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> [Alpicool ZAW50 Portable Freezer Car Refrigerator Instruction Manual](#)

Alpicool ZAW50

Alpicool ZAW50 Portable Freezer Car Refrigerator

Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Alpicool ZAW50 Portable Freezer Car Refrigerator. This 52-quart dual-zone unit is designed for portability and versatility, functioning as both a freezer and a refrigerator for various applications including camping, road trips, and general outdoor activities. Please read these instructions thoroughly before use and retain them for future reference.

2. WHAT'S IN THE BOX

- 52 Quarts Portable Refrigerator (Model ZAW50)
- User Manual
- 12V / 24V DC Power Cord
- 110V~240V AC Adapter and Power Cord

3. KEY FEATURES

3.1. Portable and Large Capacity

The Alpicool ZAW50 offers a spacious 52-quart capacity, suitable for storing a variety of beverages, snacks, and food items. Its design includes a retractable handle and durable off-road wheels for easy transport, making it ideal for mobile use.

52 QUART LARGE CAPACITY

X 60 Can
12FL OZ
355ml

X 55 Bottle
16.9FL OZ
500ml

X 9 Bottle
25.36FL OZ
750ml



Image: The Alpicool ZAW50 Portable Refrigerator with its lids open, illustrating its 52-quart capacity and overall dimensions of 27.25 x 17.83 x 20.16 inches.

3.2. High Efficiency and Powerful Compressor

Equipped with advanced 3D refrigeration technology and a powerful compressor, the unit can rapidly cool to 32°F (0°C) within 15 minutes and reach -4°F (-20°C) within 50 minutes. It features two operating modes: ECO mode (45W) for energy saving (less than 1 kWh per day) and MAX mode (60W) for quick cooling.

New Upgraded Powerful Compressor

With advanced 3D refrigeration technology and powerful compressor, the portable fridge can achieve a highly efficient performance for fast cooling to 32°F within 15 minutes and reach -4°F within 50 minutes.



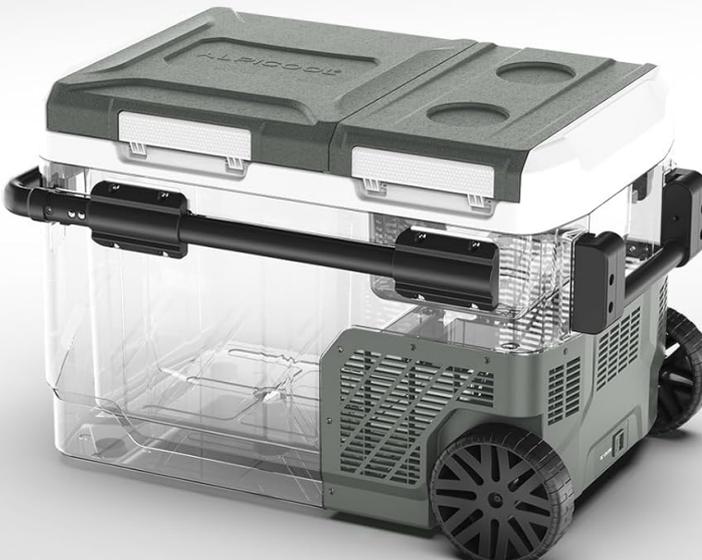
Image: A visual representation of the Alpicool ZAW50's powerful compressor and its rapid cooling performance, highlighting the time taken to reach specific temperatures.

3.3. Dual Zones with Two Doors

The refrigerator features a dual-space design, allowing for separate storage of food items to prevent flavor transfer. The larger zone typically functions as a freezer, while the smaller zone's temperature is influenced by the larger one. Both doors are detachable, allowing users to change their opening direction for convenience.

DUAL ZONE

Used as fridge or freezer



The image shows the Alpicool ZAW50 portable refrigerator, a white and grey unit with a clear plastic front and two doors. It has a black handle and a black compressor unit at the bottom with two wheels.

01



Freezer / Fridge

02



Fridge / Fridge



Fruits



Drinks



Ice Cream



Seafood

Image: The Alpicool ZAW50 Portable Refrigerator with its two separate compartments, illustrating its dual-zone functionality for both freezing and refrigeration.

3.4. Battery Protection

Advanced battery protection technology safeguards your vehicle's battery from draining. Three levels of protection (H/M/L) are available, automatically shutting down the fridge if low battery voltage is detected. The unit supports both 100/240V AC and 12/24V DC power sources.

Battery Voltage Protection

Protect your car battery from running out.



High



Medium



Low



Image: The Alpicool ZAW50 Portable Refrigerator in the trunk of a car, demonstrating its battery protection feature with visual indicators for High, Medium, and Low settings.

3.5. Thoughtful Design

The refrigerator operates with a low noise level of 45dB, ensuring a quiet environment. It includes convenient cup slots, an LED interior light for night use, and a drain hole for easy cleaning. Its anti-shake design allows stable operation even on inclines up to 45°.



Image: A graphic illustrating the Alpicool ZAW50's low noise level (45dB) compared to other common sounds, emphasizing its quiet operation.

4. SETUP

4.1. Unpacking

Carefully remove the refrigerator from its packaging. Inspect the unit for any damage incurred during shipping. Ensure all included components are present.

4.2. Power Connection

Connect the appropriate power cord (12V/24V DC for vehicle use or 110V~240V AC for home/wall outlet use) to the unit and the power source. Ensure the connection is secure.

4.3. Initial Cooling

For optimal performance, it is recommended to pre-cool the refrigerator for at least 30 minutes before loading it with items. This allows the internal temperature to stabilize.

5. OPERATING INSTRUCTIONS

5.1. Power On/Off

Press the power button on the control panel to turn the unit on or off.

5.2. Temperature Adjustment

Use the '+' and '-' buttons on the control panel to set the desired temperature for the main (larger) zone. The temperature of the smaller zone will adjust relative to the main zone.

5.3. Mode Selection (ECO/MAX)

Press the mode button (often indicated by a gear icon or similar) to switch between ECO (energy-saving) and MAX (fast cooling) modes. MAX mode is recommended for initial rapid cooling, while ECO mode is suitable for maintaining temperature over longer periods.

5.4. Door Operation

The two lids can be opened independently. To detach and reverse the opening direction of a lid, open it to a 90° angle and gently pull upwards. Reinstall it on the opposite side at the same 90° angle.

Your browser does not support the video tag.

Video: A detailed introduction to the Alpicool ZAW Series, demonstrating its features and functionality, including the dual-zone design and controls.

6. MAINTENANCE

6.1. Cleaning

Regularly clean the interior and exterior of the refrigerator with a damp cloth and mild detergent. The integrated drain hole allows for convenient removal of water during cleaning or defrosting.

6.2. Defrosting

If ice buildup occurs, turn off the unit and allow the ice to melt naturally. Use the drain hole to remove excess water. Do not use sharp objects to remove ice, as this can damage the unit.

7. TROUBLESHOOTING

7.1. Temperature Discrepancy in Dual Zones

The smaller compartment's temperature is dependent on the larger, main compartment. If the main compartment is set to a very low freezing temperature, the smaller compartment will also be very cold. If the main compartment is set to a higher refrigeration temperature, the smaller compartment may not reach ideal refrigeration temperatures for sensitive items like dairy or certain fruits, especially in hot ambient conditions. For optimal cooling in the smaller zone, ensure the main zone is set to a sufficiently low temperature.

7.2. Unit Not Cooling

- Check power connection: Ensure the power cord is securely plugged into both the unit and the power source.
- Verify power source: Confirm that the power outlet or vehicle's 12V/24V socket is functional.
- Battery protection: If using DC power, check the battery protection level (H/M/L). If the vehicle battery voltage is too low, the unit may automatically shut off to prevent draining the battery.
- Ventilation: Ensure adequate ventilation around the compressor area to prevent overheating.

8. SPECIFICATIONS

Brand Name	Alpicool
Model Info	ZAW50
Item Weight	37.5 pounds
Product Dimensions	27.25 x 17.83 x 20.16 inches
Capacity	52 Quarts (49 Liters)
Annual Energy Consumption	91 Kilowatt Hours Per Year
Installation Type	Freestanding
Form Factor	Compact
Special Features	Anti-Shake, Energy Efficient, Large Capacity, Low Noise, Portable
Color	Green
Voltage	12 Volts (DC) / 100-240 Volts (AC)
Defrost System	Frost Free
Number Of Doors	2
Material Type	High Density Polyethylene (HDPE)
Certification	Energy Star

9. WARRANTY & SUPPORT

Alpicool provides a 3-year warranty for the compressor and a 1-year warranty for all other accessories. For further questions or after-sale service, please contact Alpicool's professional support team.