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Alpicool K25

Alpicool K25 25L Portable Electric Compressor Refrigerator User Manual

Model: K25 | Brand: Alpicool

1. Important Safety Information

Please read all safety warnings and instructions carefully before using this appliance. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

- Ensure the power supply voltage matches the appliance's requirements (12/24V DC or 100-240V AC).
- Do not operate the appliance with a damaged cord or plug.
- Keep ventilation openings clear of obstructions.
- Do not use electrical appliances inside the refrigerator unless they are of the type recommended by the manufacturer.
- Avoid placing the appliance in direct sunlight or near heat sources.
- Do not immerse the appliance in water or other liquids.
- 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 K25 is a portable electric compressor refrigerator/freezer designed for versatile use in vehicles, homes, dorms, camping, and outdoor activities. It offers a 25-liter capacity and a wide temperature range from -20°C to 20°C.

2.1 Components

Familiarize yourself with the main components of your Alpicool K25 unit:



Image 1: Overview of Alpicool K25 components including porous heat dissipation, latch, control panel, two handles, DC 12V/24V input, chain, drain plug, and LED light.

- **Porous Heat Dissipation:** Ensures efficient cooling and prevents overheating.
- **Latch:** Securely closes the lid to maintain internal temperature.
- **Control Panel:** For adjusting temperature and settings.

- **Two Handles:** For easy portability.
- **DC 12V/24V Input:** Power connection for vehicle use.
- **Chain:** Prevents the lid from opening too far.
- **Drain Plug:** For easy cleaning and water drainage.
- **LED Light:** Illuminates the interior for visibility.

2.2 Key Features

- **Dual Functionality:** Operates as both a refrigerator and a freezer.
- **Wide Temperature Range:** Adjustable from -20°C to 20°C (-4°F to 68°F).
- **Efficient Cooling:** Reaches 0°C (32°F) from 20°C (68°F) in approximately 15 minutes.
- **Excellent Insulation:** 1.7 inches (44mm) thick insulation maintains temperature for over 10 hours after power off.
- **Low Energy Consumption:** Consumes only 1kWh over 2-4 days, depending on settings.
- **Battery Protection:** Features 3 modes of battery protection to prevent vehicle battery drain.



Image 2: Demonstrates the rapid cooling capability and insulation thickness of the Alpicool K25, showing temperature drop over time.



Image 3: Illustrates the multi-application use of the Alpicool K25 for different food items, suggesting optimal temperatures for fruits, drinks, ice cream, and meat/seafood.



Image 4: Details the 25L capacity of the Alpicool K25, including internal dimensions and examples of how many cans, bottles, or water packs it can hold.

3. Setup and Installation

3.1 Unpacking

Carefully remove the refrigerator from its packaging. Inspect the unit for any damage that may have occurred during transit. Keep the packaging materials for future storage or transport if needed.

3.2 Placement

Place the refrigerator on a flat, stable surface. Ensure there is adequate ventilation around the unit, especially around the heat dissipation areas, to allow for proper airflow and efficient cooling. Avoid placing it in direct sunlight or near heat sources.

3.3 Power Connection

The Alpicool K25 can be powered by either DC (12V/24V) or AC (100-240V) power sources.

- **DC Power (Vehicle Use):** Connect the provided 2.5m DC power cord to the DC 12V/24V input port on the refrigerator and then to your vehicle's cigarette lighter socket or a dedicated 12V/24V power outlet.
- **AC Power (Home/Dorm Use):** Connect the provided AC power cord with the adapter to the AC input port on the refrigerator and then to a standard 100-240V wall outlet.

After connecting to power, the unit will typically display the current internal temperature and enter standby mode or begin cooling, depending on previous settings.



Image 5: Highlights the low energy consumption and the 3 modes of battery protection, which automatically power off the unit to prevent vehicle battery overload or low voltage.

4. Operating Instructions

4.1 Powering On/Off

Press and hold the power button on the control panel to turn the refrigerator on or off. The display will illuminate when the unit is powered on.

4.2 Temperature Adjustment

Use the **+** and **-** buttons on the control panel to set the desired temperature. The temperature range is from -20°C to 20°C. The display will show the set temperature, and then revert to showing the current internal temperature once set.

4.3 Cooling Modes (MAX/ECO)

The unit typically features different cooling modes for efficiency. Refer to the control panel for specific mode selection. Common modes include:

- **MAX Mode:** Provides rapid cooling to reach the set temperature quickly. This mode consumes more power.
- **ECO Mode:** Operates with lower power consumption for energy efficiency, ideal for maintaining temperature once the desired level is reached.

4.4 Battery Protection Modes

The Alpicool K25 includes three levels of battery protection (High, Medium, Low) to prevent your vehicle's battery from draining. You can select the desired level via the control panel settings. The unit will automatically power off if the input voltage drops below the selected threshold.

- **High:** Provides the highest level of battery protection, shutting off at a higher voltage.
- **Medium:** A balanced protection level.
- **Low:** Allows the unit to operate at a lower voltage before shutting off, maximizing run time but with less battery protection.

5. Maintenance and Care

5.1 Cleaning

- Always disconnect the power supply before cleaning.
- Clean the interior and exterior surfaces with a damp cloth and mild detergent.
- Do not use abrasive cleaners or harsh chemicals.
- Ensure the drain plug is open to allow water to escape during cleaning.
- Regularly clean the ventilation grilles to ensure proper airflow.

5.2 Defrosting

Frost may accumulate on the interior cooling surfaces, especially when operating as a freezer. To defrost:

- Turn off the unit and disconnect it from the power supply.
- Remove all contents.
- Leave the lid open and place a towel inside to absorb melting ice.
- Do not use sharp objects to remove ice, as this can damage the cooling system.

- Once defrosted, wipe the interior dry before restarting the unit.

5.3 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.

6. Troubleshooting Guide

Before contacting customer service, please refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Unit does not turn on.	No power supply; faulty power cord; vehicle battery low.	Check power connections; try a different power outlet/vehicle socket; check vehicle battery voltage.
Unit is not cooling effectively.	Lid not closed properly; insufficient ventilation; ambient temperature too high; too much content; frost buildup.	Ensure lid is sealed; clear ventilation openings; move to a cooler area; reduce contents; defrost the unit.
Display shows an error code.	Internal fault or sensor issue.	Refer to the full user manual for specific error code meanings and solutions. If the problem persists, contact customer support.
Excessive noise.	Unit not on a flat surface; fan obstruction.	Place on a stable, flat surface; check for any obstructions around the fan.

7. Specifications

Feature	Specification
Model	K25
Capacity	25 Liters
Dimensions (D x W x H)	33.5 cm x 58.5 cm x 35 cm (13.2" x 23" x 13.8")
Weight	10.2 kg (22.5 lbs)
Power Input	DC 12V/24V, AC 100-240V
Rated Input Power	60W
Rated Current	DC 5.0A/2.5A, AC 1.2A-0.5A
Temperature Range	-20°C to 20°C (-4°F to 68°F)
Noise Level	<45 dB

Feature	Specification
Cooling Method	Compressor

8. Warranty and Support

For warranty information and customer support, please refer to the documentation included with your purchase or visit the official Alpicool website. Keep your proof of purchase for warranty claims.
If you encounter any issues not covered in this manual, please contact Alpicool customer service for assistance.

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