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Coleman 9420-351

Coleman 9420-351 Analog Heat/Cool Wall Thermostat User Manual

Model: 9420-351

1. Introduction

The Coleman 9420-351 Analog Heat/Cool Wall Thermostat is designed to provide reliable and straightforward control for your recreational vehicle's (RV) air conditioning and heat pump systems. This analog thermostat features simple switches and a dial for temperature adjustment, ensuring ease of use and durability. It supports Fan Only, Cool, and Heat modes, offering essential climate control for your comfort.



Figure 1: Coleman 9420-351 Analog Heat/Cool Wall Thermostat. This image shows the front view of the black analog thermostat with its control dial and mode switches.

2. Safety Information

- **Electrical Safety:** Always disconnect power to the HVAC system before installing, servicing, or removing the thermostat to prevent electrical shock or equipment damage.
- **Voltage Compatibility:** This thermostat is designed for 12V DC systems. Connecting it to a higher voltage system (e.g., 24V AC) will cause damage to the thermostat and potentially the HVAC system.
- **Professional Installation:** If you are unsure about any part of the installation process, consult a qualified RV technician.
- **Wiring:** Ensure all wiring connections are secure and correctly matched according to the wiring diagram to prevent malfunctions or damage.

3. Package Contents

Verify that all items are present in the package:

- Coleman 9420-351 Heat/Cool Wall Thermostat - Analog Black
- Mounting hardware (screws)

4. Setup and Installation

The Coleman 9420-351 thermostat is designed for easy wall-mount installation. Follow these steps carefully:

1. **Disconnect Power:** Before beginning installation, turn off all power to your RV's HVAC system at the circuit breaker or fuse panel.
2. **Remove Old Thermostat (if applicable):** Carefully remove your existing thermostat from the wall. Note the wiring connections before disconnecting them. It is recommended to take a picture for reference.
3. **Mounting Location:** Choose a central location on an interior wall, away from direct sunlight, drafts, or heat sources that could affect temperature readings.
4. **Wiring Connections:** This thermostat uses color-coded wiring. Connect the wires from your RV's HVAC system to the corresponding terminals on the Coleman 9420-351 thermostat.
    - **Red Wire:** Typically 12V DC Positive (+) power.
    - **Blue Wire:** Typically 12V DC Negative (-) or common ground.
    - **White Wire:** Often used to control the furnace.

    Important Note on Furnace Control: If connecting the white wire directly to a furnace, ensure the furnace's control circuit draws less than 1 amp. For furnaces with higher current draw (e.g., 10 amps for the blower), it is strongly recommended to use a low-current relay controlled by the white wire. This relay should then switch the higher current to the furnace, allowing the furnace board to manage blower pre- and post-purge air cycles. Consult your furnace manual for specific current requirements.
5. **Secure Thermostat:** Once wiring is complete, carefully push any excess wire back into the wall opening and secure the thermostat to the wall using the provided mounting hardware.
6. **Restore Power:** Turn the power back on to your RV's HVAC system.

5. Operating Instructions

The Coleman 9420-351 thermostat offers simple manual control:

1. **Mode Selection:** Use the mode switch to select your desired operating mode:
    - **COOL:** Activates the air conditioning system.
    - **HEAT:** Activates the heat pump or furnace system.
    - **FAN ONLY:** Operates the fan without heating or cooling.

- **OFF:** Turns off the HVAC system.

2. **Temperature Adjustment:** Use the temperature dial to set your desired room temperature. Rotate the dial clockwise to increase the temperature setting and counter-clockwise to decrease it. The system will activate when the room temperature deviates from your set point.
3. **Fan Speed (if applicable):** Some systems may have a separate fan speed switch (e.g., High/Low). Adjust this switch as needed for airflow.

6. Maintenance

The Coleman 9420-351 thermostat requires minimal maintenance:

- **Cleaning:** Periodically wipe the exterior of the thermostat with a soft, dry cloth to remove dust. Do not use liquid cleaners or abrasive materials.
- **Airflow:** Ensure that the thermostat's vents (if any) are not obstructed, as this can affect temperature sensing accuracy.

7. Troubleshooting

If your thermostat is not functioning as expected, consider the following:

- **No Power:** Check the RV's main power supply and the circuit breaker/fuse for the HVAC system. Ensure the thermostat is receiving 12V DC power.
- **System Not Responding:** Verify that the mode switch is set correctly (COOL, HEAT, or FAN ONLY) and that the temperature dial is set to a point that should trigger the system (e.g., set lower than room temperature for cooling, higher for heating).
- **Incorrect Temperature Reading:** Ensure the thermostat is not exposed to direct sunlight, drafts, or heat sources that could skew its internal temperature sensor.
- **Furnace Issues:** If the furnace is not engaging, re-check the wiring, especially the white wire connection. Confirm that a relay is used if your furnace requires more than 1 amp on its control circuit.
- **Loose Connections:** Turn off power and carefully check all wiring connections at the thermostat and the HVAC unit for tightness.

If problems persist after checking these points, contact customer support or a qualified technician.

8. Specifications

Brand:	Coleman
Model Name:	9420-351
Color:	Black
Special Feature:	Fan Only/Cool/Heat Modes
Specific Uses:	Air Conditioner, Heat Pump (RV applications)
Temperature Control Type:	Manual (Analog Dial)
Connectivity Technology:	Wired
Power Source:	12V DC
Control Type:	Manual Control (Switches and Dial)

Mounting Type:	Wall Mount
Item Weight:	0.22 Pounds
UPC:	755790005123

9. Warranty Information

This Coleman 9420-351 Thermostat is covered by a **2-year manufacturer's warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. For warranty claims or detailed terms and conditions, please refer to the official Coleman website or contact their customer support.

10. Customer Support

For technical assistance, troubleshooting, or questions regarding your Coleman 9420-351 Analog Heat/Cool Wall Thermostat, please contact Coleman customer support. Have your model number (9420-351) and purchase information ready when you call or email.

- **Website:** Visit the official Coleman website for FAQs and support resources.
- **Phone:** Refer to your product packaging or the Coleman website for customer service contact numbers.

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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.

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