

KING KB2407-1-B2-ECO

KING KB2407-1-B2-ECO ECO2S 7500W Garage Heater User Manual

Model: KB2407-1-B2-ECO

1. INTRODUCTION

This manual provides essential instructions for the safe installation, operation, and maintenance of your KING KB2407-1-B2-ECO ECO2S 7500W Garage Heater. Please read this manual thoroughly before installation and use, and retain it for future reference. Proper installation and adherence to these instructions are crucial for optimal performance and safety.

2. IMPORTANT SAFETY INFORMATION

WARNING: Risk of Fire, Electric Shock, or Injury to Persons.

- Read all instructions before installing or using this heater.
- This heater is hot when in use. To avoid burns, do not let bare skin touch hot surfaces. Keep combustible materials, such as furniture, pillows, bedding, papers, clothes, and curtains, at least 3 feet (0.9 m) from the front of the heater and keep them away from the sides and rear.
- Extreme caution is necessary when any heater is used by or near children or invalids and whenever the heater is left operating and unattended.
- Do not operate any heater with a damaged cord or plug or after the heater malfunctions, has been dropped, or damaged in any manner. Discard heater or return to authorized service facility for examination and/or repair.
- Do not use outdoors.
- This heater is not intended for use in bathrooms, laundry areas, and similar indoor locations. Never locate heater where it may fall into a bathtub or other water container.
- Do not run cord under carpeting. Do not cover cord with throw rugs, runners, or similar coverings. Arrange cord away from traffic area and where it will not be tripped over.
- To disconnect heater, turn controls to off, then remove plug from outlet.
- 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. Do not use on soft surfaces, like a bed, where openings may become blocked.
- A heater has hot and arcing or sparking parts inside. Do not use it in areas where gasoline, paint, or flammable vapors or liquids are used or stored.
- Use this heater only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock, or injury to persons.
- Always plug heaters directly into a wall outlet/receptacle. Never use with an extension cord or relocatable power tap (outlet/power strip).
- This heater is for 240V applications only.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged. If any items are missing or damaged, contact your retailer.

- KING KB2407-1-B2-ECO ECO2S Garage Heater (7500W / 240V)
- Universal Wall/Ceiling Mounting Bracket
- Remote Control
- User Manual (this document)



Image 3.1: The KING KB2407-1-B2-ECO ECO2S Garage Heater, showing the main unit, the universal mounting bracket, and the remote control.

4. SETUP AND INSTALLATION

Installation must be performed by a qualified electrician in accordance with all local and national electrical codes.

4.1 Mounting Location

- Select a location where the heater is protected from water spray, dripping water, and excessive dust.
- Ensure adequate clearance from combustible materials (minimum 3 feet from front, sides, and rear).
- Mount the heater securely to a structural member (stud, joist) capable of supporting its weight (approximately 33.5 lbs).
- The universal bracket allows for wall or ceiling mounting.

4.2 Mounting the Heater

1. Attach the universal mounting bracket to a sturdy wall stud or ceiling joist using appropriate fasteners (not included). Ensure the bracket is level and securely fastened.
2. Lift the heater and align the hanging hooks on top of the heater with the slots on the mounting bracket.
3. Slide the heater onto the bracket until it is securely seated.
4. Adjust the heater's angle as desired and secure it using the provided hardware to prevent accidental movement.

4.3 Electrical Wiring

DANGER: Disconnect power at the main service panel before attempting any wiring to prevent electric shock.

- This heater requires a dedicated 240V circuit.
- The heater is rated for 7500W, drawing approximately 31.25 Amps. A circuit breaker and wiring sized appropriately for this load are required (e.g., 40 Amp breaker with 8-gauge wire, consult local codes).
- Access the internal wiring compartment by removing the appropriate cover plate on the heater.
- Connect the 240V supply wires to the heater's terminals as indicated in the wiring diagram inside the heater's compartment. Ensure proper grounding.
- Secure all wiring connections and replace the cover plate.



Image 4.1: Rear view of the heater, illustrating the fan and location of electrical warning labels. Ensure all wiring is done by a qualified professional.

5. OPERATION

Once properly installed and powered, the heater can be operated using its integrated control panel or the remote control.

5.1 Control Panel Overview



Image 5.1: Front view of the heater, highlighting the digital display and control buttons for direct operation. The control panel features a digital display and several buttons:

- **Digital Display:** Shows current temperature, set temperature, and mode indicators.
- **POWER Button:** Turns the heater ON/OFF.
- **MODE Button:** Cycles through heating modes (ECO, HIGH, FAN ONLY).
- **UP/DOWN Arrows:** Adjusts the set temperature.
- **TIMER Button:** Activates or adjusts the timer function.

5.2 Remote Control

The included remote control provides convenient access to all heater functions from a distance.

- Ensure batteries are correctly installed in the remote control.
- Point the remote control towards the heater's control panel for optimal signal reception.
- Buttons on the remote mirror the functions of the control panel (Power, Mode, Up/Down Temperature, Timer).

5.3 Operating Modes

- **ECO Mode:** The heater automatically selects the lowest wattage needed to maintain the set temperature, optimizing energy consumption.
- **HIGH Heat Mode:** The heater operates at full wattage (7500W) to quickly reach and maintain the set temperature.
- **FAN ONLY Mode:** The fan operates without engaging the heating elements, providing air circulation.

5.4 Setting the Temperature

1. Press the POWER button to turn the heater on.
2. Use the UP or DOWN arrow buttons to set your desired temperature. The display will show the set temperature, then revert to the ambient temperature.
3. The heater will automatically cycle on and off to maintain the set temperature.

5.5 Timer Function

The timer allows you to set a duration for the heater to operate before automatically turning off.

1. With the heater on, press the TIMER button.
2. Use the UP or DOWN arrow buttons to set the desired operating time (e.g., 1-12 hours).
3. The heater will operate for the set duration and then power off.

6. MAINTENANCE

WARNING: Always disconnect power to the heater at the main service panel before performing any maintenance or cleaning.

- **Cleaning:** Periodically clean the exterior of the heater with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Dust Removal:** Use a vacuum cleaner with a brush attachment to remove dust from the grilles and internal components. Ensure the fan blades are free of obstructions.
- **Inspection:** Regularly inspect the power cord and plug for any signs of damage. If damage is found, discontinue use and contact a qualified electrician for repair.
- No lubrication is required for the motor.

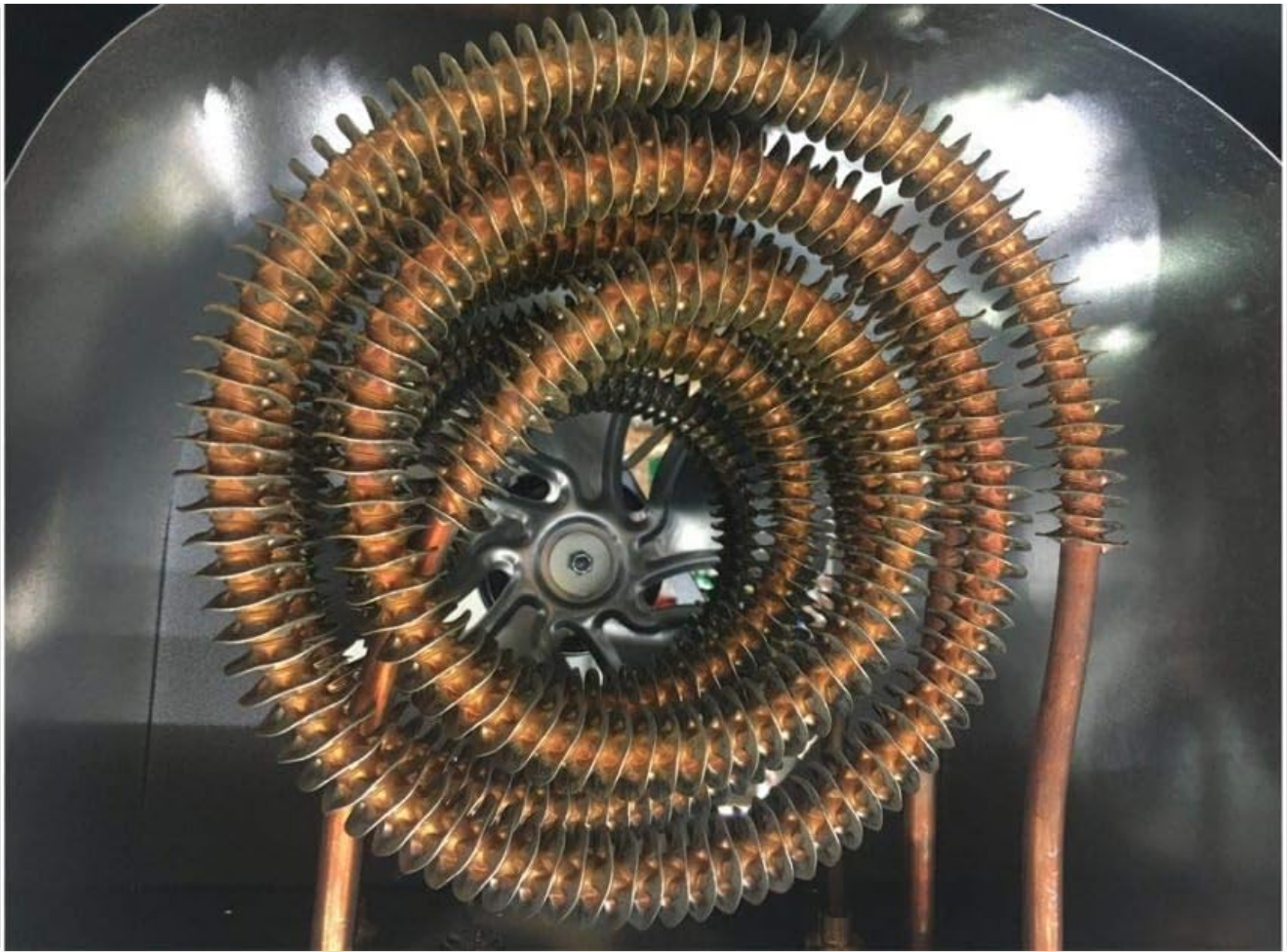


Image 6.1: Close-up of the spiral steel heating elements. Regular cleaning helps maintain efficiency and prolong heater life.

7. TROUBLESHOOTING

If your heater is not operating correctly, consult the following table before contacting customer support.

Problem	Possible Cause	Solution
Heater does not turn on.	No power supply. Circuit breaker tripped. Overheat protection activated.	Ensure heater is properly wired and connected to 240V supply. Check and reset the circuit breaker. Turn off heater, allow to cool for 30 minutes, then restart. Clear any obstructions.
Heater produces insufficient heat.	Incorrect mode selected. Set temperature too low. Room size exceeds heating capacity.	Ensure HIGH or ECO mode is selected, not FAN ONLY. Increase the set temperature. Verify the heater's coverage area (700 sq ft for 7500W) is appropriate for your space.
Fan runs but no heat.	FAN ONLY mode selected. Heating elements malfunction.	Switch to ECO or HIGH heat mode. If problem persists, contact a qualified technician.
Remote control not working.	Dead batteries. Obstruction between remote and heater.	Replace remote control batteries. Ensure a clear line of sight to the heater's control panel.

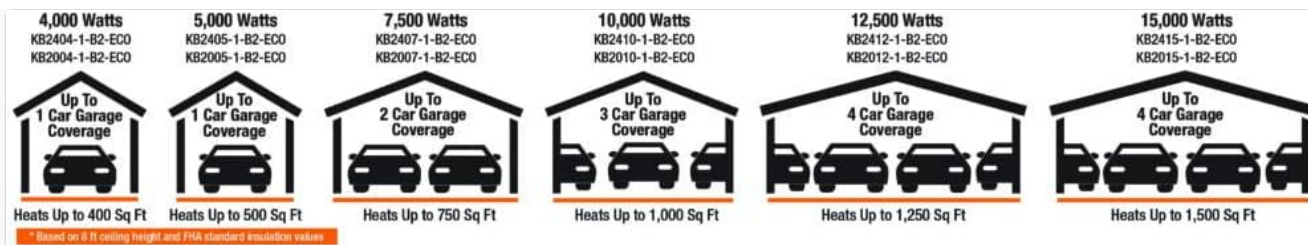


Image 7.1: Heating coverage chart for various KING garage heater wattages. The 7500W model covers up to 750 sq ft.

8. SPECIFICATIONS

Feature	Detail
Model	KB2407-1-B2-ECO
Brand	KING
Wattage	7500 Watts
Voltage	240 Volts
Amperage	31.25 Amps
Heating Coverage	Up to 700 ft² (based on 8 ft ceiling height and FHA standard insulation values)
Special Features	Remote Control, Built-In Fan Delay, Summer Fan Only & Timer Modes, ECO2S Electronic Thermostat
Mounting Type	Universal Wall/Ceiling Bracket
Product Dimensions	13.5 x 15 x 16.5 inches
Item Weight	33.5 pounds
UPC	093319220405

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the warranty card included with your product or visit the manufacturer's official website. Keep your purchase receipt as proof of purchase for warranty claims.

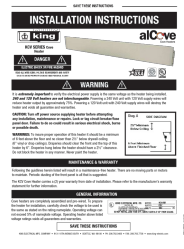
Manufacturer: King Electric

For further assistance, contact King Electric customer service.



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This manual is subject to change without notice.

	King LPW-ECO Series Heater Installation and Maintenance Guide Comprehensive guide for installing, operating, and maintaining King LPW-ECO series electronic heaters, including safety instructions, wiring diagrams, remote sensor setup, and troubleshooting.
	King KBP ECO2S+ Series Compact Unit Heater - Energy Efficient 2-Stage Heating Detailed information on the King KBP ECO2S+ Series compact unit heater, featuring energy-saving ECO2S+ electronic control, 2-stage heating, remote temperature sensing, and versatile installation options. Includes specifications, ordering information, and engineering details.
	King PSH2440TB Portable Shop Heater: Installation, Operation, and Safety Manual This comprehensive manual provides essential information for the King PSH2440TB Portable Shop Heater, including installation, safety guidelines, operating instructions, maintenance tips, and troubleshooting solutions. Designed for garage and workshop use, it features 3750W power and 240V operation.
	King KRF-HEAT-KIT Wireless 24V RF Thermostat Kit for Electric Heat Control Comprehensive guide to the King KRF-HEAT-KIT, a 24V RF wireless thermostat system designed for line voltage electric heat control. Features include the KRFTP-B programmable thermostat and KRFLR-120/240V relay, with detailed specifications, ordering information, and optional accessories for enhanced control and energy savings.
	King KRF-B-KIT Wireless 24V RF Multi-System Thermostat Kit - Submittal and Specifications Product details for the King KRF-B-KIT Wireless 24V RF Multi-System Thermostat Kit, including submittal sheet fields, system diagram, engineering specifications, ordering information, and optional accessories. Features backup line voltage electric heat control.
	King KCV Series Cove Heater Installation Guide Official installation instructions for the King KCV Series Cove Heater (Model KCV1202), detailing safety precautions, electrical setup, mounting, wiring, and maintenance.

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Detailed wiring diagrams and instructions 1 year limited King Electric Product Catalog king electric kel
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Electronic Unit Heater KB ECQ2S SERIES

6 KILOWATT

ECQ2S 2-Stage Garage Heater with IR Remote Control

The ECQ2S 2-Stage Garage heater offers unparalleled performance, with IR remote control and automatic thermostat and 2-stage heating. The ECQ2S 2-Stage Garage heater has an internal water control to ensure that the heater will not overheat (overheating can be caused by a blocked water line). The heater has a built-in safety shut-off system that will shut the heater off if the water temperature rises above 180°F. The heater has a built-in safety shut-off system that will shut the heater off if the water temperature rises above 180°F. The heater has a built-in safety shut-off system that will shut the heater off if the water temperature rises above 180°F. The heater has a built-in safety shut-off system that will shut the heater off if the water temperature rises above 180°F.

ECQ2S Electronic Control Features:

- Electronic control
- Thermostat time switch (0-15 min)
- 120VAC 60Hz
- 120VAC 60Hz
- 120VAC 60Hz
- 120VAC 60Hz

Engineering Specifications

Controlled by digital and analog ECQ2S Series garage heater, manufactured by KB Electric, Company

The ECQ2S 2-Stage Garage heater is a wall-mounted unit with a built-in water control. The heater has a built-in safety shut-off system that will shut the heater off if the water temperature rises above 180°F. The heater has a built-in safety shut-off system that will shut the heater off if the water temperature rises above 180°F. The heater has a built-in safety shut-off system that will shut the heater off if the water temperature rises above 180°F. The heater has a built-in safety shut-off system that will shut the heater off if the water temperature rises above 180°F.

Additional Notes:

The ECQ2S 2-Stage Garage heater is a wall-mounted unit with a built-in water control. The heater has a built-in safety shut-off system that will shut the heater off if the water temperature rises above 180°F. The heater has a built-in safety shut-off system that will shut the heater off if the water temperature rises above 180°F. The heater has a built-in safety shut-off system that will shut the heater off if the water temperature rises above 180°F. The heater has a built-in safety shut-off system that will shut the heater off if the water temperature rises above 180°F.

Key Features:

The ECQ2S 2-Stage Garage heater is a wall-mounted unit with a built-in water control. The heater has a built-in safety shut-off system that will shut the heater off if the water temperature rises above 180°F. The heater has a built-in safety shut-off system that will shut the heater off if the water temperature rises above 180°F. The heater has a built-in safety shut-off system that will shut the heater off if the water temperature rises above 180°F. The heater has a built-in safety shut-off system that will shut the heater off if the water temperature rises above 180°F.

Technical Details:

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KB Electric, Company 35111 S. 15th Street, South, Kansas 67085-2500 Tel: 781-751-7500 Fax: 781-751-7501 www.kbelectric.com

Electronic Unit Heater AB ECO2S Series

Kiung

• 40mm heat pipe • Energy saving 2-stage heating • Remote control • 100% safety • 100% reliability	• Automatic shut down • Cold start heating • Overheat shut down • Over-voltage shut down • Over-current shut down • Over-voltage shut down	• Adjustable vents • Solid front panel • Remote control • Remote control included • 100% safety • 100% reliability
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ECO2S 2-Stage Garage Heater with Remote Control

The ECO2S 2-stage garage heater offers unparalleled performance, energy efficiency and easy control by remote controlling and **Key Features:** ECO2S 2-stage garage heater offers unparalleled performance, energy efficiency and easy control by remote controlling and **Key Features:** ECO2S 2-stage garage heater offers unparalleled performance, energy efficiency and easy control by remote controlling and

- 40mm heat pipe
- Energy saving 2-stage heating
- Remote control
- 100% safety
- 100% reliability

Expanding Specifications

- Automatic shut down
- Cold start heating
- Overheat shut down
- Over-voltage shut down
- Over-current shut down
- Over-voltage shut down

ECO2S Electronic Control Unit

- Automatic shut down
- Cold start heating
- Overheat shut down
- Over-voltage shut down
- Over-current shut down
- Over-voltage shut down

ECO2S Electronic Control Unit

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- Over-voltage shut down

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King KB ECO2S Series Electronic Unit Heater - Efficient Garage Heating

Discover the King KB ECO2S Series Electronic Unit Heater, offering 2-stage heating, remote control, and energy efficiency for warehouses, stores, and garages. View detailed specifications and model options.

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[\[pdf\]](#) Specifications Warranty

KB ECO2S Specification Sheet King Electric 12 5kW Unit Heater 1 Phase 825 CFM 208V 240V Gray

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KB ECO2S Specifications King Electric Ceiling Mounted Space Heater with Adjustable Thermostat Remote Included and Digital Display kget1045 KB24 1 B2 ECKing KB2405 ECO KB2407 KB2410

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Electronic Unit Heater x8 ECO2S Series

KING

Technical Specifications Model: x8 ECO2S Power: 2400W Voltage: 240V Frequency: 50/60Hz Protection: IP20 Dimensions: 400x200x100mm Weight: 3.5kg	
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ECO2S 2-Stage Gas Heater with Ultra R Remote Control

The ECO2S 2-Stage Gas Heater is a compact, wall-mounted unit that provides efficient heating for your home. It features a 2400W power rating and a 240V voltage. The heater is designed for easy installation and operation, making it a perfect choice for your home. The heater is equipped with a digital display and buttons for easy control. It also features a remote control for convenient operation. The heater is made of high-quality materials and is built to last. It is a reliable and efficient heating solution for your home.

Key Features: The ECO2S 2-Stage Gas Heater has a compact design, making it easy to install in any room. It features a 2400W power rating and a 240V voltage. The heater is designed for easy installation and operation, making it a perfect choice for your home. The heater is equipped with a digital display and buttons for easy control. It also features a remote control for convenient operation. The heater is made of high-quality materials and is built to last. It is a reliable and efficient heating solution for your home.

ECO2S Electronic Control Features:

- Remote control for easy operation
- Digital display for easy control
- Energy saving mode for low power consumption
- Safety features for secure operation
- Compact design for easy installation

Engineering Specification

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-ECO = Electronic Control Smart ECO2S design 2-Stage heating ||| Electronic Unit Heater KB ECO2S

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W pany Product Catalog We Believe Experience Matters 6 mag 2023 — WITH NEST OR Thermostat 1 Pole built in thermostat 45 80°F operating range temperature control with manual reset provides overheat protection King Electric 5 23 king electric 05 |||

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W 1 2 Wall Heater temperature control with manual reset provides overheat protection With a 300 CFM fan Tested to CSA 22 46 M1988 UL 2021 1997 LAMP COLOR ID BRO v1 Product Catalog 3K2407BW i E44698B3 B6F5 487D AC63 1627D909258B cesco resources C7C rexel cdn Products KingElectrical king electric s

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Product Line Card Manufacturing Electric Heaters Since 1958 Years NEW Scan For More Info We Believ ... KB2015-1-B2-ECO 22052 15 51.2 KB2404-1-B2-ECO 22037 4 13.7 KB2405-1-B2-ECO 22038 5 17.1 240V **KB2407-1-B2-ECO** KB2410-1-B2-ECO 22040 22042 7.5 10 25.6 34.1 KB2412-1-B2-ECO 22043 12.5 42.7 KB...

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