



USER MANUAL

REACH IN COMMERCIAL REFRIGERATOR AND FREEZER



T-1RE, T-1FE, T-2RE, T-2FE



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- Please keep this instruction manual properly for reference when necessary
- Please be sure to read this instruction manual carefully, which provides the installer/user with the important information required for proper installation, safe use and maintenance of this product

Note

1. This appliance is used for commercial and similar purposes, such as:

- Kitchen areas in shops or other workplaces;
- Customers in farms, hotels, motels environments;
- Family hotel environment;
- Catering industry and similar non-retail applications.
- Used for storing packaged food.

This product is not suitable for other uses, otherwise it may cause danger. The manufacturer is not responsible for any losses caused by improper and unreasonable use.

2.This product is not suitable for people who lack corresponding experience and knowledge (including children) to use alone, there must be someone responsible for their safety, and supervision and guidance.

Warning !



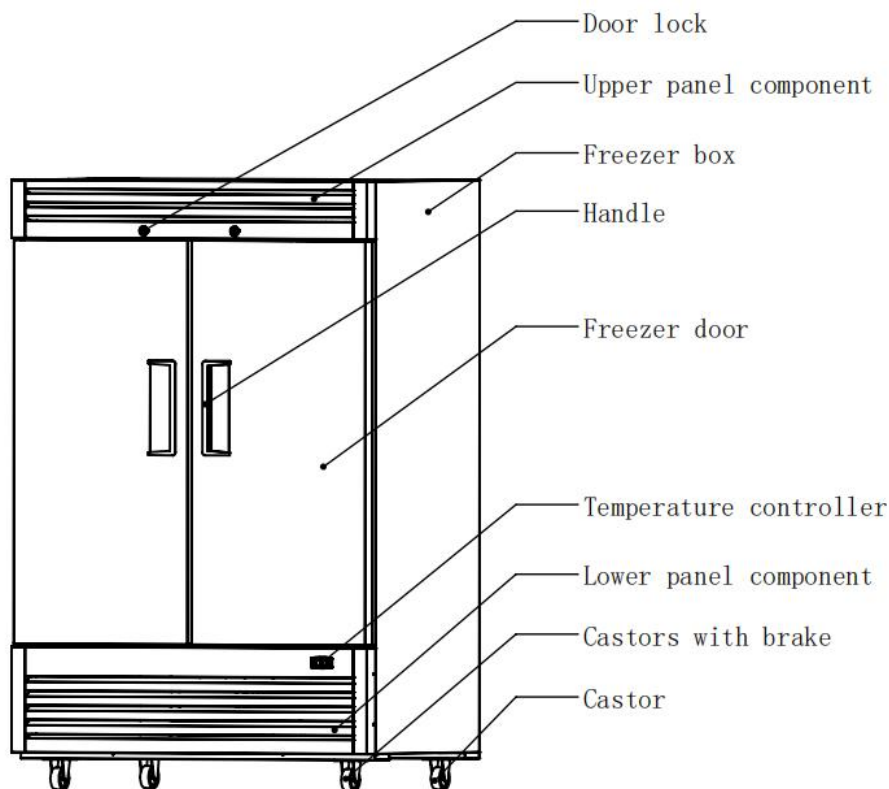
Keep Dry

Do not get this product wet or use it in a high-humidity environment, otherwise it may cause electric leakage, which may cause electric shock or fire.

I . Product Features

- Product safety performance implements national standards;
- Using built-in evaporator, fully-enclosed refrigeration system, long service life;
- Using high-end brand compressors, low noise, power saving, wide voltage, long service life, overload protection;
- The cabinet body is integrally foamed by high-pressure polyurethane, and the thickened foam layer has good thermal insulation effect;
- Thickened food grade stainless steel is used in the cabinet, stable structure and the load bearing is good;
- Energy-efficient.

II . Product Structure



III. Product Installation&Use

3.1 Installation environment

If the SUPPLY CORD is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

Warning

There are no obstacles around the appliance or in the embedded structure to keep the ventilation smooth.

Keep clear of obstruction all ventilation openings in the appliance enclosure or in the structure for building-in.

Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.

Do not damage the refrigerating circuit.

Do not use electrical appliances inside the food/ice storage compartments unless they are of the type recommended by the manufacturer.

For appliances which use flammable insulation blowing gases, the instructions shall include information regarding disposal of the appliance.

Each shelf can bear a maximum weight of 50kg.

Note

This product is for indoor use only. It should be placed in a cool and ventilated place without direct sunlight. The normal working environment temperature is in the range of 5°C~35°C.

In order to reduce flammability hazards the installation of this appliance must only be carried out by a suitably qualified person.

Best use environment:

- Do not install this product near stoves, grills or other equipment that generates high temperatures;
- The product should be installed on a solid ground;
- Avoid installing the product on the floor where dripping water is not allowed, especially when the products are installed side by side or back to back (allowing to put together with products of other manufacturers), condensation may appear on the surface of the box between the two machines, and the condensation water will drip To the ground;
- indicate that component parts shall be replaced with like components so as to minimize the risk of possible ignition due to incorrect parts.

3.2 Installation method

Note

- Please check the machine model before unpacking;
- Please check whether the outer package is intact before unpacking;
- After unpacking, please check whether the machine is intact and the accessories are complete;

1) Cut off the packing belt, then disassemble the wooden frame and the carton, and remove all the inner packaging (do not throw it away at random, it can be recycled to the garbage collection station), please be careful to prevent damage to the product surface.

2) Install the machine in the selected position and adjust it to the level.

3) Prepare warm water, add an appropriate amount of neutral food grade detergent, then soak a soft cloth in this mixed solution, and then clean the inside of the machine.

3.3 Partition

Depends on the product structure: the height of the partition can be adjusted from 1.2 to 2.5cm as the height unit, please adjust the partition according to the height of the stored items.

Note

Please correctly install the partition hooks and partitions, ensure that the partitions are level.

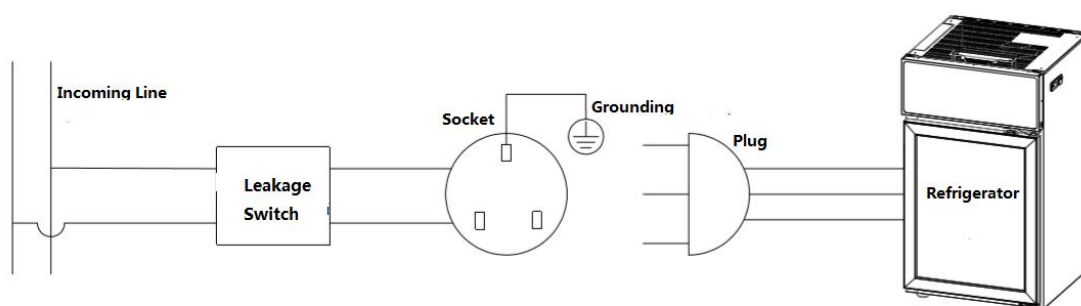
3.4 Electrical connection

Warning

- The product does not have a power switch or leakage protector, please install a switch with a rated current of at least 10A on the main power supply.
- To ensure personal safety, please effectively ground the indoor power supply to ensure that the product is effectively connected to the external ground.
- Except for the type recommended by the manufacturer, electrical appliances must not be used in the food storage room of the appliance.

Warning

If the power cord is damaged, in order to avoid danger, it must be replaced by a professional staff who is from the manufacturer's maintenance department or similar department.



-Before using the product, please check whether there is any damage to the main power cord. Do not stress the power cord. It is strictly forbidden to change the power cord without permission. A 10A power socket should be equipped separately.-The maximum

voltage fluctuation required for product operation shall not exceed $\pm 10\%$ of the rated voltage of the nameplate.

-The standard power supply capacity is the basis for the normal operation of the machine. Please select a power supply cable that is greater than 1.5 times the working current of the machine. The wiring between the home power supply and the machine should be as short as possible. (If it is greater than 10 meters, please increase the diameter of the wire appropriately to reduce the voltage drop of the power supply line. Please connect a separate air switch and leakage switch to the connection with the line of this machine.)

-When the product you purchase is 220V voltage, but the power supply voltage is lower than 187V (Or when the product you purchase is 110V voltage, but the power supply voltage is lower than 94V). Then this product can not run, please install a voltage stabilizer before use.

-Do not place the power cord on a pedestrian path, and do not place heavy objects or objects with sharp edges on the power cord.

3.5 Use Instructions

Check before power on

- ◆ Whether the temporary strapping of the product has been removed;
- ◆ Whether all accessories or other items inside the cabinet have been removed;
- ◆ Whether the feet are adjusted well and whether the cabinet is level;
- ◆ Whether the product is reliably connected to the external ground;

- ◆ Confirm whether the power supply voltage frequency is consistent with the machine nameplate.

Note

- 1)It is forbidden to directly spray water or other liquids on the thermostat or compressor room, otherwise Can cause malfunction or electric shock.
- 2)To prevent electric shock, do not touch the plug and electrical parts with wet hands.
- 3)Do not store volatile, flammable or explosive items in this machine, such as gasoline, ether, adhesives, combustion-supporting sprays and LPG.
- 4)This product is designed to temporarily store food and use it for other purposes (For example, chemical or medical supplies such as vaccines and serums) may cause the stored items to deteriorate.
- 5)Do not throw items onto the partition or place more than 60KG items on the partition to avoid that the partition may fall and cause injury.
- 6)Do not store glass bottles or cans at the air outlet, they may freeze or even rupture, causing dangerous injury.
- 7)Do not use flammable sprays,products or place volatile products near the machine, sparks generated when operating a switch or similar device may cause fire disaster.
- 8)Do not place any objects at the cooling air outlet and return air inlet, which will affect the interior gas circulation and reduces the cooling effect. The internal high-speed fan may cause personal injury.
- 9)Before placing food in the cabinet, please turn on the refrigerator/freezer for 1 hour and check if the temperature is normal.

10) Do not make the cabinet full of food. To make the temperature in the cabinet even, a certain gap (more than 10mm is recommended) should be kept between the foods to ensure smooth air circulation, which is conducive to the freezing and preservation of food.

11) Please do not put warm or hot food, please let the food cool naturally first, otherwise it will cause the temperature inside the cabinet to rise rapidly, and may cause other food stored in the cabinet to deteriorate or cause the refrigerator/freezer to overload.

12) For food with high surface humidity, please do not directly touch the wall of the cabinet to avoid sticking and cannot be taken out. (Note: If such a situation occurs, do not forcefully take it, you should take it after the temperature rises, otherwise it may damage the inner wall.)

13) Moist or fresh foods and seafood with strong odors should be wrapped in plastic wrap or stored in containers, otherwise these foods will dry out or make other foods smell their odor.

14) Foods containing acetic acid or yeast should be wrapped with plastic wrap, otherwise they may accelerate the corrosion process of the refrigeration copper pipes, which may cause malfunctions.

15) The freezer is only used to store frozen food. During the defrosting process, some temperature-sensitive foods may melt, so they should not be stored in the freezer.

16) After closing the cabinet door, due to the negative pressure in the cabinet room, it is difficult to open the cabinet door immediately, please wait for about 10 seconds.

17) When the indoor temperature of the refrigerator is below 8 °C, the product will be in a shutdown state for a long time. (This situation is not a malfunction, please rest assured to use, when the indoor temperature is higher than 8 °C will work norm.

18) When the power is turned on or off for the first time, depending on the product model, the compressor will start working after 0~5 minutes. (This phenomenon is normal and this is the protection of the compressor.)

19) In the rainy season or in a relatively humid environment (environmental humidity $\geq 85\%$), condensation (water droplets) on the door or side panel of the product is normal.

3.6 Start

- Insert the plug of this machine;
- Compressor and condenser fans will start in 0~5 minutes (depending on product model)

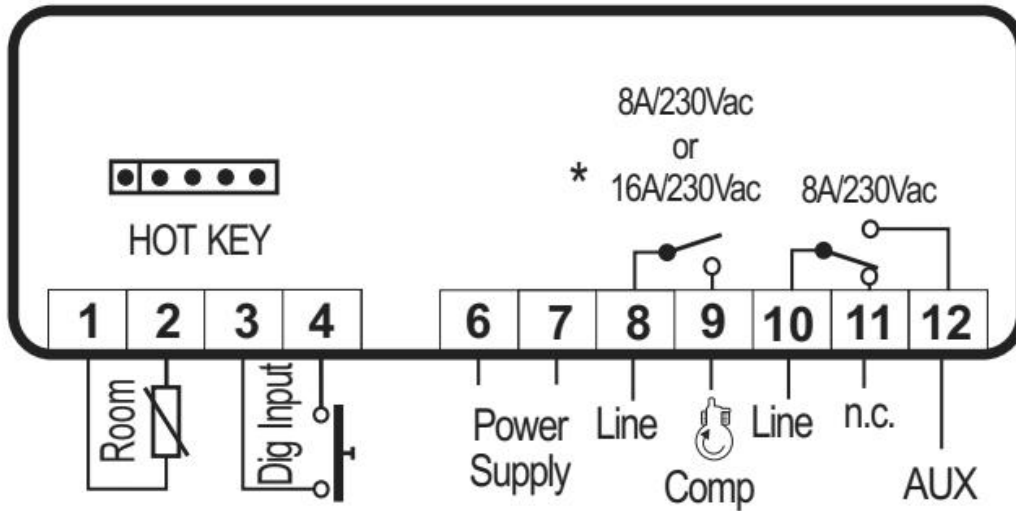
3.7 Cabinet temperature setting

Adjust the display temperature of the freezer to almost the same temperature in the center of the freezer when there is no load. However, depending on the layout of the stored food, the frequency of opening the cabinet door, or the different measuring points, the displayed temperature and the measured temperature will be different.

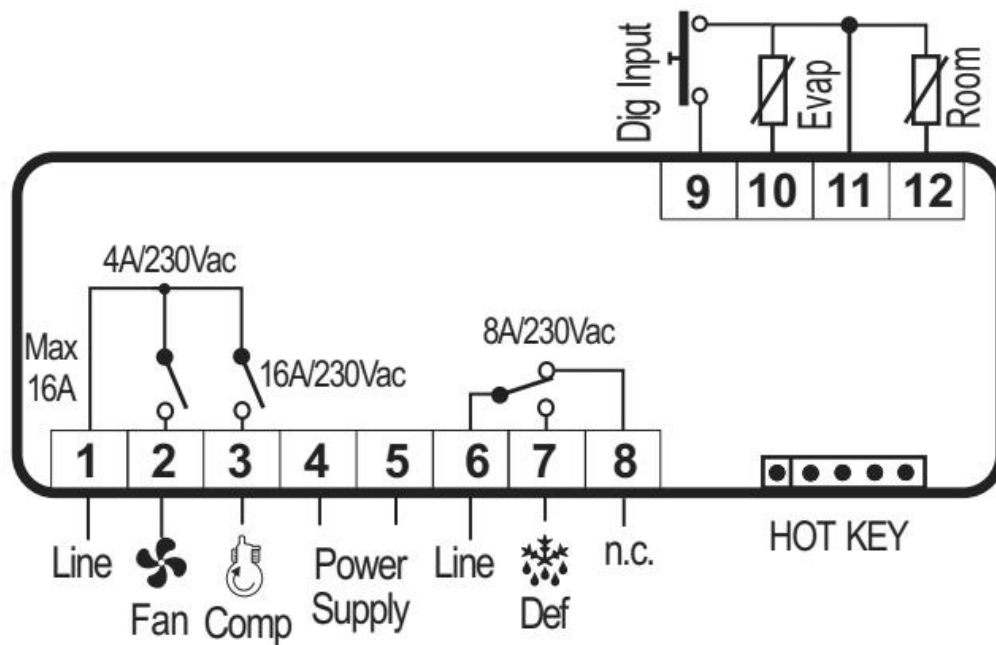
According to the product model, the temperature range of the refrigerator is usually 33~40°F, the temperature of the cabinet is set to 34°F at the factory; the temperature range of the freezer: -8~-0°F, the temperature of the cabinet is set to -1°F at the factory. If necessary, please readjust the temperature setting as follows:

◆ 1-Connections

XR03CX 8A or 16A COMP.



XR06CX 16A COMP.



◆ 1-Indicator status description

LED	MODE	SIGNIFICATO
	on	Compressor enabled
	Flashing	- Compressor Activation Delay active(during- Compressor stop for micro- door)
	on	Defrost in progress
	Flashing	- Defrost delay active (during time dd) - Dripping in progress (during time dt)
	on	Fans output enabled
	Flashing	Fans delay after defrost
	on	Alarms happend
	Flashing	

◆ 1-Operation and display panel



◆ 1-Key function

SET To display target set point, in programming mode it selects a parameter or confirm an operation



To start a manual defrost



In programming mode it browses the parameter codes or increases the displayed value



In programming mode it browses the parameter codes or decreases the displayed value

KEYS COMBINATION

+ To lock or unlock the keyboard

SET + To enter in programming mode

SET + To return to room temperature display



+ To reset parameters

HOW TO SEE THE SET POINT (For User)

1. Push and immediately release the **SET** key, the set point will be showed;
2. Push and immediately release the **SET** key or wait about 5s to return to normal visualisation.

HOW TO CHANGE THE SETPOINT

1. Push the **SET** key for more than 2 seconds to change the Set point value;
2. The value of the set point will be displayed and starts blinking;
3. To change the **SET** value push the up or down arrows within 10s;
4. To memorise the new set point value push the **SET** key again or wait 15s.

HOW TO START A MANUAL DEFROST

Push the **DEF** key for more than 2 seconds and a manual defrost will start, the pre-condition is evaporator probe temp lower than **dE**.

HOW TO CHANGE A PARAMETER VALUE (For Admin)

To change the parameter's value operate as follows:

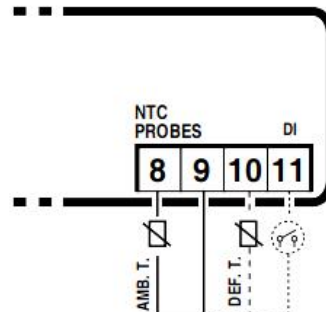
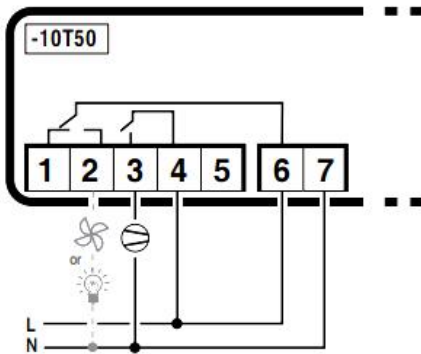
1. Enter the Programming mode by pressing the **SET** + keys for 3s;
2. Select the required parameter.
3. Press the **SET** key to display its value (set value starts to blink);
4. Use or to change its value;
5. Press **SET** to store the new value and move to the following parameter.

To exit: Press **SET** + or wait 15s without pressing a key.

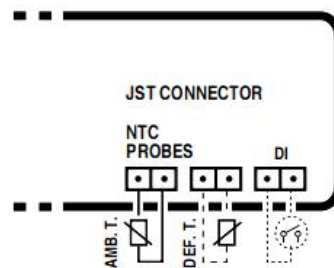
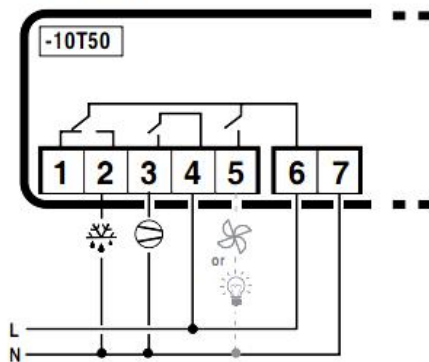
NOTE: the set value is stored even when the procedure is exited by waiting the time-out to expire. Please restart the controller after change the parameters

◆ 2-Connections

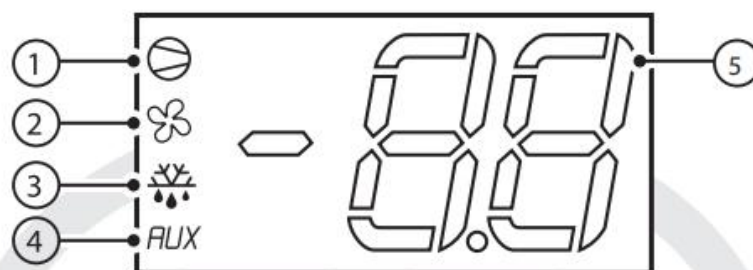
PJEZS*



PJEZ(C,Y)*



◆ 2-Indicator status description



index	function	normal operation			Start up
		ON	OFF	blink	
1	compressor	on	off	request	on
2	fan	on	off	request	on
3	defrost	on	off	request	on
4	aux	output on	output off	-	on
5	digit	2 digit LED display with sign (-99 to 99) and decimal point			

◆ 2-Operation and display panel



◆ 2-Key function

Setting the set point (desired temperature)

- press  for 1 s, the set value will start flashing after a few moments;
- increase or decrease the value using  or  ;
- press  to confirm the new value.

Switching the device ON/OFF

press  for more than 3 s. The control and defrost algorithms are now disabled and the instrument displays the message "OFF" alternating with the temperature read by the set probe.

Manual defrost (only for models C/Y)

press down  for DOWN more than 3 s (the defrost starts only the temperature conditions are valid).

Show defrost probe temperature(only for models C/Y)

press  and  together.

3.8 Defrosting

Warning

In addition to the methods recommended by the manufacturer, no mechanical equipment or other methods should be used to accelerate the defrost process.

- 1) After long-term operation of the static freezing freezer, the frost layer on the inner wall of the freezer may become thick and the cooling effect may be poor. When the frost layer exceeds 1cm, manual defrosting is required. When defrosting, turn off the power, take out the food (if the insulation treatment is required, please transfer the food to other freezer storage), open the door, and remove it after the temperature rises to the frost layer (note: do not use Sharp utensils to remove the frost layer, so as not to damage the components in the box). Finally, wipe the inside of the freezer with a clean soft cloth, then re-use again.
- 2) The air-cooled freezer automatically defrosts the evaporator every 3 to 6 hours. The temperature display window of the thermostat panel will display "dEF" during the defrosting process. This process is normal.

3.9 Shutdown

- 1) Before shutting down, please move the stored food to another refrigerator or freezer.
- 2) Unplug or disconnect the main power.
- 3) When the machine is not used for a long time, please clean the inside of the cabinet and the door seals of the

cabinet and dry them thoroughly, then wrap the machine with plastic tape and store it in a dry place.

IV. Maintenance and cleaning

Warning

- Be sure to unplug the machine before cleaning or maintaining the refrigerator;
- Do not touch or wet the parts of the compressor room, otherwise it may cause malfunction or damage to the machine;
- Do not put plastic parts in water with a temperature exceeding 40°C or in a dishwasher to clean. Avoid damage to parts.

4.1 Internal/ external

Note

In order to maintain the sanitation of the refrigerator, please cut off the power supply regularly to clean its inside and outside (once a month, once for 2~4 hours).

-Before cleaning, disconnect the power supply, empty the items of the cabinet, keep the cabinet door open and still for 2~4 hours, wait for the temperature in the cabinet to return to the ambient temperature; prepare cold or warm water, add an appropriate amount of neutral food-grade detergent, and then Soak a soft cloth in this mixed solution to clean the inside of the machine (inner tanks, partitions, etc.) and the outside (using a chemical solution other than neutral detergent may cause corrosion of the inside and outside surfaces), and then use a soft cloth clean with water once and wipe with a clean dry cloth at the end (after using detergent, it must be cleaned, ventilated and dried). Do not clean the compressor room by spraying water.

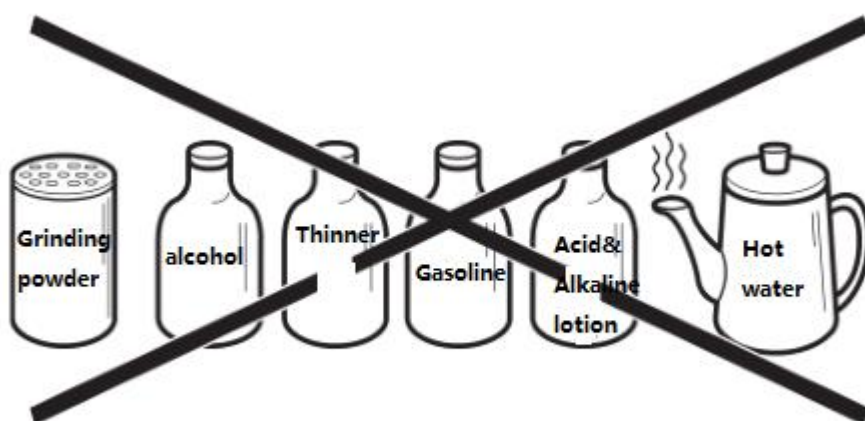
Notes

Any stainless steel material will also rust when it is not maintained properly.

-Any detergent residue will corrode the metal or plastic surface, so wipe it clean with a dry soft cloth.

-Do not use the following items, avoid damage to metal or plastic surfaces:

Polishing powder, alcohol, thinner, volatile oil, acidic or alkaline detergent, petroleum spirit, boiling water, metal polishing tool or steel brush, etc. In particular, do not use detergents designed to remove grease from ventilation equipment or microwave ovens.



-The door seal and its contact surface are easily dirty. Please clean the surface thoroughly, otherwise food debris will accelerate the aging of parts.

-Use a soft cloth to wipe off the accumulated water in the cabinet.

4.2 Air filter

Warning

To prevent deformation of the air filter, please do not use hot water above 40°C to clean the filter

The plastic filter can remove debris or dust in the air, prevent the condenser from clogging, and affect the refrigeration

performance of the freezer to decline. Therefore, check the filter at least twice a month. If it is clogged, please use warm water and neutral detergent to clean it. Use a soft brush along the fins or the wire net to gently brush back and forth; do not brush left or right to avoid damage to the fins and affect the heat radiation. Do not use the machine with the filter removed, otherwise the condenser will be clogged and the machine will malfunction.

V. Repair

Warning

Do not damage the refrigeration circuit

Note

-If the temperature display window on the operation panel shows a fault code or the machine seems to have a problem, please check the possible causes of failure according to the following reasons. If the fault persists, please contact an authorized repair company.

-When contacting the maintenance company, please provide the other party with a detailed address and telephone number, fault description (it is best to take a video or photo when convenient), purchase and receipt date, machine model, serial number, etc. The above information will help to serve you better and save you unnecessary expenses.

-Do not try to repair the machine yourself.

5.1 Fault with showing fault code

When the temperature display window of the thermostat panel flashes the fault code and the temperature in the cabinet alternately, check the fault code and follow the instructions below.

Code	Failure and remedial measures
rH	Cabinet temperature high temperature alarm 1) The opening of the cabinet door takes a little longer/close the cabinet door in time. 2) Store warm or hot food in the cabinet/take it out. 3) The ambient temperature is too high/Avoid installing the machine near high-temperature equipment or exposing it to direct sunlight.
rL	Cabinet temperature low temperature alarm 1) The ambient temperature is too low/use the machine within the ambient temperature range of 5℃~32℃. 2) Frozen food is being thawed/When the thawing is completed, the fault code will disappear.
E1	Cabinet temperature sensor failure
E2	Evaporator sensor failure

If the fault code still appears in the temperature display window after completing the above inspection and calibration, please contact an authorized maintenance company immediately.

5.2 Fault without showing fault code

Fault phenomenon	Possible causes and elimination
The machine does not work	● Whether the power is connected (whether the socket and plug are normal); ● Whether there is a power outage or low voltage;
Poor cooling performance	● The ambient temperature is too high (above 32°C); ● Whether the temperature setting is appropriate; ● Whether put too much food or warm/hot food; ● The air outlet/return air outlet is blocked; ● The machine is in the process of defrosting. At this time, the temperature in the cabinet may temporarily increase, but it will not affect the food in the cabinet; ● Whether the cabinet door is not closed tightly or opened too frequently; ● Whether it is too close to the heat source or no ventilation distance is reserved on the back of the product; ● The condenser filter has not been cleaned for a long time;
Noise	● The ground is not flat and the feet are not on the ground; ● The normal working sound of the compressor, condenser, or internal fan motor; ● Foreign objects fall into the compressor room or the internal fan, hit the fan blade, etc.
Condensation water appears near the cabinet door	● The environmental humidity is too high; ● The door is not tightly closed.

Warning

R290 refrigerant is flammable and explosive. Before maintenance, check whether there is an open flame near the site, and set up a warning sign in a conspicuous location. Be sure to empty the refrigerant in the system before soldering.

Warning

The thermal insulation layer of the product is made of high-urethane foam. When the product is scrapped, please don't throw it away at random, please contact a professional waste recycling agency for disposal.

Warning

If the LED lamp is damaged, in order to avoid danger, it must be replaced by a professional staff from the manufacturer's maintenance department or similar department.

VI. Warranty

The company assumes limited liability under the warranty terms, excluding daily repairs, cleaning, necessary maintenance or repairs due to misuse and failure to install according to the instructions.

The repairs within the scope of the warranty shall be carried out by authorized dealers or repair institutions, and use genuine parts.

For more information about warranty and authorized repair organizations, please contact the dealer/supplier or the nearest repair office.

6.1 Situations not covered by warranty

- A. Normal maintenance, adjustment and cleaning;
- B. Without the written consent of the company, unauthorized transformation of the freezer or the use parts that not belong to the machines;
- C. After the purchase, due to the change of the installation location, the failure or damage caused by transportation, movement, and drop;
- D. Man-made negligence, or irresistible disasters such as fires and earthquakes, and faults& damage caused by abnormal voltages;
- E. Damage to components due to misuse, abuse and negligence;
- F. Failure to install, clean or repair the freezer in accordance with the technical requirements of this manual,resulting in damage or malfunction.
- G. Labor costs, travel time, travel expenses, and invalid warranty that are increased due to holidays, overtime, etc. are not covered by the warranty; the additional costs due to inconvenient on-site maintenance of the machine installation are not covered by the warranty.
- H. Other man-made damage not listed above.

For any changes in the subsequent versions of the content in this manual, no further notice!