Compatibility with 99-DET02 Wireless Timers

The 99-BC02 is designed to work in conjunction with Lifebreath 99-DET02 Wireless Timers. For instructions on pairing and operating with wireless timers, please refer to the 99-DET02 user manual.

5. MAINTENANCE

The Lifebreath 99-BC02 Basic Wall Control requires minimal maintenance. Regular cleaning and proper care will ensure its longevity and accurate operation.

5.1 Cleaning

- Wipe the surface of the control with a soft, damp cloth.
- Do not use abrasive cleaners, solvents, or harsh chemicals, as these can damage the finish or internal components.
- Ensure no liquid enters the control unit.

5.2 Dehumidistat Sensor Care

The dehumidistat sensor is located within the unit. Keep the area around the control free from obstructions that could impede airflow to the sensor, ensuring accurate humidity readings.

6. TROUBLESHOOTING

If you experience issues with your 99-BC02 Basic Wall Control, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Control unit is unresponsive.	No power to the HRV unit or control. Loose wiring connection.	Check the power supply to the HRV unit. Verify all 3-wire low voltage connections are secure at both the control and HRV unit.
Fan speed cannot be changed.	Wiring issue. HRV unit malfunction.	Ensure the control wiring is correctly connected to the HRV's fan speed terminals. Consult your HRV unit's manual for troubleshooting fan operation.
Dehumidistat not functioning correctly.	Sensor obstruction. Incorrect HRV settings.	Ensure the control unit is not obstructed and has proper airflow. Refer to your HRV unit's manual for dehumidistat calibration or settings.

If the problem persists after attempting these solutions, please contact Lifebreath customer support or a qualified HVAC technician.

7. SPECIFICATIONS

Model Name:	99-BC02
Brand:	Lifebreath
Color:	White
Power Source:	Corded Electric (Low Voltage)
Control Method:	Touch
Number of Power Levels:	2 (LOW / HIGH)
Included Components:	Wall Mount (Control Unit)
Item Weight:	2.47 ounces
Package Dimensions:	4.76 x 1.77 x 1.34 inches
Compatibility:	Lifebreath residential HRV Models (RNC5-ES, RNC5-HEX-TPD, RNC5-HEX-TPF, RNC 95, RNC 155, RNC 205), 99-DET02 Wireless Timers

8. WARRANTY AND SUPPORT

8.1 Warranty Information

Lifebreath products are manufactured to high standards and are backed by a manufacturer's warranty. For specific warranty terms and conditions applicable to your 99-BC02 Basic Wall Control, please refer to the warranty documentation included with your HRV unit or visit the official Lifebreath website. Keep your proof of purchase for warranty claims.

8.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or to inquire about replacement parts, please contact Lifebreath customer support:

- **Website:** Visit the official Lifebreath website for FAQs, product resources, and contact information.
- **Phone:** Refer to the contact section on the Lifebreath website for regional support numbers.

When contacting support, please have your product model number (99-BC02) and HRV unit model number readily available.

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