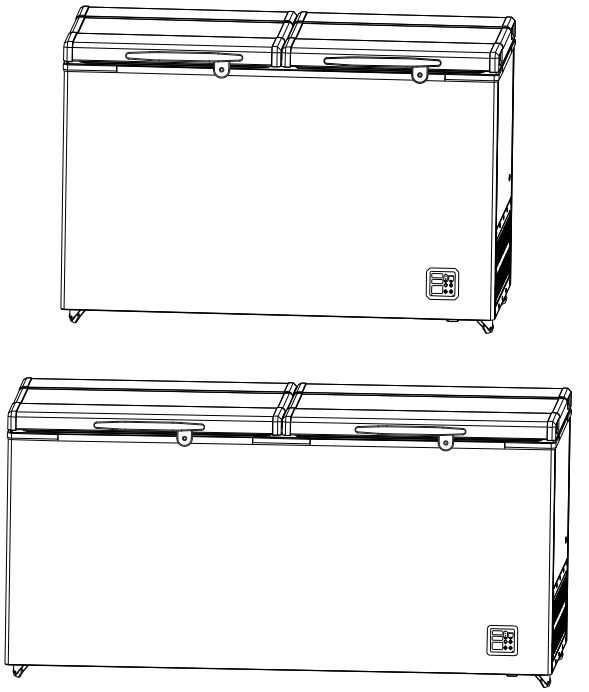
DC COMMERCIAL FREEZER

User’s Manual



Model:BR233F/BR303F/BR335F/BR384F/BR433F
BR212RF/BR277RF/BR315RF/BR362RF/BR408RF

Note: please read this manual carefully before use,and make sure to operate according to the instruction.

Table of contents

One temperature freezer specification					
Item \ Model	BR233F	BR303F	BR335F	BR384F	BR433F
Capacity(L)	233	303	335	384	433
Input voltage(V)	12V/24V	12V/24V	12V/24V	12V/24V	12V/24V
Power(W)	50	55	60	60	60
Refrigerant	R134A	R134A	R134A	R134A	R134A
Product dimension(mm)	1213*736*810	1213*736*960	1613*736*810	1613*736*885	1613*736*96
Package dimension(mm)	1260*750*865	1260*750*1015	1660*750*865	1660*750*940	1660*750*1015
N. W. /G. W. (kg)	59/65	67/73	79/85	82/88	85/91

Package specification

Series No.	item	quantity	Note
1	compressor freezer (dual temperatures)	1	
2	AC/DC adaptor (optional)	1	
3	User's manul	1	
4	Door lock	1	
5	Key	2	
6	Shelf	1	
7	Plastic bag	1	

Clear up and maintenance

*Clean the products with a soft cloth and moistened by lukewarm water.
*Never use solvents or abrasive cleaners as it will damage the products. Do not use scourers or scrapers to clean products as well. .
*Use a soft cloth to completely dry products after cleaning.
*Products should be cut off the power, keep cleaning and aridness when you do not use.
*Make sure that no water drops into the vents as it may damage the electronic components.
* Check the following items after maintenance:
1. If the DC plug is well positioned on the socket.
2. If the DC plug is with over heat.
3. If the DC power cord is with crack or scratch.

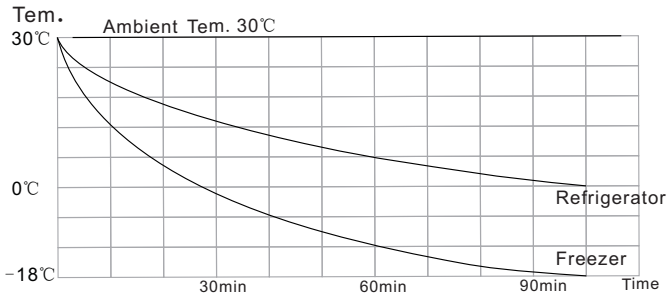
Specification

Dual temperature freezer specification					
Model / Item	BR212RF	BR277RF	BR315RF	BR362RF	BR408RF
Capacity(L)	212	277	315	362	408
Freezer capacity(L)	118	150	170	193	216
Refrigerator capacity(L)	94	127	145	169	192
Input voltage(V)	12V/24V	12V/24V	12V/24V	12V/24V	12V/24V
Power(W)	50	55	60	60	60
Refrigerant	R134A	R134A	R134A	R134A	R134A
Product dimension(mm)	1213*736*810	1213*736*960	1613*736*810	1613*736*885	1613*736*960
Package dimension(mm)	1260*750*865	1260*750*1015	1660*750*865	1660*750*940	1660*750*1015
N. W. /G. W. (kg)	60/66	68/74	80/86	83/89	86/92

Product features

1.This products use latest high performance DC compressor which with excellent cooling function, lower noise and small vibration design. The super-thick insulation foam enables product to save energy and maintain cooling better.
2.The DC freezers of RF series are horizontal freezers with two separate cabinets and two doors. The products adopte two controllable temperatures system to meet the various needs of consumers. While, the DC freezers of F series adopt single temperature control system due to its one cabinet design.
3.Microcomputer precise temperature control technology was used into products. It makes the temperature can be controlled accurately.
4.The compressor is the frequency conversion type. It works differently under different outdoor temperature conditions. In this context, products have excellent performance and consume much less power.
5.The products can be supplied by 12VDC and 24 VDC power source directly, or supplied by electricity through AC adaptor and AC/DC automatic switch.
6.The device is equipped with a three-lever battery voltage button (H/M/L) that protects your battery against excessive discharging when the device is connected to the battery in the solar power system or the battery alone. Generally buyer is suggested to set H when there is much power supply, and set L when the power supply is less.
7.Cooling performance graph

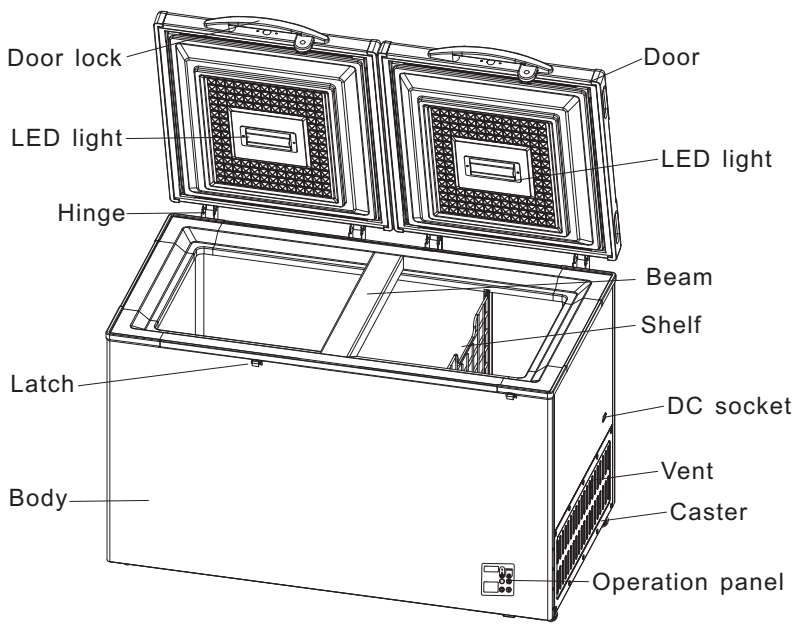
Perfect cooling performance



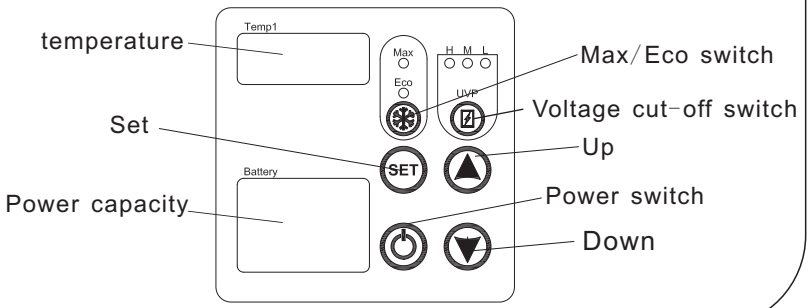
(the data for reference only)

Structure Drawing

One temperature freezer illustration



Operation panel



5.Error indication	Err3: Malfunction of compressor start (unbalance of system pressure)
	Err4: Malfunction of counter electromotive of compressor motor.
	Err5: over heating of compressor controller
	Err6: hardware malfunction of compressor controller
	Err7: over current protection of compressor controller
	Err8: over current protection of compressor controller

The following issues are not trouble.

1.There is frost on the surface of fridge which is caused by high temperature difference or infrequent door opening. Buyers can wipe the frost off.
2.There is a sound of water flow or water boiling which is caused by refrigerant flowing.
3.Compressor and condenser are hot, when freezer is working,these are normal phenomenon.
4.The compressor keep working for a long time when freezing toomuch food. .
5.The compressor will be working for a long time to maintain the inner temperature under the condition of high ambient temperature.

Note：When the freezers got problems, please check and follow thismanual first. If the problems still can not be resolved, please contact distributor or local service counter. Please do not disassemble without expert guide.

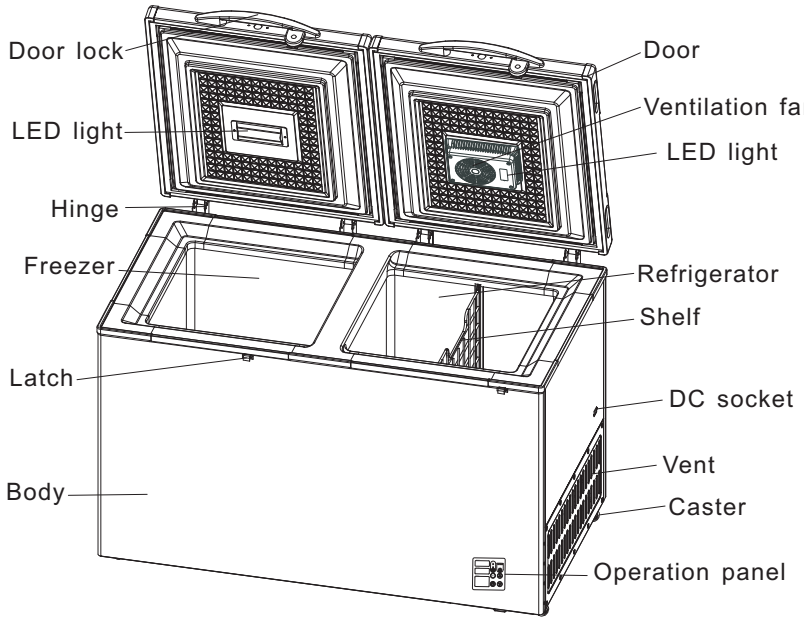
Knowledge of usage

- Keep appropriate gap between stored items is conducive to thecirculation of cold air and heat exchange the cooling performance will be better.
- Always cool the food or drink before storing them into the freezer.,
- The freezer reboot after 5 minutes power-off time is necessary, otherwise it will affect the life of the compressor, or even damage the compressor.
- Do not open the door more than necessary and longer to saveenergy
- According to the needs of storage items to choose the appropriate temperature unnecessary freezing will cause power waste.
- The temperature can be set lower before the expected black out, then the compressor accordingly working longer, meantime reduce the times of opening and closing freezer doors. Please avoid to open and close freezer doors frequently as well as put into more content during black-out period.

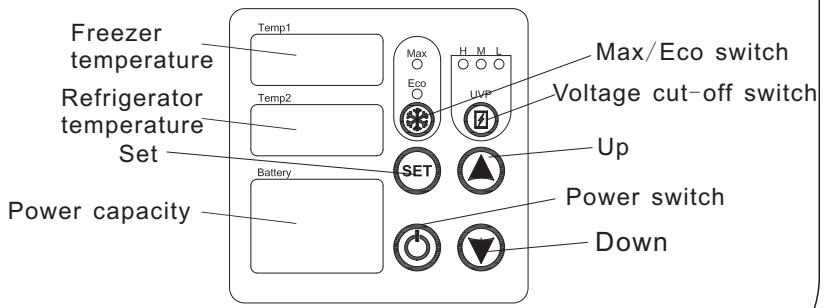
Trouble shooting

1. No cooling function	If the voltage is normal?
	If the power cord connect well?
	If the adaptor connect well?
2. Cooling effect is bad	If the product exposed to the sunlight or very close to heat source?
	If the compressor or condenser covered with dust?
	If the temperature knob staying on the expected position.
	If the content inside of the product too much or there is hot content inside?
	If the temperature knob staying on the expected position.
3. Non-stop for a long time	If the door seal is not good enough?
	If there is too much frost inside?
	If the ambient temperature is too high.
	If too much hot things put inside.
	If door opening and closing frequently or the door is not closed properly.
	If the setting temperature is too low.
	If door opening and closing frequently or the door is not closed properly.
	If the setting temperature is too low.
4. Big noise from the product	If the floor is even and stable? If the product installed evenly.
	If the back of the fridge very close to the wall.
	If the freezer installed or connected to anything vibrating.
	If the freezer installed or connected to anything vibrating.
5.Error indication	Err0: malfunction of temperature sensor
	Err1: Over voltage or under voltage
	Err2: big current on cooling fan.

Dual temperature freezer illustration

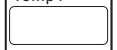
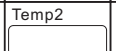


Operation panel



Operating Instruction

Basic operation

No.	Signal	Operation method	Meaning	Remark
1		Press the button for 3 seconds to switch on or switch off product	Power on/off switch	
2			Frozen cabinet	
3			cold cabinet	
4			Voltage readout	
5		Press	Press one time to control temperature of first cabinet, , and press one more to control the temperature of second cabinet.	
6		Press	Temperature up	
7		Press	Temperature down	
8			Max：quick freezing mode Eco：power saving mode	
9		Press	Switch operation models between Max. and Eco	
10			Cut-off power	
11		Press UVP button to switch between H\M\L.	Details as the following data sheet	

Note：products with function to memory setted temperature, cut-off voltage and Max/Eco mode readout.

Cut-off voltage data sheet

Degree	12V cut-off voltage	12V recovery voltage	24V cut-off voltage	24V recovery voltage
L	10.0V	11.0V	21.6V	23.0V
M	10.7V	11.7V	22.6V	24.0V
H	11.5V	12.5V	24.6V	26.0V

Note：

1. Make sure that products have stood for 2 hours at least before running. Before connecting the unit to the power source, let it stand upright for approximately 2 hours. This will reduce the possibility of a malfunction in the cooling system from handling during transportation.
2. It is recommended to store the contents until the inside temperature are at 0 degree .

Defrost

It is necessary to defrost when the frost reached 5-7 mm. Vapor may freeze on the inner cabinets and effect the cooling performance of the products. Please follow the below steps to defrost.

1. Freezing the contents before taking out of it to prevent from melting during the power-off time.
2. Power off the freezer and take out of the contents, and wipe off the frost layer when it is melting.
3. Dry the cabinet with a clean towel. Power on the freezer and put back the contents.

Note：Don't use sharp items to defrost in order to avoid damages.