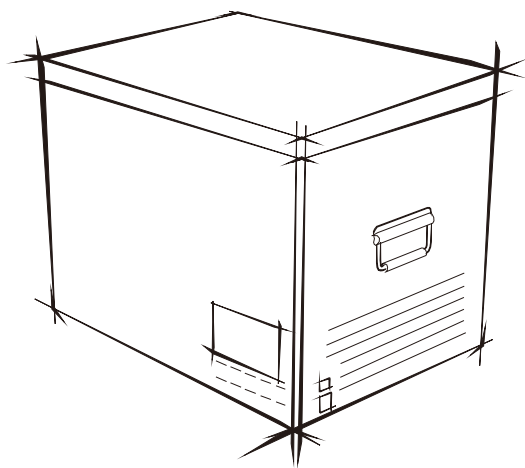


USER MANUAL



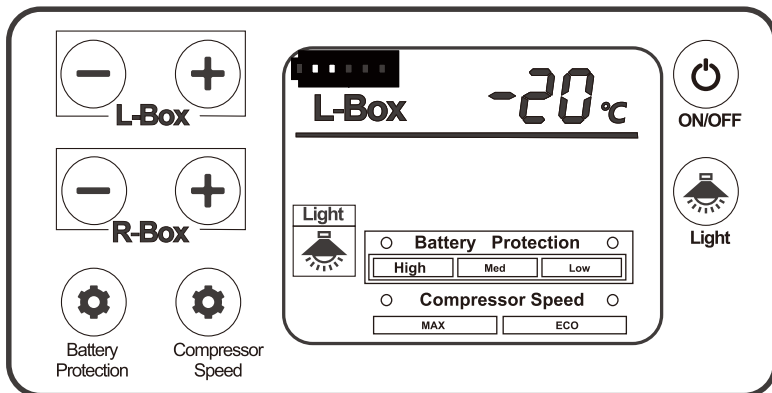
Model BD45/BD60/BD75/BD85/BD110/BD135

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


Quick Guidelines





This icon marks references to other pages in this manual.



First Step: connect with 12/24V

Second Step: press “” switching on/off the fridge.

Third Step: press “+” or “-” to adjust temperature. ( 3)




Compressor Speed: press “” to switch cooling mode between MAX (fast cooling) and ECO (Economical).

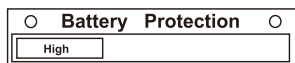


(Fast cooling mode)



(Economical mode)

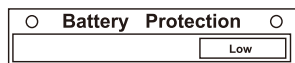
Battery Protection Mode: hold “” over 3 seconds until screen flashes, then press “” again to select battery protection mode. ( 3)




(High)



(Medium)



(Low)

Temperature Unit Setting: default setting is centigrade °C. If you want to change to Fahrenheit°F, please refer to  3.

-20°C

(Centigrate)

-20°F

(Fahrenheit)

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1. Safety Instructions

To prevent damage to your product or injury to yourself or to others, read the following safety precautions in their entirety before using this equipment. Keep these safety instructions where all those who use the product will read them.



This icon marks warnings. Failure to obey these warnings could result in malfunction of your fridge and possible injury for yourself and other users.

- Do not expose your fridge to heat and direct sunlight.
- Do not place in humid places to avoid leakage or electric shock.
- Do not put any electrical devices inside the fridge as they could damage the fridge.
- Do not soak the fridge into water or expose it to rain.
- Do not upside down for drainage
- Do not block the gaps of the fridge with things like pin, wire, etc.
- Do not allow children to play on or in fridge.
- Do not use the fridge if abnormalities are noticed such as smoke, overheating, leakage etc.
- Do not let other technicians to repaired the malfunctional fridge, except the staff from our company.



Notices

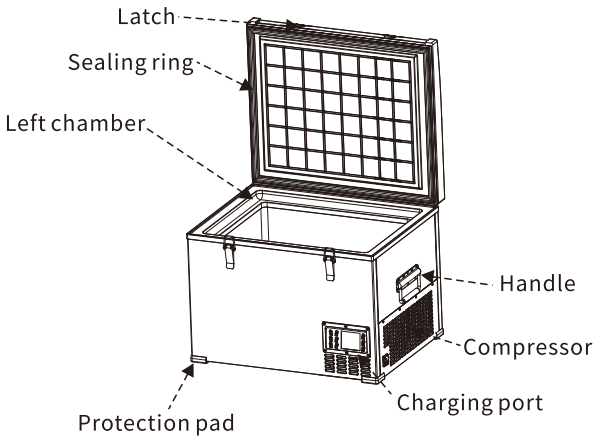
- Use wet cloth to clean your fridge before use.
- Make sure the voltage is within the proper range for the socket and cable being used.
- The fridge should be unpacked and stand still for more than 6 hours before switching on the power

- Make sure the refrigerator stays horizontally when it is working. The tilt angle should be less than 5° in long run and be less than 45° in short run.
- The fridge needs some space for good ventilation to work properly, at least 200mm at the back and 100mm at side.
- The installation of the DC power source in a boat should be handled by qualified technician.
- Please contact us for maintenance if your fridge gets malfunctional.








2.Product Features

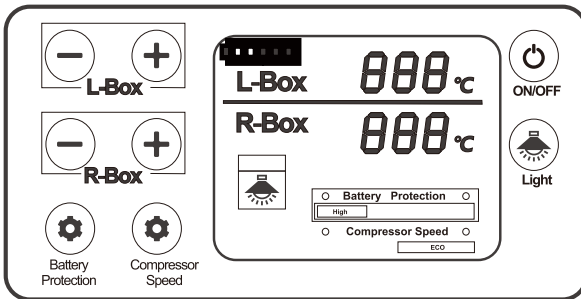
- High efficiency DC compressor and module which is robust and durable.
- Fast cooling to -20° F/-4° F (based on 25°C/77° F room temperature).
- 3-stage low voltage battery protection.
- CFC free and low energy consumption.
- LCD display for temperature setting.

3.Product Structure



4. Function and Setting

- **Power Supply:** Connected with DC 12/24V.
- **Power On/Off :** Press the button “” to turn the unit on/off.
- **Temperature Setting:** Press the button “+” or “-” until the figure on the screen begins flashing, then you can adjust the temperature by “+” or “-”. If you stop holding the button for 4 seconds, the setting will be finished and the setting temperature will be saved. (Note: the displayed temperature is the current temperature of chambers. If set temperature is much higher or lower than original temperature, displayed screen would not present the set temperature immediately until chambers reach the set temperature.)
- **Cooling Mode Control:** Press the button “” to select cooling mode. You can switch mode between MAX (Quick cooling mode) and ECO (Economical mode).
- **Battery Protection Mode:** Hold the button “” over 3 seconds, the LCD screen will flash, then you can select L(Low), M (Medium), H (High) mode for your battery protection. The default setting is H mode. When the fridge is powered by car battery, it is recommended to set H mode. When the fridge is powered by built-in battery or portable battery, it is advised to set M or L protection mode. The reason is that various cars have different output voltage. If battery protection occurs (screen displays F1), the protection mode should be adjusted from H to M or L. When the engine is switched off, the fridge is still able to work. Protection mode should be set to H to prevent car battery from exhaustion.
- **Temperature Unit Setting:** press “” switch off the fridge, then press “” over 3 seconds until E1 shows on the screen. Press “” from E1, E2.....switching to E5. When the screen flashes, press “+” or “-” to change the unit between Centigrade (°C) and Fahrenheit (°F).
- **Reset:** Power off the fridge, holding the setting button “” until E1 is displayed on the screen. Hold the button “+” and “-” until the screen lights up as follow:



5.Cleaning and Storage

■ Cleaning:

1. Please unplug the fridge first before cleaning.
2. Use a damp cloth to clean the fridge interior and exterior occasionally.
3. Never clean the fridge under running water or in dish water .
- 4.Do not use abrasive cleaning agents or hard objects during cleaning as theses can damage the fridge.
- 5.Make sure that the air inlet and outlet vents on the fridge are free of any dust and dirt, so that heat can be released and the fridge is not damaged.

■ If you do not use the refrigerator for a long time, please follow the instruction:

1. Turn off the power and remove the plug.
2. Remove the items stored in the refrigerator.
3. Absorb all the water in fridge with dry cloth.
4. Place the fridge in a cool and dry place.



6.FQA

Question	Answer
Why the refrigerator is not working?	<p>Reason:</p> <ul style="list-style-type: none">• Power supply is malfunctional.• The plug and socket are not connected well.• The fuse has been burnt.• The switch is not on.• Compressor extended protection for 3mins after switching on.

Why food is frozen?	<ul style="list-style-type: none"> • Because setting temperature is too low.
Why water flowing sound is inside the refrigerator?	<ul style="list-style-type: none"> • Because it is the flowing sound of refrigerant ,which is normal.
Why water drops around the refrigerator casing or door gap?	<ul style="list-style-type: none"> • Because it is naturally liquefied and condensed to be water drops when moisture in the air meets the lower temperature of refrigerator casing.
Why water flowing sound is inside the refrigerator?	<ul style="list-style-type: none"> • Because it is the normal sound of working compressor. The noise will reduce after the compressor works stably .
What does code F1 mean?	<ul style="list-style-type: none"> • This is protection mode of low voltage for car, which can be solved by setting battery protection mode from H to M or from M to L.
What does code F2 mean?	<ul style="list-style-type: none"> • This is the protection mode of overloaded fan. Please turn the fridge off and restart it after 30mins.
What does code F3 mean?	<ul style="list-style-type: none"> • This is the protection mode of frequent restart of compressor. Please turn the fridge off and restart it after 30 minutes.
What does code F5 mean?	<ul style="list-style-type: none"> • This is warning code for overheated compressor module. Move the fridge to a ventilated area, turn it off and restart it after 30mins.
What does code F6 mean?	<ul style="list-style-type: none"> • This code means no parameter can be detected by the controller. Please restart the fridge. If this code shows again, please contact after-sale department.
What does code F7&F8 mean?	<ul style="list-style-type: none"> • This is the error code of temperature sensor. Please contact us for more detail.

7. Warranty & Maintenance

If your product gets malfunctional, we provide free maintenance for 1 year from the day you purchase, except following situation:

- *Contrived damage.
- *Catastrophe such as earthquake, conflagration, etc.
- *Damage from inappropriate use or violating the instruction.
- *Damage from decomposition without following company's instruction.

8. Technical Data

MODEL	BD45	BD60	BD75
RATED VOLTAGE	DC12/24V or AC100~240V(using dedicated adapter)		
RATED POWER	80W		
CAPACITY	45L/1.6cu.ft.	60L/2.12cu.ft.	75L/2.7cu.ft.
NOISE	≤45dB		
TEMPERATURE SETTING RANGE	-20~+20°C/-4~+68°F		
CLIMATE CATEGORY	T/ST/N/SN		
DIMENSIONS (L*W*H)	654*520*465mm 25 3/4 *20 1/2 *18 5/16inch	654*520*565mm 25 3/4 *20 1/2 *22 1/4inch	654*520*465mm 25 3/4 *20 1/2 *26 1/16inch
NET WEIGHT	18kg/39.7lb	21kg/45.3lb	24kg/52.9lb

MODEL	BD85	BD110	BD135
RATED VOLTAGE	DC12/24V or AC100~240V(using dedicated adapter)		
RATED POWER	80W		
CAPACITY	85L/3.0cu.ft.	110L/3.88cu.ft.	135L/4.77cu.ft.
NOISE	≤45dB		
TEMPERATURE SETTING RANGE	-20~+20°C/-4~+68°F		
CLIMATE CATEGORY	T/ST/N/SN		
DIMENSIONS (L*W*H)	901*552*450mm 35 1/2 *21 3/4 *17 3/4inch	901*552*530mm 35 1/2 *21 3/4 *20 7/8inch	901*552*610mm 35 1/2 *21 3/4 *24inch
NET WEIGHT	27.5kg/60.6lb	30kg/66.1lb	32.5kg/71.7lb

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