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› [Alpicool](#) /

› Alpicool EC20 20L Portable Refrigerator User Manual

Alpicool EC20

Alpicool EC20 20L Portable Refrigerator User Manual

Model: EC20

INTRODUCTION

Thank you for choosing the Alpicool EC20 Portable Refrigerator. This appliance is designed to provide efficient cooling and freezing for various applications, including car travel, camping, and home use. With its robust design and advanced features, the EC20 ensures your food and beverages remain fresh and cool, or even frozen, wherever you go.

This manual contains important information regarding the safe operation, installation, and maintenance of your Alpicool EC20. Please read it thoroughly before using the product and keep it for future reference.



Image: The Alpicool EC20 portable refrigerator, a compact and durable unit designed for cooling and freezing on the go.

SAFETY INSTRUCTIONS

- Ensure the power supply matches the voltage specified on the appliance's rating label.
- Do not operate the refrigerator if the power cord is damaged or if the appliance shows any signs of malfunction.
- Keep the ventilation openings clear of obstructions to ensure proper airflow and prevent overheating.
- Avoid placing the refrigerator in direct sunlight or near heat sources.
- Do not immerse the appliance in water or expose it to heavy rain.
- Always disconnect the power supply before cleaning or performing any maintenance.
- This appliance can be used by children aged 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

PRODUCT FEATURES

- **Ice-Free Freezing:** Capable of deep cooling down to -20°C, functioning as both a refrigerator and a freezer.
- **Robust Design:** Shock-resistant and durable construction, designed to handle rough roads. Operates effectively at angles up to 45° for short periods.
- **Excellent Insulation:** Features reliable sealing and thick, high-density foam insulation to maintain cooling performance and energy efficiency.
- **Dual Power Modes:** MAX and ECO modes allow for adjustable power consumption. Average energy consumption is less than 1 kWh/day in ECO mode.
- **Detachable Battery Compatibility:** Can be used with detachable batteries (not included, sold separately) for extended portable use.
- **User-Friendly Interface:** Equipped with a touch control panel and LED digital display for easy operation.
- **USB Port:** Convenient for charging small electronic devices.
- **Removable Door:** Facilitates effortless deep cleaning and hygiene.
- **3-Level Battery Protection:** Prevents car battery from excessive discharging when powered by the vehicle.

TOUCHABLE CONTROL PANEL EASY OPERATION



Detachable battery



Door latch



Car/Home/Solar



USB port



LED digital display



Removable door



Image: A detailed view of the Alpicool EC20's touchable control panel, detachable battery compartment, door latch, USB port, LED digital display, and removable door, highlighting its user-friendly design.

Image: Illustration of the Alpicool EC20's dual power modes: ECO Mode for power saving (33W) and MAX Mode for fast cooling (45W), demonstrating energy efficiency and rapid temperature reduction.

SETUP

Unpacking and Initial Placement

1. Carefully remove the refrigerator from its packaging.
2. Inspect the appliance for any shipping damage. If damage is found, do not operate and contact your retailer.
3. Place the refrigerator on a flat, stable surface. Ensure there is adequate ventilation around the unit, especially around the compressor and fan areas.

4. Allow the refrigerator to stand upright for at least 6 hours before connecting it to power. This allows the refrigerant to settle.

Power Connection

The Alpicool EC20 can be powered by 12/24V DC (car cigarette lighter) or 100-240V AC (standard wall outlet).

- **DC Power (12/24V):** Connect the DC power cord to the refrigerator's DC input port and then to your vehicle's cigarette lighter socket.
- **AC Power (100-240V):** Connect the AC adapter to the refrigerator's AC input port, then plug the adapter into a standard wall outlet.

Ensure the power source is stable and provides the correct voltage. The refrigerator features a 3-level battery protection system to prevent excessive discharge of your vehicle's battery. You can adjust this setting via the control panel (see Operating section).

GO CAMPING WITH YOUR PARINERS



DC Power



AC Power



Solar Panel

+



Power station



Image: The Alpicool EC20 portable refrigerator shown with various power options including DC power (for vehicles), AC power (for home use), and compatibility with solar panels and power stations, illustrating its versatile power capabilities.

Control Panel Overview

The Alpicool EC20 features a touch control panel with an LED digital display. The main controls typically include:

- **Power Button:** To turn the unit ON/OFF.
- **SET Button:** To enter settings mode or confirm selections.
- **Temperature Adjustment Buttons (+/-):** To increase or decrease the target temperature.
- **Mode Button (if separate):** To switch between MAX and ECO modes.

Setting the Temperature

1. Press the Power button to turn on the refrigerator. The current internal temperature will be displayed.
2. Press the SET button once. The temperature display will flash.
3. Use the + or - buttons to adjust the desired temperature. The temperature range is typically from 20°C down to -20°C.
4. Press the SET button again to confirm the setting, or wait a few seconds for the setting to automatically save.

Switching MAX/ECO Modes

The EC20 offers two operating modes:

- **MAX Mode:** Provides rapid cooling, ideal for quickly reaching the desired temperature.
- **ECO Mode:** Optimizes energy consumption, suitable for maintaining temperature over longer periods, especially when power efficiency is critical.

To switch modes, press the SET button and hold it for approximately 3 seconds until the mode indicator changes (e.g., 'E' for ECO, 'H' for MAX/High). Release the button to select the desired mode.

Battery Protection Setting

This feature protects your vehicle's battery from excessive discharge. There are three levels: Low (L), Medium (M), and High (H).

- **High (H):** Highest protection, the refrigerator will cut off power at a higher battery voltage. Recommended for vehicle starter batteries.
- **Medium (M):** Moderate protection.
- **Low (L):** Lowest protection, allows the refrigerator to operate at lower battery voltages. Recommended for deep cycle batteries or external power stations.

To adjust the battery protection level, turn off the refrigerator. Press and hold the SET button until the current protection level (H, M, or L) is displayed. Use the SET button to cycle through the levels. The setting will automatically save after a few seconds.

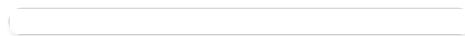


Image: An illustration demonstrating the Alpicool EC20's 3-level battery protection system (Low, Medium, High), which prevents excessive discharge of a car battery when the refrigerator is in use.

MAINTENANCE

Cleaning

1. Always disconnect the power supply before cleaning.

- 2. Clean the interior and exterior of the refrigerator with a damp cloth and a mild detergent. Avoid abrasive cleaners or solvents.
- 3. The removable door feature allows for thorough cleaning of the interior.
- 4. Ensure the unit is completely dry before reconnecting power.
- 5. Regularly clean the ventilation grilles to prevent dust buildup, which can affect cooling efficiency.

Storage

If 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.

TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Refrigerator not turning on	No power supply; Damaged power cord; Blown fuse in vehicle.	Check power connection; Try a different power outlet/vehicle socket; Inspect and replace fuse if necessary.
Poor cooling performance	Insufficient ventilation; Door not sealed properly; Ambient temperature too high; Overloaded with warm items.	Ensure clear ventilation; Check door seal; Operate in a cooler environment; Allow time for cooling.
Displaying "F2" error	Compressor overload or high temperature.	Disconnect power for 10 minutes, then restart. Ensure proper ventilation. If error persists, contact support.
Displaying "E1" error	Low voltage input.	Check power source voltage. Adjust battery protection level to 'L' if using a low-voltage source (e.g., some power stations). Recharge vehicle battery if necessary.
Unusual noise	Unit not level; Items inside rattling; Normal compressor operation.	Ensure unit is on a flat surface; Secure items inside; A slight humming or gurgling sound from the compressor is normal.

SPECIFICATIONS

Feature	Detail
Model Name	EC20
Capacity	20 Litres
Cooling Range	-20°C to 20°C (-4°F to 68°F)
Power Source	12V/24V DC, 100-240V AC

Feature	Detail
Dimensions (L x W x H)	58.9 x 32 x 32 cm (23.2 x 12.6 x 12.6 inches)
Net Weight	8.6 kg (19 lbs)
Noise Level	45 dB
Refrigerant	R134a (or equivalent, refer to product label)
Power Consumption (ECO Mode)	Approx. 33W
Power Consumption (MAX Mode)	Approx. 45W

SPECIFICATION



Model Name:	EC20
Capacity:	20 L
Cooling Range:	-4°F~68°F(-20°C~20°C)
Power Source:	12/24V DC 100~240V AC
Dimension:	23,54*12,60*12,60 inches 59,8*32*32 cm
Net Weight:	8,8kg/19,4lbs

Image: A visual representation of the Alpicool EC20's key specifications, including model name, capacity, cooling range, power source, dimensions, and net weight.

WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the warranty card included with your product or visit the official Alpicool website. Typically, warranty details cover manufacturing defects for a specified period from the date of purchase.

When contacting support, please have your product model (EC20) and purchase details ready. This will help expedite the support process.

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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.

Submit question