

BCD Series compressor refrigerator installation and operating manual



BCD50 BCD85
DC Compressor Refrigerator
2025 V0.1





If you have any questions about products, parts, accessories or authorized services, please visit dealer.

If you have issues that cannot be solved, please contact the dealer.

Please record your model and serial numbers below for reference.

Purchase Date

Model Number

Serial Number



Please attach the original sales receipt here for future reference.

Contents

Explanation of symbols	2	Door hinge position change	12
Safety instructions	3	Door clasp position change	15
Scope of delivery	8	Instructions for use	21
Accessories	9	Installation	26
Intended use	9	Parameters	31
Routine maintenance	10	Warranty	32
Main parts	11	Warranty policy	32

Explanation of symbols



DANGER!

Safety instruction: Failure to observe this instruction will cause death or serious injury.



WARNING!

Safety instruction: Failure to observe this instruction can cause injury.



CAUTION!

Safety instruction: Failure to observe this instruction can lead to property loss or malfunction.



NOTICE!

Failure to observe this instruction can cause function damage.



NOTICE!

Supplementary instructions.

Safety instructions

The manufacturer accepts no liability for damages in the following cases:

- Faulty assembly or connection.
- Damage to the product resulting from mechanical impacts or incorrect connecting voltage.
- Alterations to the product without express permission from the manufacturer.
- Use for purposes other than those described in the operating manual.



DANGER!

Failure to observe this instruction will cause death or serious injury.

DANGER OF ELECTROCUTION

On boats: Ensure that the power supply has a residual current circuit breaker.



WARNING!

Failure to observe this instruction can cause injury.

DANGER OF ELECTROCUTION

- Installation in humid places must be performed by a professional technician.
- Do not turn on the fridge if it is visibly damaged.
- If this fridge's power cable is damaged, it must be replaced by the manufacturer, after-service staff or a similarly qualified person in order to prevent safety hazards.
- This fridge may only be repaired by qualified personnel. Improper repairs may cause serious hazards.

EXPLOSION HAZARD

- Do not store any explosive substances such as spray cans with flammable propellant in the fridge.
- The appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.
- Children should be supervised to ensure that do not play with the appliance.
- Instructions for class III appliances state that it must only be supplied at SELV.
- This 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 appliance in a safe way and understand the hazards involved.
- Children should not play with the appliance.
- Cleaning and user maintenance should not be done by children without supervision.
- Children aged from 3 to 8 years are not allowed to load and unload refrigerating appliances.



CAUTION!

- Failure to observe this instruction can lead to property loss or malfunction.

HEALTH HAZARD

- Food may only be stored in its original packaging or in suitable containers.

DANGER OF CRUSHING

- Do not put your fingers into the hinge.



NOTICE! DANGER OF DAMAGE

- Check that the voltage specification on the type plate is the same as that of the power supply.
- Never pull the plug out of the socket by the connection cable.
- If the fridge is connected to the DC socket: Disconnect the fridge before connecting the quick charging device to the battery.
- If the fridge is connected to the DC socket: Disconnect the fridge or switch it off when you turn off the engine. Otherwise the battery may be over-discharged.
- The fridge is not suitable for storing substances which are caustic or contain solvents.
- Keep the drainage outlet clean at all times.
- Do not open the coolant circuit under any circumstances.
- Never transport the fridge in over-45 degrees from upright position, to prevent oil from leaking out of the compressor.
- Make sure that the coolant circuit is not damaged during transportation. Refrigerant inside the coolant circuit is highly flammable.
- In the event of any damage to the coolant circuit:
 - Avoid naked flame or spark.
 - Air the room well.
- Install the fridge in a dry location to prevent from getting damp.



DANGER!

Failure to observe this instruction will cause death or serious injury.

DANGER OF ELECTROCUTION

- Do not touch exposed cables with your bare hands.



WARNING!

RISK OF FIRE/FLAMMABLE MATERIALS



- Do not locate multiple portable socket-outlets or portable power supplies at the rear of the appliance.
- To avoid a hazard due to instability of the appliance, it must be fixed in accordance with the instructions.

The refrigerant used in your appliance and insulation materials requires special disposal procedures.

SAFE RECOVERY INSTRUCTLONS

Disposal

- Old appliances still have some surplus value. An environmentally friendly approach will ensure that valuable raw materials are recycled.
- The refrigerants used in your equipment and insulation materials require special handling procedures. Make sure there is no pipe damage on the back of the equipment before handling.
- Up-to-date information on the options for disposing of old equipment and packaging from old equipment can be obtained from the local municipal office.

Correct Disposal of this product



This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmentally safe recycling.

Warnings for disposal

- Refrigerant and cyclopentane foaming material used for the refrigerator are flammable. Therefore, when the refrigerator is scrapped, it shall be kept away from any fire source and be recovered by a special recovering company with corresponding qualification other than be disposed by combustion, so as to prevent damage to the environment or any other harm.
- When the refrigerator is scrapped, disassemble the doors, and remove gasket of door and shelves; put the doors and shelves in a proper place, so as to prevent trapping of any child.



CAUTION!

Failure to observe this instruction can lead to property loss or malfunction.

DANGER OF ELECTROCUTION

- Before using the fridge, ensure that the power supply line and the plug are dry.

HEALTH HAZARD

- When connecting the fridge to a battery, make sure that no food comes into contact with the battery acid.



NOTICE! DANGER OF DAMAGE

- Do not use electrical devices inside the fridge unless they are recommended by the manufacturer for designated purpose.
- Do not place it near a naked flame or other heat sources (heaters, direct sunlight, gas ovens, etc.)

DANGER OF OVERHEATING

- Always ensure sufficient ventilation so that heat generated during operation can dissipate. Make sure that the fridge is sufficiently far away from walls and other objects so that air can circulate.
- Ensure that the ventilation vents are not covered.
- Do not fill the inner containers with ice or fluid.
- Never immerse the fridge in water.
- Protect the fridge and the cable against heat and moisture.
- Make sure that foodstuffs do not touch the walls of the cooling area.

Scope of delivery

Quantity	Description
1	Fridge with shelves
1	Installation hole plug
1	Installation and operating manual

Accessories

Available as accessories (not included in the scope of delivery):

Description	Explanation	Ref. no.
DC Adapter	Suitable for BCD50 and BCD85, with input voltage of DC12V or 24V	

If you have any questions, please contact the dealer or our service partner directly.

Intended use

The fridge is designed for installation in caravans and motor homes and on boats. It is recommended the unit is installed into a fixed cabinet. Once installed, only the front of the fridge is accessible.

The fridge is only suitable for cooling, freezing and storing food-stuffs. It is not proper for storage of medicine.



CAUTION! HEALTH HAZARD

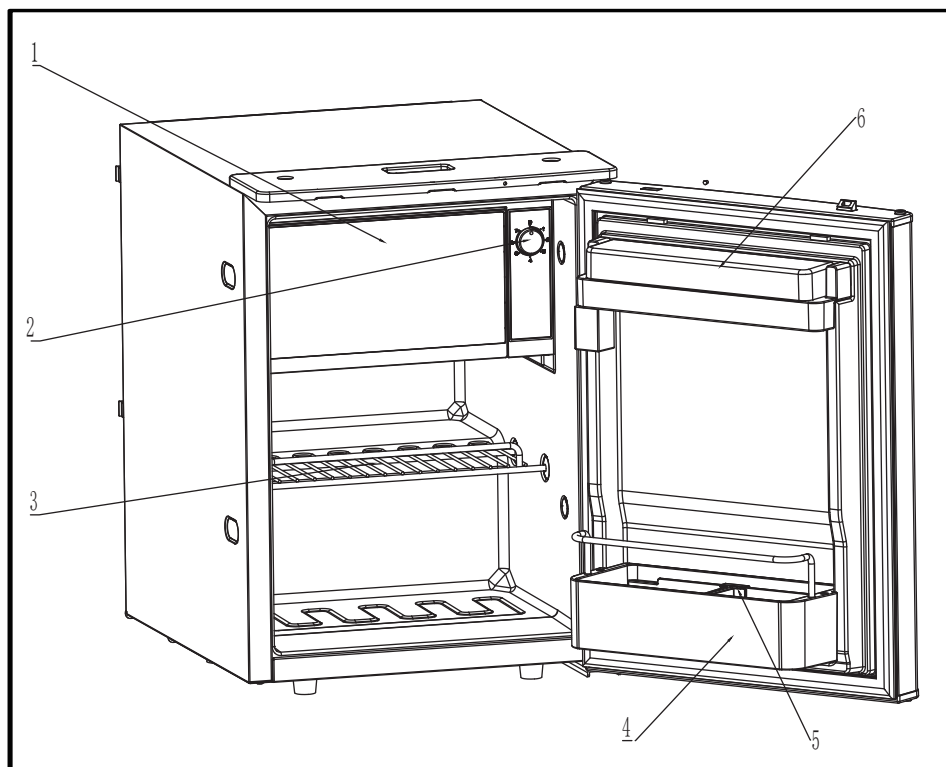
Please check whether the cooling capacity selected is suitable for the food you plan to store.

Routine maintenance

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;
- Clean water tanks if they have not been used for 48 h; flush the water system connected to a water supply if water has not been drawn for 5 days;
- Store raw meat and fish in suitable containers in the refrigerator, so that it is not in contact with or drip onto other food;
- Two-star frozen-food compartments are suitable for storing pre-frozen food, storing or making ice-cream and making ice cubes;
- One-, two- and three-star compartments are not suitable for the freezing of fresh food;
- If the refrigerating appliance is left empty for long periods, switch off, defrost, clean, dry, and leave the door open to prevent mould developing within the appliance.

Main parts



1 Freezer

2 Control panel

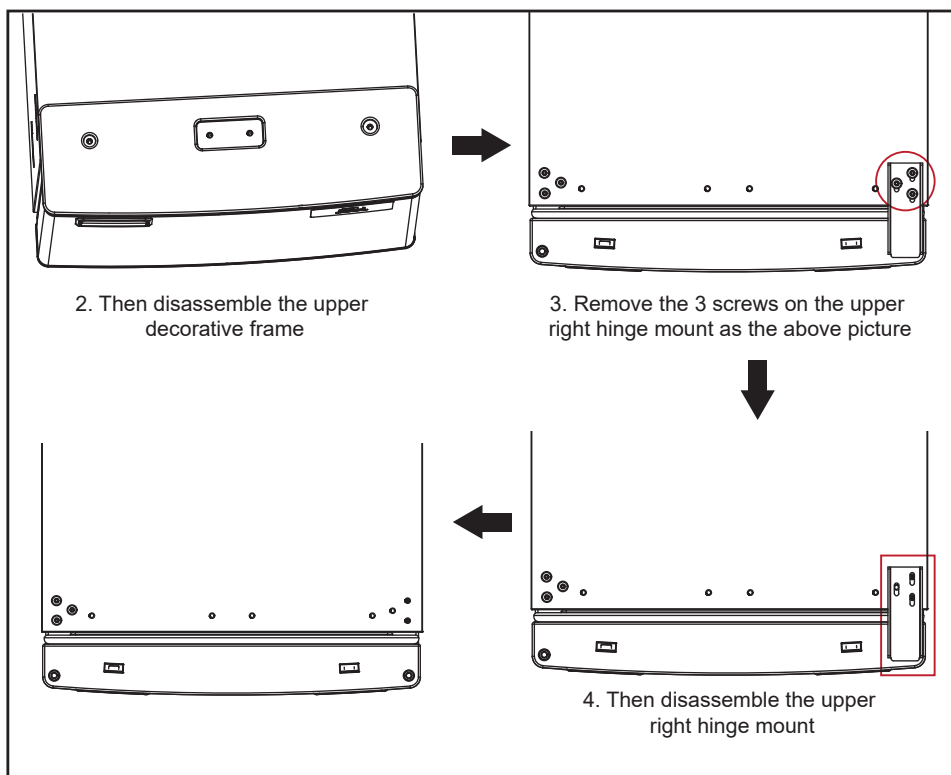
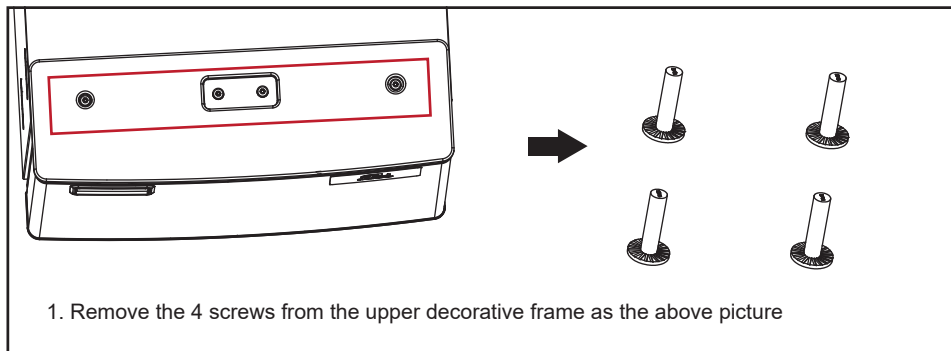
3 Shelf grid

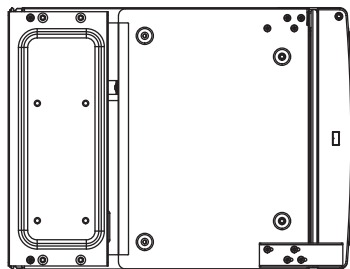
4 Storage Box

5 Bottle damper

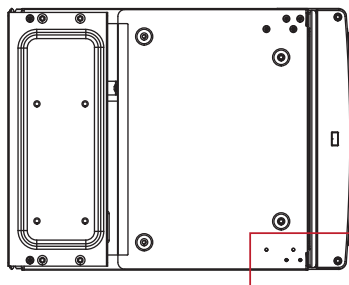
6 Egg box

Door hinge position change





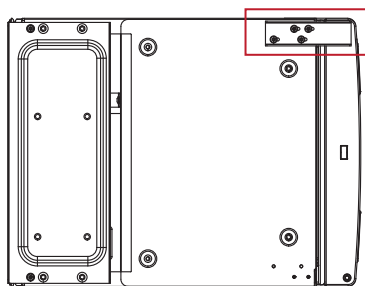
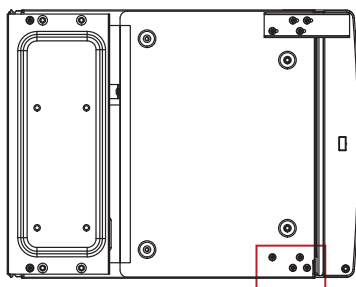
5. Lay one side down 45° to face fridge bottom



6. Disassemble the lower right hinge mount with similar method of disassembling the upper right hinge mount

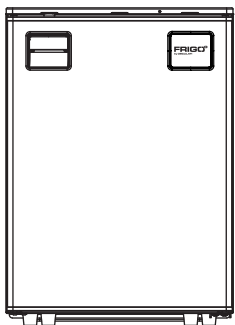


8. Assemble the 4 screws back as illustrated in low picture

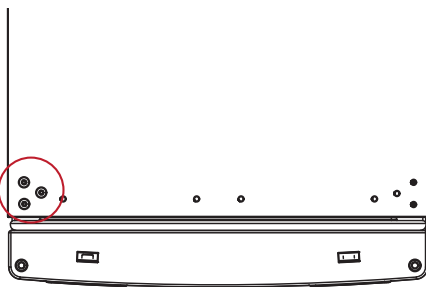


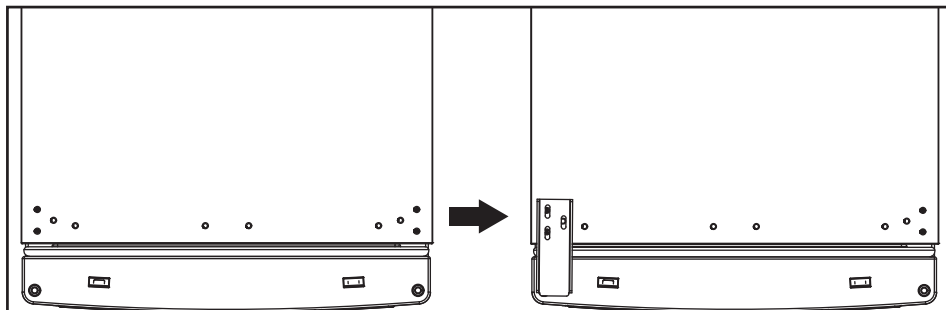
7. Assemble the lower left hinge mount with similar method of assembling upper left hinge mount. Lower left hinge mount has to be purchased from dealer.

9. Put the fridge to upright position

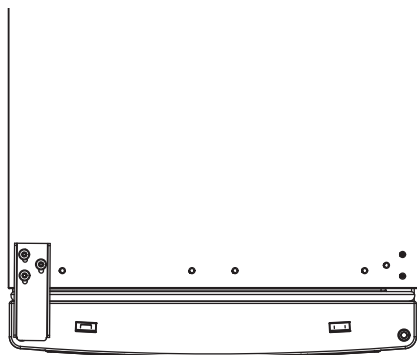


10. Remove the screws as in the above picture

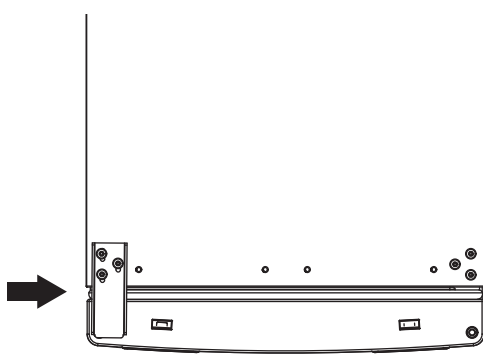




11. Assemble the upper left hinge mount on the upleft of the fridge, this part has to be purchased from dealer.

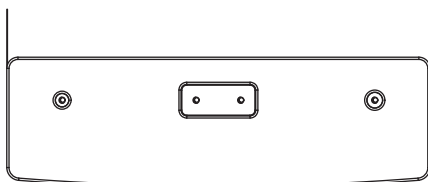


12. Install the 3 screws back to the upleft of the fridge as in the above picture

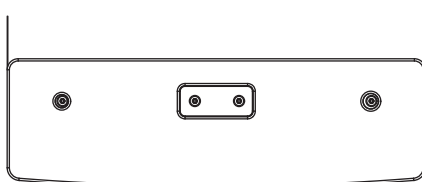


13. Install the 3 screws back to the upright of the fridge as in the above picture

14. Assemble the upper decorative frame back

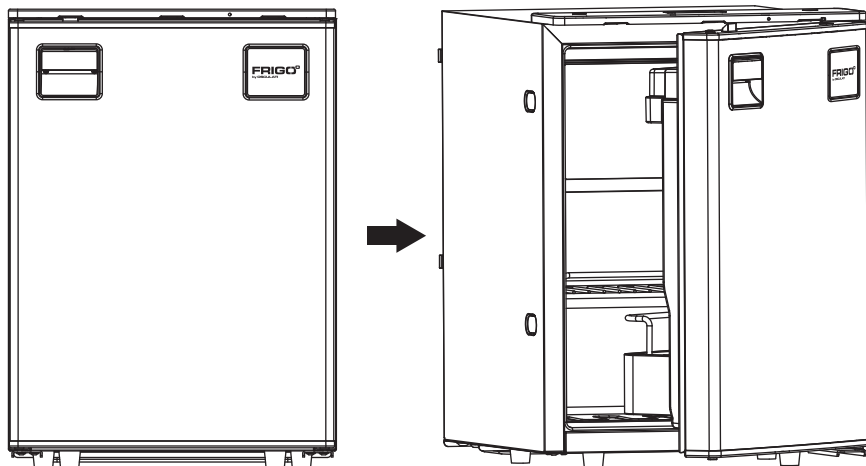


15. Install the 4 screws back to the upper decorative frame

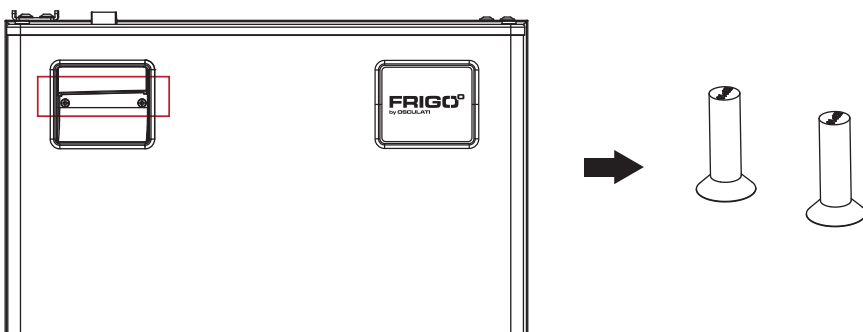


Door clasping position change

1. Pull the handle to open the fridge



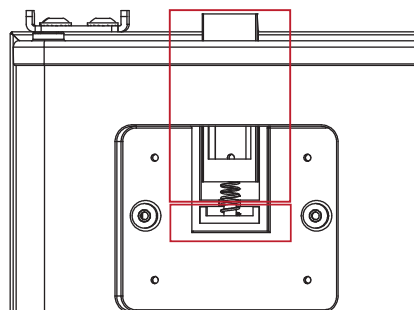
2. Pull the clasping higher to remove the 2 screws



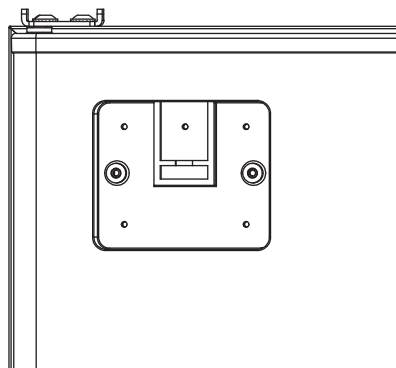
3. Then remove the whole handle base box



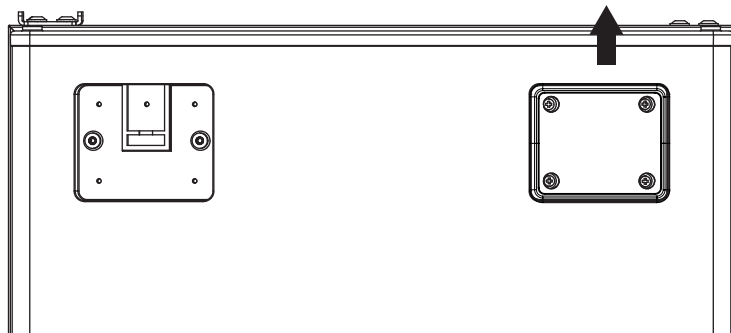
4. Pull out the bolt and spring



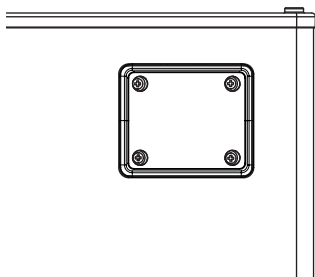
5. Dig out the spring seat



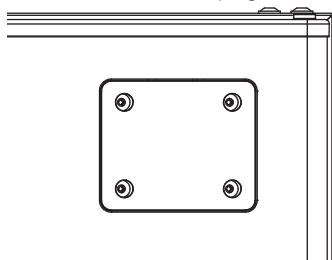
6. Tear down the panel patch on the fridge front surface



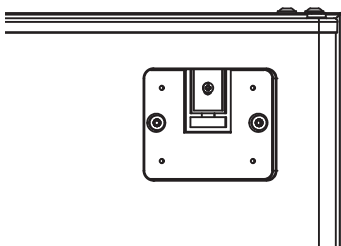
7. Loosen the four screws marked



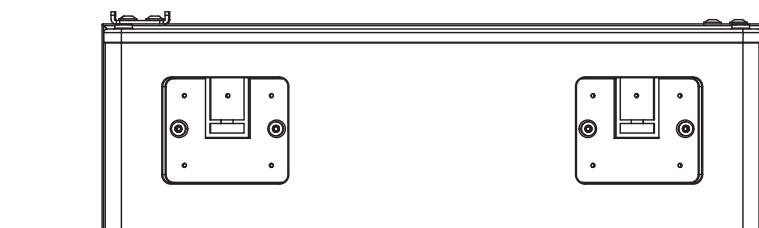
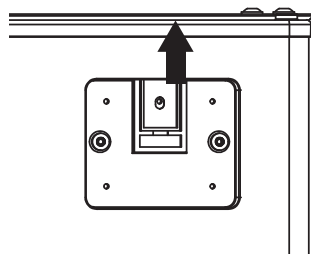
8. Remove the 4 screws and then take out the handle hole plug



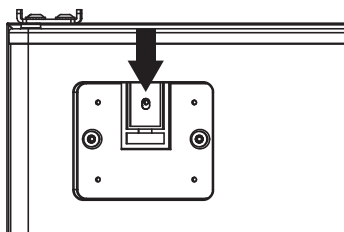
9. Take down the central screw from the right lock hole plug



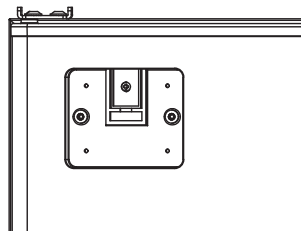
10. Push out the right lock hole plug from down to up



11. Push the same lock hole plug from up to down on the left position



12. Tighten the screw on the lock hole plug

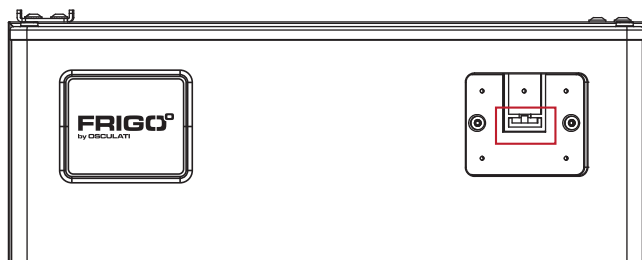




13. Assemble the handel hole plug to the left position and fix the 4 screws

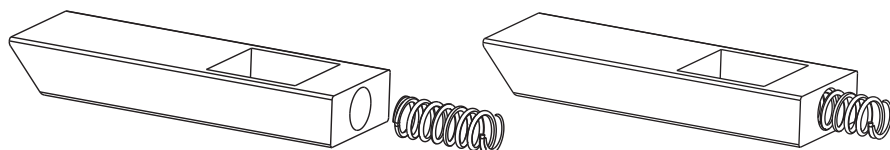


14. Put the panel pack to the left position

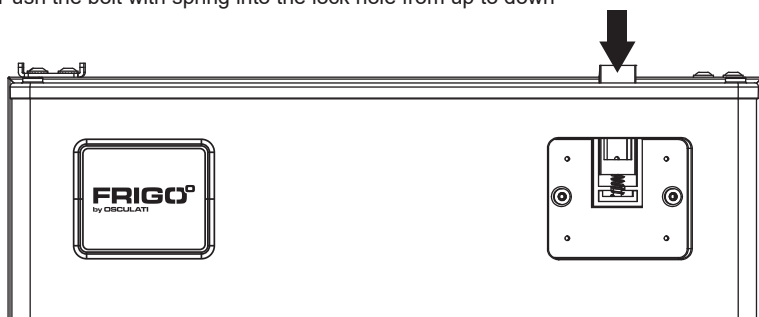


15. Push the spring seat into the lock hole on the right

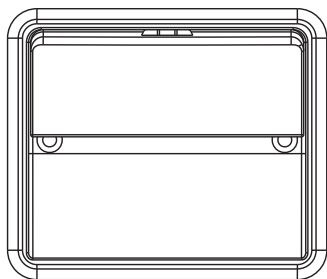
16. Put the spring into the hole of lock bolt



17. Push the bolt with spring into the lock hole from up to down



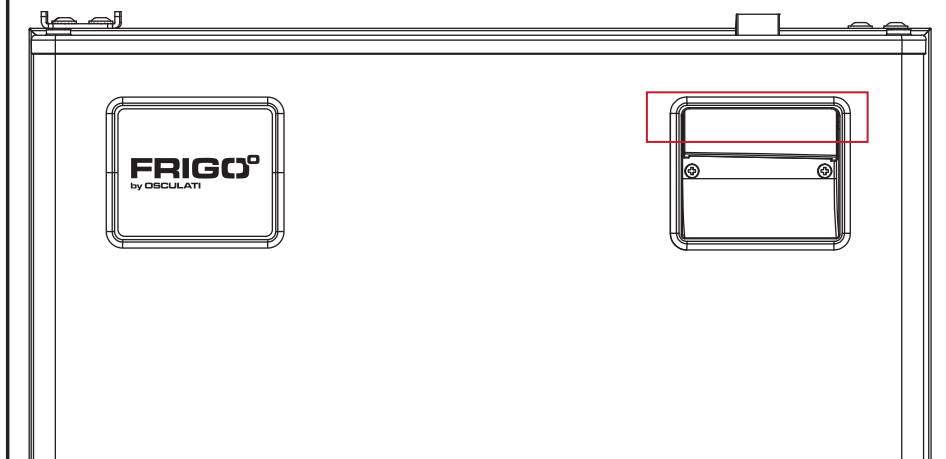
18. Put the clasping into the handle base box



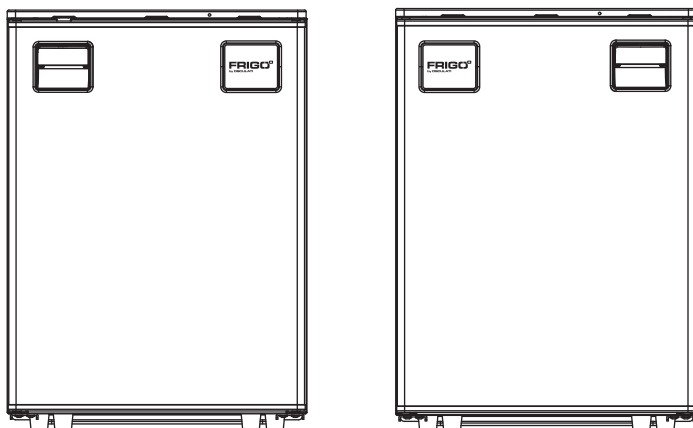
19. Then put the whole handle base box into the right position



20. Pull the clasp up to fix the 2 screws into the illustrated positions

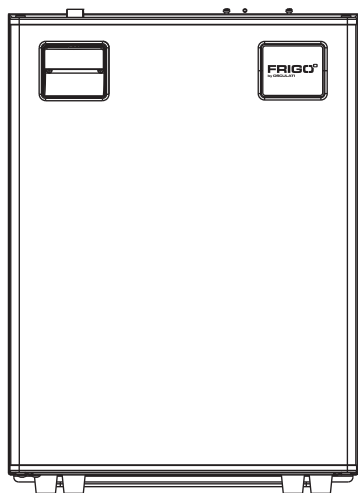


Then the clasp position has changed from left to right

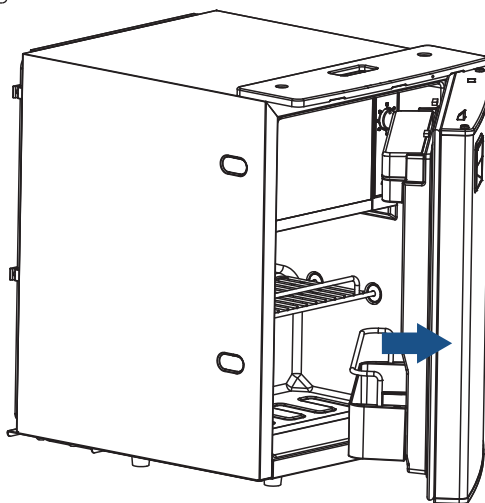


Instructions for use

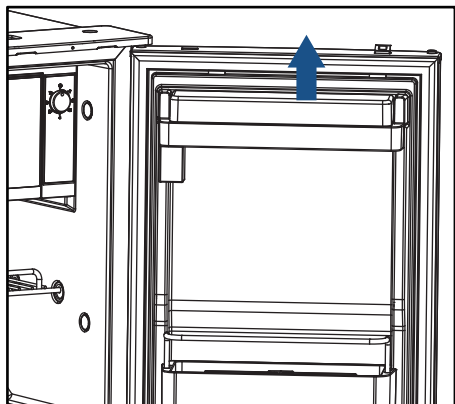
Door opening and closing



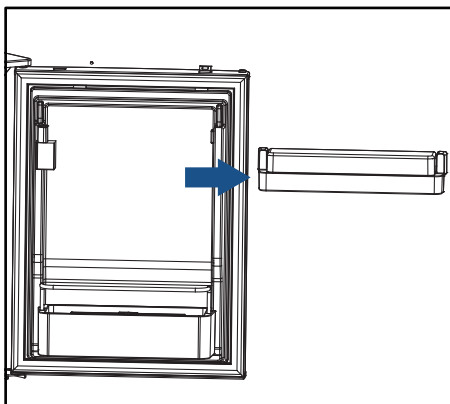
Pull the clasp up to open the door



Egg box removal

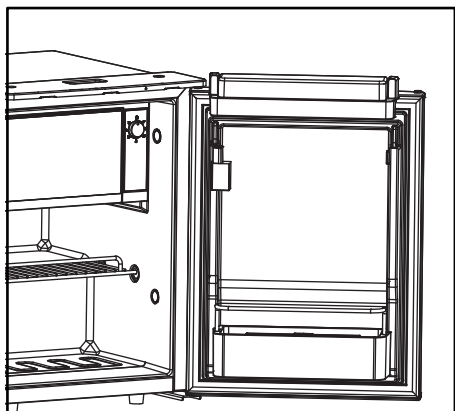


1. . Push the egg box up

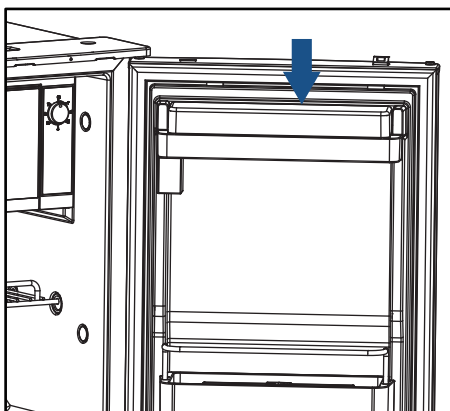


2. Then take it out

Egg box installation

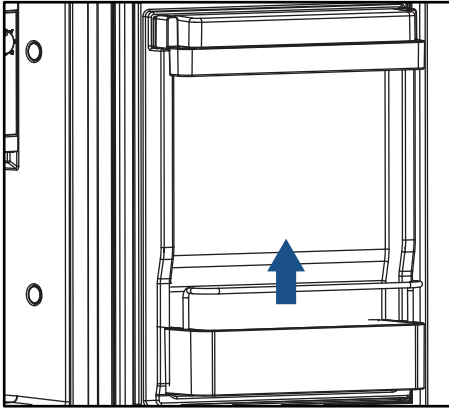


1. Put the egg box in the illustrated place

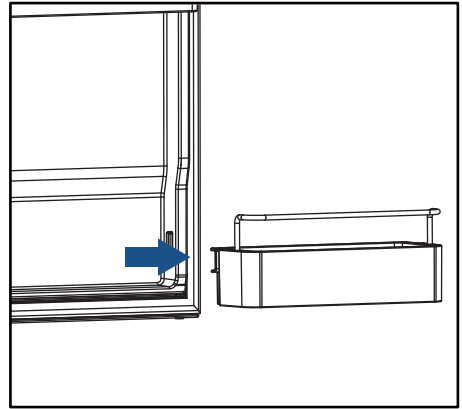


2. Push it down to the final position

Storage box removal

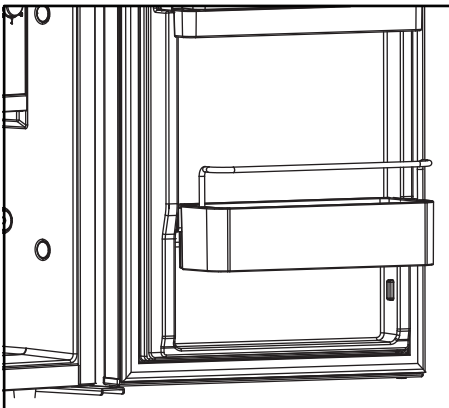


1. Push the storage box up

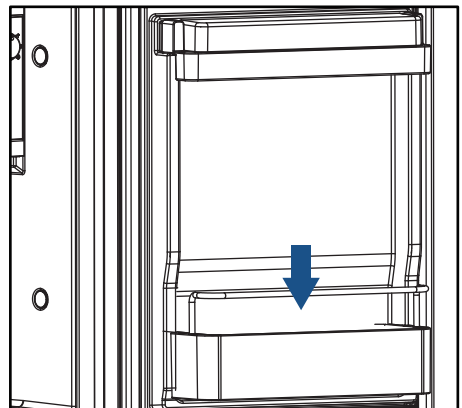


2. Then take it out

Storage box installation



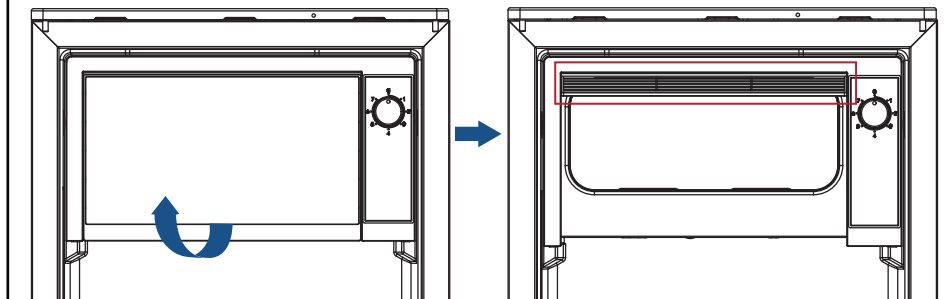
1. Put the storage box in the illustrated place



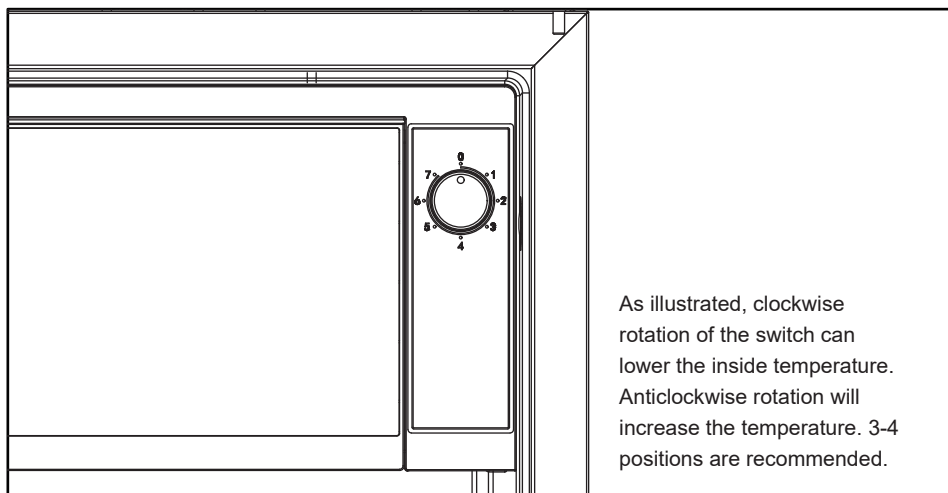
2. Push it down to the final position

Freezer door opening

Flip up the door until it is magnetically fixed

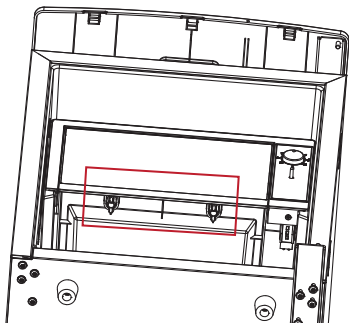


Freezer switch positions

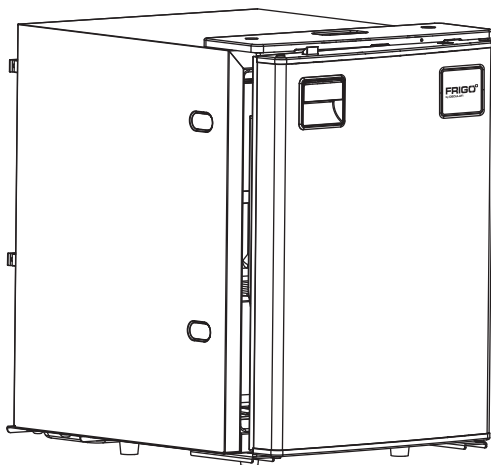
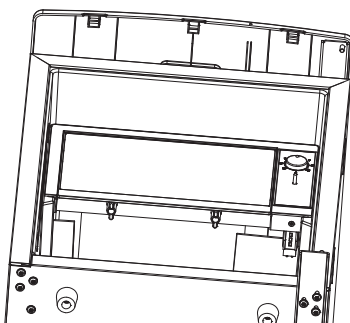


Water-reveiving tray removal

1. Parallelize the 2 knobs 90°



2. Then move the tray down to disassemble



1. In case of long period nonuse, remove all the stuff inside the fridge and clean thoroughly, open the door as illustrated

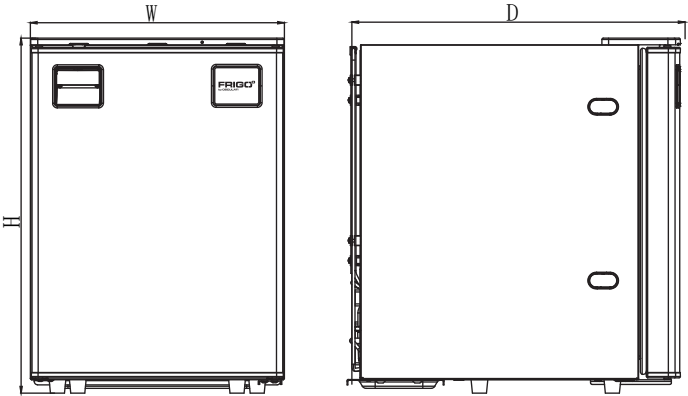
2. If frost thickness on the evaporator is over 10mm, please turn off the fridge for defrosting. Otherwise, it may affect cooling performance and damage the machine

3. Put the fridge aside for 24 hours before using again after hinge position change

Installation

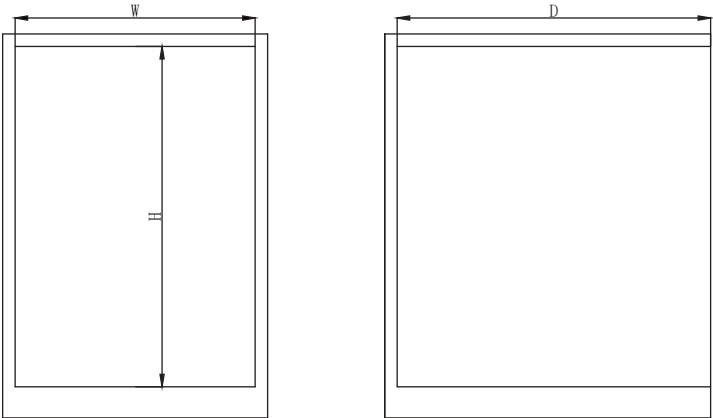
Outline dimensions

Model	W (mm)	D (mm)	H (mm)
BCD50	380	500	535
BCD85	475	555	635

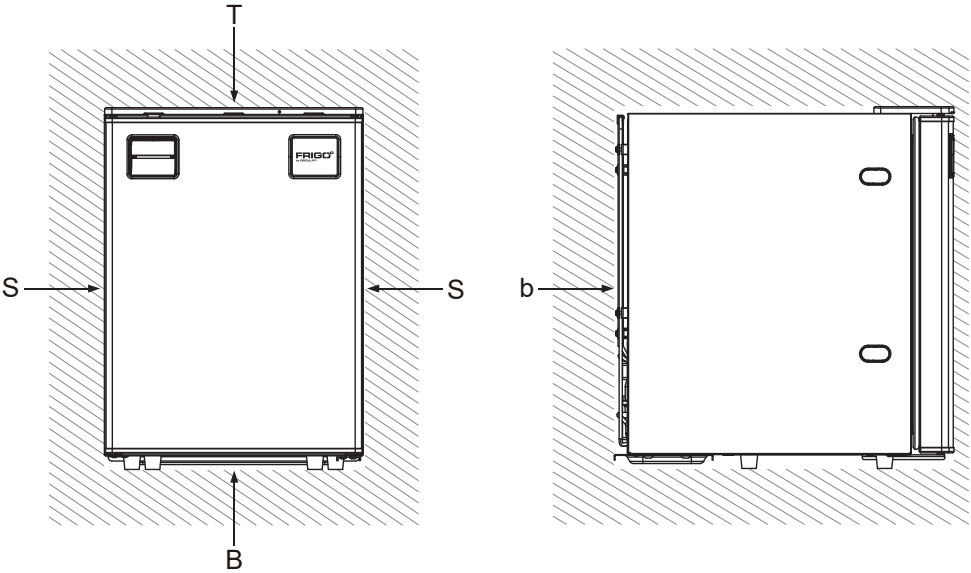


Installation cabinet dimensions (with rear vent)

Model	W (mm)	D (mm)	H (mm)
BCD50	385	470	546
BCD85	480	525	646



Minimum distances between the various parts of the appliance and the surrounding structure:

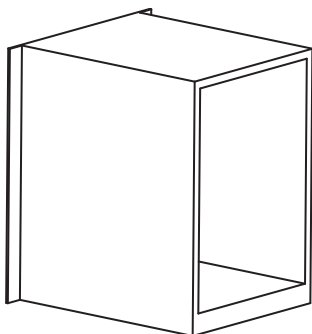


Minimum clearance	
Top (T)	50mm
Side (S)	2.5mm
Bottom (B)	Cannot be completely sealed
Back (b)	30mm

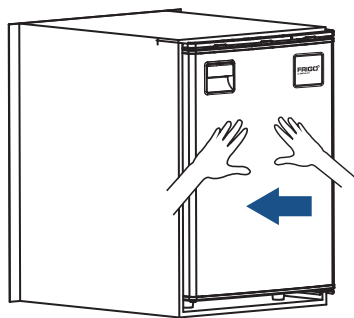
(The installation cabinet has no rear vent)

Fridge installation

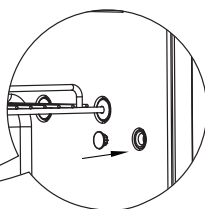
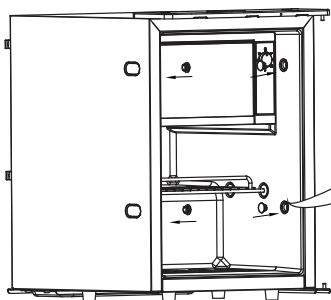
1



2



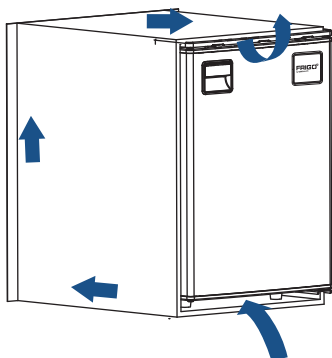
3



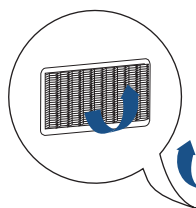
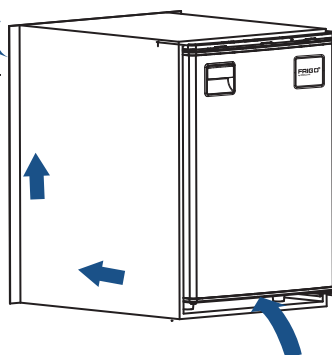
Open the fridge door, tighten the screws with one hand, and fix the fridge with the other hand

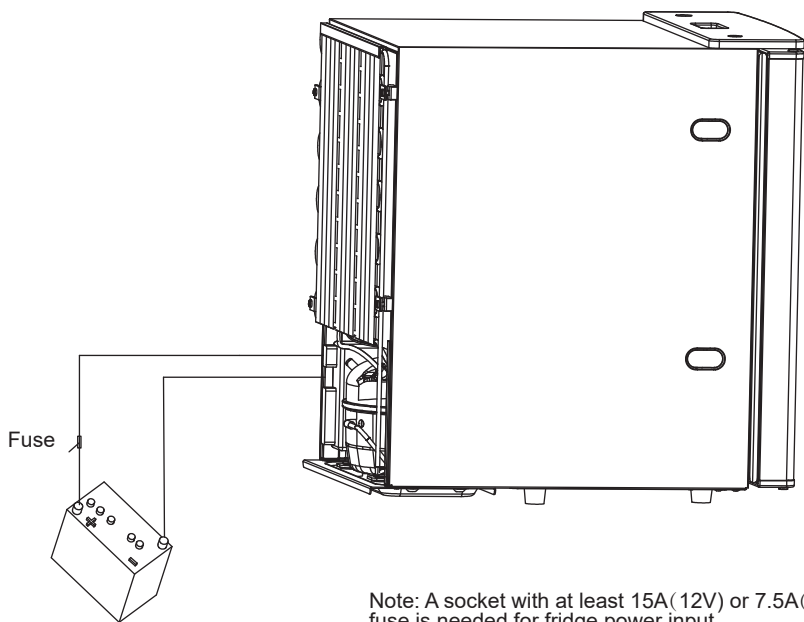
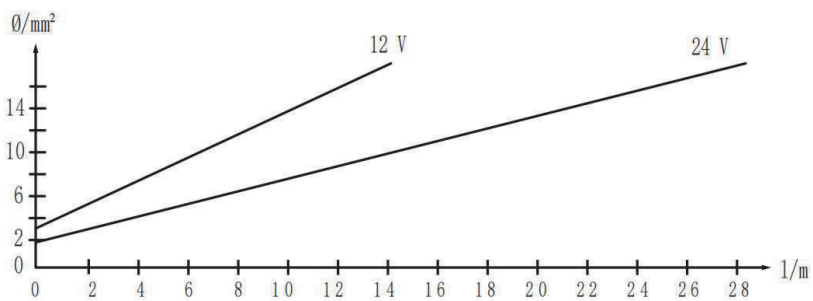
Fridge ventilation

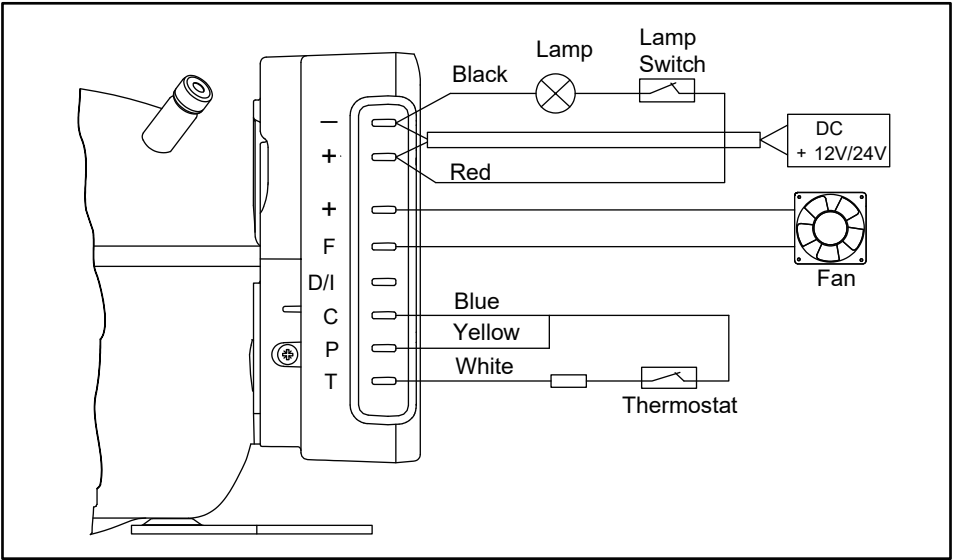
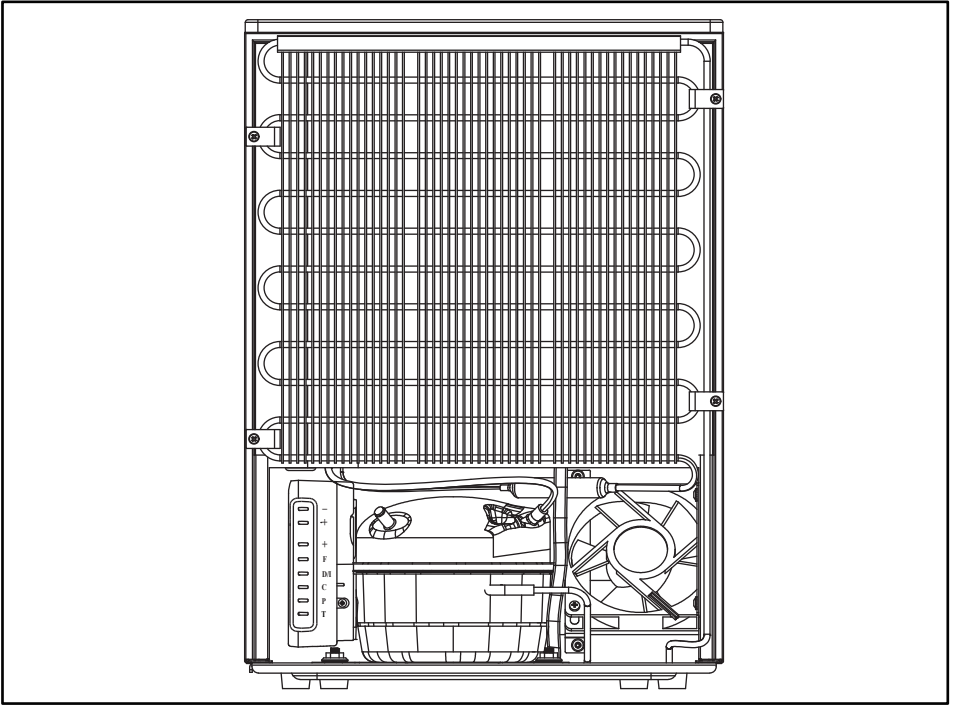
1



2







Parameters

Technical data			
Product information	Model	BCD 50	BCD 85
	Total storage volume	44L	83L
	Fridge storage volume	37L	68.5L
	Freezer storage volume	7L	14.5L
	Refrigerated temperature	0°C≤t≤8°C (up to 32°C ambient)	
	Freezer temperature	≤-18°C (up to 32°C ambient)	
	Control	Mechanical temperature control	
	Door quantity	single door	
	Door opening	left or right hinge	
	Door airing structure	yes	
	Lamp	LED lamp inside refrigerator	
	Fridge wire frame	1	
	Refrigerator door storage box	2	
	Net weight	16.5kg	21kg
	Gross weight	18.3kg	23.6kg
	Product size	W380*D500*H535 mm	W475*D555*H635 mm
	Package size	W450*D566*H574 mm	W535*D615*H665 mm
Loading quantity	20' GP	200	120
	40' GP	415	246
	40' HP	420	324
Performance	Input voltage	DC12V/24V	
	Input current	5.0A/2.5A	5.5A/2.75A
	Input power	60W	66W
	Refrigerant	R600a/16g	R600a/20g
Additional	Certificate	CB, CE, RCM, E-MARK	

Warranty

When the statutory warranty period applies, if the product is defective, please contact our branch in your country or your retailer.

For repair and warranty processing, please include the following documents when sending the refrigerator:

- Copy of receipt with date of purchase
- Cause or fault description

Warranty Policy

1. The warranty period is one year.
2. To submit a warranty claim, the user must take the product to a dealer authorized service partner. Warranty claims will be assessed here.
3. Parts replaced under warranty become dealer's property.
4. This warranty does not violate the latest consumer protection laws.
5. This warranty does not apply to products for commercial use.
6. Warranty claims in one of the following categories will be rejected:
 - 1) Improper use of the product or failure to use it in accordance with the instructions;
 - 2) Failure to install the product according to the instructions;
 - 3) The product has been modified;
 - 4) The repair of the product is not carried out by a dealer service partner;
 - 5) The product serial number or product code has been tampered with or deleted;
 - 6) Damage to the product due to abuse.

FRIGO°
by OSCULATI