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HCALORY SKUK63125

HCALORY 12V Diesel Air Heater

Instruction Manual

Model: SKUK63125 | Brand: HCALORY

1. Important Safety Information

Please read all safety warnings and instructions carefully before installing or operating this diesel air heater. Failure to follow these instructions may result in fire, electric shock, or serious injury.

- **Ventilation:** Ensure adequate ventilation when operating the heater. Do not operate in enclosed, unventilated spaces.
- **Fuel Handling:** Use only diesel fuel. Do not use gasoline or other volatile fuels. Refuel in a well-ventilated area away from ignition sources.
- **Exhaust System:** Ensure the exhaust pipe is properly installed and vented outdoors, away from flammable materials and living spaces. Check for leaks regularly.
- **Electrical Connections:** Connect the heater to a 12V or 24V DC power source as specified. Ensure correct polarity. The new motherboard includes *short circuit, reverse connection, overvoltage, and overheat protection* for enhanced safety.
- **Placement:** Place the heater on a stable, non-flammable surface. Maintain a safe distance from walls, furniture, and other combustible materials.
- **Children and Pets:** Keep children and pets away from the heater during operation.
- **Maintenance:** Perform regular maintenance as described in this manual. Disconnect power before any maintenance or cleaning.

2. Product Overview and Features

The HCALORY 12V Diesel Air Heater is an all-in-one portable heating solution designed for various applications including trucks, vans, RVs, boats, and camping. It features an 8KW adjustable power output and an all-aluminum structure for rapid heating.



Figure 2.1: HCALORY 12V Diesel Air Heater with its remote control and LCD display panel.

Key Features:

- **Rapid Heating:** All-aluminum structure ensures quick heat-up times. Capable of heating from 32°F to 212°F in approximately 10 minutes.

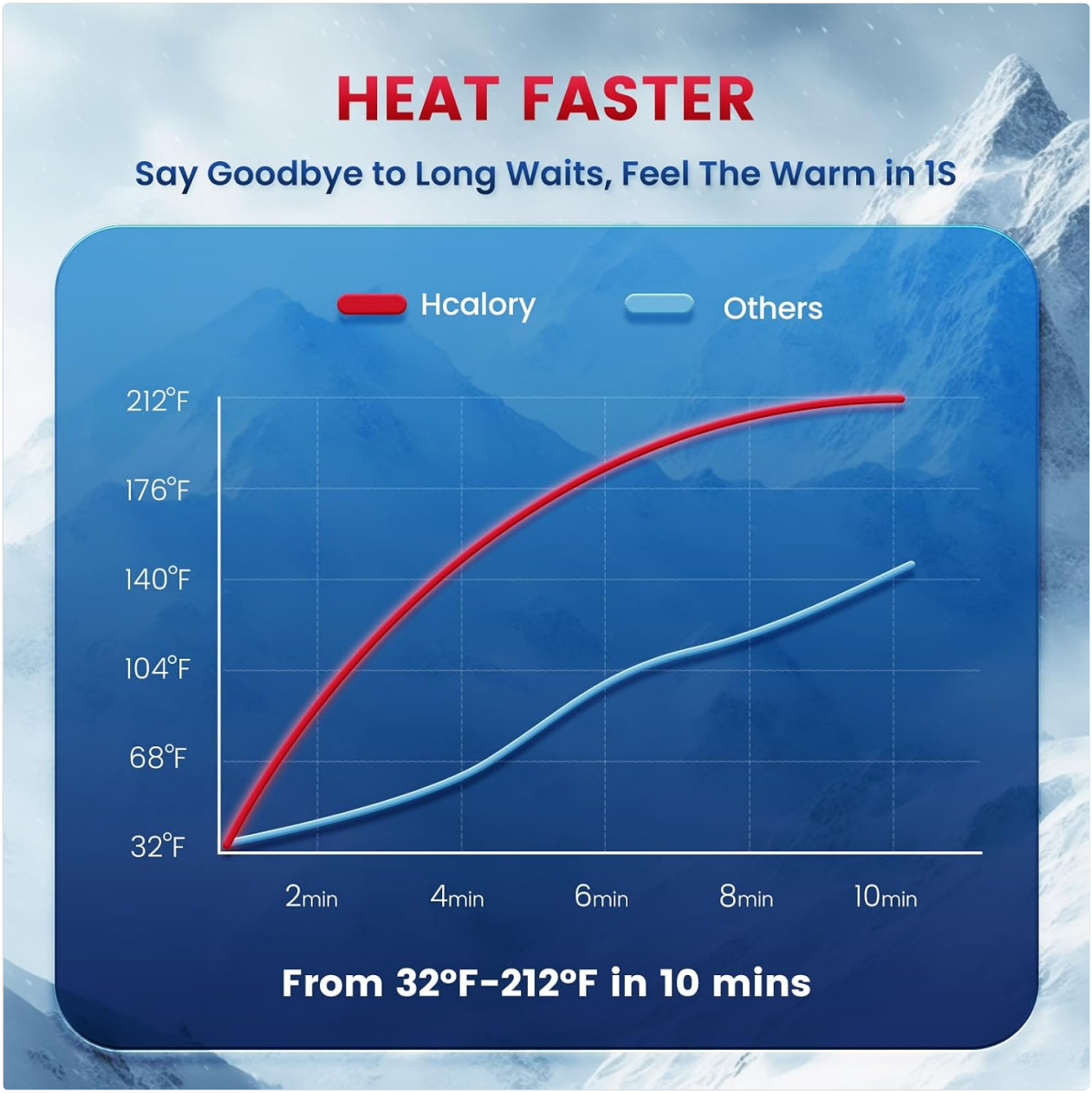


Figure 2.2: Comparison graph illustrating the rapid heating capability of the HCALORY heater.

- **Energy Conservation:** Equipped with a quiet and efficient fuel pump, reducing fuel consumption to 0.04-0.12 gallons per hour. The 5L fuel tank provides extended heating duration.



Figure 2.3: Visual representation of the heater's energy efficiency and effective heating area (215-256 sq ft).

- **Multiple Control Options:** Can be operated via remote control or the integrated LCD panel. Smart app connectivity offers additional functions like timing, thermostatic control, temperature adjustment, and voice broadcasting.



Figure 2.4: The two primary control methods: LCD panel and remote control.

- **Wide Application Area:** Features a highland mode for operation at altitudes up to 18,045 ft. The portable design with a top handle allows for easy transport and use in various environments.



Figure 2.5: Performance chart demonstrating the heater's capability in highland mode, ensuring complete combustion at various altitudes.



Figure 2.6: Examples of diverse indoor and outdoor applications for the HCALORY diesel heater.

- **Safety Protections:** Equipped with a new motherboard offering multiple safety features including short circuit, reverse connection, overvoltage, and overheating protection.



Figure 2.7: Visual representation of the multi-layer safety protections integrated into the heater's design.

3. Package Contents

Upon unpacking, please verify that all components are present and undamaged. If any parts are missing or damaged, contact customer support immediately.

- HCALORY 12V Diesel Air Heater Unit (All-in-one)
- Remote Control
- LCD Monitor/Control Panel (integrated or separate, depending on model variant)
- Exhaust Pipe
- Intake Pipe
- Fuel Line
- Fuel Filter
- Fuel Pump
- Mounting Plate
- Hose Clamps and Fasteners
- Power Cables (for 12V/24V DC connection)

- User Manual

4. Setup and Installation

Proper installation is crucial for the safe and efficient operation of your diesel heater. If you are unsure about any step, consult a qualified professional.

1. **Choose a Location:** Select a flat, stable, and non-flammable surface for the heater. Ensure there is sufficient clearance around the unit for air circulation and away from combustible materials.
2. **Mounting:** Secure the heater using the provided mounting plate and fasteners. Ensure it is firmly attached to prevent movement during operation.
3. **Exhaust System Installation:** Connect the exhaust pipe to the heater's exhaust port. Route the exhaust pipe safely to the outside, ensuring it is clear of any obstructions, windows, or vents. Use appropriate heat-resistant materials and clamps to secure all connections. The exhaust must be vented completely outside the heated space.
4. **Intake System Installation:** Connect the intake pipe to the heater's intake port. Ensure the intake draws clean, fresh air, free from dust or debris.
5. **Fuel System Connection:** Connect the fuel pump to the heater and the fuel tank using the provided fuel lines and filter. Ensure all fuel connections are tight and leak-free. Fill the 5L fuel tank with clean diesel fuel.
6. **Electrical Connection:** Connect the heater to a 12V or 24V DC power source. Ensure the power cables are securely connected and the correct polarity is observed. The heater can be connected directly to a battery or used with a compatible 12V/24V DC power adapter (adapter requires additional purchase).
7. **Initial Start-up:** After installation, perform a test run in a well-ventilated area. Check for any unusual noises, smells, or smoke.

5. Operating Instructions

Your HCALORY diesel heater offers flexible control options for ease of use.

5.1. LCD Panel Control

1. **Power On/Off:** Press the power button on the LCD panel to turn the heater on or off.
2. **Temperature Adjustment:** Use the '+' and '-' buttons to set your desired temperature. The heater will automatically adjust its output to maintain this temperature.
3. **Mode Selection:** Navigate through different modes (e.g., fan speed, power level, highland mode) using the menu or mode button. Refer to the LCD display for current settings.
4. **Timing Function:** Set a timer for the heater to turn on or off at specific times.

5.2. Remote Control Operation

The remote control provides convenient operation from a distance.

- **ON/OFF:** Press the 'ON' button to start the heater and 'OFF' to shut it down.
- **Temperature/Power Adjustment:** Use the '+' and '-' buttons to increase or decrease the heat output or target temperature.
- **OK Button:** Confirm selections or enter settings.

5.3. Smart App Control (If applicable)

For models with smart app connectivity, download the HCALORY app from your device's app store. The app allows

for:

- Remote power on/off
- Precise temperature control
- Scheduling and timing functions
- Real-time status monitoring
- Voice broadcasting of status updates

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your HCALORY diesel heater.

- **Cleaning:** Periodically clean the exterior of the heater with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Air Intake Filter:** Check and clean the air intake filter regularly to prevent dust and debris from entering the unit, which can affect performance.
- **Fuel Filter:** Inspect the fuel filter for contaminants and replace it if necessary. A clogged fuel filter can lead to poor combustion and reduced efficiency.
- **Exhaust System:** Check the exhaust pipe and connections for any blockages, leaks, or damage. Ensure the exhaust is clear and properly vented.
- **Electrical Connections:** Periodically inspect all electrical connections for tightness and signs of wear or corrosion.
- **Storage:** When storing the heater for extended periods, ensure the fuel tank is empty and the unit is clean and dry. Store in a cool, dry place.

7. Troubleshooting

If you encounter issues with your heater, refer to the following common problems and solutions. For persistent issues, contact customer support.

Problem	Possible Cause	Solution
Heater does not start or power on.	No power, loose electrical connection, faulty control panel/remote.	Check power source and connections. Ensure battery is charged. Try operating with both LCD panel and remote.
Heater starts but produces little to no heat.	Low fuel, clogged fuel filter, air in fuel line, incorrect settings.	Check fuel level. Inspect and clean/replace fuel filter. Bleed air from fuel line. Adjust power settings to higher output.
Excessive smoke or unusual odor.	Incomplete combustion, clogged exhaust, incorrect fuel.	Ensure proper ventilation. Check exhaust for blockages. Verify correct diesel fuel is used. Perform maintenance.
Heater makes unusual noises (e.g., fan bearing noise).	Fan obstruction, worn bearings, loose components.	Turn off and inspect fan for obstructions. If noise persists, contact support.

Problem	Possible Cause	Solution
Error code displayed on LCD.	Communication error, sensor fault, specific system issue.	Refer to the specific error code in the full manual (if available) or contact customer support with the code. Check connections between mainboard and controller.

8. Specifications

Technical specifications for the HCALORY 12V Diesel Air Heater.

Attribute	Value
Brand	HCALORY
Model Name	HCALORY (SKUK63125)
Wattage	8 KW (8000 Watts)
Fuel Type	Diesel
Power Source	Fuel Powered
Voltage	12 Volts (DC)
Item Weight	19 Pounds (approx. 8.6 kg)
Tank Volume	5 Liters
Recommended Uses	Camping, Residential, Car, Truck, Boat, RV
Color	Basic
Package Dimensions	18 x 16.2 x 11.5 inches
UPC	810139102243

9. Warranty and Support

For warranty information, technical support, or to inquire about replacement parts, please contact the seller or manufacturer directly. Keep your purchase receipt as proof of purchase.

You can visit the official HCALORY store for more information and support:

Visit the HCALORY Store on Amazon

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