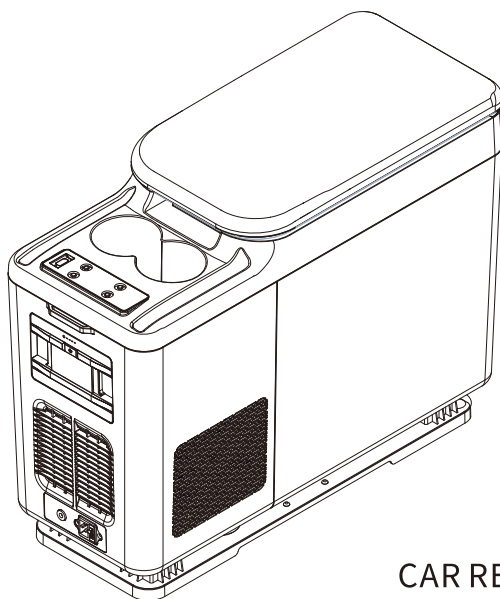


USER MANUAL



CAR REFRIGERATOR
Model: CF15
DC 12V/24V AC100-240V

Foshan Alpicool Electric Appliance Co., LTD.
Address: 13A ,Xinlong Road, ShilongJiyue Industrial Zone,
Xintang Village, Lunjiao Town ,Shunde District, Foshan City,
Guangdong,China

Please read this operating manual carefully before starting the device.
Keep it in a safe place for future reference.

Contents

1.Safety Instructions	-----	Page1
2.Product Features	-----	Page3
3.Product Structure	-----	Page3
4.Installation	-----	Page3
5.Function and Operation	-----	Page4
6.Rechargeable Battery(should be purchased separately) operation---		Page5
7.Cleaning and Storage	-----	Page6
8.Smart Control - Fridge APP Instructions	-----	Page7
9.Troubleshooting	-----	Page8

1. Safety Instructions

WARNING!

- Do not operate the appliance if it is visibly damaged.
- Do not block the gaps of the fridge with things like pin, wire, etc.
- Do not expose the appliance to rain or soak it in water.
- Do not place the appliance near naked flames or other heat sources (heaters, direct sunlight, gas ovens etc.)
- Do not store any explosive substances like spray cans with a flammable propellant.
- Ensure the supply cord is dry and not trapped or damaged. Do not locate multiple portable socket-outlets or portable power supplies at the rear of the appliance.
- Check the voltage specification on the type plate corresponds to that of the energy supply. The appliance is only to be used with the power supply unit provided with the appliance.
- Do not use electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer.
- Once unpacked and before turning on, the appliance must be placed on a level surface for more than 6 hours.
- Make sure that the appliance stays horizontally when it is running. The tilt angle must be less than 5° for long time running and be less than 45° for short time running.
- Keep the ventilation openings in the unit casing or in the built-in structure free of obstacles.
- Keep the appliance stable on the ground or in the car; Do not drain upside down.
- Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CAUTION!

- Repairs may only be carried out by qualified personnel. Incorrect repair may cause danger. The lamp and supply cord must be replaced by the manufacturer or qualified persons.
- The installation of DC power in the boat must be handled by qualified electricians.
- Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- The appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they've been given supervision or instruction concerning use of the device in a safe way and understand the hazards.

NOTICE!

- Disconnect the power supply before each cleaning and maintenance and after every use.
- Do not use sharp tools to defrost; Do not damage the refrigerant circuit.
- Risk of child entrapment. Before you throw away your old refrigerator or freezer: take off the doors: leave the shelves in place so that children may not easily climb inside.
- Check if the cooling capacity of the appliance is suitable for storing the food or medicine. Food may only be stored in its original packaging or in suitable containers.
- If the appliance is left empty for long periods, switch off, defrost, clean, dry, and leave the door open to prevent mould developing within the appliance.

- Check if the cooling capacity of the appliance is suitable for storing the food or medicine. Food may only be stored in its original packaging or in suitable containers.
- If the appliance is left empty for long periods, switch off, defrost, clean, dry, and leave the door open to prevent mould developing within the appliance.
- The appliance is intended to be used in household and similar applications such as:
 - Staff kitchen areas in shops, offices and other working environments;
 - Camping, Farm houses and by clients in hotels, motels and other residential environments;
 - Bed and breakfast type environments;
 - Catering and similar non-retail applications.



Please according to local regulations regarding disposal of the appliance for its flammable refrigerant and blowing gas.

- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 - Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help.
- To maintain compliance with FCC's RF exposure guidelines, the distance must be at least 20cm between the radiator and your body, and fully supported by the operating and installation configurations of the transmitter and its antenna(s).

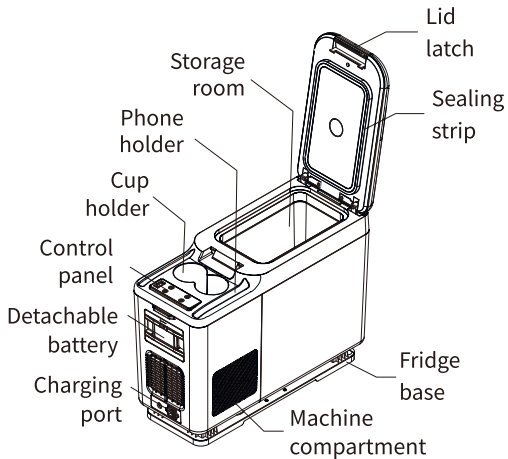
FCC NOTE: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

2. Product Features

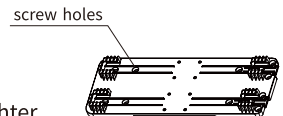
- High-efficiency DC compressor and conversion module.
- CFC free and great heat insulation.
- DC12/24V or AC 100~240V (using the adapter) power supply or solar(12-50V).
- Fast cooling to -15°C/5°F(based on 25°C/77°F room temperature).
- Intelligent battery protection system.
- Digital display control panel for temperature setting.
- Cup and phone holder design, USB charging port, detachable lithium battery.

3. Product Structure

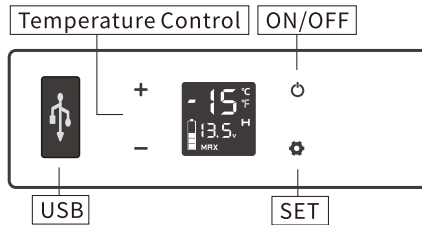








4. Installation

1. Remove the original car console.
2. Install the included fridge base and tighten the screws.
3. Install the console fridge on the car cigar lighter.
4. Connect the included DC power cable with the car cigar lighter.



5.Function and Operation



- **Power Supply:** connect to DC 12V/24V or AC 100~240V (using the adapter the adapter should be purchased separately) power supply, or solar panel(12-50V).
- **Display Screen Initialization:** the screen will be on for 2 seconds after connecting to the power supply.
- **Power On/Off:** press  to switch ON/OFF.
- **Temperature Setting:** press **+** or **-** for temperature setting, the setting will be saved automatically after stopping operating for 4 seconds(Note: the temperature displayed is the current temperature of the compartment, it'll take a while to reach the set temperature.) Temperature setting range: -18~+20°C (-0.4~+68°F)
- **Cooling Mode:** under the running state, press  to switch MAX(fast cooling) and ECO (Energy saving Mode).(*Factory setting is MAX.)
- **Temperature Unit Setting:** switch off the fridge, long press  for three seconds until E1 displays, keep pressing  until E5 displays. then press **+** or **-** to select Celsius or Fahrenheit.(*Factory setting is °C.)
- **Battery Protection Mode:** under the running state, long press  for three seconds until screen flashes, then press  again to select protection mode H(High), M(Middle) and L(Low) (*Factory setting is H.)


Voltage Reference:

INPUT MODE	DC 12V		DC 24V	
	CUT OUT	CUT IN	CUT OUT	CUT IN
L	8.5V	10.9V	21.3V	22.7V
M	10.1V	11.4V	22.3V	23.7V
H	11.1V	12.4V	24.3V	25.7V








*the voltage is theoretical value, there may be a deviation in different sceneries.

Due to the different output voltages between vehicles, H should be set when the product is connected to car power, and M or L should be set when it is connected to a portable battery or other back-up battery.

The battery gear should be set from H to M or from M to L if there is a voltage protection code F1 shown on the panel. The battery gear should be set to H if the product keeps working after turning off the car engine, or the product may drain the battery.

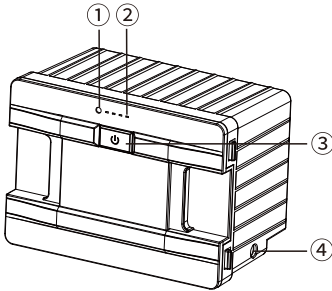
- **Reset:** switch off the fridge, long press  for three seconds until E1 displays, under E1 mode, long press **+ -** at the same time for three seconds to reset it.

■ Recommended temperature for common food:

						
Drinks	Fruits	Vegetable	Delicatessen	Wine	Ice cream	Meat
5°C/41°F	5~8°C/41~46°F	3~10°C/37~50°F	4°C/39°F	10°C/50°F	-10°C/14°F	-18°C/0°F

6.Rechargeable Battery(should be purchased separately)operation

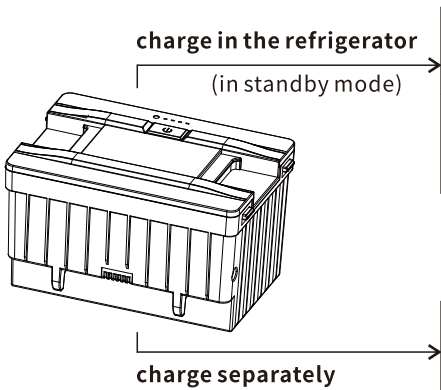
- **Battery ON/OFF:** long press the power button on the battery to switch ON/OFF. When the battery is OFF, short press the power button to show current battery.



Model: FSAK-002
 Capacity: 15600mAh/173Wh
 Rated Voltage: 11.1V
 Charging Limited Voltage(DC): 12.6V
 Charging Limited Current(DC): 3A
 ①Power Indicator (Green: charging; Blue: discharging)
 ②Battery Indicator (show current battery)
 ③Power Button ④DC Charging Port

⚠ Warning: do not disassemble the battery!

- **Battery charging (for reference only):**



- Wall outlet AC 100~240V (using dedicated adapter)**
(Charging time≈8h)
- Car cigarette lighter DC 12/24V**
(When the Input voltage>13.5V, charging time≈8h)
- Solar 12~50V**
(Connect to the "SOLAR" port of the refrigerator)
(When using 100W solar panel, charging time≈5h)
- Battery charger (optional)**
(Connect to the DC charging port of the battery)
(Charging time≈8h)
- Charging station (optional)**
(Charging time of a single battery≈4h)

Note: It is suggested to switch off the refrigerator when charging the battery (the power supply may mainly power the compressor when the refrigerator is running).

When connect to a solar panel, please place the refrigerator in a cool place to dissipate heat. The charging input power should be higher than the working power of the refrigerator (about 40-45W), or switch off the refrigerator, otherwise the battery will run out.

It is suggested to use 100W solar panel.

MAX Solar Input Voltage: 50V; MAX Solar Input Current:10A.

Note: the output of the solar panel is unstable, so it cannot power the refrigerator directly. When using a solar panel, the battery should be put into the refrigerator.

7.Cleaning and Storage

■Cleaning:

- Unplug the device first to avoid electric shock.
- Use wet cloth to clean the device and dry it.
- Do not soak the device in water and do not wash it directly.
- Do not use abrasive cleaning agents as these can damage the device.

■Storage:

If the device will not be in use for a long time, please follow the steps:

- Switch off the device.
- Remove all the items stored in the device.
- Wipe off excess water from the fridge with a soft rag.
- Put the device in a cool and dry place.
- Leave the lid slightly open to prevent odors from forming.

■Defrosting:

Humidity can form frost in the interior of the cooling device or on the evaporator. This reduces the cooling capacity. Defrost the device in good time to avoid this.


- Switch off the device.
- Take out the contents of the device.
- Keep the lid open.
- Wipe off the defrosted water.

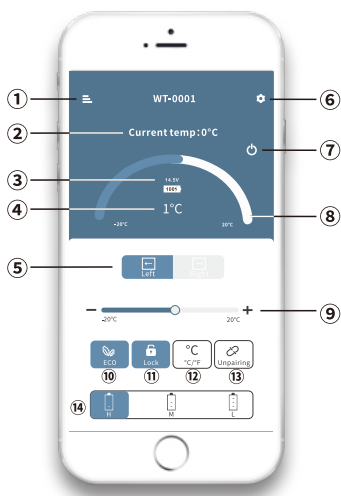


Never use hard or sharp tools to remove ice or to loosen objects which have frozen in place.

8. Smart Control - Fridge APP Instructions


First Step: Turn on the Bluetooth on your smart device; start the APP and click "Search" to find nearby fridges.

Second Step: Click fridge icon for Bluetooth pairing (the APP will prompt you to pair the fridge by pressing the set button  on the fridge's control panel when connecting the fridge for the first time). After pairing, the APP will switch to the main interface allowing you to control the fridge.



- ① MENU
- ② Current temperature
- ③ Current voltage
- ④ Target temperature
- ⑤ Switch Left/Right compartment
- ⑥ SET
- ⑦ ON/OFF
- ⑧ ⑨ Temperature control
- ⑩ ECO(Energy-saving) / MAX(Fast-cooling)
- ⑪ Lock / Unlock
- ⑫ Celsius / Fahrenheit
- ⑬ Unpairing the device and return to search
- ⑭ Battery protection mode: High/Medium/Low

Note:

*Click the lock icon  on the APP to lock/unlock the control panel on the fridge, if locked, the fridge can only be controlled by the APP.

Downloading the "CAR FRIDGE FREEZER" Application



IOS



Android

Scan the QR code on the left or search for the "CAR FRIDGE FREEZER" APP in the APP Store (for Apple devices) or Google Store (for Android devices).

9. Troubleshooting

Issues	Cause/Suggestions
Refrigerator does not work	<ul style="list-style-type: none"> • Check if the switch is on. • Check if the plug and socket are connected well. • Check if the fuse has been burnt. • Check if the power supply is malfunctioned. • Switch on/off the fridge frequently may cause start delay of the compressor.
Refrigerator compartments are too warm	<ul style="list-style-type: none"> • The door is opened frequently. • A large amount of warm or hot food was stored recently. • The refrigerator has been disconnected for a long time.
Food is frozen	<ul style="list-style-type: none"> • The temperature was set too low.
There is "water flow" noise from inside the refrigerator	<ul style="list-style-type: none"> • It's a normal phenomenon, caused by the flow of refrigerant.
There are waterdrops around the refrigerator casing or door gap	<ul style="list-style-type: none"> • It's a normal phenomenon, the moisture will condense to water when it touches a cold surface of the refrigerator.
The compressor is slightly noisy when starting	<ul style="list-style-type: none"> • It's a normal phenomenon, the noise will be reduced after the compressor works stably.
Code F1 displayed	<ul style="list-style-type: none"> • Possible cause: low voltage to fridge. Adjust the battery protection from High to Medium or from Medium to Low.
Code F2 displayed	<ul style="list-style-type: none"> • Possible cause: condenser fan is overloaded. Disconnect power to fridge for 5 minutes & re-start. If the code shows again, contact manufacturer for service.
Code F3 displayed	<ul style="list-style-type: none"> • Possible cause: the compressor starts too frequently. Disconnect power to fridge for 5 minutes & re-start. If the code shows again, contact manufacturer for service.
Code F4 displayed	<ul style="list-style-type: none"> • Possible cause: compressor not kicking in. Disconnect power to fridge for 5 minutes & re-start. If the code shows again, contact manufacturer for service.
Code F5 displayed	<ul style="list-style-type: none"> • Possible cause: overheating of the compressor & electronics. Disconnect power to fridge for 5 minutes & re-start. If the code shows again, contact manufacturer for service.
Code F6 displayed	<ul style="list-style-type: none"> • Possible cause: no parameter can be detected by the controller. Disconnect power to fridge for 5 minutes & re-start. If the code shows again, contact manufacturer for service.
Code F7 or F8 displayed	<ul style="list-style-type: none"> • Possible cause: temperature sensor is faulty. Contact manufacturer for service.

*For models with FSAK-002 detachable battery, if code F1 displayed, unplug or turn off the battery, or connect to DC12/24V/AC100-240V(using the adapter) power supply to power the compressor and battery in time to avoid long-term micro-current draining the battery.

*Due to product improvement, the technical information might be different from actual information, please refer to the rating label on the product.