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Dayton B07HLVT2N1

Dayton Electric Convection Ceiling Heater Instruction Manual

Model: B07HLVT2N1

1. INTRODUCTION AND OVERVIEW

This manual provides essential instructions for the safe installation, operation, and maintenance of your Dayton Electric Convection Ceiling Heater. This heater is designed for either surface or recessed ceiling mounting and operates on 208VAC, delivering 750 watts of heating power, equivalent to 2559 BtuH. Please read this manual thoroughly before installation and use, and retain it for future reference.

The Dayton Electric Convection Ceiling Heater is engineered to provide efficient and consistent heating for various indoor spaces, including bedrooms, home offices, and study rooms. Its convection design ensures even heat distribution.

2. IMPORTANT SAFETY INFORMATION

WARNING: To reduce the risk of fire, electric shock, or injury, observe the following safety precautions:

- Read all instructions before installing or using this heater.
- Installation must be performed by a qualified electrician in accordance with all local and national electrical codes.
- Ensure the power supply matches the heater's voltage rating (208VAC).
- Do not install the heater in areas where flammable liquids or vapors are stored.
- Maintain proper clearances from combustible materials as specified in the installation instructions.
- This heater is equipped with an overheat protection feature that automatically shuts off the unit if it becomes too hot. If this occurs, disconnect power, allow the unit to cool, and inspect for obstructions before restoring power.
- Do not insert or allow foreign objects to enter any ventilation or exhaust opening as this may cause an electric shock or fire, or damage the heater.
- To prevent a possible fire, do not block air intakes or exhaust in any manner.

3. SETUP AND INSTALLATION

The Dayton Electric Convection Ceiling Heater can be installed as either a surface-mounted or recessed

unit. Proper installation is crucial for safe and efficient operation. Always ensure the power supply is disconnected before beginning any installation work.

3.1 Tools and Materials Required:

- Screwdrivers (Phillips and flathead)
- Wire strippers
- Drill
- Measuring tape
- Pencil
- Appropriate mounting hardware (not included, specific to ceiling type)

3.2 Installation Steps:

1. **Disconnect Power:** Turn off power to the circuit at the main service panel before installation.
2. **Select Location:** Choose a suitable ceiling location, ensuring adequate structural support for the heater's weight (18 pounds) and compliance with minimum clearance requirements from walls and other objects.
3. **Prepare Opening (for Recessed Mount):** If recessing, cut an opening in the ceiling according to the heater's dimensions (51 x 27.5 x 2.75 inches).
4. **Mounting:** Securely attach the heater to the ceiling structure using appropriate mounting hardware. Ensure the unit is level and firmly fixed.
5. **Wiring:** Connect the heater to a dedicated 208VAC electrical circuit. All wiring must conform to local electrical codes. Ensure all connections are tight and properly insulated.
6. **Final Checks:** Verify all connections are secure and the heater is properly mounted.



Figure 1: Dayton Electric Convection Ceiling Heater. This image displays the heater's sleek, rectangular profile, suitable for both surface and recessed ceiling installations. The unit features a flat, white heating surface framed by a slim metal border.

4. OPERATING INSTRUCTIONS

Once properly installed and wired, operating your Dayton Electric Convection Ceiling Heater is straightforward.

1. **Restore Power:** After installation is complete and all safety checks are performed, restore power to the circuit at the main service panel.
2. **Initial Operation:** The heater will begin to warm the area. Convection heaters work by circulating warm air, providing a gentle and even heat distribution throughout the room.
3. **Temperature Control:** This model typically relies on an external thermostat (not included) for

temperature regulation. Ensure your thermostat is properly installed and set to your desired temperature.

4. **Overheat Protection:** The integrated overheat protection will automatically shut off the heater if it detects an unsafe operating temperature. If this occurs, turn off the power, allow the unit to cool, and check for any obstructions to airflow before restarting.

5. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your heater. Always disconnect power before performing any maintenance.

- **Cleaning:** Periodically wipe the exterior of the heater with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the heater is completely dry before restoring power.
- **Airflow:** Ensure that the air intake and exhaust vents are free from dust, lint, or other obstructions. Blocked vents can lead to overheating and reduced efficiency.
- **Inspections:** Annually, or if you notice any unusual operation, have a qualified technician inspect the wiring and internal components for wear or damage.

6. TROUBLESHOOTING

If you experience issues with your Dayton Electric Convection Ceiling Heater, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Heater does not turn on.	No power supply; tripped circuit breaker; faulty wiring; external thermostat set too low.	Check circuit breaker and power connections. Ensure external thermostat is set above room temperature. Consult a qualified electrician if wiring is suspected.
Heater produces insufficient heat.	Room size too large for heater capacity; blocked air vents; external thermostat issue.	Ensure vents are clear. Verify thermostat settings. Confirm heater capacity is appropriate for the space.
Heater repeatedly shuts off.	Overheat protection activated due to blocked vents or internal fault.	Disconnect power, allow to cool, and clear any obstructions from vents. If problem persists, contact customer support or a qualified technician.

For issues not listed above or if troubleshooting steps do not resolve the problem, contact Dayton customer support or a qualified service technician.

7. SPECIFICATIONS

- **Brand:** Dayton
- **Model:** B07HLVT2N1
- **Type:** Electric Convection Ceiling Heater
- **Mounting Type:** Ceiling Mount (Surface or Recessed)
- **Voltage:** 208VAC
- **Wattage:** 750 Watts
- **BtuH:** 2559

- **Special Feature:** Overheat Protection
- **Item Weight:** 18 Pounds
- **Product Dimensions:** 51 x 27.5 x 2.75 inches (Length x Width x Depth)
- **UPC:** 696334339031

8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the documentation included with your purchase or visit the official Dayton product support website. Keep your purchase receipt as proof of purchase for warranty claims.

For further assistance, you may contact Dayton customer service directly.