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VEVOR MCD30D1

VEVOR 12 Volt Car Refrigerator 31.7QT/30L User Manual

Model: MCD30D1

1. Introduction

Thank you for choosing the VEVOR 12 Volt Car Refrigerator. This portable electric freezer is designed to keep your food and beverages chilled or frozen during travel, camping, RV trips, and other outdoor activities. With its robust compressor and versatile power options, it offers reliable cooling performance. Please read this manual thoroughly before use to ensure proper operation and maintenance.

2. Safety Instructions

- Ensure the power supply voltage matches the refrigerator's requirements (12/24V DC or 100-240V AC).
- Do not operate the refrigerator if the power cord is damaged. Contact customer support for replacement.
- Keep the ventilation openings clear of obstructions to ensure proper airflow and prevent overheating.
- Avoid placing the refrigerator in direct sunlight or near heat sources.
- Do not immerse the refrigerator in water or expose it to heavy rain.
- Unplug the unit before cleaning or performing any maintenance.
- 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. Package Contents

Verify that all items are present in the package:

- 1 x Car Refrigerator
- 1 x Power Cord (AC)
- 1 x Adapter (AC to DC)
- 1 x Cigarette Lighter Cord (DC)
- 1 x User Manual



Image: The VEVOR 31.7QT Car Refrigerator shown with its dimensions and the included accessories: cigarette lighter cord, AC adapter, power cord, and user manual.

4. Product Overview

The VEVOR 31.7QT/30L Car Refrigerator is designed for portability and efficient cooling. Key features include:

- **Capacity:** 31.7 Quarts / 30 Liters
- **Adjustable Temperature Range:** -4°F to 68°F (-20°C to 20°C)
- **Power:** 60W
- **Voltage:** 12/24V DC and 100-240V AC
- **Noise Level:** ≤45dB
- **Main Material:** PP + HDPE
- **Net Weight:** 25.8 lbs (11 kg)
- **Product Dimensions:** 22.52"D x 14.09"W x 16.81"H (572 x 358 x 427 mm)



Image: A clear view of the VEVOR 31.7QT Car Refrigerator, showcasing its compact and portable design.



Image: The digital display of the car refrigerator showing the adjustable temperature range from -4°F to 68°F, suitable for both freezing and refrigeration.

5. Setup

1. **Unpacking:** Carefully remove the refrigerator from its packaging. Retain packaging for future transport or storage.

2. **Placement:** Place the refrigerator on a flat, stable surface. Ensure there is at least 4 inches (10 cm) of space around all sides for adequate ventilation. Avoid placing it on soft surfaces that could block vents.
3. **Power Connection:**
    - **For Car Use (DC 12/24V):** Connect the cigarette lighter cord to the refrigerator's DC input port and then plug the other end into your vehicle's cigarette lighter socket.
    - **For Home Use (AC 100-240V):** Connect the AC adapter to the refrigerator's AC input port, then connect the power cord to the adapter and plug it into a standard wall outlet.



Image: Illustration showing the two power supply options: connecting via a DC 12/24V car cigarette lighter wire and via an AC 100-240V power adapter for home use.

6. Operating Instructions

6.1 Control Panel Functions

The control panel allows you to manage the refrigerator's settings:

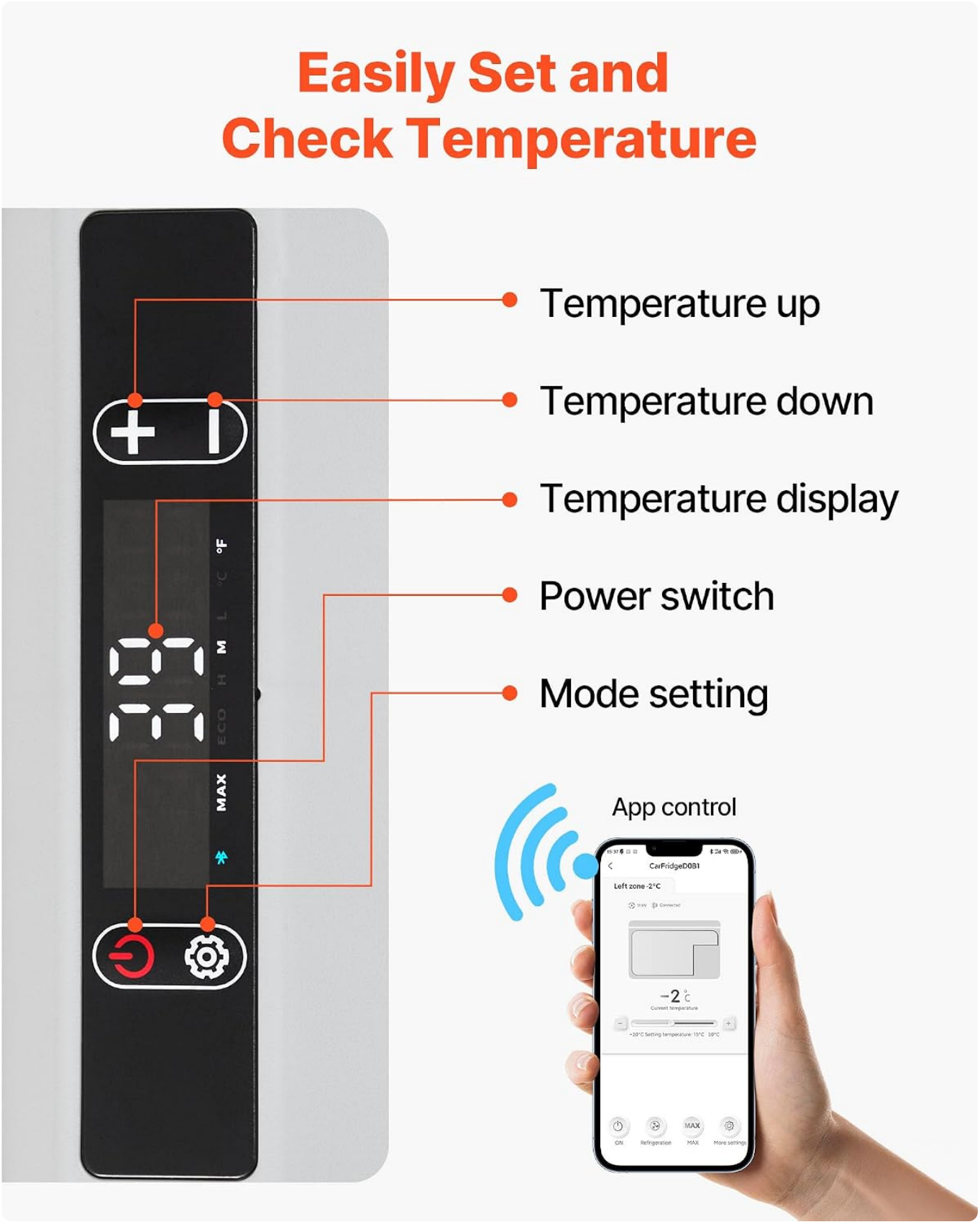

Image: Detailed view of the control panel, indicating buttons for temperature adjustment (up/down), power switch, mode setting, and the temperature display. It also shows an option for app control.

- **Power Button:** Press to turn the unit on or off.
- **Temperature Up/Down Buttons (+/-):** Adjust the desired temperature.
- **Mode Setting Button:** Cycle between MAX (rapid cooling) and ECO (energy-saving) modes.
- **Temperature Display:** Shows the current internal temperature.

6.2 Temperature Adjustment

To set the desired temperature:

1. Turn on the refrigerator using the power button.
2. Use the **+** or **-** buttons to increase or decrease the temperature. The display will flash the set temperature.
3. The unit will automatically adjust to the set temperature after a few seconds.

6.3 Cooling Modes

- **MAX Mode:** Provides rapid cooling, ideal for quickly bringing items to temperature.
- **ECO Mode:** Optimizes energy consumption for longer-lasting insulation and battery life.



Image: Diagram illustrating the energy efficiency of the portable freezer, showing MAX mode for rapid cooling (60W) and ECO mode for long-lasting insulation (45W).

6.4 Battery Protection

The refrigerator features three levels of battery protection (Low, Medium, High) to prevent excessive discharge of your vehicle's battery. You can adjust this setting via the control panel or the mobile app.

Battery Protection Voltage Reference

Mode	DC 12V		DC 24V	
	Cut Out	Cut In	Cut Out	Cut In
L (Low)	9.6V	10.9V	21.3V	22.7V
M (Medium)	10.4V	11.7V	22.8V	24.2V
H (High)	11.1V	12.4V	24.3V	25.7V



Image: The VEVOR car refrigerator positioned in a car trunk, accompanied by a table detailing the three battery protection levels (L, M, H) and their corresponding cut-out and cut-in voltages for 12V and 24V DC systems.

7. Maintenance

7.1 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 sharp objects, as they can damage the surfaces.
- Ensure the unit is completely dry before plugging it back in.

7.2 Storage

- If storing for an extended period, 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 away from direct sunlight.

8. Troubleshooting

Problem	Possible Cause	Solution
Refrigerator not turning on	No power supply; faulty power cord/adapter; vehicle battery low.	Check power connections; ensure power outlet is functional; check vehicle battery voltage and adjust battery protection mode.
Insufficient cooling	Blocked ventilation; door not closed properly; ambient temperature too high; set temperature too high.	Clear vents; ensure lid is sealed; move to a cooler environment; lower the set temperature.
Unusual noise	Unit not on a flat surface; fan obstruction.	Place on a stable, flat surface; check for and remove any fan obstructions.

Problem	Possible Cause	Solution
Error code on display	Internal system fault.	Refer to the full user manual for specific error code meanings or contact customer support.

9. Specifications

Feature	Specification
Model Name	12 Volt Car Refrigerator
Model Number	MCD30D1
Capacity	31.7 Quarts / 30 Liters
Product Dimensions (D x W x H)	22.52" x 14.09" x 16.81" (572 x 358 x 427 mm)
Item Weight	25.8 pounds (11 kg)
Adjustable Temperature Range	-4°F to 68°F (-20°C to 20°C)
Voltage	DC 12V/24V, AC 100-240V
Power	60W
Cooling Method	Compressor
Refrigerant	R-134A
Noise Level	≤45dB
Main Material	PP + HDPE
Defrost System	Automatic
UPC	199912046890

10. Warranty

This VEVOR Car Refrigerator comes with a**2-year warranty** from the date of purchase. Please retain your proof of purchase for warranty claims. The warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or improper installation.

11. Support

For technical assistance, troubleshooting, or warranty inquiries, please contact VEVOR customer support. You can find contact information on the official VEVOR website or through your purchase platform.
Website: www.vevor.com

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