HCALORY HC-A1

HCALORY 12V Portable Diesel Air Heater User Manual

Model: HC-A1 | Brand: HCALORY

1. Introduction

This manual provides essential information for the safe and efficient operation of your HCALORY 12V Portable Diesel Air Heater. This all-in-one unit is designed to provide reliable heating for various applications, including cars, trucks, boats, RVs, motor-homes, and campers. It features a compact toolbox design, quiet operation, and multiple control options.
Key features include:

- Certified & Safe: Complies with safety regulations, equipped with automatic shutdown and overload protection.
- Compact & Portable Toolbox Design: Easy to carry and disassemble for organized tool storage and maintenance.
- Quiet Operation: Engineered for low noise output, suitable for residential and noise-sensitive areas.

2. Safety Information

WARNING: Always read and understand all safety instructions before operating this device.

- Ensure proper ventilation when operating the heater, especially during initial startup, to allow any smoke to dissipate.
- Always use the correct power source (12V) with adequate amperage (at least 15-20A rating) to prevent overload, especially during startup.
- Do not operate the heater in enclosed, unventilated spaces without proper exhaust routing. Carbon monoxide is a colorless, odorless gas that can be fatal.
- Always use a carbon monoxide detector when operating the heater in any enclosed space.
- Ensure all fuel lines and connections are secure and free from leaks. Regularly inspect for any damage.
- Keep flammable materials away from the heater's exhaust and hot air outlet.
- The exhaust pipe and muffler can become extremely hot. Avoid direct contact to prevent burns.
- The unit is equipped with automatic shutdown and overload protection for your safety. Do not bypass these features.

3. What's in the Box

Your HCALORY Diesel Air Heater package includes the following components:

- 1 x Car heater unit
- 1 x Remote control
- 1 x Silencer
- 1 x Tubing
- 1 x Harness
- 1 x Wind head
- 1 x Air Filter
- 1 x Exhaust pipe
- 1 x Inlet air pipe
- 1 x Outlet air pipe
- 1 x Fuel Tank
- 1 set Screw accessory kit

4. Setup

The HCALORY Diesel Air Heater is designed for relatively straightforward setup. It is recommended to watch detailed video tutorials for comprehensive guidance, especially for first-time users.

4.1 Unboxing and Component Overview

Upon receiving your heater, carefully unbox all components and verify against the 'What's in the Box' list.



Figure 4.1: HCALORY 12V Portable Diesel Air Heater, showcasing its compact design and control options.



Figure 4.2: Detailed view of the heater's components and access points.

4.2 Connecting Components

Follow these steps to connect the necessary components:

1. **Exhaust Pipe and Silencer:** Connect the flexible exhaust pipe to the heater's exhaust port. Secure it with the provided clamps. Attach the silencer to the end of the exhaust pipe. Ensure the exhaust is routed safely outside the vehicle or tent to prevent carbon monoxide buildup.
2. **Air Intake Pipe:** Connect the air intake pipe to the designated port on the heater. This pipe draws air for the combustion process.
3. **Warm Air Outlet Pipe:** Attach the warm air outlet pipe to the heater's hot air discharge port. This pipe directs the heated air into your desired space.
4. **Fuel Tank:** Securely attach the fuel tank to the side of the heater unit using the provided screws and brackets. Ensure the fuel line is properly connected to the heater's fuel pump inlet. For first-time use, allow kerosene/diesel to be pulled all the way into the burner.
5. **Power Connection:** Connect the heater to a 12V power source. Ensure your power source can provide sufficient amperage (15-20A minimum) to handle the heater's startup current draw.

4.3 Installation Location

Choose an appropriate and safe location for your heater. The compact design allows for versatile placement.



Figure 4.3: Recommended installation locations for various vehicles.

4.4 Setup Videos

Watch these official seller videos for detailed setup instructions:

Video: Toolbox Diesel Heater Installation

This video provides a step-by-step guide on how to install the HCALORY Toolbox Diesel Heater, covering all necessary connections and components.

Video: How to install toolbox diesel heater

A detailed installation tutorial for the toolbox diesel heater, demonstrating the assembly process.

5. Operating Instructions

Your HCALORY Diesel Air Heater offers multiple convenient ways to control its operation.



Figure 5.1: Control options for the HCALORY Diesel Air Heater.

5.1 LCD Control Panel

The integrated LCD panel provides direct control over the heater's functions. Use the knob and buttons to navigate menus, adjust temperature, set timers, and monitor fuel levels.

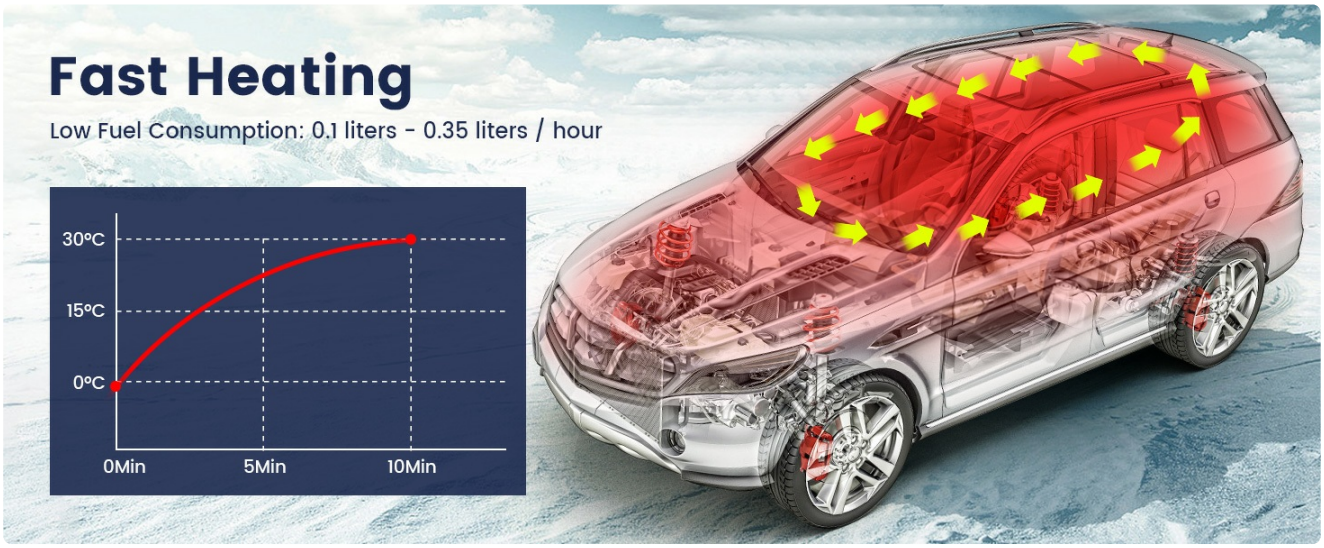


Figure 5.2: LCD Monitor interface.

5.2 Remote Control

The included remote control allows for convenient operation from a distance, enabling you to adjust settings without directly interacting with the unit.

5.3 Bluetooth APP Control

For enhanced control and monitoring, download the dedicated Bluetooth APP (available for iOS and Android devices). The app allows for language switching, gear setting, temperature setting, fault code display, and ON/OFF switching.



Figure 5.3: Bluetooth APP control interface.

Video: Smart Bluetooth Switch APP Operation

This video demonstrates how to use the smart Bluetooth switch app to operate the heater, including connecting to your mobile device and adjusting settings.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your HCALORY Diesel Air Heater.

- **Fuel Filter:** Periodically check and clean or replace the fuel filter to ensure clean fuel delivery to the burner. Access to internal components for servicing is designed to be straightforward.
- **Air Filter:** Inspect and clean the air filter regularly to maintain proper airflow for combustion and heating.
- **General Cleaning:** Keep the exterior of the unit clean and free from dust and debris.
- **Connections:** Regularly check all hose clamps, fuel line connections, and electrical connections to ensure they are secure and free from leaks or damage.

7. Troubleshooting

If you encounter issues with your HCALORY Diesel Air Heater, consider the following common troubleshooting steps:

- **No Power/Unit Not Starting:**
  - Check the power connection to ensure it is secure and the battery has sufficient charge.
  - Verify that your power source meets the minimum amperage requirements (15-20A). Portable power stations with 10A cigarette plugs may not be sufficient for startup.
- **Smoke/Unusual Odor:**
  - During initial startup, some smoke is normal as residual manufacturing oils burn off. Ensure adequate ventilation.
  - If excessive smoke persists, check fuel quality and ensure proper fuel priming.
  - Ensure exhaust is properly routed outside and not blocked.
- **Error Codes:**
  - Refer to the LCD display or Bluetooth app for specific error codes (e.g., E09). Consult the detailed manual (if provided separately) or contact customer support for specific error code meanings and solutions. Common issues can include faulty boards or temperature sensors.
- **Insufficient Heat:**
  - Ensure the air intake and outlet are clear of obstructions.
  - Check fuel level and ensure the fuel line is not kinked or blocked.
  - Verify the temperature setting on the control panel or app.

8. Specifications

Attribute	Value
Manufacturer	HCALORY
Brand	HCALORY
Model	HC-A1

Item Weight	21 pounds
Package Dimensions	21.25 x 19.25 x 11.5 inches
Country of Origin	China
Item model number	HC-A1
Exterior	Painted
Manufacturer Part Number	Heater9485598
Date First Available	November 12, 2022

9. Warranty and Support

For warranty information, technical support, or any product-related inquiries, please refer to the contact information provided with your purchase or visit the official HCALORY website. Keep your proof of purchase for warranty claims.

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Question

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

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question