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TEMPWARE TW5000

TEMPWARE 5000-Watt Electric Garage Heater (Model TW5000)

Instruction Manual

1. Introduction and Safety Information

This manual provides essential instructions for the safe installation, operation, and maintenance of your TEMPWARE 5000-Watt Electric Garage Heater, Model TW5000. Please read all instructions carefully before use and retain this manual for future reference.

Important Safety Warnings

- **Electrical Hazard:** This heater requires 240-volt hardwired installation. Installation must be performed by a qualified electrician in accordance with the (US) National Electric Code and local codes.
- **Grounding:** The heater must be properly grounded to prevent electrical shock.
- **No Power Cord Included:** This heater does not come with a power cord. A suitable power supply cable must be hardwired directly to the unit.
- **Overheat Protection:** The unit is equipped with a built-in sensor that automatically switches the device off if it overheats. Do not obstruct air intake or exhaust.
- **Clearance:** Maintain adequate clearance from combustible materials. Refer to installation instructions for specific distances.
- **Power Disconnection:** Always switch off the circuit breaker to disconnect power to the heater before performing any maintenance or adjustments.

2. Product Overview

The TEMPWARE 5000-Watt Electric Garage Heater is a robust, fan-forced heating solution designed for workshops, garages, and similar indoor spaces. It features adjustable heat levels and a durable construction.

Key Features

- **Adjustable Angle:** Louvers and mounting bracket allow for variable air direction.
- **Three Heat Settings:** Select between 3,000 watts, 4,000 watts, and 5,000 watts.
- **Space-Saving Design:** Can be mounted on a wall or ceiling.

- **Thermostat Control:** Built-in thermostat for temperature regulation.
- **Overheat Protection:** Automatic shutdown in case of overheating.
- **Durable Construction:** Made from heavy-duty steel material.

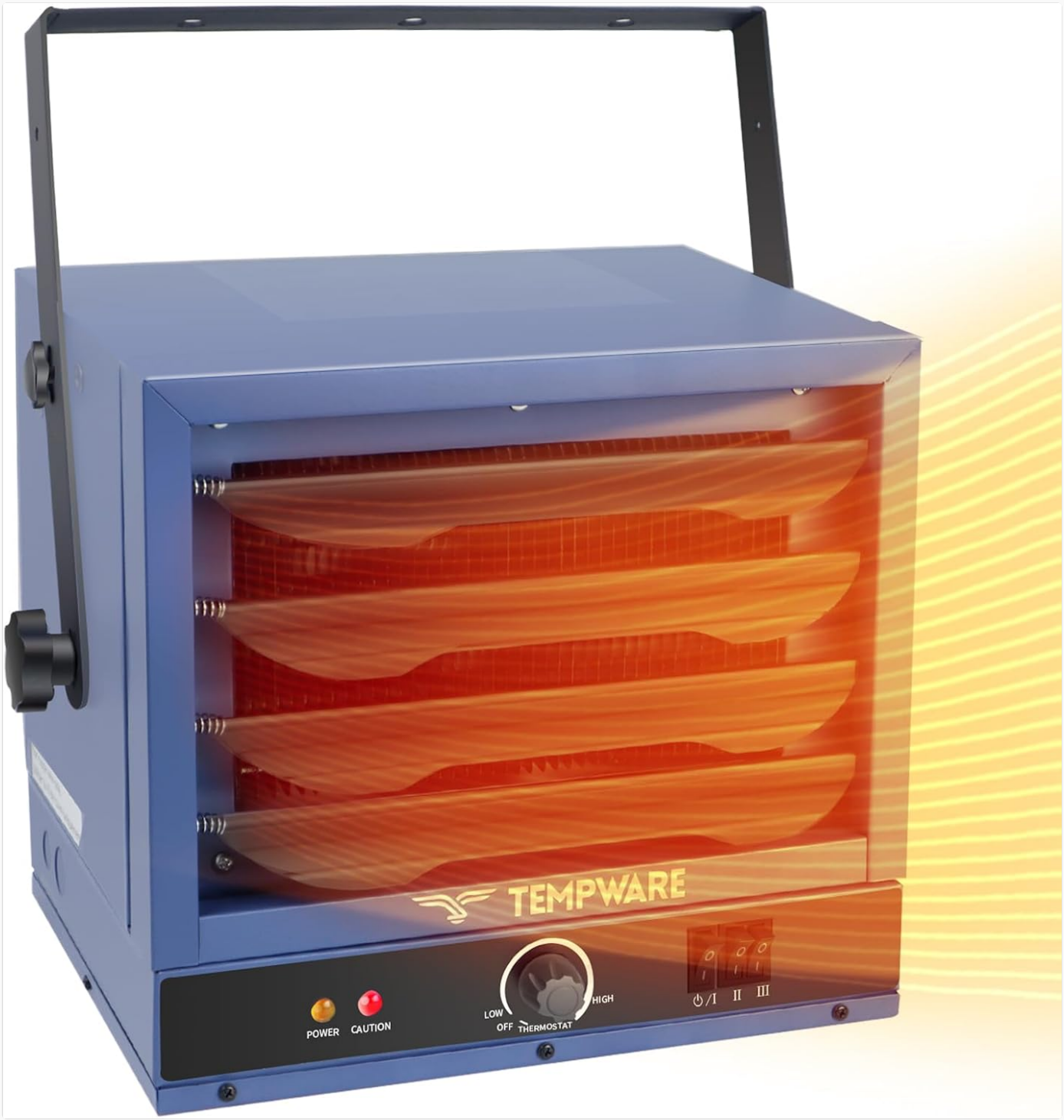


Figure 2.1: Front view of the TEMPWARE 5000-Watt Electric Garage Heater.



Figure 2.2: Control panel detail showing power/caution indicators, thermostat knob, and heating level switches. Dimensions are also indicated.

3. Specifications

Feature	Specification
Brand	TEMPWARE
Model Number	TW5000
Wattage	5000 watts (adjustable to 3000W, 4000W)
Voltage	240 Volts
Amperage	20.83 Amps

Feature	Specification
Heat Output	17,060 British Thermal Units (BTU)
Heating Coverage	Up to 592 sq.ft
Product Dimensions	18"D x 15"W x 15"H
Item Weight	22.5 pounds
Material	Metal
Special Feature	Overheat Protection, Thermostat
Mounting Type	240-Volt Hardwired Installation (Ceiling/Wall)
Indoor/Outdoor Usage	Indoor

4. Installation

This heater requires hardwired installation by a qualified electrician. Ensure all local and national electrical codes are followed.

Installation Steps

1. **Locate Mounting Position:** For effective air circulation, locate the heater at least 8 inches away from any walls and at least 6 feet away from the floor. Ensure the mounting surface (ceiling or wall) can support the heater's weight.
2. **Secure Mounting Bracket:** Locate a ceiling joist or other firm support. Drill two 1/2" pilot holes off-center for the screws. Install the bracket with the included screws and washers. For single screw mounting, a larger lag screw may be required.
3. **Attach Heater to Bracket:** Lift the heater, align the lower bracket holes with the threaded holes for the large knob-screws on both sides, and tighten.
4. **Adjust Louvers:** Aim the heater horizontally or tilt by aligning the upper bracket holes with the threaded holes for the small knob-screws on both sides and tighten. Do not operate the heater with the front louvers closed.

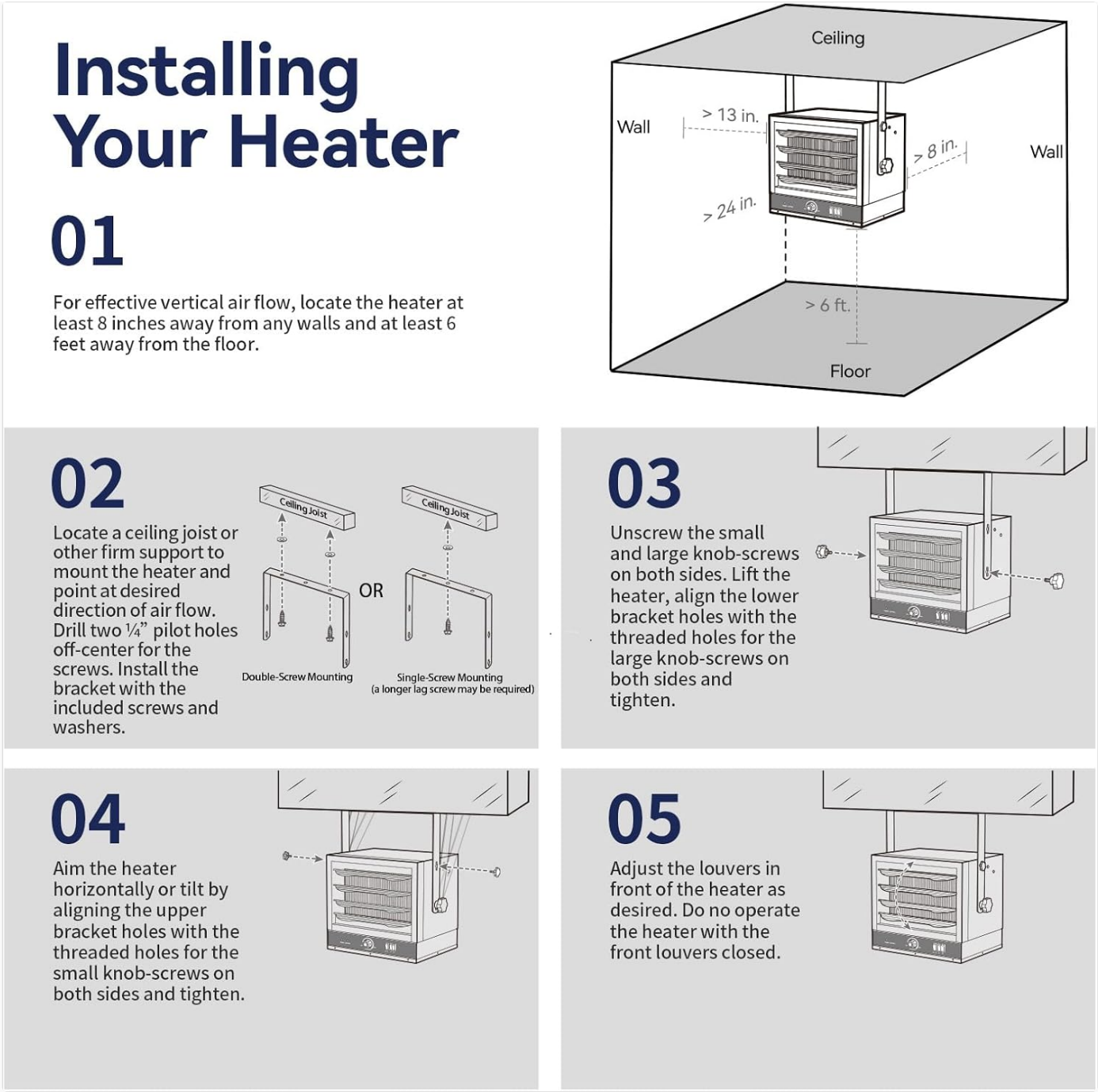


Figure 4.1: Visual guide for heater installation steps.

Electrical Wiring

WARNING: Disconnect power at the main circuit breaker before proceeding with wiring.

1. **Access Wiring Compartment:** Turn off the power at the breaker. Remove all screws from the bottom panel for access to the wiring.
2. **Run Wiring:** Run the appropriate gauge wiring (e.g., 10 AWG for 5000W at 240V) through a cut-out on the side of the heater.
3. **Connect Wires:** Connect the L1 and L2 10 AWG copper wires to the power block terminals. Connect the 10 AWG ground wire to the designated ground terminal.
4. **Secure Connections:** Torque all terminal screws and power block lugs tight with the required torque (35 in-lbs).
5. **Close Compartment:** Reattach the bottom panel securely.
6. **Connect to Breaker:** Connect the heater wiring to a properly sized current protection circuit breaker (e.g., 30A or 40A double-pole breaker for 5000W) in your service panel.

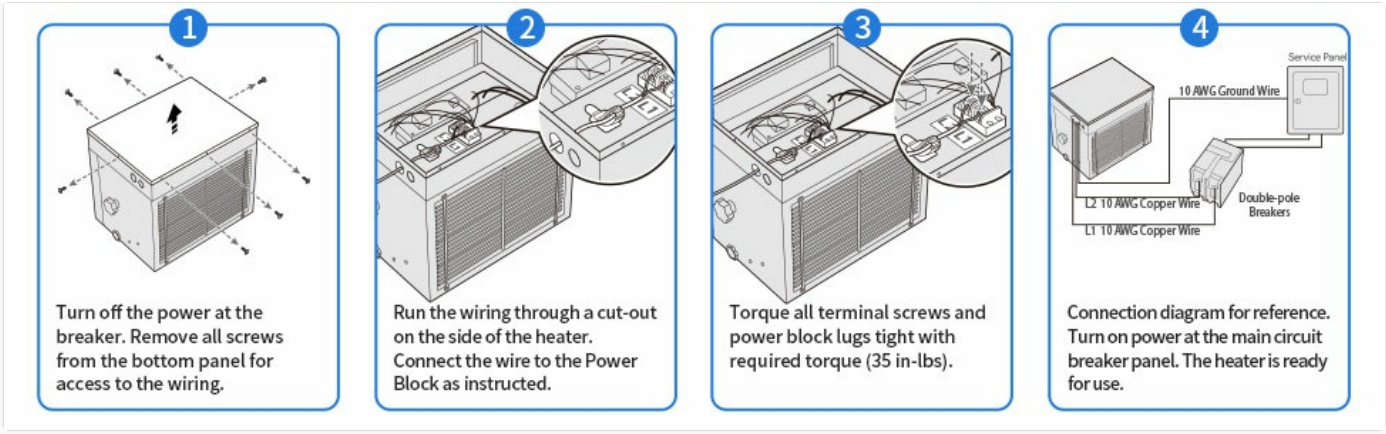


Figure 4.2: Electrical wiring diagram for hardwired connection.

5. Operation

Once properly installed and wired, your TEMPWARE garage heater is ready for use.

Control Panel Functions

- **Power Indicator:** Illuminates when the heater is receiving power.
- **Caution Indicator:** Illuminates to indicate a potential issue, such as overheating.
- **Thermostat Knob:** Rotate to adjust the desired room temperature. The heater will cycle on and off to maintain this setting.
- **Heating Level Control Switches (I, II, III):**
    - Switch I (ON): Activates 3,000 watts of heating.
    - Switch I + II (ON): Activates 4,000 watts of heating.
    - Switch I + II + III (ON): Activates 5,000 watts of heating.

Starting the Heater

1. Ensure the circuit breaker supplying power to the heater is in the ON position.
2. Turn the thermostat knob to the desired temperature setting.
3. Select the desired heat output using the heating level control switches (I, II, or III). The fan will activate, and heating elements will begin to warm up.

Adjusting Heat Output and Temperature

Use the thermostat knob to set your preferred ambient temperature. The heater will automatically turn on and off to maintain this temperature. For faster heating or to heat a larger area, engage more heating elements using switches II and III. For lower heat, use only switch I.



Figure 5.1: Heater operating in a garage, illustrating heating coverage and power settings.

6. Maintenance

Regular maintenance ensures optimal performance and longevity of your heater.

Cleaning

WARNING: Always disconnect power at the circuit breaker before cleaning.

- Allow the heater to cool completely before cleaning.
- Use a soft, damp cloth to wipe the exterior surfaces. Do not use abrasive cleaners or solvents.
- Periodically vacuum the air intake and exhaust grilles to remove dust and debris. Ensure no foreign objects are lodged inside the unit.
- Do not immerse the heater in water or allow water to drip into the interior.

Storage

If storing the heater for an extended period, ensure it is clean and dry. Store it in a cool, dry place, protected from dust and moisture.

7. Troubleshooting

Refer to this section for common issues and their solutions.

Problem	Possible Cause	Solution
Heater does not turn on.	No power supply. Circuit breaker tripped. Thermostat set too low.	Check circuit breaker. Ensure power is supplied. Increase thermostat setting.
Heater produces insufficient heat.	Incorrect heat setting. Thermostat set too low. Room size exceeds coverage.	Engage higher heat switches (II or III). Increase thermostat setting. Ensure heater is appropriate for room size.
Heater cycles on and off frequently.	Thermostat differential. Overheat protection activated.	This can be normal operation for thermostat. Check for obstructions around heater if overheat light is on.
Caution light is on.	Overheating detected.	Turn off heater, disconnect power. Allow to cool. Check for obstructions to airflow. If problem persists, contact support.
Unusual noise from fan.	Loose components or debris in fan.	Disconnect power. Inspect fan area for debris. If noise persists, contact support.

8. Warranty Information

The TEMPWARE 5000-Watt Electric Garage Heater (Model TW5000) comes with a**12-month warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from misuse, accident, unauthorized modifications, or improper installation.
Please retain your proof of purchase for warranty claims.

9. Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact our customer support team:

- **Email:** customerservice@albatrossindustry.com
- You may also reach out via your Amazon account for assistance.

Our support team aims to respond within 24 hours.

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Why won't my TEMPWARE TW5000 5000-Watt Electric Garage Heater turn off using the thermostat knob?

If your TEMPWARE TW5000 5000-Watt Electric Garage Heater will not turn off using the thermostat knob, it usually indicates a mechanical or electrical failure within the thermostat assembly or internal relays. Please follow these...

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