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TEMPWARE TW5000ER-FBM

TEMPWARE 5000W Electric Garage Heater User Manual

Model: TW5000ER-FBM | Brand: TEMPWARE

1. Important Safety Instructions

Read all instructions before using this heater. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Electrical Safety:** This heater is 240V hardwired. Installation must be performed by a qualified electrician in accordance with the National Electric Code (NEC) and local codes. Ensure the heater is grounded and connected to a properly sized current protection circuit breaker (recommended 30A).
- **Overheat Protection:** The heater is equipped with an automatic overheat shut-off sensor. If the heater overheats, it will automatically turn off. Allow it to cool down before attempting to restart.
- **Placement:** Mount the heater securely to the ceiling or wall, ensuring adequate clearance from combustible materials. Do not block air intake or exhaust openings.
- **Maintenance:** Disconnect power before performing any maintenance or cleaning.
- **Usage:** Do not use this heater in wet or damp locations. Do not insert foreign objects into any ventilation or exhaust opening.

2. Package Contents

Verify that all components are present before installation.

- TEMPWARE 5000W Electric Garage Heater Unit
- Remote Control
- Mounting Bracket and Hardware
- User Manual (this document)

3. Product Overview

The TEMPWARE 5000W Electric Garage Heater is a 240V hardwired, fan-forced unit designed for heating workshops, garages, and warehouses. It features a digital thermostat, multiple heat settings, and a programmable timer for efficient operation.



Figure 3.1: A blue TEMPWARE 5000W electric garage heater shown with its accompanying remote control. The heater features a front grille, control panel, and a mounting bracket.

Key Features:

- **Adjustable Angle & Heat Settings:** Features adjustable louvers and variable mounting angles for precise airflow. Offers three heat settings: Low (3000W), Medium (4000W), and High (5000W).
- **Built-in Thermostat:** Digital thermostat with a temperature range of 45°F to 95°F to maintain desired warmth.
- **Overheat Protection:** Auto-shutoff sensor prevents overheating for enhanced safety.
- **Timer Function:** Programmable timer from 1 to 12 hours for energy savings and automated operation.
- **Remote Control:** Full-function remote for convenient operation.
- **Durable Construction:** Made from heavy-duty steel material for long service life. ETL certified for reliability.

4. Specifications



Figure 4.1: An image detailing the dimensions of the TEMPWARE 5000W electric garage heater (14 inches wide, 12.6 inches high, 10.6 inches deep) and key electrical specifications.

Specification	Detail
Model Number	TW5000ER-FBM
Voltage	208-240VAC, 60Hz
Power Output	5000W (High), 4000W (Medium), 3000W (Low)
BTU/Hour	17,060 (High), 13,650 (Medium), 10,240 (Low)
Heating Coverage	Up to 592 sq ft
Amperage	20.83 Amps (at 240V, 5000W)
Min/Max Temperature Setting	45°F – 95°F
Recommended Circuit Breaker	30A (or larger, in accordance with NEC and local codes)

Recommended Wire Size	10 AWG, Copper Only (rated at 167°F/75°C)
Recommended Lug Torques	35 in-lbs (or greater)
Product Dimensions	17.25 x 13.5 x 14.5 inches
Color	Blue

5. Installation Instructions

WARNING: This heater requires professional hardwired installation. It must be grounded and connected to a properly sized current protection circuit breaker in accordance with the (US) National Electric Code and local codes. Improper installation can lead to electric shock, fire, or injury.

5.1 Mounting the Heater

1. **Select Location:** Choose a suitable location on the ceiling or wall that provides adequate clearance from combustible materials and allows for optimal heat distribution.
2. **Secure Bracket:** Attach the mounting bracket securely to a structural support (e.g., ceiling joist) using appropriate hardware. Ensure the bracket can support the weight of the heater.
3. **Attach Heater:** Mount the heater unit to the bracket. The heater allows for multiple vertical angles (0°, 30°, 60°) to direct airflow. Adjust the angle as needed for your space.

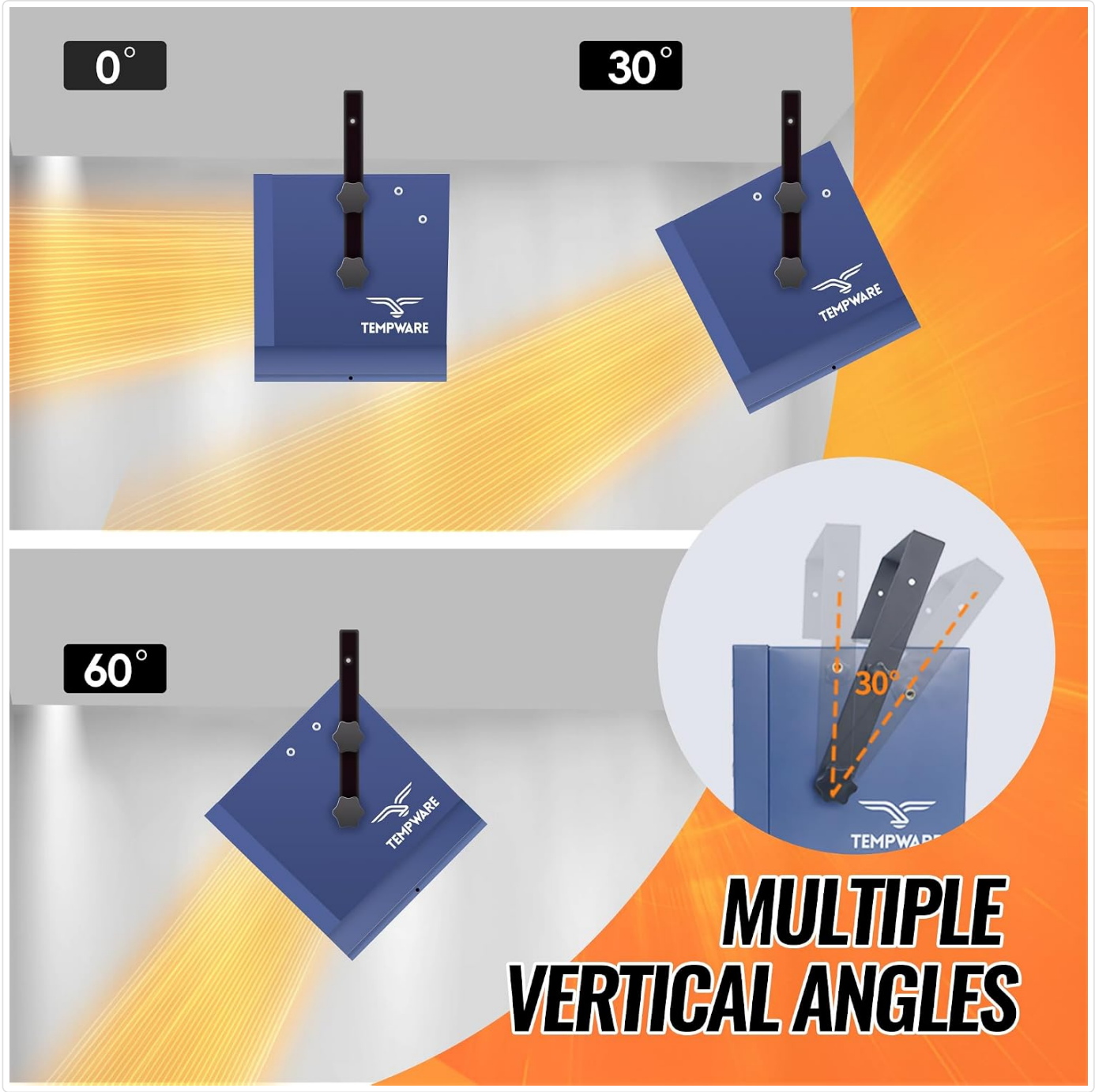


Figure 5.1: The heater can be adjusted to various vertical angles to optimize heat direction.

5.2 Hardwiring the Heater

1. **Power Disconnection:** Ensure the main power supply to the circuit is OFF at the breaker panel before beginning any wiring.
2. **Access Wiring Compartment:** Open the wiring compartment on the heater unit.
3. **Connect Wiring:** Connect the 240V power supply wires to the heater's terminals. Ensure proper grounding. Use 10 AWG copper wire, rated for 167°F/75°C, and tighten lug connections to 35 in-lbs or greater.
4. **Secure Wiring:** Route and secure the wiring to prevent strain or damage. Close the wiring compartment cover.
5. **Restore Power:** Once installation is complete and verified by a qualified electrician, restore power at the breaker panel.



Figure 5.2: Example of heater mounted in a large space, demonstrating effective heat distribution.

6. Operating Instructions

The heater can be operated using the control panel on the unit or the included remote control.

6.1 Control Panel and Remote Functions

- **ON/OFF Button:** Powers the unit on or off.
- **MODE Button:** Cycles through heat settings (Low, Medium, High).
- **TIMER Button:** Activates and adjusts the programmable timer (1-12 hours).
- **TEMP+ / TEMP- Buttons:** Adjust the desired temperature setting on the digital thermostat (45°F–95°F).
- **ECO Button:** Activates energy-saving mode (if available, refer to specific model features).

6.2 Setting Heat and Temperature

1. Turn the heater ON using the ON/OFF button.
2. Press the MODE button to select your desired heat output (3000W, 4000W, or 5000W).

3. Use the TEMP+ or TEMP- buttons to set the desired room temperature. The heater will cycle on and off to maintain this temperature.

6.3 Using the Timer Function

1. With the heater ON, press the TIMER button.
2. Use the TEMP+ or TEMP- buttons (or dedicated timer adjustment buttons on the remote) to set the desired operating duration from 1 to 12 hours. The heater will automatically turn off after the set time expires.



Figure 6.1: The heater effectively warms a garage workshop, covering up to 592 sq ft.

7. Maintenance

Regular maintenance ensures optimal performance and longevity of your heater.

- **Disconnect Power:** Always disconnect the power supply to the heater at the circuit breaker before performing any maintenance.
- **Cleaning:** Periodically clean the exterior of the heater with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the air intake and exhaust grilles are free from dust and debris.
- **Inspection:** Annually inspect the wiring connections for tightness and signs of wear. Check the mounting hardware for security.

- **Fan Blades:** If accessible and safe to do so, gently clean any dust accumulation on the fan blades to maintain efficient airflow.

8. Troubleshooting

If you experience issues with your heater, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
Heater does not turn on.	No power supply; Circuit breaker tripped; Overheat protection activated.	Check circuit breaker; Ensure power is connected; Allow heater to cool down if overheat protection engaged.
Heater produces insufficient heat.	Incorrect heat setting; Thermostat set too low; Room size exceeds coverage.	Increase heat setting; Adjust thermostat to a higher temperature; Ensure heater is appropriate for room size.
Heater turns off unexpectedly.	Overheat protection activated; Timer function expired.	Allow heater to cool; Check timer settings.
Remote control not working.	Dead batteries; Obstruction between remote and heater.	Replace remote batteries; Ensure clear line of sight to heater's receiver.

If the problem persists after attempting these solutions, please contact customer support.

9. Warranty and Customer Support

TEMPWARE products are manufactured to high-quality standards. For warranty information, please refer to the documentation provided at the time of purchase or contact customer support.
For assistance, technical support, or warranty inquiries, please contact:
Email: customerservice@albatrossindustry.com
Our support team aims to respond to inquiries within 24 hours.

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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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Question

Example: How do I reset this device or fix this error?

Details

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