

Model KFC35-KCF45-KCF55

Cooling Box



USER MANUAL

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



Content

Safety instructions	2
Product features	4
Product structure	4
Function and operation	5
Care and maintenance	7
Troubleshooting	8
Warranty	10
Technical information	10



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 of 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 brief time running.
- Keep the ventilation openings in the unit casing or in the built-in structure free of obstacles.
(Around the compressor $\geq 100\text{mm}$).
- Keep the appliance stable on the ground or in the car; Do not drain upside down.

CAUTION!

- Repairs may only be conducted 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 managed 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 have been given supervision or instruction concerning use of the device in a safe way and understand the hazards.

NOTICE!

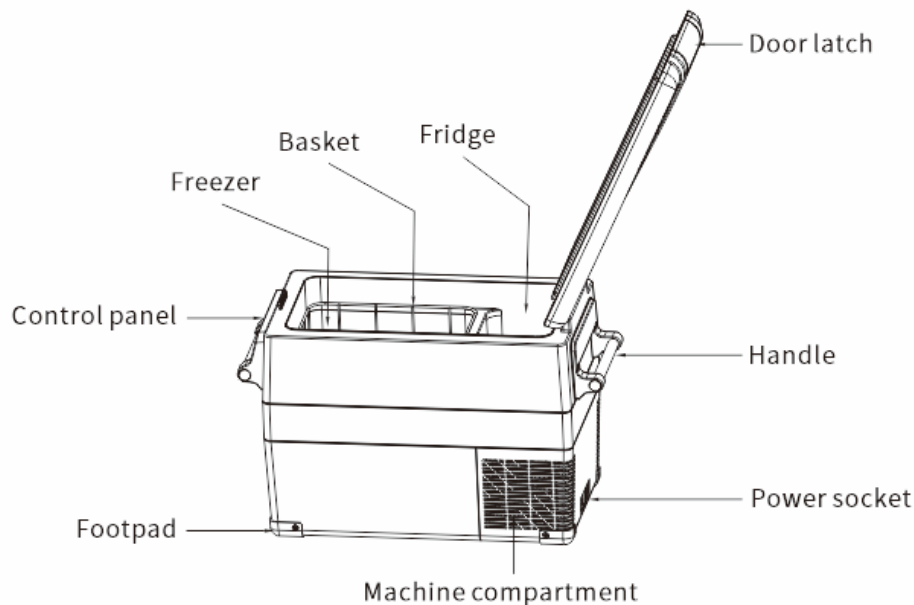
- Disconnect the power supply before each cleaning and maintenance and after every use.
- Do not use sharp tools to defrost; Do not damage the refrigerant circuit.
- Risk of child entrapment. Before you throw away your old refrigerator or freezer: take off the doors: leave the shelves in place so that 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 extended periods, switch off, defrost, clean, dry, and leave the door open to prevent mold 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, Farmhouses 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.

Product features

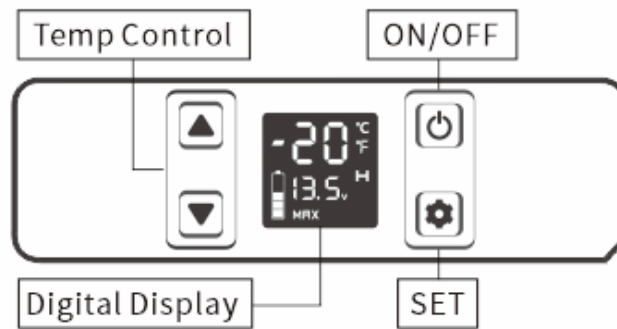
- High-efficiency DC compressor and conversion module.
- CFC free and great heat insulation.
- DC12/24V or AC 100~240V (using the adapter) power supply.
- Lowest cooling to -20°C/-4°F (based on 25°C/77°F room temperature).
- Intelligent battery protection system.
- Digital display control panel for temperature setting.






Product structure










*The temperature of the small compartment changes with the large compartment, only the large compartment can be adjusted, and the small compartment is usually used as a refrigerator that keeps food not to be frozen.

Function and operation



- Power supply : connect to DC 12V/24V or AC 100~240V(using dedicated adapter).
- Display Screen Initialization : when the fridge is powered on, the buzzer will make a long beep, and the display will be on for two seconds then enter the standby mode.
- Power On/Off : press  to switch ON/OFF.
- Temperature Setting press the button  or  for temperature setting, press the button  to increase or the button  to decrease the temperature. The setting will be saved automatically after stopping operating for 4 seconds(Note: the temperature displayed is the current temperature of the compartment, it will take a while to reach the set temperature.)

Temperature setting range: -20~20°C (-4~68°F)




- Cooling Mode : under the running state, press  to switch between 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(Medium) 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.

* 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.

• Reset : switch off the fridge, long press  for three seconds until E1 displays, under E1 mode, long press   at the same time until the screen displays "888".

• 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



Care and maintenance

■Cleaning:

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

■Storage:

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

- Switch off and unplug the device.
- Take out all the items stored in the device.
- Wipe off excess water with a soft rag.
- Put the fridge in a cool and dry place.
- Leave the lid slightly open to prevent odors from forming.
- Recommended storage environment:
ambient temperature: 25°C, ambient humidity: ≤ 75%.

■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 and unplug the device first to avoid electric shock.
- Take out all the items stored in the device.
- Keep the lid open.
- Wipe off the defrosted water.

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



Troubleshooting

Issues Cause/Suggestions

Refrigerator does not work

- 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

- 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

- The temperature was set too low.

There is "water flow" noise from inside the refrigerator

- It is a normal phenomenon, caused by the flow of refrigerant.

There are waterdrops around the refrigerator casing or door gap

- It is 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

- It is a normal phenomenon; the noise will be reduced after the compressor works stably.

Code F1 displayed

- Possible cause: low voltage to fridge. Adjust the battery protection from High to Medium or from Medium to Low.

Code F2 displayed

- 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

- 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

- 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

- 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

- 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

- Possible cause: temperature sensor is faulty. Contact manufacturer for service.

Warranty

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.

Technical information

MODEL	CF/NCF 35	CF/NCF 45	CF/NCF 55
RATED VOLTAGE	DC12/24V or AC100-240V(using dedicated adapter)		
RATED POWER	60W		
CAPACITY	32L/1.1cu.ft.	42L/1.5cu.ft.	52L/1.8cu.ft.
NOISE	≤45dB		
TEMPERATURE SETTING RANGE	-20~+20°C/-4~+68°F		
CLIMATE CATEGORY	T/ST/N/SN		
DIMENSIONS (L*W*H)	CF 35: 693*345*381mm 27 5/16*13 9/16 *15 inch	CF 45: 693*345*456mm 27 5/16*13 9/16 *17 15/16 inch	CF 55: 693*345*531mm 27 5/16*13 9/16 *20 7/8 inch
	NCF 35: 693*345*395mm 27 3/16*13 9/16 *15 9/16 inch	NCF 45: 693*345*470mm 27 5/16*13 9/16 *18 1/2 inch	NCF 55: 693*345*545mm 27 5/16*13 9/16 *21 7/16 inch
NET WEIGHT	CF35: 12.4kg/27.3lb NCF35: 12kg/26.5lb	CF: 13.3kg/29.3lb NCF: 12.7kg/28/lb	CF: 14.5kg/32lb NCF: 13.7kg/30.2lb



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