

## Model CR 65

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

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## 1. Safety Instructions



**WARNING!** Failure to obey these warnings could result in malfunction of your device and possible injury for yourself and other users.

- Do not operate the refrigerator if it is visibly damaged.
- Do not block the gaps of the fridge with things like pin, wire, etc.
- Do not expose the refrigerator to rain or soak it in water.
- Do not place the refrigerator near naked flames or other heat sources (heaters, direct sunlight, gas ovens etc.)
- Do not store any explosive substances such as spray cans with a flammable propellant in the refrigerator.
- Before starting the refrigerator, ensure that the power supply line and the plug are dry.
- Check that the voltage specification on the type plate corresponds to that of the energy supply.
- Once unpacked and before turning on, the refrigerator must be placed on a level surface for more than 6 hours.
- Make sure that the refrigerator 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 good ventilation: the refrigerator must be well ventilated for heat dissipation and make sure to keep some space around it. (Back Space  $\geq$  200mm, Side Space  $\geq$  100mm)
- Keep it stable: put the refrigerator on the ground or in the car. Do not turn the refrigerator upside down for drainage.
- The appliance is only to be used with the power supply unit provided with the appliance.
- It must only be supplied at safety extra low voltage corresponding to the marking on the appliance.
- Warning: 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.



### Notices

- The refrigerator may only be repaired by qualified personnel. Improper repairs can lead to considerable hazards.
- The refrigerator 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 have been given supervision or instruction concerning use of the device in a safe way and understand the hazards involved.
- Cleaning and user maintenance must not be carried out by children without supervision.
- Children must be supervised to ensure that they do not play with the device.

- The installation of DC power in the boat must be handled by qualified electricians.
- Please check if the cooling capacity of the device is suitable for storing the food or medicine you wish to cool.

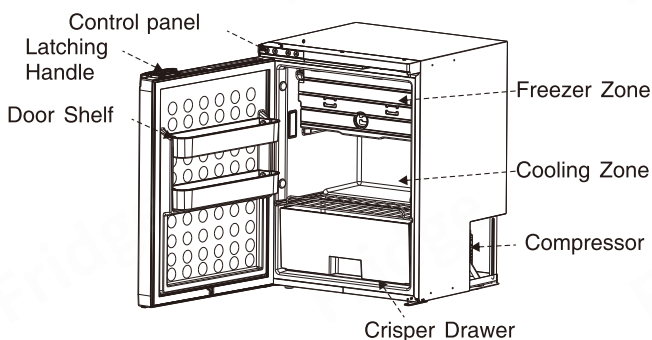
This appliance is intended to be used in household and similar applications such as:

- staff kitchen areas in shops, offices and other working environments;
- farm houses and by clients in hotels, motels and other residential type environments;
- bed and breakfast type environments;
- catering and similar non-retail applications

## 2. Product Features

- High efficiency DC compressor and module which is robust and durable.
  - Fast cooling to 0° C (based on 25° C ambient temperature).
  - Intelligent voltage detect system to protect car battery.
  - CFC free and low energy consumption.
  - Designed to be powered by 12V/24V DC.
  - LCD display for temperature setting.
- Bluetooth APP for temperature monitor and control.

## 3. Product Structure



## 4. OPERATION

### • How to Turn on the Fridge

1. Connect to 12/24V power
2. press the power button
3. The internal temperature will display

### • Temperature Setting

1. Press “⚙️”, to display 'FR' (freezer zone temperature setting) or 'RE' (refrigerator zone temperature setting).
2. Press “+” or “-” to adjust the temperature of the respective zone.

### • To Reset

1. Power off the fridge
2. Holding the setting button “⚙️” until E1 is displayed.
3. Press button “+” and “-” at the same time until the display is as below.

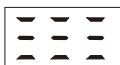
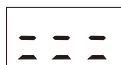


### • Battery Protection Mode Setting

The product has a three-level battery protection function, which not only guarantees the normal operation of the product, but also protect the battery of the vehicle.

When powered on, long press settings button “⚙️” for 3 seconds and the display screen flashes H, select low voltage production L(ow), M(edium), and H(igh) by clicking settings button “⚙️”.

The factory default is set to H(igh) protection.



From left to right: L/M/H.

H should be selected when the fridge is connected to the vehicle starter battery, and M or L should be selected when powering from a deep cycle battery. If error code F1 is shown on the panel it means that the fridge is in voltage protection mode, meaning the fridge will operate again once the battery is charged or the battery protection model is lowered from H to M, or M to L.

## 5. INSTALLATION

Ensure that the refrigerator is in good order and not damaged when opening the packaging for the first time.

Any transportation damage must be reported promptly to the place of purchase within 24 hours of taking delivery.

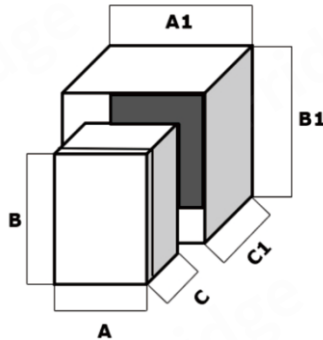
Handle the product with the utmost care and attention.

The refrigerators are built-in appliances.

### 1. When installing in a cavity/cabinet.

The refrigerator dimensions are 470\*430\*630mm (A\*C\*B), there should be enough space (75mm minimal) at the rear and top of the refrigerator to ensure adequate ventilation. There should be a minimum of 7.5mm of space on each side.

Cabinet dimensions suggested 485\*505\*705mm (A1\*C1\*B1).



Always place the refrigerator on a flat and level surface that is adequate to support its weight. Place the refrigerator in a location away from heat sources and ensure that it has enough ventilation.

### 2. Connect to a power supply

Connect the refrigerator to the vehicle 12/24VDC system directly, the minimal cable cross-section as per the below table based on the overall length of wire between the refrigerator and the battery.

Enough excess wire needs be kept to allow for moving the fridge into and out of the cabinet.

Wire Length to Refrigerator	Wire Gauge
Maximum 6 m	14AWG
Maximum 11m	12AWG
Maximum 17m	10AWG

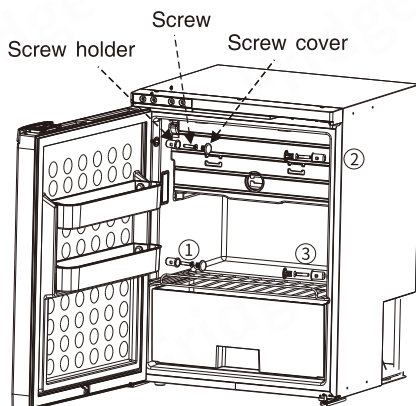
It is highly recommended that the installation fridge is carried out by aqualified person.

### 3. Push the refrigerator into cabinet

Push the refrigerator into the cabinet carefully to avoid scratching the floor, and that the power cable is kept loose, is not kinked or damaged.

### 4. Mount the fridge with the cabinet wall

Mounting points (holes) are built into the side wall of the refrigerator, a hole needs to be drilled into the cabinet to line up with the mounting points on the side of the fridge. Fix the fridge with screws (M5, 15mm minimum) to the cabinet walls, then use the screw covers included to hide the screws. A total 4 screws are required (not included) for installation into a cabinet.

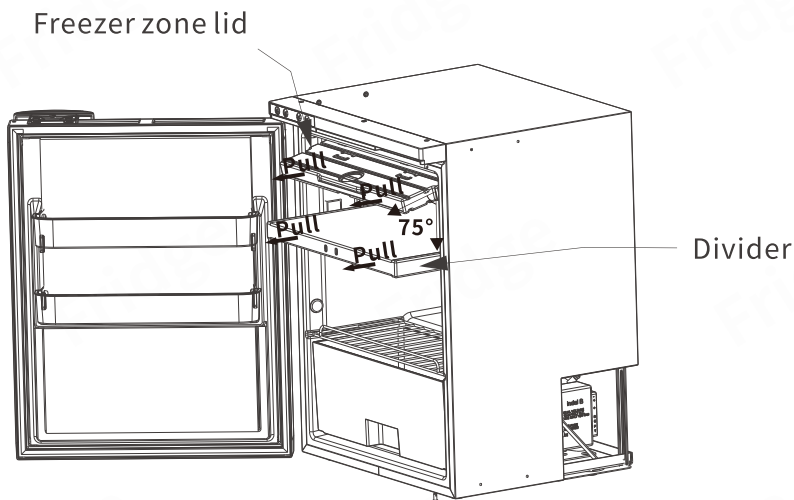


### 5. Verify the installation

Once the installation had been finished, check the continuity of the negative circuit and carry out all electrical safety testing provided for by current regulations. Protect and fix the cables in order to prevent accidental pulling of the cable and from it disconnecting from any connections or the power source and ensure it doesn't come into contact with heat sources with a temperature of 50°C or more, or with sharp objects.

## 6. Removing the freezer zone to make the fridge section larger

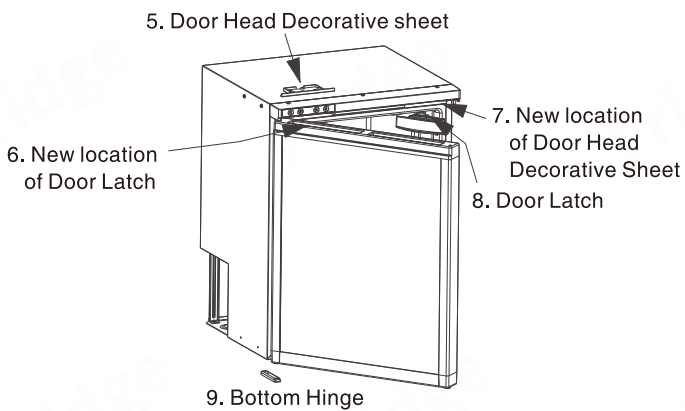
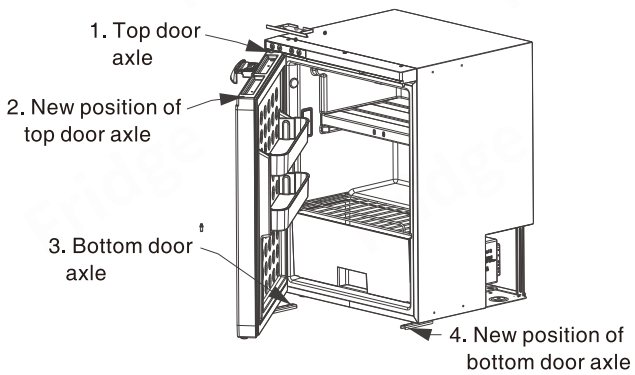
1. Pull out the divider horizontally.
2. Open the freezer zone lid and make a  $75^\circ$  angle between it and the right board of the fridge border.
3. Pull out the freezer zone lid horizontally.



## 7. RESERVE DOOR OPEN DIRECTION

1. Unscrew the bottom hinge ⑨
2. Take off the door body (keep the fridge stable)
3. Unscrew and take off the door latch ⑧, install it into the new location of door latch ⑥
4. Remove the door head decorative sheet ⑤, install it into new location of the door head decorative sheet ⑦
5. Move the top door axle ① and bottom door axle ③ to new position ②④
6. Install the door to the refrigerator, fasten the top door axle with the top hinge; install the bottom hinge screws ④, fix the door with the hinge;
7. Close the door, the door opening direction is now reversed.





## 8. CLEANING AND STORAGE

### ■ Cleaning the refrigerator

Before cleaning, ensure that the refrigerator is not connected to the power supply.

If necessary, extract the plug from the power socket.

#### EXTERIOR

Clean exterior first with warm and then with cold water. Dry with a soft cloth. Avoid all use of abrasive products.

#### INTERIOR

Remove the racks (or basket), containers, and ice trays, and clean the interior using warm water mixed with a little bicarbonate of soda or vinegar. Rinse and dry carefully with a soft cloth. Never use abrasive products, detergents or soap.

#### CONDENSER

The condenser should be cleaned at least once a year using a vacuum cleaner or a dry brush.

In the case of prolonged disuse, to avoid the formation of mould or unpleasant odours, disconnect the plug from the socket, empty the unit completely, clean the interior, and leave the door ajar.

### ■ If the fridge will not be used for a long period of time.

1. Turn off the power and disconnect the plug
2. Remove all fridge contents
3. Clean the fridge with a damp cloth
4. Ensure the fridge is dry
5. Store the fridge in a cool and dry place with the door ajar

## 9. APPLIANCE DEFROSTING

It will be necessary to defrost the refrigerator every so often when frost builds up to a thickness of more than three millimeters.

This operation is necessary in order to guarantee that the fridge works efficiently and to avoid increased electricity consumption.

In order to achieve complete defrosting of the refrigerator turn off the fridge.

Keep the door open so that the defrosting time is quicker.

**IMPORTANT:** Do not use mechanical devices or other means other than those recommended by the manufacturer to accelerate the defrosting process.

**IMPORTANT:** DO NOT REMOVE THE LAYER OF FROST USING POINTED OR SHARP OR ANY TOOLS THAT MAY CAUSE A PUNCTURE IN THE COOLING PLATE WHICH WILL CAUSE IRREPARABLE DAMAGE TO THE FRIDGE.

## 10. TROUBLESHOOTING

Issues	Suggestions
<b>Refrigerator does not work</b>	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.
	Switching on/off the fridge frequently may cause start delay of the compressor.
<b>Refrigerator compartments are too warm</b>	The door is opened frequently.
	A large amount of warm or hot food was stored recently. Wait for the refrigerator to reach its selected temperature.
	The refrigerator has been disconnected for a period of time.
<b>Food is frozen</b>	The temperature was set too low, please increase the temperature
<b>There is a “water flow” noise from inside the fridge</b>	It's a normal phenomenon, caused by the flow of refrigerant.
<b>There are waterdrops around the refrigerator casing or door gap</b>	It's a normal phenomenon, the moisture will condense to water when it touches a cold surface of the refrigerator.
<b>The compressor is slightly noisy when starting</b>	It's a normal phenomenon, the noise will be reduced after the compressor works stably.
<b>Code F1 displayed</b>	Possible cause: low voltage to fridge. Adjust the battery protection from H to M or from M to L.
<b>Code F2 displayed</b>	Possible cause: condenser fan is overloaded. Disconnect power to fridge for 30 minutes & re-start.
<b>Code F3 displayed</b>	Possible cause: the compressor starts too frequently. Disconnect power to fridge for 30 minutes & re-start.
<b>Code F4 displayed</b>	Possible cause: compressor not kicking in. Disconnect power to fridge for 30 minutes & re-start.
<b>Code F5 displayed</b>	Possible cause: overheating of the compressor & electronics. Disconnect power to fridge for 30 minutes & re-start.
<b>Code F6 displayed</b>	Possible cause: no parameter can be detected by the controller. Disconnect power to fridge for 30 minutes & re-start.
<b>Code F7 or F8 displayed</b>	Possible cause: temperature sensor is faulty. Contact manufacturer for service.

## 11.WARRANTY AND MAINTENANCE

If the device gets malfunctional, limited warranty will be provided for 1 year from the date of purchase, except following situations:

- Contrived damage.
- Damage caused by force majeure such as earthquake, conflagration, etc.
- Damage from inappropriate use or violating this instruction.
- Damage or malfunction caused by disassembling without permission.

## 12.TECHNICAL DATA

Model	CR 65
Rated Voltage DC	12/24V
Power Consumption	60W
Capacity	65L
Noise Emission	≤45dB
Temperature Range	0~8°C (RE)/ -12~-20°C(FR)
Climate Class	T/ST/N/SN
Dimensions (W*H*D)	430*630*470 mm
Weight	20kg

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