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HCALORY SKUK63125

HCALORY 8KW Diesel Heater Instruction Manual

Model: SKUK63125

1. Introduction

This manual provides essential information for the safe and efficient operation of your HCALORY 8KW Portable Diesel Air Heater. Please read it thoroughly before setup and use to ensure optimal performance and safety.

2. Safety Information

WARNING: Improper use can lead to serious injury or death. Always ensure proper ventilation when operating this diesel heater.

- **Ventilation:** Always operate the heater in a well-ventilated area to prevent carbon monoxide buildup. Never use indoors without proper exhaust routing to the outside.
- **Flammable Materials:** Keep the exhaust pipe clear of any flammable or explosive materials. Ensure sufficient clearance to avoid igniting materials.
- **Power Connections:** Ensure correct polarity and voltage when connecting to power sources (12V/24V DC or 110V AC). The newly upgraded motherboard in 2025 provides short circuit protection, reverse connection protection, over voltage protection, and overheat protection (≥270 °C/518 °F).
- **Altitude Mode:** The heater is equipped with a highland mode (18,045 ft. above sea level) which automatically adjusts for different altitudes.
- **Fuel:** Use only diesel fuel. Do not use gasoline or other volatile fuels.
- **Placement:** Place the heater on a stable, non-flammable surface. Ensure the unit is elevated to allow proper hose connections and airflow.

3. What's in the Box

Upon unboxing, verify that all components are present:

- 1x Diesel Heater Unit
- 1x Instruction Manual
- 1x Set of Accessories (including exhaust pipe, air intake hose, muffler, clamps, AC & 12V/24V DC power adapters, remote control)



Figure 3.1: HCALORY 8KW Diesel Heater and its accompanying accessories.

4. Setup

Follow these steps to set up your diesel heater:

1. **Placement:** Place the heater on a stable, elevated surface. Ensure there is enough space for connecting the hoses and for proper ventilation.
2. **Exhaust Pipe Installation:** Connect the flexible exhaust pipe to the designated port on the heater. Secure it with the provided clamps. Ensure the exhaust is routed safely outside and away from any flammable materials or living spaces.
3. **Air Intake Hose Installation:** Attach the air intake hose to its respective port and secure it with clamps.
4. **Muffler Installation:** If included, install the muffler onto the exhaust pipe to reduce noise.
5. **Fueling:** Unscrew the blue cap on top of the unit. Carefully fill the 5L fuel tank with diesel fuel. Do not overfill. Securely replace the cap.
6. **Power Connection:**
    - For AC power: Connect the 110V AC power adapter to the heater and plug it into a standard wall outlet.
    - For DC power: Connect the 12V/24V DC power adapter to the heater and connect the battery clamps to your vehicle's battery or a compatible 12V/24V power source.



Figure 4.1: Internal and external components of the diesel heater, illustrating connection points.

5. Operating Instructions

Your HCALORY diesel heater offers multiple control options for convenience.

5.1 Control Methods

- **LCD Panel Control:** Use the integrated LCD panel on the unit to power on/off, adjust temperature, set fan mode, view data, and switch between Fahrenheit/Celsius.
- **Remote Control:** The included remote control allows for convenient operation from up to 30 meters away.
- **Smart APP Control (Bluetooth):** Download the HCALORY smart APP to your smartphone for advanced control features, including timing function, thermostatic control, temperature adjustment, and voice broadcasting.



Figure 5.1: Overview of available control methods.

5.2 Initial Startup & Operation

1. **Power On:** Press the power button on the LCD panel, remote, or through the APP to turn on the heater.
2. **Temperature Adjustment:** Use the up/down arrows on the LCD panel or remote, or the temperature controls in the APP, to set your desired heating level. The 8KW adjustable power allows for precise control.
3. **Rapid Heating:** The heater features rapid heat transfer, reaching 100 degrees Fahrenheit in less than 10 minutes.
4. **Highland Mode:** If operating at high altitudes (up to 18,045 ft.), activate the highland mode via the LCD panel or APP for automatic adjustment and efficient heating.
5. **Energy Conservation:** The sophisticated low-noise fuel pump reduces fuel consumption to 0.04-0.12 gal/hour, maximizing fuel performance. The 5L tank provides 10-33 hours of continuous heating.
6. **Timing Function:** Utilize the smart APP to set specific start-up and shutdown times for automated operation.

5.3 LCD Panel Operations

Refer to the video below for a detailed guide on operating the heater's LCD panel:

Your browser does not support the video tag.

Video 5.1: Demonstrates how to power on/off, adjust temperature, set fan mode, view data, switch units, and set timers using the LCD panel and Bluetooth APP.

6. Maintenance

Regular maintenance ensures the longevity and efficient operation of your diesel heater.

- **Fuel Filter:** Periodically check and clean or replace the fuel filter to prevent clogs and ensure clean fuel delivery.
- **Air Intake:** Ensure the air intake is free from debris and obstructions.
- **Exhaust System:** Inspect the exhaust pipe and muffler for any blockages, leaks, or damage. Ensure secure connections.
- **General Cleaning:** Keep the exterior of the unit clean and free of dust and dirt.

7. Troubleshooting

If you encounter issues with your HCALORY diesel heater, consider the following common troubleshooting steps:

- **No Heat/Failure to Start:**
  - Check fuel level in the tank.
  - Ensure power connection is secure and sufficient voltage is supplied.
  - Verify that the fuel pump is operating (a slight ticking sound is normal).
  - Check for any blockages in the air intake or exhaust system.
- **Unusual Odor/Smoke:**

- Immediately shut down the unit.
- Check for exhaust leaks or improper routing.
- Ensure proper ventilation of the operating area.

- **Error Codes:** Refer to the specific error codes displayed on the LCD panel in the detailed manual for specific troubleshooting steps.

8. Specifications

Feature	Detail
Brand	HCALORY
Model	SKUK63125
Item Weight	20.2 pounds
Package Dimensions	18.42 x 16.5 x 11.89 inches
Country of Origin	China
Item Model Number	Bluetooth
Exterior	Painted
Manufacturer Part Number	LuneG160
Heated	Radiant
Special Features	App, Portable
ASIN	B0D4529QY2
Date First Available	May 14, 2024

9. Warranty and Support

For warranty information or technical support, please refer to the contact details provided in the original product packaging or visit the official HCALORY website. Keep your purchase receipt for warranty claims.

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