



[Manuals.plus](#) /

› [Alpicool](#) /

› Alpicool Portable Car Refrigerator User Manual

## Alpicool NL40

# Alpicool Portable Car Refrigerator User Manual

Model: NL40 (37QT)

## 1. IMPORTANT SAFETY INFORMATION

Please read all instructions carefully before using your Alpicool Portable Car Refrigerator. Failure to follow these safety guidelines may result in electric shock, fire, or serious injury.

- **Electrical Safety:** Ensure the power source matches the voltage requirements (12/24V DC or 100-240V AC). Do not use damaged power cords or adapters. Always disconnect power before cleaning or maintenance.
- **Ventilation:** Maintain adequate clearance (at least 6 inches) around all vents to ensure proper airflow and prevent overheating. Do not block vents.
- **Placement:** Place the refrigerator on a stable, level surface. Avoid direct sunlight or heat sources. Do not expose to rain or excessive moisture.
- **Handling:** Do not operate the appliance if it appears damaged. Avoid tilting the unit excessively during operation, though it is designed to handle inclines up to 45 degrees for short periods.
- **Children:** Keep out of reach of children. Supervise children to ensure they do not play with the appliance.

## 2. PRODUCT OVERVIEW

The Alpicool Portable Car Refrigerator is a versatile 37-quart electric cooler designed for both refrigeration and freezing, suitable for various mobile applications such as cars, RVs, campers, and trucks. It offers efficient cooling performance and user-friendly features.

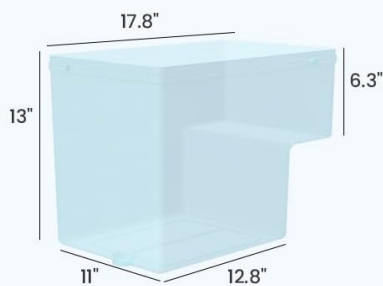
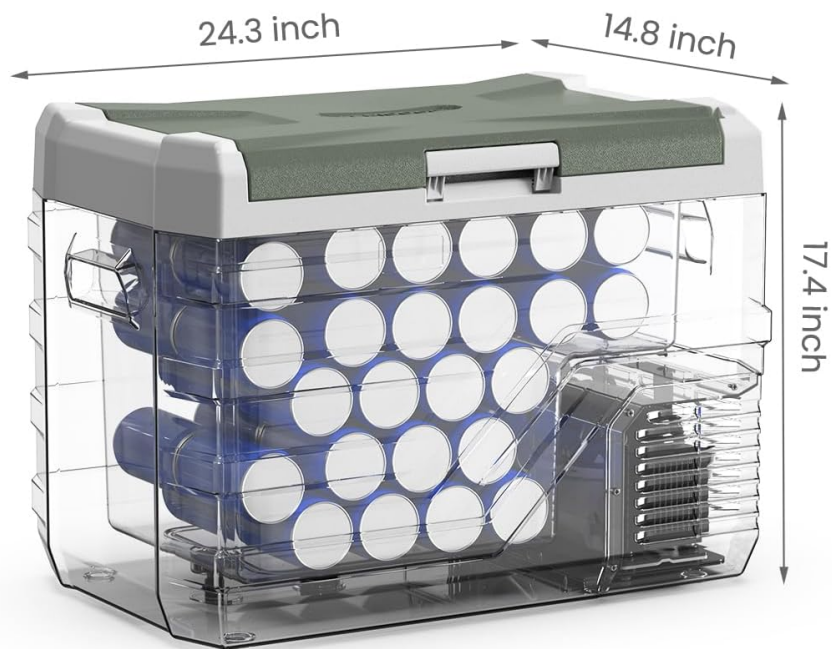


Image: The Alpicool 37QT Portable Car Refrigerator, showcasing its capacity filled with beverages and fresh produce.

### Key Features:

- **Large Capacity:** 37 quarts, capable of holding up to 63 cans (12fl oz), 48 water bottles (16.9fl oz), or 16 wine bottles (25fl oz).
- **Dual Functionality:** Operates as both a refrigerator (32°F to 68°F) and a freezer (-4°F to 32°F).
- **Efficient Cooling:** Rapidly cools from 77°F to 32°F in 15 minutes and can reach -4°F within an hour.
- **Dual Power Options:** Compatible with 12V/24V DC for vehicle use and 100-240V AC for home or wall outlets.
- **Low Noise Operation:** Operates at approximately 45 decibels, ensuring a quiet environment.
- **Battery Protection:** Three levels (H1/H2/H3) to prevent draining your vehicle's battery.
- **Humanized Design:** Features a reversible door, built-in interior LED light, and a convenient drain hole for cleaning.

# 37 QUART CAPACITY



**×63**  
12FL OZ



**×48**  
16.9FL OZ



**×16**  
25.3FL OZ

Image: Detailed dimensions of the 37QT unit (24.3 x 14.8 x 17.4 inches) and visual representation of its capacity for cans, water bottles, and wine bottles.

## What's Included:

- Alpicool 37 Quarts Portable Refrigerator (Model NL40)
- User Manual
- 12V / 24V DC Power Cord
- 110V~240V AC Adapter and Power Cord

## 3. SETUP AND FIRST USE

### Unpacking and Inspection:

1. Carefully remove the refrigerator from its packaging.
2. Inspect the unit for any signs of damage during transit. If damaged, do not operate and contact customer service.

3. Allow the refrigerator to stand upright for at least 6 hours before first use if it was tilted during transport. This allows the compressor lubricant to settle.

### Placement:

Choose a location that is stable, level, and provides adequate ventilation. Ensure there is at least 6 inches of clear space around all sides of the refrigerator, especially near the compressor vents, to allow for proper heat dissipation.

### Connecting to Power:

Your Alpicool refrigerator supports both DC and AC power sources.



Image: The Alpicool refrigerator shown with icons representing its compatibility with DC 12V car cigarette lighter, DC 24V RV cigarette lighter, and AC 110~240V wall socket.

- **DC Power (12V/24V):** Use the provided DC power cord to connect the refrigerator to your vehicle's cigarette lighter socket. Ensure the vehicle's engine is running when using DC power for extended periods to avoid draining the battery.
- **AC Power (100-240V):** Use the provided AC adapter and power cord to connect the refrigerator to a

standard wall outlet.

Once connected, the unit will power on, and the display will show the internal temperature.

## 4. OPERATION

### Control Panel:

The control panel features an LED display and simple buttons for easy operation.

## Easy Operation

Adjustable Temperature Range:  $-4^{\circ}\text{F}$ ~ $68^{\circ}\text{F}$

It can precisely adjust and maintain the temperature within a set range, keeping food and beverages fresh during travel

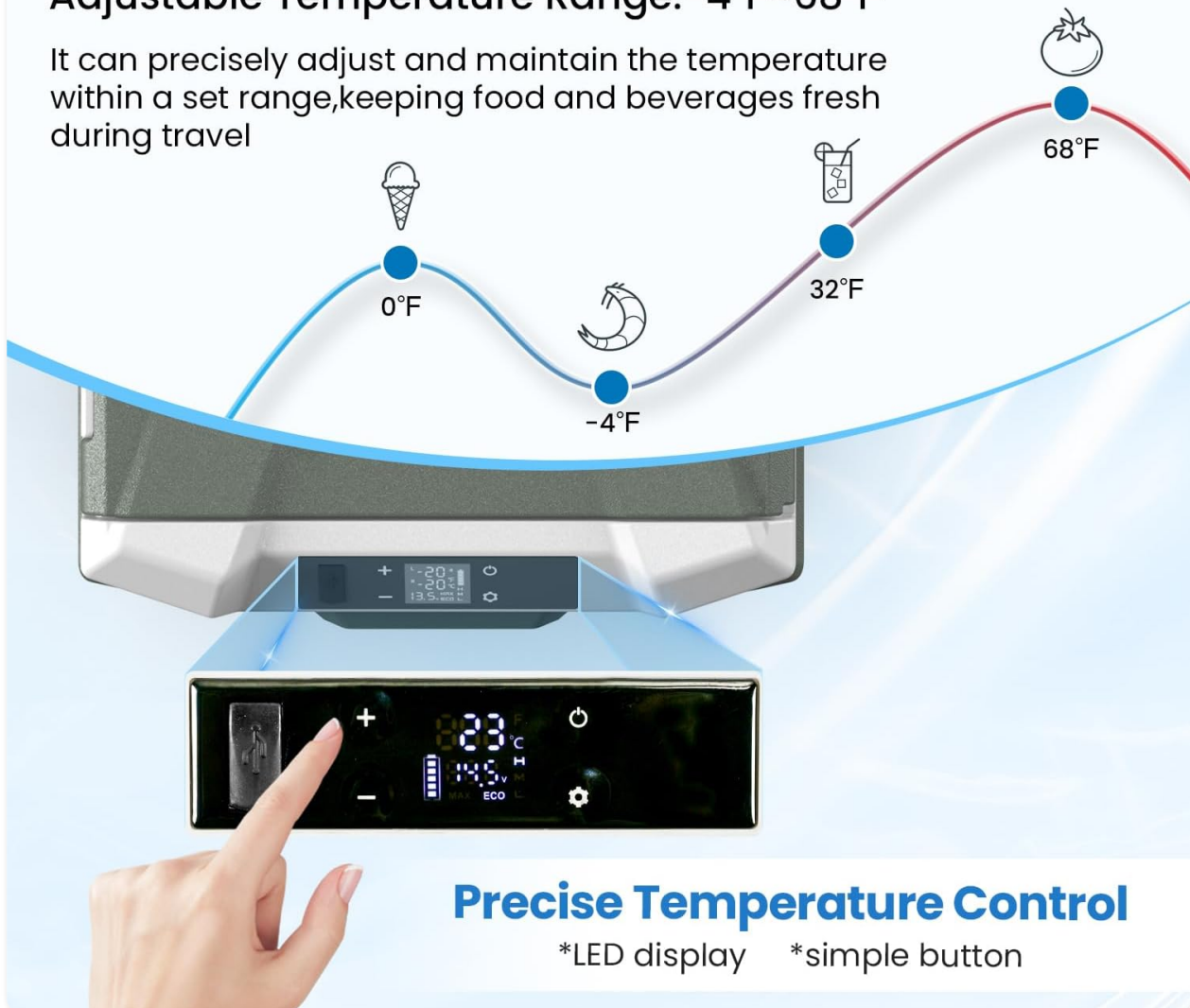


Image: Close-up of the Alpicool refrigerator's control panel, showing the LED display and buttons for precise temperature control.

- **Power Button:** Press to turn the unit on or off.
- **Temperature Adjustment (+/-):** Use these buttons to set your desired temperature between  $-4^{\circ}\text{F}$  and  $68^{\circ}\text{F}$ .
- **Mode Button:** Toggle between ECO (energy-saving) and MAX (fast cooling) modes. MAX mode provides quicker cooling, while ECO mode conserves power.
- **Battery Protection Setting:** Press and hold the mode button to cycle through battery protection levels: H1

(High), H2 (Medium), H3 (Low).

## Battery Protection Settings:

The refrigerator includes a 3-level battery protection system to prevent your vehicle's battery from being completely drained. Select the appropriate level based on your vehicle's battery condition and usage.



Image: Visual representation of the three battery protection levels: High, Medium, and Low, designed to reduce battery loss from your car.

- **H1 (High):** Highest cut-off voltage, ideal for sensitive vehicle batteries or when the vehicle is not running.
- **H2 (Medium):** Standard cut-off voltage, suitable for most applications.
- **H3 (Low):** Lowest cut-off voltage, allows for longer operation but carries a higher risk of draining the vehicle battery. Use with caution, especially if the vehicle engine is off.

## Reversible Door:

The door can be installed to open from either the left or right side to adapt to different vehicle layouts and space constraints.



Image: Step-by-step guide illustrating how to reverse the door of the Alpicool refrigerator for flexible opening.

1. Open the door to a 45-degree angle.
2. Carefully take off the door from one side.
3. Align the door shaft with the compartment hole on the opposite side.
4. Insert the door firmly until it clicks into place.

## 5. MAINTENANCE AND CARE

### Cleaning:

- Always disconnect the power before cleaning.
- Clean the interior and exterior surfaces with a damp cloth and a mild detergent. Do not use abrasive cleaners, solvents, or harsh chemicals.
- The drain hole at the bottom allows for easy water removal during cleaning.
- Ensure all surfaces are dry before reconnecting power.

### Defrosting:

If a layer of ice forms inside the unit, turn off the refrigerator, open the lid, and allow the ice to melt naturally. Use the drain hole to remove melted water. Do not use sharp objects to remove ice, as this can damage the cooling system.

### Storage:

When storing the refrigerator for an extended period, ensure it is clean and completely dry. It is recommended to leave the lid slightly ajar to prevent odors and mildew formation.

## 6. TROUBLESHOOTING GUIDE

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

before contacting customer service.

Problem	Possible Cause	Solution
Refrigerator not cooling	No power, incorrect temperature setting, blocked vents, ambient temperature too high.	Check power connection and source. Adjust temperature setting. Ensure proper ventilation. Move to a cooler environment if possible.
Unusual noise	Unit not level, internal components vibrating, fan obstruction.	Place on a level surface. Check for any loose items inside. Ensure fan is clear of obstructions.
Display shows error code	Sensor fault, voltage issue, compressor error.	Disconnect power for 5 minutes and reconnect. If error persists, contact customer service.
Temperature fluctuates significantly	Frequent opening of lid, large amount of warm items added, poor insulation.	Minimize lid openings. Pre-cool items before placing them inside. Ensure lid is properly sealed.
Vehicle battery drains quickly	Battery protection set too low (H3), prolonged use with engine off, weak vehicle battery.	Adjust battery protection to H1 or H2. Avoid prolonged use when vehicle engine is off. Check vehicle battery health.

## 7. TECHNICAL SPECIFICATIONS

Specification	Detail
Brand Name	Alpicool
Model Info	NL40
Item Weight	28 pounds
Product Dimensions	24.3 x 14.8 x 17.4 inches
Capacity	37 Quarts (35.3 Liters)
Annual Energy Consumption	150 Kilowatt Hours Per Year
Freezer Capacity	35.3 Liters
Installation Type	Freestanding
Form Factor	Portable
Special Features	Energy Efficient, Large Capacity, Lightweight, Low Noise, Portable
Color	Green

Specification	Detail
Voltage	12 Volts (DC) / 100-240 Volts (AC)
Racks	1
Defrost System	Frost Free
Door Hinges	Reversible
Door Material Type	Plastic
Certification	Energy Star
Material Type	High Density Polyethylene (HDPE)
Number Of Doors	1

## 8. WARRANTY AND SUPPORT

### Warranty Information:

Alpicool offers a warranty of up to 3 years for this product. Please retain your proof of purchase for warranty claims.

### Return Policy:

A 30-day free return policy may apply. Please refer to your purchase platform's return policy for specific details.

### Customer Support:

For any questions, technical assistance, or warranty claims, Alpicool provides 24/7 email assistance. Please visit the official Alpicool brand store or website for contact information and further support resources.

You can visit the Alpicool Store at: [Alpicool Amazon Store](#)