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Alpicool NL30

Alpicool 43 QT Dual Zone Portable Car Refrigerator Freezer User Manual

Model: NL30 / NL15

1. Introduction

Thank you for choosing the Alpicool 43 QT Dual Zone Portable Car Refrigerator Freezer. This appliance is designed to provide reliable cooling and freezing for your food and beverages during travel, camping, road trips, and other outdoor activities. It features a high-performance compressor, dual-zone temperature control, and convenient app connectivity. Please read this manual thoroughly before use to ensure proper operation, maintenance, and safety.

2. Important Safety Instructions

To reduce the risk of fire, electric shock, or injury, always follow these basic safety precautions:

- Read all instructions before using the appliance.
- Do not operate the appliance if the power cord or plug is damaged. Contact customer service immediately.
- Ensure the power source voltage matches the appliance's requirements (12/24V DC or 100-240V AC).
- Do not immerse the appliance in water or other liquids.
- Keep ventilation openings clear of obstructions. Ensure adequate airflow around the unit.
- Do not use electrical devices inside the refrigerator unless they are recommended by the manufacturer.
- Avoid touching cold surfaces with bare hands for extended periods, especially in freezing mode, to prevent frostbite.
- 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.
- Unplug the appliance before cleaning or performing any maintenance.

3. Package Contents

Verify that all items are included in your package:

- Alpicool Portable Car Refrigerator Freezer

- 100V~240V AC Adapter and Power Cord
- 12V / 24V DC Power Cord
- User Manual (this document)

4. Product Features

- **Fast Cooling:** Equipped with a high-performance compressor, the unit can cool from 77°F (25°C) to 32°F (0°C) in approximately 15 minutes and reach -4°F (-20°C) within 1 hour. It offers MAX (60W) for rapid cooling and ECO (45W) for energy-efficient operation.



This image illustrates the rapid cooling capability of the Alpicool portable refrigerator, showing temperature drops over time.

- **Large 43 QT (40L) Capacity:** The spacious interior can hold up to 48 cans (12 oz), 45 bottles (16.9 oz water), or 9 bottles (750 ml wine), suitable for various storage needs.



This image provides a visual representation of the refrigerator's internal capacity and external dimensions.

- **Dual Zone Control & APP:** Features two independently controlled zones, allowing simultaneous chilling and freezing. Temperatures can be adjusted from -4°F to 68°F (-20°C to 20°C) via the LED touch control panel or a smart app (iOS/Android).

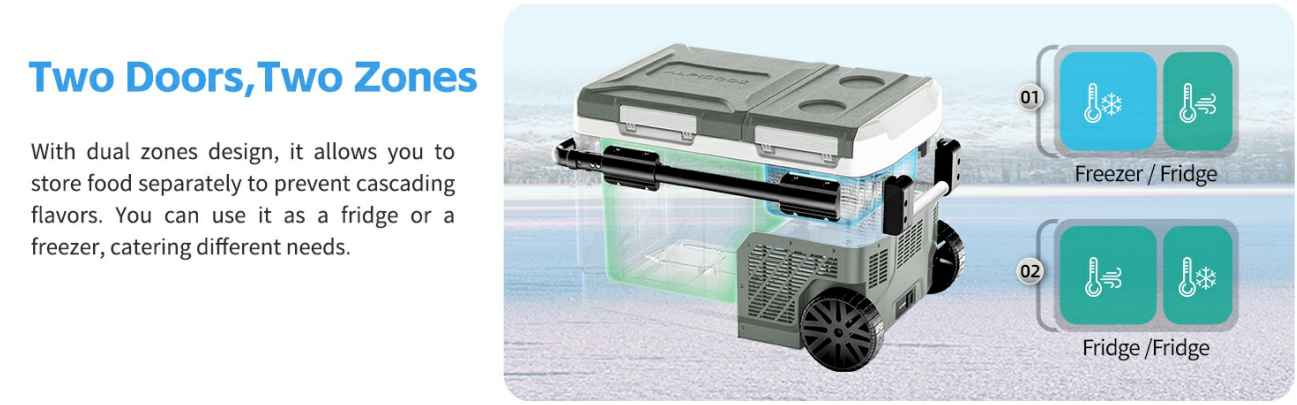
This image demonstrates the independent temperature control for the two zones, showing different configurations for fridge and freezer.

- **Enhanced Portability:** Designed with a retractable handle and durable off-road wheels for easy transport across various terrains.



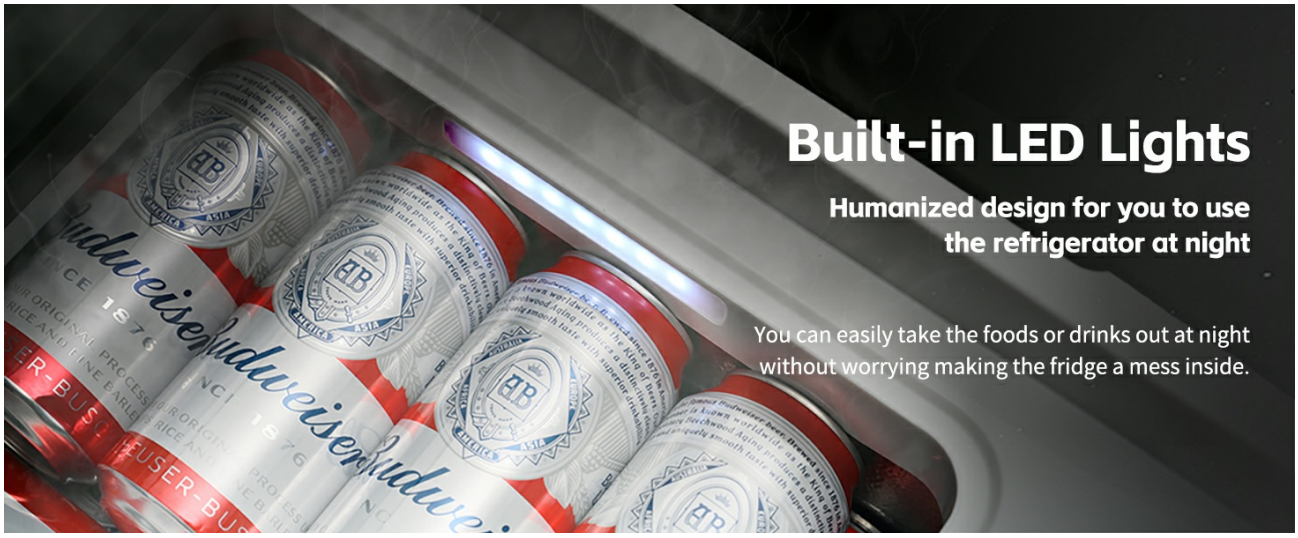
This image highlights the retractable handle feature, making the unit easy to move.

- **Multiple Power Supply Modes:** Includes 100-240V AC and 12/24V DC adapters for home, car, truck, RV, and boat use. Features a 3-level battery protection system to prevent vehicle battery drain.



This image illustrates the versatility of power input options for the refrigerator.

- **Low Noise Operation:** Operates at less than 45dB, ensuring a quiet environment.



This image visually compares the low noise level of the refrigerator to everyday sounds.

- **Detachable and Reversible Door:** The door can be removed and re-installed to open from either direction, offering flexible access.



This image provides a step-by-step guide on how to adjust the door's opening direction.

- **Built-in LED Interior Light:** Helps locate items easily, even in low-light conditions.



This image demonstrates the utility of the built-in LED light for visibility inside the cooler.

5. Setup

5.1 Unpacking

Carefully remove the refrigerator from its packaging. Inspect the unit for any damage that may have occurred during transit. Report any damage to your retailer immediately.

5.2 Placement

- Place the refrigerator on a flat, stable surface.
- Ensure there is adequate ventilation around the unit (at least 10 cm / 4 inches clearance on all sides) to allow for proper heat dissipation.
- Avoid placing the unit in direct sunlight or near heat sources.

5.3 Power Connection

The refrigerator can be powered by either DC (12V/24V) or AC (100-240V) power sources.

- **DC Power (Car/Vehicle):** Connect the 12V/24V DC power cord to the DC input port on the refrigerator and then to your vehicle's cigarette lighter socket.
- **AC Power (Home/Wall Outlet):** Connect the AC adapter to the AC input port on the refrigerator, then plug the AC power cord into the adapter and a standard wall outlet.

Before connecting, ensure the power source matches the voltage requirements of the refrigerator.

6. Operating Instructions

6.1 Control Panel Overview



This image details the control panel, showing the LED display, temperature controls, and power button.

- **On/Off Button:** Press to turn the unit on or off.
- **Set Button:** Press to cycle through settings (e.g., temperature units, battery protection mode).
- **Temperature Control Buttons (+/-):** Adjust the desired temperature for each zone.
- **LED Display:** Shows current temperatures and settings.
- **USB Port:** For charging small electronic devices.

6.2 Powering On/Off

Press and hold the **On/Off** button for 3 seconds to turn the refrigerator on or off. The LED display will illuminate when the unit is on.

6.3 Temperature Adjustment

1. Press the **Set** button to select the zone you wish to adjust (Left or Right compartment).
2. Use the **+** or **-** buttons to set your desired temperature. The temperature range is -4°F to 68°F (-20°C to 20°C).
3. The display will flash while setting and then stabilize to show the current temperature once set.

6.4 MAX/ECO Mode Selection

While the unit is on, press the **Set** button repeatedly until 'MAX' or 'ECO' appears on the display. Use the **+** or **-** buttons to switch between modes:

- **MAX Mode:** Provides rapid cooling with higher power consumption (60W).
- **ECO Mode:** Offers energy-efficient operation with lower power consumption (45W), suitable for maintaining temperature.

6.5 Battery Protection Settings

The refrigerator features a 3-level battery protection system to prevent your vehicle's battery from draining. To adjust the setting:



This image illustrates the three battery protection levels available for the refrigerator.

1. With the unit on, press and hold the**Set** button for 3 seconds. The current battery protection level (H, M, or L) will flash on the display.
2. Use the **+** or **-** buttons to select the desired level:
    - **H (High):** Highest protection, unit shuts off at a higher voltage to protect the battery. Recommended for vehicle batteries.
    - **M (Medium):** Moderate protection.
    - **L (Low):** Lowest protection, unit operates longer before shutting off. Recommended for external power banks or deep cycle batteries.
3. Release the **Set** button to confirm the selection.

6.6 App Control

The Alpicool refrigerator can be controlled via a smartphone app (compatible with iOS and Android devices).

1. Download the Alpicool app from your device's app store.
2. Ensure Bluetooth is enabled on your smartphone.
3. Open the app and follow the on-screen instructions to pair with your refrigerator.
4. Once connected, you can monitor temperatures, adjust settings, and switch modes remotely.

7. Maintenance

7.1 Cleaning

- Always unplug the refrigerator before cleaning.
- Clean the interior and exterior surfaces with a damp cloth and a mild detergent. Avoid abrasive cleaners or solvents.
- Ensure all surfaces are dry before reconnecting power.
- Do not use a high-pressure washer to clean the unit.

7.2 Defrosting

The unit features a frost-free defrost system. However, if ice buildup occurs, turn off the unit and allow the ice to melt naturally. Wipe away excess water with a cloth.

7.3 Storage

When storing the refrigerator for an extended period:

- Ensure the unit 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 and extreme temperatures.

8. Troubleshooting

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

Problem	Possible Cause	Solution
Unit does not turn on	No power supply; Damaged power cord/adapter; Blown fuse in vehicle.	Check power connection; Try a different power outlet/vehicle socket; Inspect and replace fuse if necessary.
Unit not cooling effectively	Insufficient ventilation; Door not closed properly; Ambient temperature too high; Too much content; ECO mode selected.	Ensure proper ventilation; Close door tightly; Move to a cooler environment; Reduce contents; Switch to MAX mode.
Display shows error code (e.g., E1, E2)	Low voltage; Sensor fault; Compressor issue.	Check power supply and battery protection setting; Contact customer support if issue persists.
Excessive noise	Unit not level; Fan obstruction.	Ensure unit is on a flat surface; Check for obstructions around the fan.

If the problem persists after attempting these solutions, please contact Alpicool customer support.

9. Specifications

Feature	Detail

Feature	Detail
Model Name	Portable Refrigerator EZGW41
Model Number	NL30
Capacity	43 Quarts (40 Liters)
Product Dimensions (D x W x H)	27.2" x 17.7" x 17.8" (69.2cm x 45cm x 45.3cm)
Item Weight	11.6 kg
Voltage	12V/24V DC, 100-240V AC
Cooling Method	Compressor
Temperature Range	-4°F to 68°F (-20°C to 20°C)
Refrigerant	R-600A
Noise Level	<45dB
Special Features	App Control, Dual Zone, Energy Efficient, Large Capacity, Low Noise, Portable, Retractable Handle, Off-road Wheels, Reversible Door, Built-in LED Light, 3-level Battery Protection

10. Warranty & Support

10.1 Warranty Information

Alpicool offers a **1-year warranty for the compressor** and a **1-year warranty for all other accessories** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use.
The warranty does not cover damage caused by misuse, accident, unauthorized modification, or improper installation.

10.2 Customer Support

For technical assistance, warranty claims, or any questions regarding your Alpicool portable refrigerator, please contact Alpicool customer support through the retailer where you purchased the product or visit the official Alpicool website. You can also visit the Alpicool Store on Amazon for more information and support resources.

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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