HCALORY Z8FeFZ8pP

HCALORY (KROAK) 12V/24V Portable Diesel Parking Heater User Manual

Model: Z8FeFZ8pP | Brand: HCALORY

Introduction

This manual provides comprehensive instructions for the safe and efficient operation, installation, and maintenance of your HCALORY (KROAK) 12V/24V Portable Diesel Parking Heater. Please read this manual thoroughly before using the device to ensure proper function and to prevent damage or injury. Keep this manual for future reference.



Image: The HCALORY (KROAK) 12V/24V Portable Diesel Parking Heater, a compact all-in-one unit with an integrated handle, control panel, and air outlets. It is shown with a remote control and a smartphone displaying the control app.

Safety Information

Always adhere to the following safety guidelines to prevent personal injury or damage to the heater.

- Ensure adequate ventilation when operating the heater, especially in enclosed spaces.
- Do not block the air intake or exhaust vents.
- Use only diesel fuel as specified. Do not use gasoline or other volatile fuels.
- Keep flammable materials at a safe distance from the heater.
- Do not operate the heater if it is damaged or malfunctioning.
- Disconnect power before performing any maintenance or cleaning.

- Keep out of reach of children and pets.
- The heater is equipped with multiple security protections including overheating, short-circuit, reverse connection, and over-voltage protection. However, always exercise caution.



Image: Diagram illustrating the multiple security protections of the heater: Over-heating Protection, Short-circuit Protection, Reverse Connection Protection, and Over Voltage Protection, ensuring safe operation.

Product Overview and Components

Familiarize yourself with the main components of your diesel parking heater.

Main Unit: Contains the heating element, fuel pump, and control system.

LCD Control Panel: For direct control and monitoring of the heater's status.

Remote Control: Wireless control for convenient operation from a distance.

Fuel Tank: Integrated 5-liter tank for diesel fuel.

Air Intake/Exhaust Ports: For combustion air and exhaust gases.

Hot Air Outlet: Where heated air is expelled.

Power Input: Supports 12V/24V DC and 220-240V AC power (adapter not included for AC).

Toolbox Design: Compact and portable for easy transport.



Image: A detailed view highlighting key design features: easy opening for accessories, handheld design for portability, a 5-liter fuel tank, the side exhaust pipe, air inlet, and support for both AC and DC power supply.



Image: An exploded view diagram illustrating the internal structure of the heater, including the handles, air inlet, oil pump, control panel, air outlet, glow plug, combustion chamber, control box, and flame-retardant fan.

Setup and Installation

Follow these steps for initial setup and placement of your heater.

1. **Unpacking:** Carefully remove all components from the packaging. Inspect for any damage.
2. **Fueling:** Fill the integrated 5-liter fuel tank with clean diesel fuel. Ensure the cap is securely tightened.
3. **Placement:** Place the heater on a stable, non-flammable surface. Ensure there is sufficient clearance around the air intake and exhaust ports for proper airflow. Avoid placing it directly on carpet or other soft materials that could block ventilation.
4. **Exhaust Management:** Ensure the exhaust pipe is directed away from any combustible materials and living spaces. Proper ventilation of exhaust gases is critical.
5. **Power Connection:** Connect the heater to a suitable 12V/24V DC power source (e.g., vehicle battery) or a 220-240V AC

power source using an appropriate adapter (not included). Ensure the power supply matches the heater's voltage requirements.

6. **First Start-up:** During the first start-up, it may take several attempts for the fuel to prime the system. This is normal.

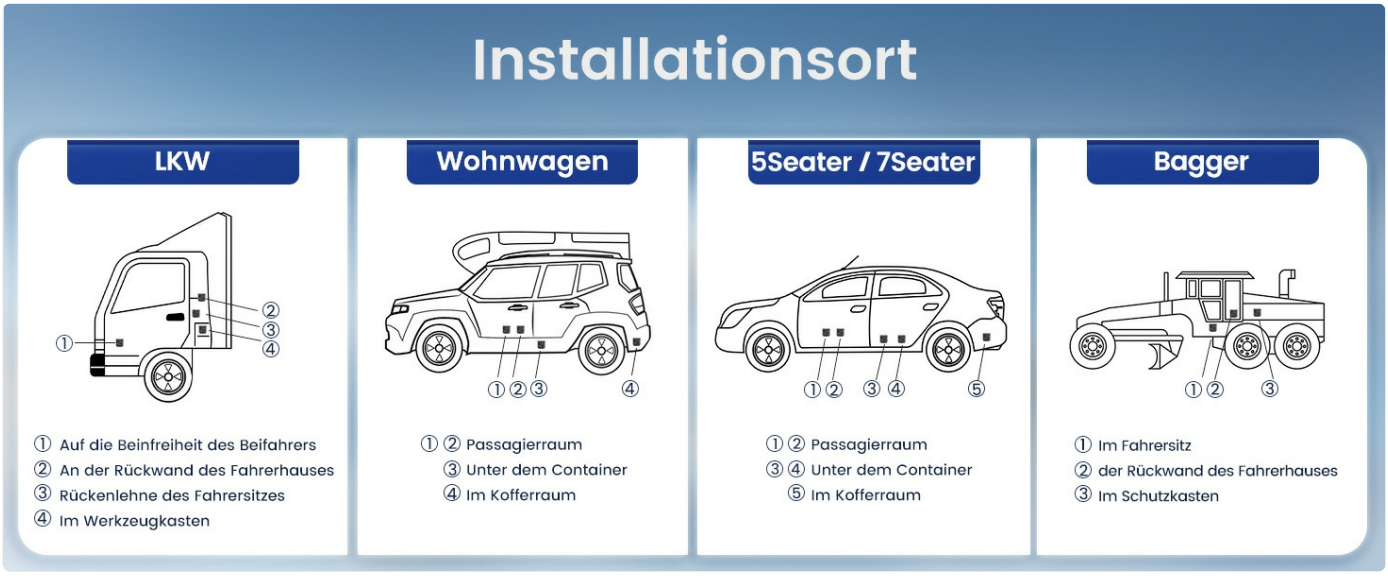


Image: Illustrations depicting various installation locations for the heater, including inside a truck cabin (passenger side, rear wall, driver's seat backrest, toolbox), an RV (passenger compartment, under container, trunk), a 5/7-seater car (passenger compartment, under container, trunk), and an excavator (driver's seat, rear wall of cabin, protection box).

Operating Instructions

Your HCALORY diesel heater offers multiple control options for convenience.

1. LCD Control Panel Operation

The integrated LCD panel allows direct control and monitoring.



Image: This image illustrates the three primary methods of controlling the heater: directly via the LCD Panel, remotely using a Smartphone APP, and with the included Remote Control.



Image: A close-up of the LCD monitor and remote control, labeling the functions of the buttons: SETUP-TASTE (Setup Button), OK-TASTE (OK Button), PLUS-TASTE (Plus Button), EIN/AUS-TASTE (ON/OFF Button), and MINUS-TASTE (Minus Button).

- **Power On/Off:** Press the ON/OFF button to start or stop the heater.
- **Temperature Adjustment:** Use the PLUS (+) and MINUS (-) buttons to set the desired temperature.
- **Mode Selection:** Use the SETUP button to cycle through different modes or settings.
- **Confirmation:** Press the OK button to confirm selections.
- **Display:** The LCD screen shows current temperature, operating mode, fan speed, and error codes.

2. Remote Control Operation

The remote control provides convenient wireless operation up to 30 meters.

- **Power On/Off:** Use the ON/OFF buttons on the remote.
- **Temperature/Gear Adjustment:** Use the + and - buttons to adjust settings.
- Ensure the remote control has working batteries.

3. Bluetooth APP Control

Download the dedicated smartphone application for advanced control features.



Image: An illustration of the smartphone app interface, highlighting its smart Bluetooth control features: Altitude Mode, Real-time Temperature View, Timer Function, Temperature Setting, Fan Mode, Gear Setting, and Language Setting.



Image: A visual representation of the Bluetooth App Control, available for both iOS and Android devices, demonstrating its functionalities such as language switching, gear setting, temperature setting, error code display, side display, and an on/off switch.

- **Download:** Search for the HCALORY or KROAK heater app on your smartphone's app store.
- **Pairing:** Follow the in-app instructions to pair your smartphone with the heater via Bluetooth.
- **Features:** The app allows for timing functions, precise temperature setting, gear adjustment, real-time temperature view, fan mode control, language settings, and error code display.

Special Features:

- **Fast Heating:** The heater can warm up an environment quickly, reaching desired temperatures in approximately 10 minutes.
- **Energy Saving:** Optimized fuel consumption between 0.15 L/h and 0.44 L/h.
- **Plateau Mode:** Automatically adjusts the air-to-diesel fuel ratio for full combustion, suitable for altitudes up to 5,500 meters.



Image: A graph illustrating the rapid heating capability and low energy consumption of the KROAK heater, showing it reaches 100°C significantly faster than other heaters, with a lower fuel consumption rate.



Image: A visual representation of the heater's Plateau Mode, which intelligently adjusts the air-to-diesel fuel ratio to ensure continuous warmth and efficient operation even in high altitude environments, up to 5.5 kilometers.

Maintenance

Regular maintenance ensures optimal performance and longevity of your heater.

- **Cleaning:** Regularly wipe down the exterior of the heater with a damp cloth. Do not use abrasive cleaners or solvents.
- **Air Vents:** Ensure air intake and exhaust vents are free from dust, debris, or obstructions. Use a soft brush or vacuum cleaner to clear them.
- **Fuel Filter:** Check and clean or replace the fuel filter periodically to prevent fuel system blockages.
- **Spark Plug:** Inspect the glow plug for carbon buildup and clean or replace as necessary.
- **Fuel Quality:** Always use high-quality, clean diesel fuel to prevent issues with the fuel pump and combustion chamber.
- **Storage:** When not in use for extended periods, drain the fuel tank and store the heater in a dry, cool place.

Troubleshooting

Refer to this section for common issues and their solutions.

Problem	Possible Cause	Solution
Heater does not start.	No power, low fuel, air in fuel line, faulty glow plug.	Check power connection, refill fuel tank, prime fuel system (may require several start attempts), inspect/replace glow plug.
Low heat output.	Blocked air intake/exhaust, low fuel quality, incorrect settings.	Clear obstructions, use clean diesel, adjust temperature/gear settings.
Excessive smoke/odor.	Poor combustion, clogged exhaust, low fuel quality.	Ensure proper ventilation, check exhaust for blockages, use clean diesel. If problem persists, seek professional assistance.
Remote/APP not connecting.	Out of range, battery low (remote), Bluetooth off (phone), pairing issue.	Move closer to heater, replace remote batteries, enable Bluetooth on phone, re-pair device via APP.
Error code displayed.	Specific malfunction.	Refer to the APP or a more detailed service manual for specific error code meanings and solutions. Common errors relate to overheating, low voltage, or fuel issues.

Specifications

Feature	Detail
Brand	HCALORY (KROAK)
Model Number	Z8FeFZ8pP
Power Output	8 KW
Voltage	12V / 24V DC (220-240V AC compatible with adapter)
Fuel Type	Diesel
Fuel Consumption	0.15 L/h - 0.44 L/h
Fuel Tank Volume	5 Liters
Control Methods	LCD Panel, Remote Control, Bluetooth APP
Altitude Mode	Up to 5,500 meters
Included Components	Heater unit, Toolbox

Warranty and Support

For warranty information and technical support, please refer to the purchase documentation or contact HCALORY customer service. Keep your proof of purchase for any warranty claims.

Contact Information: Please visit the official HCALORY website or refer to the contact details provided with your product packaging for support.

Returns: As per standard policy, returns for defective items may require shipping back to the manufacturer. Please consult your seller's return policy.

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