Alpicool CHS45

Alpicool CHS45 32L Portable Car Refrigerator Freezer User Manual

Model: CHS45 | Capacity: 32 Liters

1. Product Overview

The Alpicool CHS45 is a versatile 32-liter electric compression cooler designed for portable use in vehicles, homes, dorms, and during camping trips. It features dual temperature control zones, allowing for simultaneous refrigeration and freezing. This unit is engineered for efficient cooling performance and effective heat preservation, ensuring your items remain fresh for extended periods.



Figure 1: The Alpicool CHS45 32L Portable Car Refrigerator Freezer with its dual lids open, showcasing the two independent compartments.

Key features include rapid cooling (down to 0°C in 15 minutes from 25°C), substantial energy savings with MAX and ECO modes, and a three-level car battery protection system to prevent vehicle battery drain. It supports both 12V/24V DC and 100-240V AC power inputs, making it suitable for a wide range of applications.

2. Safety Instructions

To ensure safe operation and prolong the lifespan of your Alpicool CHS45, please adhere to the following safety guidelines:

- Do not operate the appliance if the power cord is damaged or if the unit shows signs of malfunction.
- Ensure proper ventilation around the unit. Do not block the air vents.
- Keep the unit away from direct heat sources and moisture.
- Avoid placing corrosive materials or liquids inside the cooler.
- Always disconnect power before cleaning or performing maintenance.
- When using in a vehicle, ensure the unit is securely fastened to prevent movement during transit.
- The unit features a **three-level battery protection mode (H, M, L)** to prevent your car battery from running out. Select the appropriate level based on your vehicle's battery condition.

3. Setup and Installation

Before first use, unpack the cooler and ensure all components are present. Allow the unit to stand upright for at least 6 hours before plugging it in to allow the refrigerant to settle.

3.1 Power Connection

The Alpicool CHS45 supports multiple power options:

- **DC 12V/24V:** For use in vehicles (cars, trucks, RVs). Connect the DC power cord to the unit and then to your vehicle's cigarette lighter socket.
- **AC 100-240V:** For home, dorm, or camping site use. Connect the AC power adapter to the unit and then to a standard wall outlet.
- **Portable Power Station:** Can be connected to a compatible portable power station for extended outdoor use.

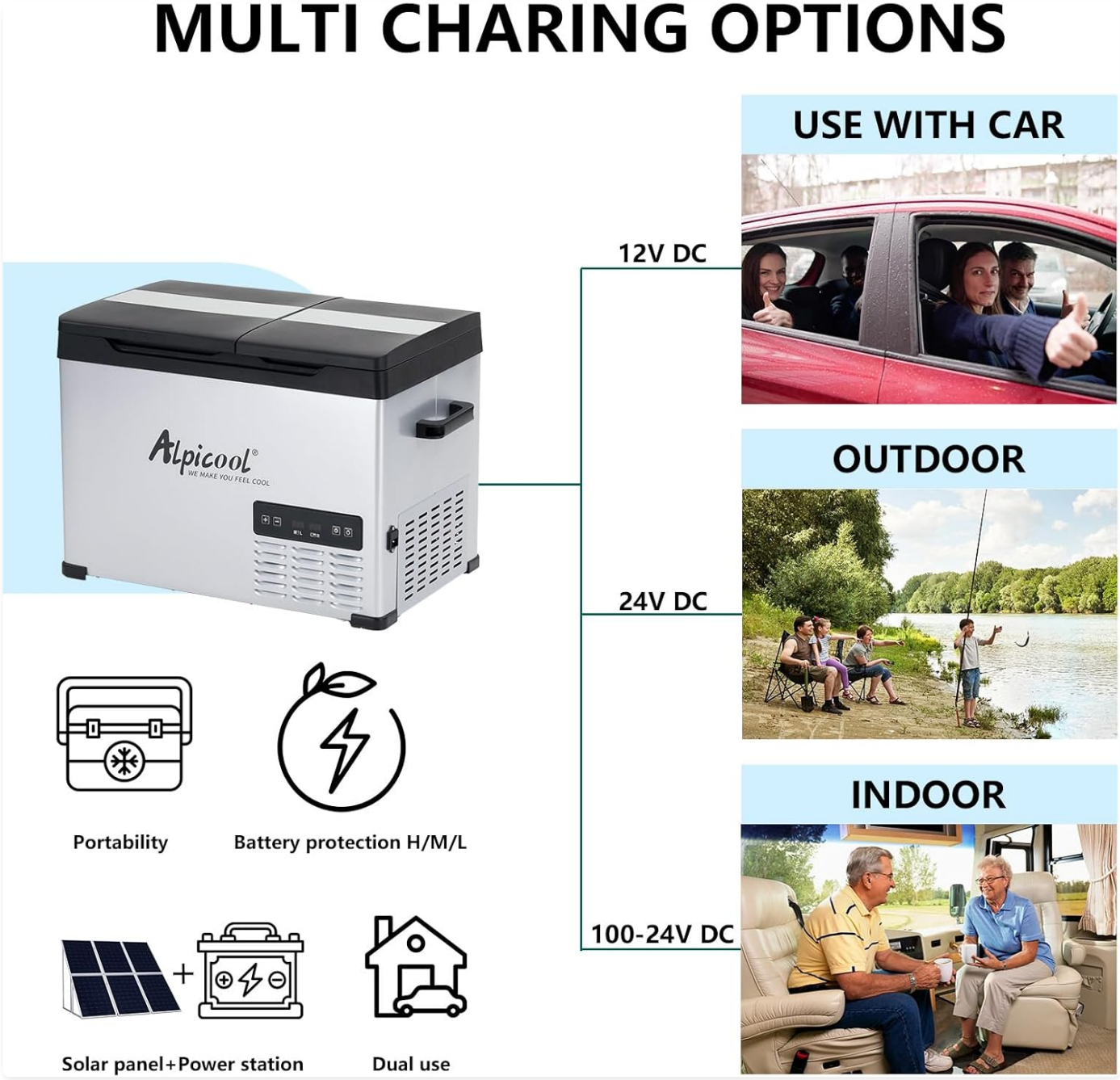


Figure 2: Illustration of the multi-charging options for the Alpicool CHS45, including 12V DC for car use, 24V DC for outdoor use, and 100-240V DC for indoor use, highlighting its versatility.

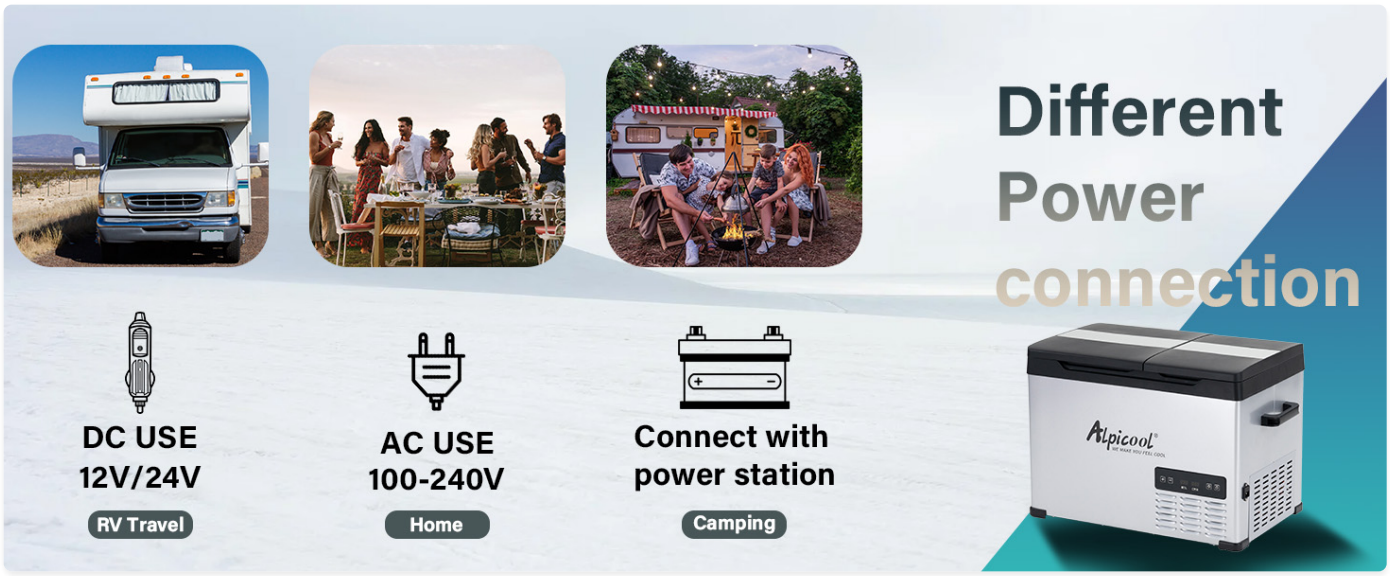


Figure 3: Visual representation of various power connection methods for the Alpicool CHS45, including DC 12V/24V for RV travel, AC 100-240V for

home use, and connection with a power station for camping.

3.2 Initial Cooling

For optimal performance, it is recommended to pre-cool the unit before loading it with contents. Plug in the cooler and set the desired temperature. The unit can reduce its internal temperature from 25°C (77°F) to 0°C (32°F) in approximately 15 minutes.

4. Operating Instructions

The Alpicool CHS45 features an intuitive control panel for easy operation.



Figure 4: Detailed view of the touchable control panel, showing buttons for increasing/decreasing temperature, settings, power switch, and the digital display panel. Also highlights physical features like the door latch, handle, vent cover, drain plug, and foot pads.

4.1 Control Panel Functions

- **Power Button:** Press to turn the unit ON/OFF.
- **Temperature Adjustment (+/-):** Use these buttons to increase or decrease the desired temperature.

- **Setting Button:** Press to cycle through settings such as temperature units (°C/°F) or battery protection modes (H/M/L).
- **Display Panel:** Shows the current temperature and other operational indicators.

4.2 Temperature Range and Modes

The Alpicool CHS45 offers an adjustable temperature range from -20°C to 20°C (-4°F to 68°F). It can function as both a freezer and a refrigerator.

- **As a Freezer:** -20°C to 0°C (-4°F to 32°F) - Ideal for ice cubes, ice cream, meat, and seafood.
- **As a Refrigerator:** 0°C to 20°C (32°F to 68°F) - Suitable for beverages, fruits, and vegetables.



Figure 5: Diagram illustrating the adjustable temperature range of the Alpicool CHS45, showing its capability to function as a freezer (-20°C to 0°C) for items like meat and ice cream, and as a refrigerator (0°C to 20°C) for drinks and produce.

4.3 Dual Compartment Operation

The unit features two independent compartments, each with its own temperature control. This allows you to set different temperatures for each zone, for example, one side as a freezer and the other as a refrigerator.



Figure 6: Visual representation of the Alpicool CHS45's dual compartments with separate doors, emphasizing individual temperature control and the MAX/ECO modes for efficient operation.

4.4 Energy Saving Modes (MAX/ECO)

The Alpicool CHS45 offers two operational modes to optimize energy consumption:

- **MAX Mode:** Provides maximum cooling power for rapid temperature reduction.
- **ECO Mode:** Optimizes energy efficiency, ideal for maintaining temperature once the desired level is reached. The compressor will cycle on and off to conserve power.

5. Maintenance

Regular maintenance ensures the longevity and efficient operation of your cooler.

5.1 Cleaning

- Always unplug the unit before cleaning.

- Clean the interior and exterior with a damp cloth and mild detergent. Avoid abrasive cleaners.
- Ensure the unit is completely dry before reconnecting power.
- The unit has a drain plug for easy water removal during cleaning or defrosting.

5.2 Ventilation

Keep the ventilation grilles clear of obstructions to allow for proper airflow and efficient cooling. Blocked vents can lead to overheating and reduced performance.

6. Troubleshooting

If you encounter issues with your Alpicool CHS45, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Unit does not turn on.	No power, faulty power cord, vehicle battery low.	Check power connection. Ensure vehicle battery has sufficient charge. Adjust battery protection mode (see below).
Unit not cooling effectively.	Blocked vents, ambient temperature too high, door not sealed properly, ECO mode selected.	Clear vents. Ensure proper door seal. Switch to MAX mode for faster cooling.
Unusual noise from unit.	Unit not level, fan obstruction.	Place unit on a flat, stable surface. Check for any obstructions near the fan.

6.1 Car Battery Protection Mode

The cooler is equipped with a 3-level battery protection system (H - High, M - Medium, L - Low) to prevent your car battery from draining. If the unit stops working, it might be due to the battery protection activating.

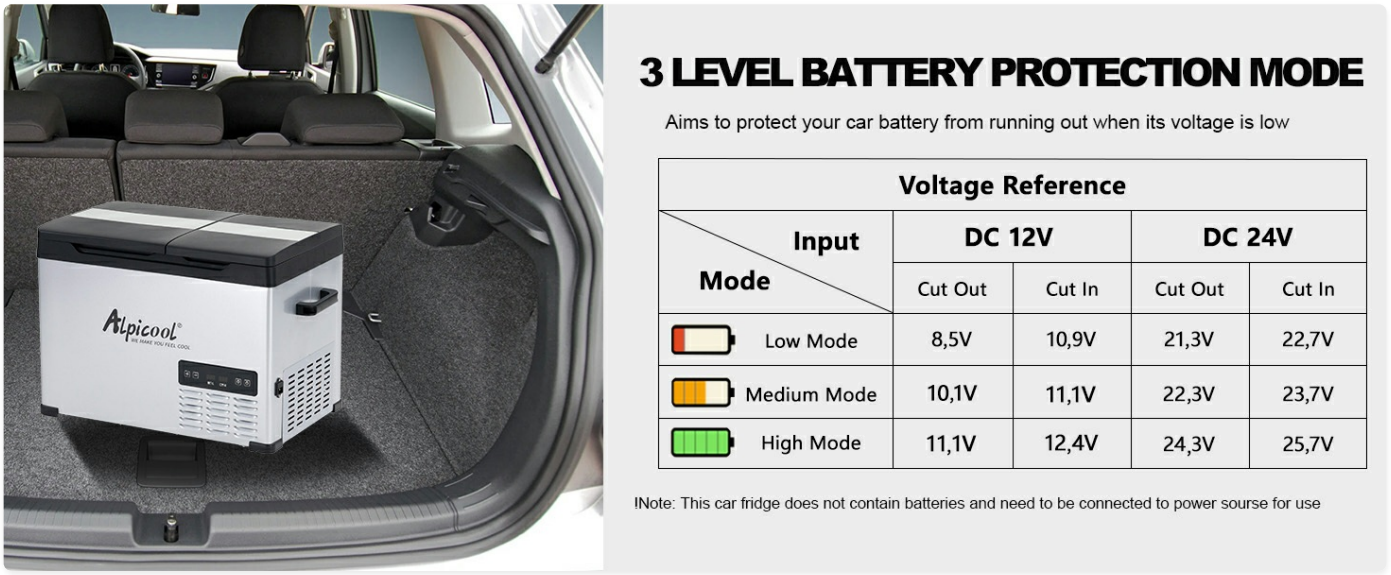


Figure 7: Table detailing the 3-level battery protection mode (Low, Medium, High) with corresponding cut-out and cut-in voltages for both 12V and 24V DC inputs, designed to protect your car battery.

If the voltage drops below the "Cut Out" value for the selected mode, the cooler will automatically shut off. It will resume operation when the voltage rises above the "Cut In" value. Adjust the mode (H, M, L) via the control panel settings if you experience frequent shutdowns due to low voltage.

7. Specifications

Detailed technical specifications for the Alpicool CHS45 32L Portable Car Refrigerator Freezer:

Feature	Specification
Model	CHS45
Capacity	32 Liters (approx. 31.3 Microliters as per spec, likely a typo, 32L is the common marketing capacity)
Dimensions (L x W x H)	66.5 x 44 x 48 cm (26.2 x 17.3 x 18.9 inches)
Weight	14.2 Kilograms (31.3 lbs)
Voltage	DC 12V/24V, AC 100-240V
Noise Level	<45 dB
Temperature Range	-20°C to 20°C (-4°F to 68°F)
Defrost System	Automatic
Origin	China

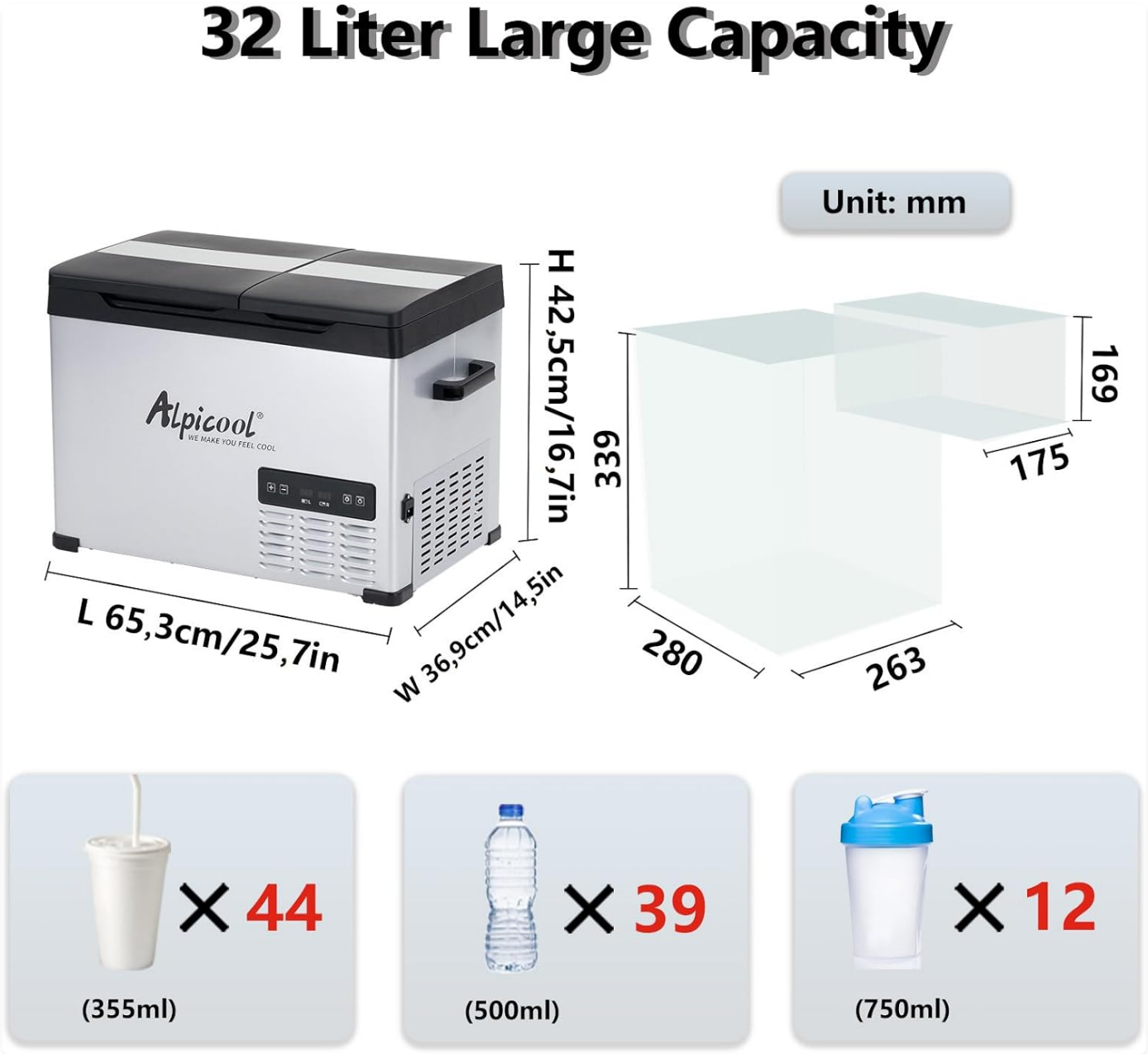


Figure 8: Dimensions of the 32-liter Alpicool CHS45 cooler (L 65.3cm, W 36.9cm, H 42.5cm) and visual representation of its capacity, showing it can hold approximately 44 x 355ml cans, 39 x 500ml bottles, or 12 x 750ml bottles.

8. Warranty and Support

Information regarding specific warranty terms is not provided in this manual. For warranty claims, technical support, or spare parts availability, please contact Alpicool customer service directly or refer to the product's purchase documentation.



Figure 9: Image showing typical accessories included in the package for Alpicool CHS Series Car Freezers, such as an AC adapter with AC cord, a 2.5-meter DC cord, and a user manual.

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