

# **Refrigerator**

## **Operating instruction**

- ◆ Please read this instruction carefully before use
- ◆ The company reserves the right to interpret the manual
- ◆ Product technology or software upgrades are subject to change without prior notice

---

# Catalogue

1.Statement.....	1
2.Product appearance diagram.....	2
3.Product install and precautions .....	4
4.Control state.....	5
4.1 Key function.....	5
4.2 Temperature setting.....	6
4.3 Over temperature alarm.....	7
4.4 Open door alarm.....	7
4.5 Error code.....	7
5.Routine maintenance.....	9
6. Main performance indicators.....	10
7. Main performance indicators.....	11
7.1 Main technical parameters.....	11
7.2 Packing list.....	11
7.3 Electrical schematic diagram.....	12

---

## 1 STATEMENT

- ◆ Due to continuous improvement or update of the product, the product you get may not be completely consistent with the illustration in this manual, and the appearance of the product shall be subject to the real product.
- ◆ The contents of this manual are subject to change without prior notice

application scope of the product

Precautions for safe operation  
Safety warning label



Caution: failure to comply with the warning signs may result in casualties or loss of equipment and related property



### **safety tips**

Please read this manual carefully when using this machine for the first time !

Room temperature cabinets can only be operated by trained and authorized personnel.

Equipment maintenance can only be done by heli refrigeration or heli refrigeration authorized agents.

If the operator encounters the situation not mentioned in this manual, please contact heli refrigeration or the authorized agent of heli refrigeration products and ask for the correct treatment method.

Try to use the accessories provided by heli refrigeration, if the user wants to use other accessories, heli refrigeration will not be responsible for the adverse consequences. However, users can apply to heli refrigeration to verify whether the accessories meet the requirements of heli refrigeration.

Room temperature cabinets must be inspected and maintained at regular intervals.

It is forbidden to store living creatures, flowers or other items with strict temperature requirements that are not suitable for cold storage.

In order to ensure the normal operation and ventilation and heat dissipation of the machine, the back and left and right sides of the box should be at least 30 cm above the wall, and the air inlet and outlet should not be blocked by obstacles.

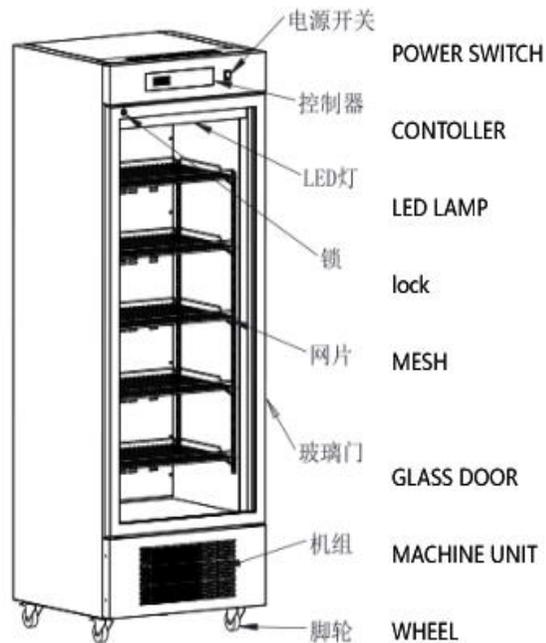
**Once the power supply is interrupted in use, please wait for 5 minutes before reconnecting to avoid damage to the compressor.**

In case of machine failure or power failure, the temperature in the normal temperature cabinet will rise. If it cannot be repaired within a short time, please take out the stored items and transfer them to other places that meet the storage temperature requirements to avoid damaging the items.

- always use protective equipment correctly (including clothing, gloves, goggles, etc.)
- always adopt good hygiene
- Everyone is responsible for his or her own safety

Users must carefully read through this manual, please be sure to refer to the documents when marking the above signs, understand the potential danger, can continue to operate! Please be sure to follow the instructions and provisions of this manual and take appropriate precautions to ensure that personnel and equipment are protected from possible injury.

## 2. Product appearance diagram



structure diagram

---

### 3. Product installation and precautions

Handling: handling should be lifted from the bottom, cant be more than 45 degrees, gently lift and put Must not grasp the door body or liner as a stressed part.

Please check the random attachments and materials according to the packing list.  
The product should be cleaned before use.

Operating environment requirements:

- For indoor use

- the mounting surface must be fixed, horizontal, non-combustible and able to withstand the working weight of the normal temperature cabinet

- it should be placed in a place away from direct sunlight and heat source, and the ambient temperature should not be higher than 32°C

- the requirements of more than 30cm left around the space for ventilation and heat dissipation

- also should not be placed in too cold to freeze the environment

- do not place in a wet or splashing place

- no electromagnetic interference around, electromagnetic interference will affect the normal operation of the control system, serious will be straight

Connect to damaged system. The surface must be fixed, horizontal, non-combustible and able to withstand the weight of a normal temperature cabinet

-  Note: when placed in the normal temperature cabinet.

- Adjust the foot so that the box is level.

-  Note: : the packing base at the bottom of the normal temperature cabinet must be removed before use.

-  Note: do not put items into the normal temperature cabinet just connected to the power supply. Leave the empty container running for a period of time (about 24 hours), and then put the refrigerated items into the box for storage.

Normal working condition of the machine

Ambient temperature: 10°C ~ 32°C

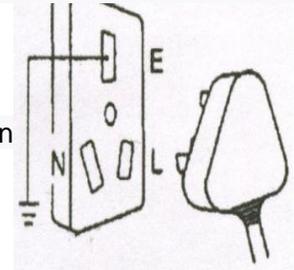
Relative humidity:  $\leq 80\%$

No strong vibration and corrosive gas around, electromagnetic interference

No direct sunlight and other cold and heat sources



Working system of normal temperature cabinet: intermittent operation



### safety precautions

Figure: N and E are not connected

Power supply voltage: the machine USES 220V/50HZ ac power supply. If the voltage is too low or too high, an appropriate automatic voltage regulator should be installed for use;

Must use a separate special socket and reliable grounding, do not arbitrarily lengthen the length of the power cord, if it is necessary to lengthen, be sure to use more than 1.5mm<sup>2</sup> copper conductor, and the wall connected with the power socket copper conductor section area must be more than 3mm<sup>2</sup>;

It is forbidden to put inflammable, explosive dangerous goods and highly corrosive acid, alkali and other articles in the normal temperature cabinet;

Keys should be kept properly to avoid accidents when children open the door to play;

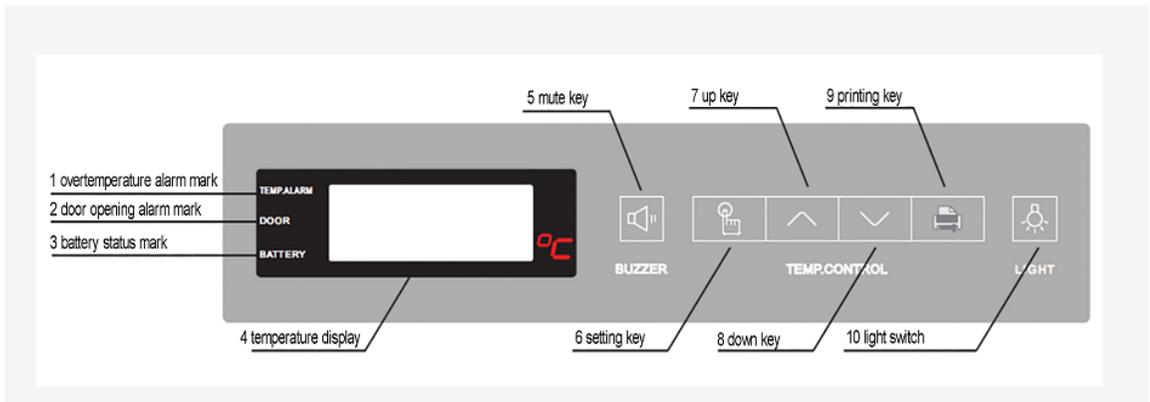
Do not connect the zero wire (N end) and ground wire (E end) on the socket together (figure), otherwise the shell of the normal temperature cabinet will be electrified and electric shock accident will occur;

Do not tie the power cord, do not press under furniture or heavy objects, do not close to compressor and other heat sources

## 4.Controller function and basic operation

### 4.1 button function

The temperature controller control panel is shown below:



1 overtemperature alarm mark 2 door opening alarm mark 3 battery status mark 4 cabinet temperature display 5 mute key 6 set key 7 up key 8 down key 9 print key 10 light on key

It is recommended not to adjust the set temperature at will during normal use. When the alarm sound prompt needs to be cancelled, you can press the mute button to cancel the sound prompt, but the alarm indicator light and alarm code will be displayed until the alarm state is cancelled. If there is special need to adjust, please call the after-sales service number or by professional maintenance personnel adjust. Adjust the setting temperature at will, which may cause high temperature (AH) or constant temperature (AL) alarm. At this time, please adjust the set value of high temperature and low temperature alarm (AH, AL) at the same time.

#### .4.2 temperature setting

The display screen of the normal temperature cabinet shows the current temperature value in the box under the condition of electrification. If the set temperature needs to be adjusted again, for example, the original set temperature is 4°C, and now it needs to be adjusted to 5°C (the set value is recommended), please follow the following steps:

##### 2 temperature setting

The display screen of the normal temperature cabinet shows the current temperature value in the box under the condition of electrification. If the set temperature needs to be adjusted again, for example, the original set temperature is 4°C, and now it needs to be adjusted to 5°C (the set value is recommended), please follow the following steps:

Series no.	Keys operation	Display
1		Display the temperature inside the refrigerator
2	Hold down the Settings key for 3 seconds	Display the initial set value of 4°C and blink
3	Hold up key 	Number increase
4	Hold down key 	Number reduce

5	Default setting temperature	The number is 5 °C
6	Hold down the Settings key for 3 seconds	Save the user Settings and display the temperature inside the refrigerator

#### 4.3 overtemperature alarm:

In order to ensure the safety of stored goods in the box, electronic temperature controller has alarm function. When the room temperature inside temperature is higher than 6 degrees or below 2 degrees and lasts 10 minutes (alarm delay, prevent to open the door to normal temperature, such as frequent alarm buzzer alarm, alarm characters on the screen at the same time and alternating current temperature display (note: high temperature alarm Hi, low temperature alarm Lo), press the mute key hum closed alarm icon to display (screen). When the temperature in the box is between the upper and lower limits of the alarm, the alarm disappears.

#### 4.4 door opening and alarm

When the opening time is more than 1 minute, the door of the control panel will open and the alarm sign will blink and the buzzer will beep.

#### 4.5 alarm code

Alarm code	fault description
E0	Failure of sensor 1 for temperature display
E1	Failure of sensor 1 for temperature display
E2	Cabinet temperature alarm sensor failure
E3	Temperature control sensor fault cabinet
E4	Fault of condenser sensor
Pd	Power state
Ac	High temperature alarm of condenser sensor
Lo	Cabinet temperature display sensor low temperature alarm
Hi	Cabinet temperature display sensor high temperature alarm

✘ the company reserves the right to update and improve the products.



Tip: if the user calls out the internal code when adjusting the thermostat, please wait for 1 minute, and then carry out the operation when the temperature in the cabinet is

---

displayed again, so as to avoid the failure of the normal temperature cabinet due to the change of control parameters.



In case of power failure or other faults, the normal cabinet will be temporarily stopped, and the temperature inside the normal cabinet will rise, and the temperature of the box may rise from 5°C to more than 15°C within one hour. If the electricity cannot be received within a short time, the stored goods should be taken out and put into other normal normal cabinets for storage, so as to avoid damage and loss of the preserved goods



Do not put items into the normal temperature cabinet that has just been connected to the power supply. Let the empty container run for a period of time

Store refrigerated items in containers.



When putting in the goods, if the goods have too much moisture or too dry will affect the change of humidity in the box, the goods had better be sealed and kept; Similarly, the humidity of the working environment of the normal temperature cabinet will also affect the change of humidity inside the cabinet, especially if the door is opened too much and the door body is not closed well.



The storage of goods should not exceed 1/3 of the box capacity each time. After reaching the set temperature and running normally for 24 hours, the goods with another 1/3 of the box capacity should be put into storage.



Please be careful not to block the air outlet and suction outlet when putting in the object.



Do not put items directly in the outlet or suction outlet of the normal temperature cabinet, otherwise it will affect the air circulation and refrigeration effect of the normal temperature cabinet



Do not try to open the door in the process of cooling, or it will cause the temperature to rise.



Due to the inertia of refrigeration, there may be some difference between the display temperature and the set temperature when the product reaches the set value and stops Different, this is normal phenomenon.



Note: children are not allowed to play games in the room temperature cabinet.



Do not change the setting temperature frequently within a short period of time, or the setting effect may not be achieved due to the large inertia of hot and cold; When putting in the goods, it is necessary to ensure that there is a certain air circulation space around the box, especially the temperature sensor inside the box (for collecting the temperature inside the box), otherwise it will affect the stability and accurate display control of the temperature inside the box!

---

## 5. Daily maintenance

During routine maintenance, in order to prevent electric shock or injury, be sure to cut off the power of the equipment before any repair or maintenance. Make sure that you do not inhale drugs or aerosols around the device during maintenance, which may endanger your health. Be sure to wear dry gloves to protect your hands during maintenance. Fingers may be cut on the edges or corners of the case without gloves.

### 5.1 clean the cabinet

The room temperature cabinet is cleaned once a month. Regular cleaning can make the thermostat maintain a new appearance;

Use a dry cloth to wipe off small amounts of dust from the cabinet shell and interior and all accessories. If the normal temperature cabinet is dirty, clean it with neutral detergent.

After cleaning, clean the detergent with a cloth soaked in water;

Do not pour water on the shell of the room temperature cabinet or keep it indoors, otherwise it may damage the electrical insulation and lead to failure.

In the rainy season, the surface of the glass door of normal temperature cabinet is prone to condensation of water vapor, and water will drip in serious cases. Please dry it with a dry cloth or open the door heating switch when appropriate. Will not affect normal use.

### 5.2 defrost

The room temperature cabinet is air-cooled and frost-free. There is no need to defrost. Under the condition of high humidity in summer, there may be condensation at the frame position of the normal cabinet, which is a normal phenomenon. It is suggested to dry it with a dry cloth.

### 5.3 maintenance and maintenance

Do not place heavy objects on the door or the top cover at room temperature, so as to avoid deformation of the door body or the top cover under compression.

Clean and maintain the normal temperature cabinet every once in a while.

Rub the inner and outer surfaces of the cabinet with a warm wet soft cloth.

When dirty dirty is serious, the neuter scour that can use catharsis tableware wipes, the soft cloth that reoccupy washes clean wipes clean water to be soiled.

Once the normal temperature cabinet is enabled, it is best to use it continuously.

## 6. After-sales service

Any product may fail. Please timely observe the operation of the normal temperature cabinet during use. If there is any abnormality, please check and deal with it according to the following table. If you can't change the situation, please inform our service center in time. We will serve you wholeheartedly to avoid any loss to you.

Problem	Causes and solutions.
Room temperature cabinet is not working	Is the power plug working? Is the power plug plugged in or loose? Is the power fuse disconnected? Is the supply voltage too low or too high?
Compressor not running	Is the temperature set correctly? Is the temperature in the box too low?
The temperature does not reach the set value	Is the door not tight or open too many times? Are there too many items to put in at one time? Is the ambient temperature too high? Is there too much frost in the cabinet?
The noise is big	Is the case placed on level ground? Does the cabinet touch the wall?
Glass door body surface condensation	Season of much rain wet, door body may condense dew, belong to normal phenomenon, wipe with dry cloth can.

The following are not failures:

- (1) compressor start, stop, switch parts will give out a slight crash sound.
- (2) after opening the door into the hot items, the control system appears high temperature alarm. Solution: put hot items into the normal temperature cabinet after they are cooled down naturally, and do not put too many items into the cabinet at one time. After the system runs steadily, the high temperature and alarm will be lifted automatically.
- (3) refrigerant flow in the pipeline issued a slight sound of water.

(4) in the rainy season, normal temperature cabinet door surface easy condensation of water vapor, the serious situation will appear dripping, please use a dry cloth at the appropriate time to dry or open the door heating switch. Will not affect normal use.

Please clean and disinfect the machine before notifying the maintenance engineer

Storage and transportation conditions: transport or use in the process shall not be violent vibration, collision, to prevent rain.

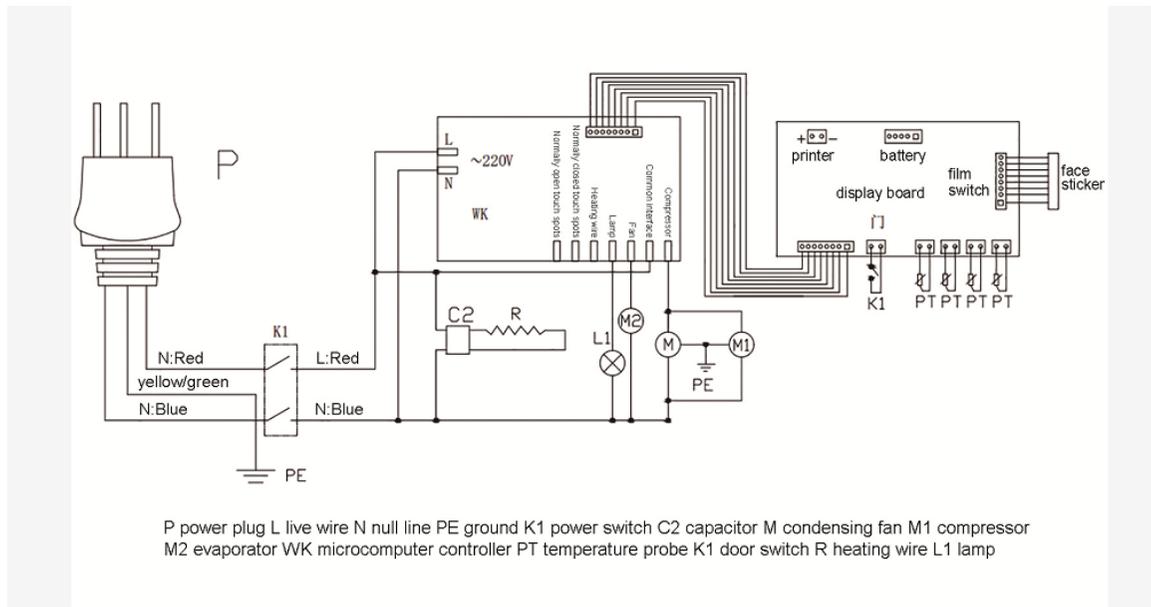
Storage and transportation environment temperature: -10°C ~ +55°C, relative humidity: 10% ~ 80%.

## 7 Main performance indicators

### 7.1 Main technical parameters

ITEM	CLIMATE TYPE	Set in the refrigerator Temperature range	Effective capacity	Rated voltage ~ frequency	Rrefrigerant	The input power (W)	Equipment safety classification	Outside size (DxWxH (mm))
HYC-L300 (HXC-L300)	N	4±1°C	300L	220/50~60 HZ	R134a	300	I	595*605*1940

## 7.2 Electrical schematic diagram



P power plug L live wire N null line PE ground K1 power switch C2 capacitor M condensate fan M1 compressor M2 evaporator fan WK microcomputer controller PT temperature probe K1 door switch R heating wire L1 lamp

### Quality Guarantee Card

Product name: -----

Product model:-----

Fuselage no. :-----

Quality control personnel:-----