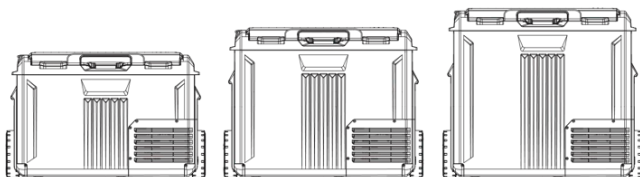


User Manual



EXM30/EXM40/EXM50
EX30 EX40 EX50

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!

- 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.

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.
- The appliance shall not be exposed to rain.
- The appliance is only to be used with the power supply unit provided with the appliance

Children aged from 3 to 8 years are allowed to load and unload refrigerating appliances.

If the cord set is damaged, it must be replaced by a special cord set available from the manufacturer or its service agent.

To avoid contamination of food, please respect the following instructions:

- Opening the door for long periods can cause a significant increase of the temperature in the compartments of the appliance.
- Clean regularly surfaces that can come in contact with food and accessible drainage systems.
- Store raw meat and fish in suitable containers in the refrigerator, so that it is not in contact with or drip onto other food.

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.
- Do not operate the appliance if it is visibly damaged.
- Do not block the gaps of the fridge with things like pin, wire, etc.
- 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.

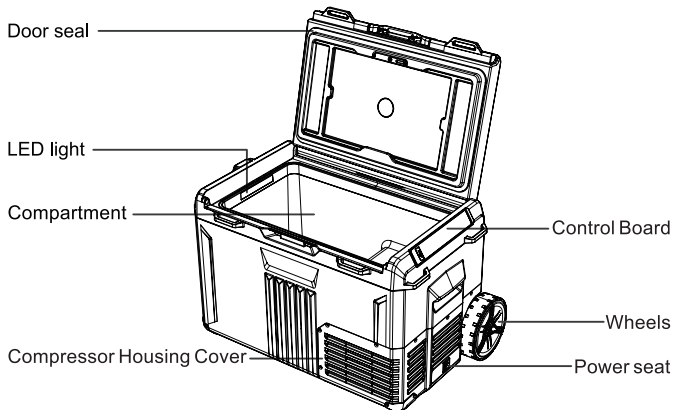
- The appliance is intended to be used in household and similar applications such as:
 - Staff kitchen areas in shops, offices and other working environments;
 - Camping, Farm houses and by clients in hotels, motels and other residential environments;
 - Bed and breakfast type environments;
 - Catering and similar non-retail applications.
- Information, illustrations and specifications in this manual reflect the most current available at the time of publication, are subject to change without prior notice.

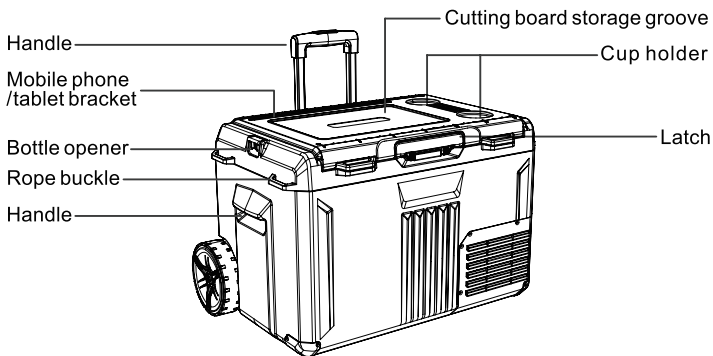
Ⓢ Please according to local regulations regarding disposal of the appliance for it flammable refrigerant and blowing gas.

2. PRODUCT FEATURES

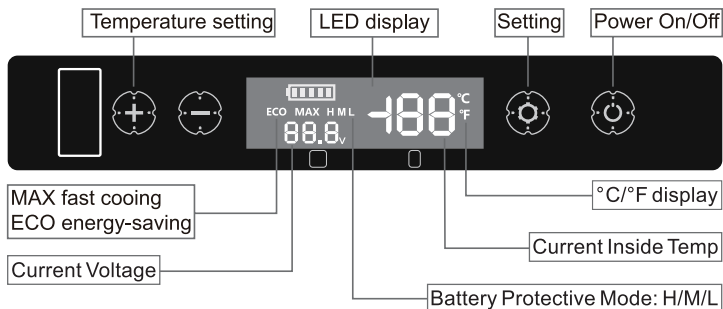
- High-efficiency DC compressor and conversion module.
- CFC free and great heat insulation.
- Lowest cooling to $-20^{\circ}\text{C}/-4^{\circ}\text{F}$ (based on $25^{\circ}\text{C}/77^{\circ}\text{F}$ room temperature).
- Intelligent battery protection system prevents your vehicle from running out of battery.
- LED display control panel for temperature setting.
- Specific parts: drain plug, cup holder door, interior LED light.

3. PRODUCT STRUCTURE





4.FUNCTION&OPERATION



1. Powersupply

Connect to DC 12V/24V or AC 100~240V(using dedicated adapter)

2.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.

3.Power On/Off:

Press  to switch ON. long press  for three seconds to switch OFF.

4.Temperature Setting

When fridge is in running state, press + or - to set the temperature, long press - or - can make temperature switch fast.

5.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.)

6.°C/°F Switch

Power off, long press , screen shows E1, press  again from E1 to E5, screen starts to flicker, press + or - to choose °C/ °F.

7.Factory Default

Power off, long press , screen shows E1, then press + and - at the same time, screen all turns on, factory default success.

5. VOLTAGE REFERENCE:

voltage mode	DC 12V		DC 24V	
	Compressor off	Compressor on	Compressor off	Compressor on
Low	8.5V	10.9V	21.3V	22.7V
Middle	10.1V	11.4V	22.3V	23.7V
High	11.1V	12.4V	24.3V	25.7V

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

* 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.

• **Temperature Unit Setting:** switch off the fridge, long press  for 3 seconds until displays E1, and switch to E5 by pressing  again, then press + or - to switch Celsius or Fahrenheit. (*Factory setting is °C.)

• **Reset:** switch off the fridge, long press  for 3 seconds until displays E1, under E1 mode, long press + and - at the same time for 3 seconds to reset the settings.

6. CARE AND MAINTENANCE

Recommended temperature of common food

						
Water/beverage	Fruit	Vegetable	Cooked food	Alcohol	Ice cream	Meat
5°C	5~8°C	3~10°C	4°C	10°C	-10°C	-18°C

Cleaning:

- Switch off and unplug the device first to avoid electric shock.
- Remove the cover and drain from the hole at the bottom of the device.
- 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.

Issues	Cause/Suggestions
There are waterdrops around the refrierator casing or door gap	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	It's 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 and 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 and re-start. If the code shows again, contact manufacturer for service.

Issues	Cause/Suggestions
Code F4 displayed	Possible cause: compressor not kicking in. Disconnect power to fridge for 5 minutes and restrt. If the code shows again, contact manufcturer for service.
Code F5 displayed	Possible cause: overheating of compressor&electronics. Disconnect power to fridge for 5 minutes and re-start. If the code shows again, contact manufacturer for service.
Code F6 diplayed	Possible cause: no parameter can be detected by the controller. Disconnect power to fridge for 5 minutes and 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.

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 device 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: s 75%.

Defrosting:

Humidity can form frost in the interior of the cooling device oron 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.

A Never use hard or pointed



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

7. TROUBLESHOOTING

Issue	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's a normal phenomenon, caused by the flow of refrigerant.

8. TECHNICAL INFORMATION

Model	EX30/EXM30	EX40/EXM40	EX50/EXM50
Rated Voltage	DC12/24V or AC100~240V(using dedicated adapter)		
Rated Power	60W		
Capacity	30L	40L	50L
Noise	≤45dB		
Temperature Setting Range	-20~20°C(-4~68°F)		
Climate Category	T/ST/N/SN		
Dimensions(L*W*H)	645*423*408mm	645*423*488mm	645*423*568mm
Net Weight	13.5kg	14.5kg	15.5kg

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

