

User Manual

Compressor Car Refrigerator
DCR-25A, DCR-30A,
DCR-40A, DCR-50A

DEXP by **Alpicool®**
WE MAKE YOU FEEL COOL

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Dear Customer,

Thank you for choosing our products.

We are pleased to offer you appliances and devices designed and manufactured to the highest standards of quality, functionality, and design. Before using the device, please read this manual carefully. It contains important information regarding your safety, as well as recommendations for the proper use and care of the product. Please keep this manual in a safe place and use it as a reference guide during future operation of the product.

Intended Use

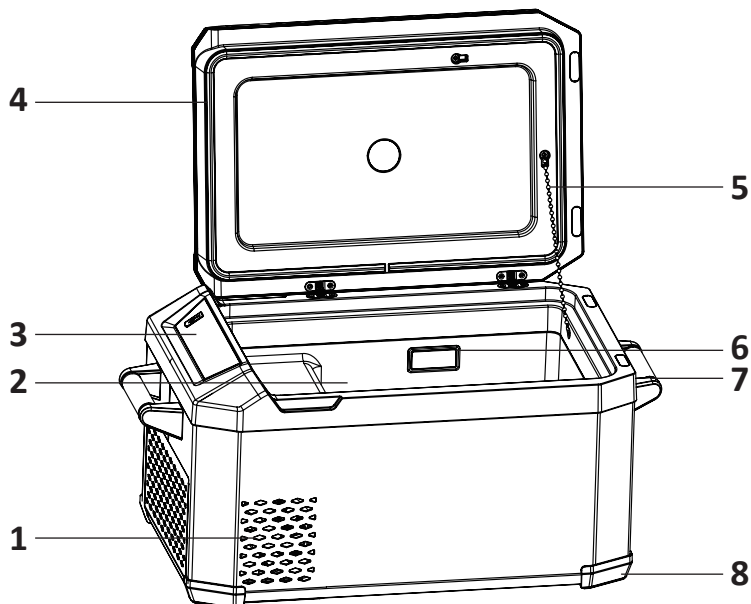
The device is designed to cool and maintain the temperature of food products in a vehicle.

Safety Precautions

- Use the device exclusively for the purposes described in this manual.
- This device is intended for use in household and similar environments, such as: staff kitchen areas in shops, offices, and other working environments; in farm-houses, hotels, motels, and other residential environments; in bed and breakfast type establishments; in catering services.
- Before first use, allow the refrigerator to sit on a flat surface for at least 6 hours.
- Use only the accessories supplied with the device. Using of any other accessories may pose a risk to life and health and will void your warranty.
- Unplug the device from the power source when not in use, before cleaning and if a malfunction occurs.
- Do not immerse the device in water to avoid damaging the electronic unit, and do not operate the device in the rain or on wet surfaces.
- This device 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 appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the device.
- To avoid the risk of fire, do not store explosive or flammable substances in or near the refrigerator.
- This device is not intended for commercial use.
- Do not make any modifications to the device's design..
- Do not use the device if visible damage is detected. Unplug it immediately and contact an authorized service center.
- Do not place electrical appliances inside the refrigerator.
- Do not use the device near heat sources or expose it to direct sunlight.
- Do not disassemble the device yourself to avoid electric shock. This device contains no user-serviceable parts. Maintenance and repairs should only be performed by qualified technicians at an authorized service center.
- Place the device only on flat, stable surfaces; do not place it near the edge of a table.
- Arrange food items inside the refrigerator so that they do not come into contact with each other or become damaged during transport.

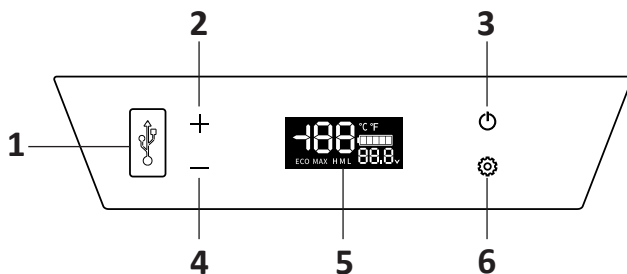
- Make sure the cooling capacity of the device is suitable for storing specific food items or medications. It is recommended to store products in their original packaging or in sealed containers.
- Raw meat and fish should be stored in sealed containers to prevent contact with other food items.
- To avoid an increase in temperature inside the cooling compartment, do not leave the lid open for extended periods.
- When using the device in a vehicle:
 - Secure the device using straps or mounting brackets.
 - Make sure the cable is not taut or pinched.
 - Make sure the cable does not come into contact with sharp edges.
 - Use a cable of the appropriate size and type.
- To ensure proper operation, place the device strictly horizontally. The permissible tilt angle is up to 5° for long-term operation and up to 45° for short-term operation. If the refrigerator has been turned upside down or transported at an angle exceeding 45°, place it in a horizontal position for 24 hours before turning it on.
- Do not insert pins, wires, or other objects into the ventilation openings.
- Regularly clean the internal surfaces and ventilation openings of the device.
- Connection of the device to the DC power source on a yacht or boat must be carried out exclusively by a qualified specialist.

Device Diagram



- 1. Compressor compartment.
- 2. Cooling compartment.
- 3. Control panel.
- 4. Lid seal.
- 5. Lid chain.
- 6. LED lamp.
- 7. Handle.
- 8. Support foot.

Control Panel



- 1. USB connector.
- 2. Temperature increase button.
- 3. Power button.
- 4. Temperature decrease button.
- 5. Display.
- 6. Settings menu button.

Connection

Connect one end of the included cable to the device, and the other end to the cigarette lighter socket.

You can also connect the device to a 100–240 V AC power source using the included adapter.

Note: When connected to a power source, a long beep will sound, the display will turn on for 1 second, after which the device will switch to standard operating mode (MAX mode, temperature displayed in °C).

Operating Instructions

Power On/Off

- After connecting the device to a power source, press the «  » button to turn on the device.
- To turn off the device, press and hold the «  » button.

Temperature Setting

- To increase the temperature inside the refrigerator, press the «  » button.
- To decrease the temperature, press the «  » button.
- The selected setting will be saved automatically 3 seconds after the last button press.

Temperature range: from +20 °C to -20 °C.

Note: The display shows the current temperature inside the cooling compartment. It will take some time to reach the set temperature.

Recommended Temperature for Different Types of Food

Food Type	 Drinks	 Fruit	 Vegetables	 Snacks	 Wine	 Ice cream	 Meat
Temp. (°C)	5	5–8	3–10	4	10	-10	-18

Operating Modes

Two operating modes are available:

- MAX (maximum mode, set by default): the compressor runs at full power, cools faster, but consumes more electricity.
- ECO (eco-friendly mode): the compressor runs at minimum power, cools more slowly, but saves energy.

Press the «  » button to switch between operating modes.

Battery Protection

Press and hold the «  » button for 3 seconds. When the display starts flashing, press the button again to select the protection mode. The default mode is “H” (high protection level).

Mode	12 V		24 V	
	On	Off	On	Off
H (high level)	12.4 V	11.1 V	25.7 V	24.3 V
M (medium level)	11.4 V	10.4 V	23.7 V	22.3 V
L (low level)	10.9 V	8.5 V	22.7 V	21.3 V

Note: Mode “H” should be set when connecting the device to a vehicle’s electrical system, while mode “M” or “L” should be used when connecting to a portable battery or other backup power source.

Switching °F/°C

1. Turn off the device, then press and hold the «  » button for 3 seconds — the display will show «E1».
2. Press the «  » button again to enter mode «E5».
3. Press the «  » and «  » buttons to switch between Celsius (°C) and Fahrenheit (°F).

Default temperature unit: °C.

Resetting Settings

1. Turn off the device, then press and hold the «  » button for 3 seconds — the display will show «E1».
2. In «E1» mode, press and hold the «  » and «  » buttons simultaneously for 3 seconds to perform a reset.

Defrosting

The formation of ice inside the cooling compartment is normal. The intensity of ice buildup depends directly on air humidity levels and may reduce cooling performance. Defrost regularly.

1. Turn off the device.
2. Disconnect the power cable, open the lid, and remove all contents from the refrigerator.
3. Allow the ice to melt naturally, leaving the lid open.
4. Open the lid and drain the water.
5. Use a soft cloth to remove any remaining water.
6. Before turning the refrigerator back on, dry the inside thoroughly.

CAUTION:

- Do not use sharp objects to remove ice.
- Do not use heating appliances to defrost the cooling compartment.

Specifications

Model		DCR-25A	DCR-30A	DCR-40A	DCR-50A
Trademark		DEXP			
Power consumption		60 W			
Power supply (device)		12 V = 5 A; 24 V = 2.5 A			
Power supply (adapter)	Input	100–240 V ~ 50–60 Hz			
	Output	14.5 V, 4.1 A			
Output connector		USB Type-A, 5 V = 1 A			
Noise level		≤ 45 dB			
Capacity (L)		21	28	35	46
Temperature range		From -20 °C to +20 °C			
Climate class		T, ST, N			
Refrigerant		R1234yf			
Refrigerant mass		24 g	40 g		
Insulation		C5H10 (Cyclopentane)			
Weight (kg)		12.8	13.9	14.7	15.6
Dimensions (W × D × H)		702 × 367 × 331 mm	702 × 367 × 381 mm	702 × 367 × 451 mm	702 × 367 × 521 mm
Protection class		II			
IP code		IPX1			
Scope of application		Domestic			
Package contents		Device, DC 12 V power cable, AC 220 V power adapter, user manual			

External Power Source Capacity Table

Indicator	Charge Level	Reference Voltage	
		8.5–12 V / 17 V	21.3–24 V / 31.5 V
	< 10%	< 10.2 V	< 22.3 V
	10–30%	9.8–10.7 V	21.4–23.2 V
	30–50%	10.2–11.1 V	22.2–24.0 V
	50–70%	10.7–11.6 V	23.1–24.9 V
	70–90%	11.2–11.7 V	23.9–25.7 V
	> 90%	> 12.1 V	> 24.7 V

Troubleshooting Guide

Issue	Possible Causes and Solutions
The refrigerator does not work	• Make sure the device is plugged in • Check if the fuse has blown • Make sure the power source is working • Frequent switching on/off may cause a delay in compressor startup
The cooling compartment is too warm	• The lid has been opened too often • A large amount of warm or hot food has been placed inside • The refrigerator was disconnected from power for an extended period
Food freezes	The temperature is set too low
A “flowing water” noise is heard inside the refrigerator	This is normal and is caused by the circulation of refrigerant
Water droplets appear on the housing or around the lid seal	This is normal: moisture condenses into water upon contact with the cold surface of the refrigerator
Slight compressor noise when starting the device	This is normal. The noise will decrease after the compressor switches to standard operating mode

Error Codes

Error Code	Cause	Possible Solution
F1	Low input voltage	Check the battery voltage and, if necessary, switch the protection level from high (H) to medium (M), or from medium (M) to low (L)
F2	Cooling fan overload	Disconnect the refrigerator for 5 minutes, then turn the device back on. If the code appears again, contact an authorized service center
F3	Compressor starts too frequently	
F4	Compressor does not start	
F5	Compressor or electronic components overheating	
F6	Controller does not detect parameters	
F7/F8	Temperature sensor malfunction	Contact an authorized service center

Maintenance and Care

1. Turn off the refrigerator and defrost it as described in the “Defrosting” section.
2. Wipe the cooling compartment with a soft cloth and a neutral detergent. Do not use abrasive substances, ammonia-based cleaners, or strong acids.
3. Do not immerse the refrigerator in water or wash it directly under running water.
4. To ensure proper operation, periodically clean the ventilation openings on the back panel of the refrigerator from accumulated dust and dirt.
5. Before extended periods of non-use, disconnect the device from the power source, remove all food items, and wipe all surfaces completely dry. Remove any remaining moisture with a soft cloth. To prevent unpleasant odors, leave the lid slightly open.

Rules and Conditions for Installation, Storage, Transportation, Sale (Distribution), and Disposal

- This device requires no assembly or mounting.
- The device must be stored in its original packaging, on heated premises, both at the manufacturer's and at the consumer's sites. The ambient temperature should be between +5 °C and +40 °C, and the relative humidity should not exceed 80% (non-condensing). The storage area must be free from aggressive contaminants (e.g., acid or alkali vapors) that could cause corrosion.
- The device must be transported in a dry place.
- The device requires careful handling. Protect it from exposure to dust, dirt, impact, moisture, fire, and other hazards.
- Sale or distribution of the device must be carried out in accordance with local legislation.
- Upon expiration of the device's service life, it must not be disposed of with unsorted household waste. Instead, it must be taken to an authorized collection point for electrical and electronic equipment for subsequent recycling and disposal in accordance with federal or local legislation. By ensuring proper disposal of this product, you help conserve natural resources and prevent potential harm to the environment and human health that may result from improper handling. For more detailed information about collection and disposal points for this product, please contact your local municipal authorities or your household waste disposal service.
- If a device malfunction is detected, immediately contact an authorized service center or dispose of the device.

Warranty Information

The manufacturer guarantees the device will function properly throughout the warranty period and be free from defects in materials and assembly. The warranty period commences on the date of purchase and applies to new products only. Warranty service includes free repair or replacement of defective parts that fail during the warranty period, provided the failure is not caused by consumer misuse and the product is operated in accordance with the user manual. Repairs or part replacements shall be performed at authorized service centers.

Warranty Period: 12 months

Service Life: 24 months

For the up-to-date list of authorized service centers, please visit:

<https://www.dns-shop.ru/service-center/>

Additional Information

Manufacturer: Foshan Alpicool Holding Group Co., Ltd.

No.3, ZhenZhu Road, Yang'e, Lunjiao Street, Shunde District, Foshan City, Guangdong Province, China.

Made in China.

The product meets the requirements of the technical regulations of the TR CU (EAEU).

Product specifications, information and appearance are subject to change without prior notice, for quality improvement of our products.



Production date (mm.yyyy): _____ V.1

