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› Buachois AT- Adjustable Manual Line Volt Thermostat Instruction Manual for Heating and Cooling Systems

Buachois AT-

Buachois AT- Adjustable Manual Line Volt Thermostat Instruction Manual

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Buachois AT- Adjustable Manual Line Volt Thermostat. This device is designed to control central air conditioning terminal coil motors and water valves for both heating and cooling applications in commercial and civil buildings. Please read this manual thoroughly before installation and use to ensure proper function and safety.

IMPORTANT SAFETY INFORMATION

WARNING: Electrical shock hazard. Disconnect power at the main service panel before installing or servicing this thermostat. All wiring must conform to local electrical codes and ordinances. Installation should be performed by a qualified electrician.

- Ensure power is OFF before installation or maintenance.
- Do not operate the thermostat with wet hands.
- Do not expose the thermostat to water or excessive humidity.
- Keep out of reach of children.

PACKAGE CONTENTS

Verify that all items are present:

- Buachois AT- Thermostat Unit
- Mounting Screws
- Instruction Manual (this document)

PRODUCT OVERVIEW

The Buachois AT- thermostat features a mechanical design for reliable temperature control. It includes a temperature adjustment dial, a heat/cool mode selector, and a fan speed switch.



Image 1: Front view of the Buachois AT- thermostat, showing the large central temperature dial, the HEAT/COOL selector switch on the left, and the FAN speed selector (1, 2, 3) on the right, with an ON/OFF switch in the center bottom.



Image 2: Diagram highlighting key features of the thermostat, including Heating & Cooling mode, Multiple Working Modes, Energy Saving, Standard 86 Type Installation Cassette, Compatibility, and Various Toggle Switches.

SPECIFICATIONS

Feature	Detail
Brand	Buachois
Model Number	AT-
Controller Type	Mechanical knob
Voltage	110-220V/AC, 50/60Hz
Rated Current	1A
Constant Temperature Range	10-30 °C
Temperature Deviation	≤1 °C at 25 °C

Relative Humidity	<92% (no condensation)
Material	ABS plastic
Mounting Type	Wall Mount (Standard 86 type installation card box)
Item Weight	3.04 ounces (approx. 0.19 lbs)

SETUP AND INSTALLATION

Before beginning installation, ensure the main power supply to the area where the thermostat will be installed is turned OFF at the circuit breaker or fuse box. This thermostat is designed for external embedded installation using a standard 86 type installation box.

Wiring Diagram

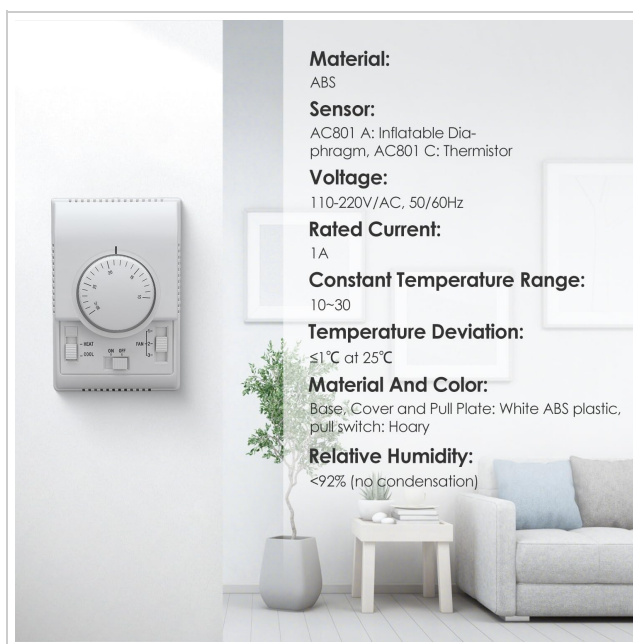


Image 3: Wiring diagram for the Buachois AT- thermostat (TR-110C-HEAT-B model shown). It illustrates connections for the valve (terminals 2, 3) and fan (terminals 6, 7, 8) to a 220-240V~6(3)A power supply (N and L). The diagram also shows internal switch logic for temperature control and fan operation.

Refer to the wiring diagram above for correct electrical connections. The thermostat supports various wiring methods, including single-line (valve stops, fan continues) or double-line (valve stops, fan stops) configurations. Consult a qualified electrician for proper wiring to your specific HVAC system.

- **Terminals 1-5:** Control logic for temperature and mode selection.
- **Terminals 2, 3:** Valve connections.
- **Terminals 6, 7, 8:** Fan speed connections (1, 2, 3 for different speeds).
- **N, L:** Neutral and Live power input (220-240V).

Installation Steps



Image 4: Four-step diagram illustrating the installation process. Step 1 shows detaching the front cover, Step 2 shows separating the backplate, Step 3 shows mounting the backplate to the wall box with screws, and Step 4 shows reattaching the front cover.

1. **Step 1: Separate the Front Cover.** Gently pry open the front cover of the thermostat from the bottom or sides to expose the mounting plate.
2. **Step 2: Detach the Backplate.** Once the front cover is removed, carefully detach the backplate from the main unit. This backplate will be mounted to the wall.
3. **Step 3: Mount the Backplate.** Position the backplate over a standard 86 type electrical wall box. Secure it to the wall box using the provided mounting screws. Ensure the backplate is level and firmly attached. Connect the electrical wires according to the wiring diagram before securing the backplate.
4. **Step 4: Reattach the Front Cover.** Align the main thermostat unit with the mounted backplate and carefully snap the front cover back into place until it is securely fastened.

After installation, restore power at the main service panel and test the thermostat's functionality.

OPERATING INSTRUCTIONS

The Buachois AT- thermostat offers straightforward manual control for your heating and cooling system.

1. Power ON/OFF

Use the central ON/OFF switch located at the bottom of the thermostat to power the unit on or off.

2. Temperature Adjustment



Image 5: Close-up of the thermostat's temperature dial, indicating that turning clockwise controls cooling and turning counter-clockwise controls temperature rise (heating).

The large central dial is used to set your desired room temperature. Rotate the dial:

- **Clockwise:** To decrease the set temperature (for cooling).
- **Counter-clockwise:** To increase the set temperature (for heating).

The temperature range is typically 10°C to 30°C.

3. Mode Selection (Heating/Cooling)

Use the HEAT/COOL selector switch on the left side of the thermostat to choose the desired operating mode:

- Slide the switch to **HEAT** for heating operation.
- Slide the switch to **COOL** for cooling operation.

4. Fan Speed Control

The fan speed selector switch on the right side of the thermostat allows you to adjust the fan's operation:

- **Position 1:** Low fan speed.
- **Position 2:** Medium fan speed.
- **Position 3:** High fan speed.
- **Position 0 (or OFF):** Fan off.



Image 6: Diagram illustrating the fan speed control switch with settings for low, medium, and high speeds, and an off position.

MAINTENANCE

The Buachois AT- thermostat requires minimal maintenance to ensure long-term performance.

- **Cleaning:** Periodically wipe the exterior of the thermostat with a soft, dry cloth. Do not use abrasive cleaners, solvents, or spray directly onto the unit.
- **Avoid Obstructions:** Ensure that the thermostat is not obstructed by furniture, curtains, or other objects that could interfere with its ability to accurately sense room temperature.
- **No User Serviceable Parts:** There are no user-serviceable parts inside the thermostat. Do not attempt to open or repair the unit yourself. Refer all servicing to qualified personnel.

TROUBLESHOOTING

If you experience issues with your thermostat, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Thermostat not powering on.	No power supply; ON/OFF switch is off; incorrect wiring.	Check circuit breaker/fuse. Ensure ON/OFF switch is in the 'ON' position. Verify wiring connections (consult electrician).
System not heating/cooling.	Incorrect mode selected; temperature setting too high/low; system malfunction.	Ensure HEAT/COOL switch is in the correct position. Adjust temperature dial to desired setting. Check HVAC system for issues.
Fan not operating.	Fan speed switch is off or set to 0; fan motor issue; incorrect wiring.	Set fan speed switch to 1, 2, or 3. Check fan unit for power. Verify fan wiring (consult electrician).
Inaccurate temperature reading/control.	Thermostat location; sensor obstruction.	Ensure thermostat is not in direct sunlight, near heat sources, or obstructed.

If problems persist after attempting these solutions, contact customer support or a qualified HVAC technician.

WARRANTY AND SUPPORT

Buachois is committed to providing high-quality products. For warranty information or technical support, please refer to the contact details provided with your purchase documentation or visit the official Buachois website. Please have your model number (AT-) and purchase date available when contacting support.

