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HCALORY 28L

HCALORY 28L Portable Compressor Refrigerator User Manual

Model: 28L | Brand: HCALORY

1. Product Overview

The HCALORY 28L Portable Compressor Refrigerator is designed for versatile cooling and freezing needs, ideal for use in cars, trucks, RVs, boats, and during camping or road trips. It features a powerful compressor for rapid cooling and efficient energy consumption, ensuring your food and beverages remain at optimal temperatures.



Figure 1: HCALORY 28L Portable Compressor Refrigerator with various contents.

Key Features:

- **Fast Cooling:** Capable of reaching -20°C (-4°F) within 4 hours, and freezing 3 liters of water in 3 hours, fully frozen in 5 hours.
- **Energy Efficiency (ECO Mode):** Low power consumption, less than 0.36 kWh per day, with automatic start/stop functionality to maintain temperature efficiently.
- **Durable Construction:** Designed to be shake-proof, shock-proof, and fall-proof, ensuring stable operation even on bumpy roads.
- **User-Friendly Interface:** Equipped with a large digital display for real-time temperature and mode monitoring, recessed handles for comfortable carrying, and an integrated LED light for visibility in low-light conditions.

- **Multiple Power Options:** Supports 12V/24V DC power for vehicles and 100-240V AC power for home use, compatible with solar panels and power stations.

2. Package Contents

Upon unboxing your HCALORY Portable Compressor Refrigerator, please ensure all components listed below are present. Refer to the unboxing video for a visual guide.

Your browser does not support the video tag.

Video 1: Unboxing the HCALORY Portable Compressor Refrigerator. This video demonstrates the contents of the package and initial setup steps.

- HCALORY 28L Portable Compressor Refrigerator Unit
- AC Adapter
- DC Power Cord (for 12V/24V car use)
- User Manual

3. Setup

Before first use, please follow these setup instructions carefully:

1. **Unpack the Refrigerator:** Carefully remove the refrigerator from its packaging. Retain all packaging materials for future transport or storage.
2. **Allow to Stand:** After receiving and unpacking the refrigerator, please leave it standing upright for more than 12 hours before plugging it in. This allows the refrigerant to settle, ensuring optimal performance and longevity.
3. **Connect Power:**
    - For home use, connect the AC adapter to the refrigerator's power socket and then plug it into a standard 100-240V AC wall outlet.
    - For car or portable use, connect the DC power cord to the refrigerator's power socket and then to your vehicle's 12V/24V DC outlet (cigarette lighter socket) or a compatible power station.
4. **Initial Cleaning:** Before placing any items inside, wipe the interior with a damp cloth and mild detergent. Ensure it is completely dry before use.

4. Operating Instructions

The HCALORY refrigerator features an intuitive digital control panel. Refer to Figure 2 for button identification.



Figure 2: Digital Control Panel and Buttons.

4.1 Power On/Off

To turn the refrigerator on or off, press and hold the**Power button** (📘) for 3 seconds. The digital display will illuminate, showing the current internal temperature.

4.2 Temperature Adjustment

The refrigerator can maintain temperatures between -20°C and 20°C (-4°F to 68°F).

- Press the **+ button** (📘) to increase the temperature.
- Press the **- button** (📘) to decrease the temperature.
- The display will flash while adjusting and then stabilize at the new set temperature.



Figure 3: Temperature range for keeping items fresh or frozen.

4.3 MAX/ECO Mode Selection

The refrigerator offers two operating modes:

- **MAX Mode:** Provides maximum cooling power for rapid temperature reduction.
- **ECO Mode:** Optimizes energy consumption for extended operation, ideal for battery-powered scenarios.

To switch between MAX and ECO modes, touch the**Set Key button** (). The display will indicate the active mode.



Figure 4: ECO vs. MAX Mode comparison.

4.4 Child Lock Function

The child lock prevents accidental changes to settings.

- **To activate:** Press and hold the **Induction Lighting / Child Lock button** (📘) for 3 seconds. A lock icon will appear on the display, and no other buttons will respond.
- **To deactivate:** Press and hold the **Induction Lighting / Child Lock button** (📘) for 3 seconds again. The lock icon will disappear, and buttons will be active.

4.5 Battery Protection Setting

This feature protects your vehicle's battery from excessive discharge. There are typically three levels: H (High), M (Medium), L (Low).

- **To adjust:** Press and hold the **Set Key button** (📘) for 3 seconds until the temperature indicator flashes. Then, press the **Induction Lighting / Child Lock button** (📘) for 1 second. Use the **+** or **-** buttons to cycle through H, M, L settings.
- **H (High):** Recommended for vehicle battery connection. The refrigerator will stop operating at a higher battery voltage to prevent draining the car battery.
- **M (Medium):** A balanced setting for general use.
- **L (Low):** Recommended when connected to an external power station or a dedicated leisure battery, allowing the refrigerator to operate at a lower battery voltage before cutting off.

4.6 Preset Temperature Function

The refrigerator has preset temperature options for quick selection.

- Touch the **Mode button** (📘) to quickly switch between and set 4 different preset temperatures.

4.7 Usage Scenarios

The HCALORY refrigerator is designed for various applications:



Figure 5: Multiple power supply methods for versatile use.



Figure 6: Ideal for outdoor activities like camping and picnics.



Figure 7: Perfect companion for RV and road trips.

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Video 2: 3D overview of the HCALORY Portable Compressor Refrigerator, showcasing its features and various capacities.

5. Maintenance

Regular maintenance ensures the longevity and efficient operation of your refrigerator.

- **Cleaning:** Regularly clean the interior and exterior surfaces with a soft cloth and mild detergent. Avoid abrasive cleaners or solvents. Ensure the unit is unplugged before cleaning.
- **Condenser Cleaning:** Periodically check and clean the condenser coils (located at the back or side, usually behind a vent) to remove dust and debris. A soft brush or vacuum cleaner can be used. This improves cooling efficiency.
- **Defrosting:** If ice builds up inside, turn off the unit and allow the ice to melt naturally. Do not use sharp objects to remove ice. Wipe away melted water with a cloth.
- **Storage:** When not in use for extended periods, ensure the refrigerator is clean and dry. Leave the lid slightly ajar to prevent odors and mold growth. Store in a dry, well-ventilated area.
- **Ventilation:** Ensure adequate ventilation around the refrigerator during operation. Do not block air vents.

6. Troubleshooting

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

Problem	Possible Cause	Solution
Refrigerator not turning on.	No power supply; loose connection; power button not held long enough.	Check power cord connection; ensure power source is active; press and hold power button for 3 seconds.
Not cooling effectively.	Blocked ventilation; excessive items inside; high ambient temperature; door not sealed properly.	Ensure proper ventilation; do not overfill; operate in a cooler environment if possible; check door seal for damage.

Problem	Possible Cause	Solution
Display shows error code.	Internal fault; sensor issue.	Refer to specific error code in a more detailed technical manual (if available) or contact customer support.
Excessive noise.	Unit not level; fan obstruction; normal compressor operation.	Place on a flat, stable surface; check for obstructions around fan; some noise is normal during compressor cycles.
Battery protection cuts off too soon.	Battery protection setting is too high (e.g., H mode).	Adjust battery protection setting to M or L if using with a robust external battery or power station.

If the problem persists after attempting these solutions, please contact HCALORY customer support for further assistance.

7. Specifications

Brand	HCALORY
Model	28L
Product Dimensions	65.3 x 43.1 x 42 cm (25.7 x 17.0 x 16.5 inches)
Capacity	28 Liters
Freezer Compartment Volume	28 Liters
Installation Type	Freestanding
Form Factor	Compact
Number of Shelves	1
Cooling Method	Compressor
Refrigerant	R-600A or R-134A
Power Input	12V/24V DC, 100-240V AC
Temperature Range	-20°C to 20°C (-4°F to 68°F)
Noise Level	Typically below 45dB (in ECO mode)
Country of Origin	China



Figure 8: Product dimensions and capacity overview.

8. Warranty and Support

HCALORY products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please refer to the warranty card included in your package or visit the official HCALORY website. Please have your product model and purchase date ready when contacting support.

For general inquiries or to explore other products, you can visit the HCALORY store on Amazon: HCALORY Amazon Store.

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