

## Dayton 70-inch Hydronic Electric Baseboard Heater

# Dayton 70-inch Hydronic Electric Baseboard Heater User Manual

Model: 70-inch Hydronic Electric Baseboard Heater

## 1. IMPORTANT SAFETY INSTRUCTIONS

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Read all instructions carefully before installing or using this heater. Failure to follow these instructions may result in electric shock, fire, property damage, or personal injury.

- **Electrical Installation:** All electrical wiring and connections must be performed by a qualified electrician in accordance with national and local electrical codes.
- **Power Disconnection:** Always disconnect power at the main service panel before installing, servicing, or cleaning the heater.
- **Proper Grounding:** Ensure the heater is properly grounded to prevent electrical shock.
- **Location:** Do not install the heater directly below an electrical outlet. Maintain proper clearances from combustible materials as specified in installation instructions.
- **Water Exposure:** Do not use this heater in bathrooms, laundry areas, or similar locations where it may come into contact with water.
- **Supervision:** Close supervision is necessary when any heater is used by or near children or individuals with reduced physical, sensory, or mental capabilities.
- **Obstruction:** Do not insert or allow foreign objects to enter any ventilation or exhaust opening as this may cause an electric shock, fire, or damage to the heater.
- **Overheating:** To prevent possible fire, do not block air intakes or exhaust in any manner. Do not use on soft surfaces, like a bed, where openings may become blocked.

## 2. PRODUCT OVERVIEW

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The Dayton 70-inch Hydronic Electric Baseboard Heater provides efficient and consistent warmth for indoor spaces. This unit utilizes hydronic technology, heating a fluid within the baseboard to deliver radiant heat, which helps maintain a stable room temperature and reduces dry air. It is designed for permanent installation and operates on 208V or 240V electrical systems.



Figure 1: Front view of the Dayton 70-inch Hydronic Electric Baseboard Heater. The image shows the white casing with horizontal grilles at the top, revealing heating elements inside, and a lower air intake.

### Key Features:

- **Hydronic Heating:** Provides gentle, even heat distribution.
- **Voltage Options:** Compatible with 208V and 240V electrical systems.
- **Wattage:** 1125W or 1500W, depending on wiring configuration.
- **Durable Construction:** Designed for long-term performance.
- **Floor Mount:** Suitable for floor-level installation.

## 3. SETUP AND INSTALLATION

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Proper installation is crucial for the safe and efficient operation of your baseboard heater. It is strongly recommended that a qualified electrician perform all electrical wiring.

### 3.1 Pre-Installation Checks

1. Verify that the supply voltage matches the heater's requirements (208V or 240V).
2. Ensure the circuit breaker rating is appropriate for the heater's wattage (e.g., 1500W at 240V draws 6.25 Amps).
3. Select a suitable location for the heater, typically along an exterior wall beneath a window, ensuring adequate clearance from furniture, drapes, and other combustible materials. Refer to local codes for specific clearance requirements.
4. Confirm that the mounting surface is stable and level.

### 3.2 Mounting the Heater

1. Carefully unpack the heater and inspect for any shipping damage.
2. Position the heater on the floor against the wall where it will be installed.
3. Secure the heater to the wall studs or using appropriate wall anchors through the designated mounting holes. Ensure the heater is level.

### 3.3 Electrical Connection

**WARNING:** Disconnect all power to the circuit at the main service panel before proceeding with electrical connections.

1. Remove the wiring compartment cover on the heater.
2. Route the supply wires into the heater's wiring compartment through an approved connector.
3. Connect the ground wire to the heater's ground terminal.
4. Connect the supply wires to the heater's terminals as per the wiring diagram provided inside the heater's wiring compartment or in the full installation guide. Ensure all connections are tight.
5. Replace the wiring compartment cover securely.

*Note: This heater may require an external thermostat for temperature control, which should be wired according to its own instructions and local electrical codes.*

## 4. OPERATING INSTRUCTIONS

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Once properly installed and wired, operating your Dayton Hydronic Electric Baseboard Heater is straightforward.

### 4.1 Initial Startup

1. After installation is complete and all covers are secured, restore power to the heater at the main service panel.
2. The heater may emit a slight odor during its first few hours of operation as manufacturing residues burn off. This is normal and will dissipate. Ensure adequate ventilation during this period.

### 4.2 Temperature Control

This heater typically operates in conjunction with an external thermostat (not included with the heater itself). To adjust the room temperature:

- Locate your wall-mounted or remote thermostat.
- Adjust the thermostat setting to your desired temperature. The heater will cycle on and off to maintain this temperature.
- For optimal efficiency, avoid frequently changing the thermostat setting. Allow the hydronic system time to evenly distribute heat.

### 4.3 Hydronic Operation

The hydronic system heats a sealed fluid within the baseboard unit. This heated fluid then radiates warmth into the room. This process provides a more consistent and comfortable heat compared to traditional electric resistance heaters, as the fluid retains heat longer, reducing temperature fluctuations.

## 5. MAINTENANCE

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Your Dayton Hydronic Electric Baseboard Heater requires minimal maintenance to ensure long-lasting and efficient operation.

### 5.1 Cleaning

- **WARNING:** Always disconnect power to the heater at the main service panel before cleaning.
- Allow the heater to cool completely before cleaning.
- Use a soft, damp cloth to wipe the exterior surfaces of the heater. Do not use abrasive cleaners, solvents, or polishes, as these can damage the finish.
- Periodically vacuum the grilles and air intake areas to remove dust and lint buildup. Ensure no foreign objects are inserted into the openings.

### 5.2 General Inspection

- Annually, inspect the heater for any signs of physical damage, loose connections, or unusual wear.
- Ensure that clearances from combustible materials are still maintained.
- Do not attempt to repair or modify the heater yourself. There are no user-serviceable parts inside. Any repairs should be performed by qualified service personnel.

## 6. TROUBLESHOOTING

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If your Dayton Hydronic Electric Baseboard Heater is not operating correctly, consult the following common issues

and solutions before contacting service personnel.

Problem	Possible Cause	Solution
Heater does not turn on.	No power supply. Tripped circuit breaker. Thermostat set too low or faulty.	Check that the heater is properly wired and connected to power. Reset the circuit breaker in your electrical panel. Increase the thermostat setting. If the thermostat is faulty, it may need replacement by a qualified electrician.
Insufficient heat output.	Room size exceeds heating capacity. Thermostat set too low. Airflow obstruction.	Ensure the heater's wattage is appropriate for the room size (e.g., 1500W for up to 350 sq ft). Increase the thermostat setting. Check that the heater's grilles are not blocked by furniture, drapes, or debris.
Unusual noises (e.g., clicking, popping).	Normal expansion/contraction of metal components during heating/cooling cycles. Loose mounting.	Minor noises are typically normal for baseboard heaters. If noises are excessive or persistent, ensure the heater is securely mounted to the wall.
Odor during operation.	Dust accumulation. Initial burn-off of manufacturing residues.	Clean the heater as described in the Maintenance section. This is normal during the first few hours of operation and will dissipate. Ensure good ventilation.

If the problem persists after attempting these solutions, disconnect power to the heater and contact a qualified electrician or customer support.

## 7. SPECIFICATIONS

<b>Brand</b>	Dayton
<b>Model</b>	70-inch Hydronic Electric Baseboard Heater
<b>Type</b>	Hydronic Electric Baseboard Heater
<b>Voltage</b>	208V / 240V AC
<b>Heat Output</b>	1125W (208V) / 1500W (240V)
<b>Amperage</b>	6.25 Amps (at 240V)
<b>Heating Coverage</b>	Up to 350 square feet
<b>Dimensions (L x H x D)</b>	72.3 x 9 x 3.3 inches
<b>Color</b>	White
<b>Mounting Type</b>	Floor Mount
<b>Indoor/Outdoor Usage</b>	Indoor
<b>UPC</b>	190735293973

## 8. WARRANTY AND SUPPORT

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Dayton products are manufactured to high-quality standards. For specific warranty details, please refer to the warranty card included with your product or visit the official Dayton website. Keep your purchase receipt as proof of purchase for warranty claims.

### Customer Support:

If you have questions about installation, operation, or require technical assistance, please contact Dayton customer support. Contact information can typically be found on the manufacturer's website or in the packaging materials.

- **Online Resources:** Visit the official Dayton website for FAQs, additional documentation, and support contact details.
- **Professional Assistance:** For complex electrical issues or repairs, always consult a qualified and licensed electrician.