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HCALORY LuneG91

HCALORY 48 Quart Car Refrigerator User Manual

Model: LuneG91

Portable Freezer with 12/24V DC & 110/240V AC

1. Introduction

Thank you for choosing the HCALORY 48 Quart Car Refrigerator. This portable compressor cooler is designed for versatile use in vehicles, RVs, trucks, and homes, providing efficient cooling and freezing for your food and beverages. With its robust design, dual power modes, and convenient features, it is an ideal companion for camping, road trips, and daily use. Please read this manual thoroughly before operation to ensure proper use, maintenance, and safety.

2. Safety Instructions

- Ensure the refrigerator is placed on a stable, level surface to prevent tipping.
- Maintain adequate ventilation around the unit. Do not block the ventilation openings.
- Do not operate the appliance if the power cord or plug is damaged.
- Avoid placing the refrigerator in direct sunlight or near heat sources.
- Do not immerse the unit in water or expose it to heavy rain.
- Always disconnect power before cleaning or performing maintenance.
- Keep out of reach of children.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

3. Product Overview

3.1 Key Features

- **Quick Cooling:** Equipped with a powerful compressor, capable of cooling from 25°C (77°F) to 0°C (32°F) in approximately 25 minutes.
- **Dual Power Modes:** Operates on 12/24V DC for car/truck/RV use and 110/240V AC for home use.
- **Partition Design:** Features a removable middle clapboard to create two compartments. The temperature in the smaller compartment (right side) will be approximately 10°C lower than the larger compartment (left side) when the partition is in place. This allows for a differential cooling effect, but it is not a true independently controlled dual-zone

system.

- **Low Noise Operation:** Designed to operate quietly at approximately 35dB, ensuring minimal disturbance.
- **Portable Design:** Includes wheels and a retractable handle for easy transport.
- **Anti-Shaking:** Engineered to withstand vibrations and operate effectively even at a 30° incline, suitable for off-road conditions.
- **Control Methods:** Can be controlled via the integrated control panel or a dedicated mobile application (Bluetooth connection required).

3.2 Components and Controls



Figure 1: HCALORY 48 Quart Car Refrigerator with its lid open, showcasing its spacious interior filled with various food items and beverages.



Figure 2: Detailed dimensions of the refrigerator's interior and exterior, illustrating its 45L capacity, capable of holding 48 cans of 330ml cola, 28 bottles of 550ml drinks, or 15 bottles of 750ml red wines.



Figure 3: Overview of the control panel, highlighting buttons for temperature adjustment (increase/reduce), power on/off, mode setting (Max/Eco), and display for temperature and Bluetooth connection status.

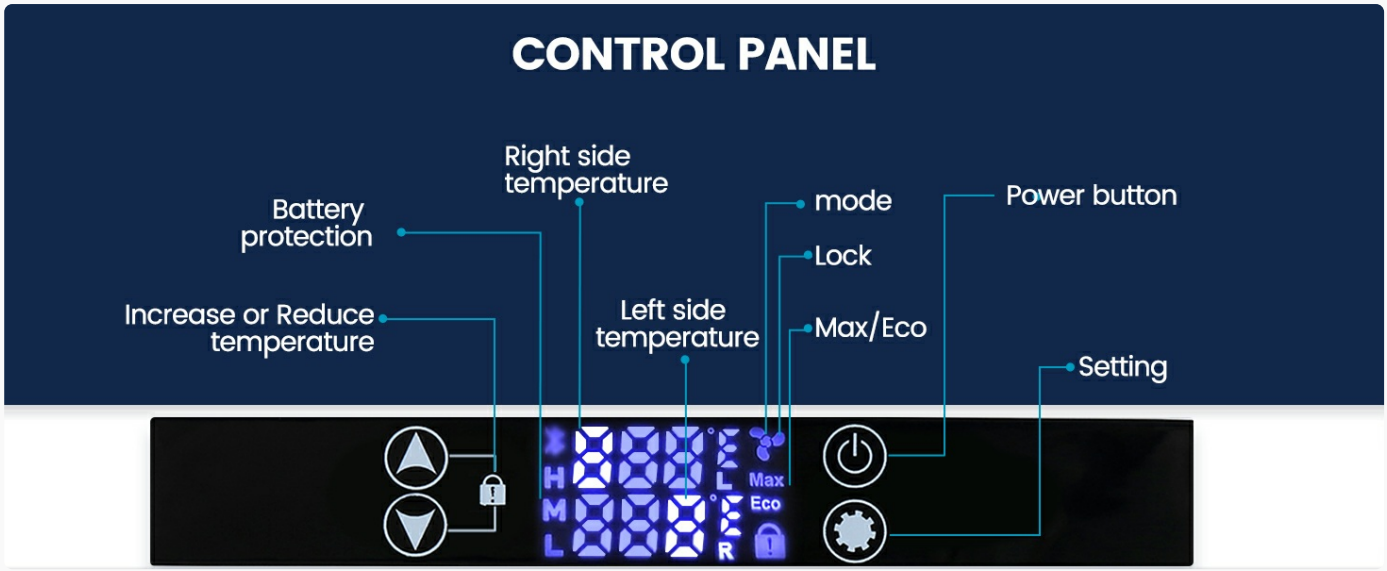


Figure 4: An enhanced view of the control panel, detailing indicators for battery protection (H/M/L), left and right side temperatures, mode

settings (Max/Eco), lock function, and power button.

4. Setup

4.1 Unpacking

Carefully remove the refrigerator from its packaging. Inspect for any damage during transit. Retain the packaging for future storage or transport.

4.2 Placement

Place the refrigerator on a firm, level surface. Ensure there is at least 10 cm (4 inches) of space around all sides for proper ventilation. Avoid placing it in direct sunlight or near heat-emitting appliances.

4.3 Power Connection



Figure 5: The refrigerator supports both 12-24V DC power (via cigarette lighter) for vehicle use and 120-240V AC power (via standard wall socket) for home use.

- **DC Power (12/24V):** Connect the DC power cable to the refrigerator's DC input port and then to your vehicle's cigarette lighter socket.
- **AC Power (110/240V):** Connect the AC power adapter to the refrigerator's AC input port, then plug the adapter into a standard wall outlet.

Allow the refrigerator to stand upright for at least 6 hours before initial use after transport to allow the compressor lubricant to settle.

5. Operating Instructions

5.1 Powering On/Off

Press the **Power button** (*circle with vertical line*) on the control panel to turn the unit on or off.

5.2 Temperature Adjustment



Figure 6: The refrigerator features a partition design, allowing for different temperature zones. Recommended temperatures for various items are shown: Ice cream at -4°F, Beef at 0°F, Fruit at 32°F, Skin care at 42°F, Milk at 45°F, and Beer at 50°F.



Figure 7: The removable middle clapboard allows for a temperature differential. When installed, the right compartment will be approximately 10°C (18°F) warmer than the left compartment, which acts as the primary cooling/freezing zone.

Use the **Up** (*triangle pointing up*) and **Down** (*triangle pointing down*) buttons to adjust the desired temperature. The display will show the current temperature. The temperature range is -20°C to 20°C (-4°F to 68°F).
Note on Partition Design: The refrigerator operates with a single compressor. The removable partition creates a temperature differential, where the smaller compartment (right side) will be warmer than the main compartment (left side). It is not a true dual-zone system with independent temperature controls for each compartment.

5.3 Mode Settings (MAX/ECO)

Press the **Setting button** (*gear icon*) to cycle through the operating modes:

- **MAX Mode:** Provides maximum cooling power for rapid temperature reduction.
- **ECO Mode:** Energy-saving mode, ideal for maintaining temperature with lower power consumption.

5.4 Battery Protection Settings

The refrigerator features a battery protection system to prevent your vehicle's battery from draining. Press and hold the **Setting button** (*gear icon*) for 3 seconds to enter the battery protection setting. Use the**Up** or **Down** buttons to select from three levels:

- **H (High):** Highest protection, the refrigerator will cut off power at a higher voltage to protect the battery. Recommended for vehicle battery.
- **M (Medium):** Medium protection.
- **L (Low):** Lowest protection, allows the refrigerator to run longer before cutting off power. Recommended for external power banks or deep cycle batteries.

5.5 App Control (Bluetooth)

The refrigerator supports control via a mobile application. Download the HCALORY app from your smartphone's app store. Enable Bluetooth on your phone and follow the app's instructions to pair with your refrigerator. This allows for convenient temperature adjustment and monitoring without directly interacting with the control panel.

6. Maintenance

6.1 Cleaning

- Always unplug the refrigerator before cleaning.

- Wipe the interior and exterior surfaces with a damp cloth and mild detergent.
- Do not use abrasive cleaners or harsh chemicals.
- Ensure the unit is completely dry before reconnecting power.

6.2 Storage

When not in use for extended periods, ensure the refrigerator is clean and dry. Store it in a cool, dry place with the lid slightly ajar to prevent odors and mildew.

7. Troubleshooting

If you encounter issues with your HCALORY refrigerator, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Refrigerator not turning on.	No power supply; Damaged power cord/adapter; Blown fuse in vehicle.	Check power connection; Try a different power outlet/vehicle socket; Inspect power cord for damage; Check vehicle's fuse box.
Not cooling sufficiently.	Lid not closed properly; Insufficient ventilation; Ambient temperature too high; ECO mode selected; Overloaded with warm items.	Ensure lid is sealed; Clear ventilation areas; Move to a cooler environment; Switch to MAX mode; Allow time for cooling, avoid overloading.
Display error codes (e.g., E1, E2).	Low voltage; Sensor error; Compressor fault.	Check power source voltage; Restart the unit; If error persists, contact customer service.
Bluetooth connection issues.	Bluetooth not enabled on phone/refrigerator; App not installed correctly; Interference.	Ensure Bluetooth is active on both devices; Reinstall the app; Try pairing in a different location.
Temperature difference between compartments not as expected.	Misunderstanding of partition function; Partition not installed correctly.	Understand that it's a single compressor system with a differential, not independent dual zones. Ensure partition is fully seated.

8. Specifications

Feature	Specification
Model	LuneG91
Capacity	48 Quarts (approx. 45 Liters)
Power Input	DC 12V/24V, AC 110V/240V
Rated Power	60W (MAX Mode), 45W (ECO Mode)
Temperature Range	-20°C to 20°C (-4°F to 68°F)
Noise Level	Approx. 35dB

Feature	Specification
Item Weight	36.6 pounds (16.62 kg)
Product Dimensions	27.55 x 20.59 x 17.51 inches (70 x 52.3 x 44.5 cm)
Certification	UL

9. Warranty and Support

HCALORY is committed to providing quality products and customer satisfaction. If you have any questions regarding the operation, maintenance, or troubleshooting of your HCALORY 48 Quart Car Refrigerator, please contact our customer service team. We aim to provide professional technical support within 24 hours.
For support, please refer to the contact information provided with your purchase or visit the official HCALORY website.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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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.

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