

Alpicool

Alpicool 12 Volt Portable Refrigerator

Model: NLS45 (33 Quarts Dual Zone)

User Instruction Manual

1. IMPORTANT SAFETY INFORMATION

Please read all safety warnings and instructions carefully before operating this appliance to prevent injury or damage. Keep this manual for future reference.

- Ensure the power supply matches the appliance's requirements (12V/24V DC or 110-240V AC).
- Do not operate the appliance if the power cord is damaged.
- Avoid placing the appliance in direct sunlight or near heat sources.
- Ensure adequate ventilation around the unit. Maintain at least 10 cm clearance on all sides.
- Do not immerse the appliance in water or expose it to heavy rain.
- Keep flammable materials away from the appliance.
- Unplug the appliance before cleaning or 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.

2. PRODUCT OVERVIEW

The Alpicool NLS45 is a portable dual-zone refrigerator/freezer designed for versatile use in vehicles, RVs, campers, and for outdoor activities. It offers independent temperature control for its two compartments.

Key Features:

- **Large Capacity:** 33 Quarts (31.3 Liters) total capacity, capable of holding up to 36 cans (12fl oz) or 37 bottles (16.9fl oz).
- **Dual Zone & Independent Control:** Two compartments with separate temperature settings ranging from -4°F to 68°F (-20°C to 20°C).
- **Powerful & Energy Saving:** Rapid cooling from 77°F to 32°F in 15 minutes. Features ECO (45W)

and MAX (60W) modes.

- **Battery Protection:** Three levels (H/M/L) to prevent vehicle battery drain.
- **Low Noise Operation:** Operates below 45 decibels for a quiet environment.
- **Anti-Shake Design:** Maintains stable operation even on inclines up to 45°.
- **USB Port:** For emergency charging of mobile devices.
- **Two-Way Door:** Lids can be opened from either side or removed for flexible access.

Included Components:

- Alpicool NLS45 Portable Refrigerator (33 Quarts)
- User Manual (this document)
- 12V / 24V DC Power Cord
- 110V~240V AC Adapter and Power Cord

3. SETUP AND INSTALLATION

Before first use, clean the interior of the refrigerator with a damp cloth. Ensure the unit is placed on a stable, level surface with adequate ventilation.

Power Connection:

The Alpicool NLS45 supports two power input options:

1. **DC Power (12V/24V):** Connect the 12V/24V DC power cord to the appliance's DC input port and then to your vehicle's cigarette lighter socket or a compatible DC power source.
2. **AC Power (110V~240V):** Connect the AC adapter to the appliance's AC input port, then plug the AC power cord into the adapter and a standard wall outlet.

COMPATIBLE WITH DIFFERENT POWER SOURCES



DC 12V Car
Cigarette lighter



DC 24V RV
Cigarette lighter



AC 110V~240V
Wall socket



Image: The Alpicool portable refrigerator demonstrating compatibility with DC 12V car, DC 24V RV, and AC 110V-240V power sources.

VOLTAGE PROTECTION

Reduce battery loss of your car



Image: The Alpicool portable refrigerator positioned in a vehicle trunk, illustrating the three battery protection levels (High, Medium, Low) to prevent vehicle battery drain.

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Video: An animated demonstration of the Alpicool NLS Series Dual Zones Car Fridge, showcasing its features and capacity.

4. OPERATING INSTRUCTIONS

Control Panel:

The control panel features an LED display and simple buttons for temperature adjustment and mode selection.

Easy Operation

Adjustable Temperature Range: -4°F ~ 68°F

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



Precise Temperature Control

*LED display *simple button

Image: A detailed view of the Alpicool refrigerator's control panel, highlighting the LED display and intuitive buttons for precise temperature control.

Temperature Setting:

- Press the **SET** button to cycle through temperature settings for each zone.
- Use the **+** and **-** buttons to adjust the desired temperature. The temperature range is -4°F to 68°F (-20°C to 20°C).
- The display will show the current temperature of each zone.

DUAL ZONE INDEPENDENT TEMPERATURE CONTROL



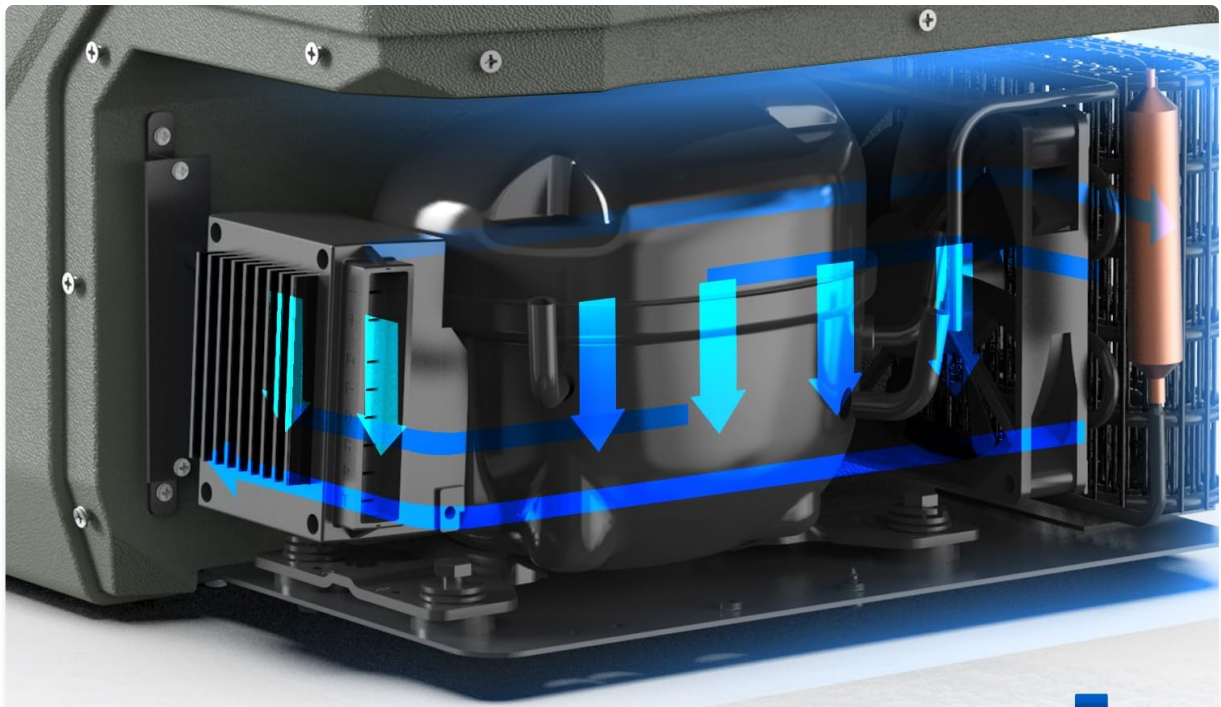
4 Combinations



Image: An illustration detailing the dual-zone independent temperature control feature, showing how different items like fruits, vegetables, beverages, steak, seafood, and ice cream can be stored at their optimal temperatures within the -4°F to 68°F range.

Operating Modes (ECO/MAX):

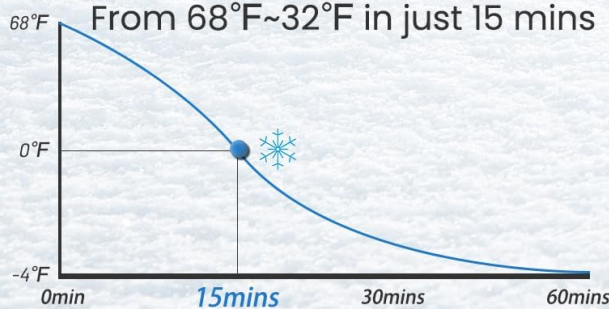
- Press the **MODE** button to switch between ECO (Energy Saving) and MAX (Fast Cooling) modes.
- **ECO Mode:** Consumes less power (approx. 45W), ideal for maintaining temperature over longer periods or when power efficiency is critical.
- **MAX Mode:** Provides rapid cooling (approx. 60W) to reach desired temperatures quickly.



Powerful & Efficiency Cooling



From 68°F ~ 32°F in just 15 mins



ECO
45w Mode For energy saving

MAX
60w Mode For fast cooling

Image: A performance graph illustrating the rapid cooling capability of the Alpicool refrigerator, showing it can cool from 77°F to 32°F in just 15 minutes, with options for ECO (energy-saving) and MAX (fast cooling) modes.

Battery Protection:

The unit features a 3-level battery protection system to prevent your vehicle's battery from draining. You can select the protection level (H - High, M - Medium, L - Low) via the control panel. The refrigerator will automatically stop operating if the input voltage drops below the selected level.

- Consult your vehicle's manual or a qualified technician to determine the appropriate battery protection level for your setup.

USB Charging Port:

A USB port is located on the control panel for convenient emergency charging of small electronic devices like phones or tablets.

5. MAINTENANCE AND CARE

Regular maintenance ensures optimal performance and longevity of your Alpicool refrigerator.

Cleaning:

- Always unplug the unit before cleaning.
- Clean the interior and exterior with a damp cloth and mild detergent. Avoid abrasive cleaners or solvents.
- Ensure the unit is completely dry before reconnecting power.
- Periodically clean the ventilation grilles to prevent dust buildup, which can affect cooling efficiency.

Storage:

- If storing for an extended period, ensure the unit is clean and dry.
- Leave the lids slightly ajar to prevent odors and mold growth.
- Store in a dry, well-ventilated area away from direct sunlight and extreme temperatures.

6. TROUBLESHOOTING GUIDE

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

Problem	Possible Cause	Solution
Unit not turning on.	No power, loose connection, damaged power cord, vehicle battery low.	Check power source, ensure connections are secure. Verify vehicle battery voltage. Replace damaged cords.
Cooling performance is poor.	Insufficient ventilation, excessive ambient temperature, overloaded, door not sealed properly, ECO mode.	Ensure proper ventilation. Avoid direct sunlight. Do not overfill. Check lid seal. Switch to MAX mode for faster cooling.
Display shows an error code (e.g., F1, F2).	Specific internal fault (e.g., low voltage, fan error, sensor error).	Refer to the specific error code in a more detailed technical manual or contact customer support. For F2 (fan error), check for obstructions or contact support.
Unit is noisy.	Normal compressor operation, unit not level, fan obstruction.	Ensure unit is on a stable, level surface. Check for any obstructions around the fan. Normal operating noise is below 45dB.

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

7. PRODUCT SPECIFICATIONS

Feature	Specification
Brand	Alpicool
Model Number	NLS45
Capacity	33 Quarts (31.3 Liters)
Temperature Range	-4°F to 68°F (-20°C to 20°C)

Feature	Specification
Power Input	DC 12V/24V, AC 110V~240V
Rated Power (ECO/MAX)	45W (ECO), 60W (MAX)
Noise Level	<45dB
Item Weight	28.6 pounds (13 Kilograms)
Product Dimensions	14.8 x 24.33 x 17.4 inches (37.6 x 61.8 x 44.2 cm)
Special Features	Dual Zone, Independent Control, Battery Protection, USB Port, Anti-Shake, Low Noise

8. WARRANTY AND SUPPORT

Alpicool is committed to providing high-quality products and excellent customer service.

- **Warranty Service:** This product comes with a warranty of up to 3 years. Please retain your proof of purchase for warranty claims.
- **Return Policy:** A 30-day free return policy is available for eligible purchases.
- **Customer Support:** For any inquiries, technical assistance, or warranty claims, please contact Alpicool customer service. Email assistance is typically available within 24 hours.



Image: Icons representing Alpicool's customer support, including 24/7 service, warranty service, and return policy.