Certificate of Quality

checker:

Manufacturer: Qingdao Haier Biomedical Co., Ltd.

Address: Haier Industrial Park, Economic Technology Development

Zone, Qingdao P.R. China

Web:www.haiermedical.com

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Dedicated code:

Haier



Pharmaceutical Refrigerator Operation Manual



Model: HYC-410

- Read the Operation Manual carefully before using your appliance.
- Keep the Operation Manual in a safe place.
- Appearance , color and layout of the door may vary.
- Translation of the original instruction.
- This product is only applicable for storage of pharmaceutical products or drugs. Not applicable for storage of blood or blood products including biological products, for example biological vaccine, agents for in vitro diagnosis and etc.

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Safety Precautions

Dear users:

Thanks for your choice of Haier pharmaceutical refrigerator, please make sure you have carefully read and observed the contents with following signs in the manual, for better understanding of this manual and better use of this product, so as to prevent personal injuries and refrigerator damage.

Safety labels



Overcurrent Portector













Symbol for "Consult instructions for use"



Symbol for "Date of manufacture"



The upper and lower limits of temperature shall be indicated adjacent to the upper and lower horizontal lines.



Symbol for "Manufacture"



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Netherlands

Safety precautions



Under all conditions marked with 1, It is necessary to consult the documentation, so as to clarify the nature of potential risks and know any countermeasures that must be taken.



Ignoring this warning may result in deatn or serious injury



Ignoring this warning may result in death or serious injury, and/or damage to the refrigerator and property



Actions or operations which are prohibited



Actions or operations which must be followed

- When there is a leak of flammable gas, shutoff the feed valve of the gas. Open windows for ventilation and exhaust. Do not plug in your refrigerator or unplug your refrigerator as spark in these processes can cause an explosion or fire.
- Only the professional technicians or after-sale service men are allowed to install this refrigerator. Otherwise it may result in an electric shock or fire. The replacement of any spare parts(battery ect.) shall be conduct by technicians approved by manufacturer.
- Place the refrigerator on solid and flat ground to avoid tipping the unit over to cause personal
- Only connect the refrigerator unit with a dedicated power outlet specified by the nameplate of the unit. This is to avoid fire or electric shock.

24

- If the supply voltage is lower than 198 V or higher than 242 V, an automatic voltage regulator of at least 4,000 W should be installed with the refrigerator.
- If the power cord needs to be lengthen, the cross section area of the extension line's conductor should be at least 2 mm² and the length of the extension cord should be limited to 3 m. This is to prevent electric fire or shock.
- The power cord of the unit is equipped with a 16 A three-prone power plug. Do not remove the ground pin of the power plug under any circumstances. Make sure the plug is securely plugged into the power outlet to prevent fire.
- The power socket must be equipped with a ground wire to prevent electric shock. If the socket fails to be grounded, the ground wire must be installed before the refrigerator is plugged in.
- The refrigerator shall not conduct outdoor service. Electrical leakage or shock may be caused if wet by rainwater.
- On not place the refrigerator in humid places or places where the unit may get splashed on by water. This is to avoid electric shock due to deterioration of insulation.
- In case the fire, do not pour water onto the refrigerator unit as a means to prevent electric shock or short circuit.
- On not place containers of water or heavy objects on the refrigerator. Falling objects may cause personal injury and overflown water may damage the insulation to cause electric shock and fire.
- Do not ground the refrigerator through gas pipes, water supply pipes, telephone lines or lighting conductors. These types of connections can cause electric shock.
- On not touch electric parts such as power plugs or switches with wet hands to prevent electric shock.
- When pulling the plug out of the power socket, hold the power plug instead of power cable. Pulling the cable can cause a damage and personal injury.
- Unplug the refrigerator unit if it malfunctions to avoid fire or personal injury.
- Dismantling, repairing and retrofitting a unit should only be performed by a professional to avoid personal injury.
- Disconnect the refrigerator when repairs or maintenance are performed on the refrigerator to prevent electric shock or personal injuries.
- Do not inhale airborne particles inside and near the refrigerator during routine maintenance.
 This is to avoid health hazard.
- To avoid any potential danger to human health or environment, the refrigerator should be used in safe regions to store toxic, harmful or radioactive particles.
- If the refrigerator is to be decommissioned, unplug the power cord to avoid electric shock, current leakage, or fire caused by aged power lines.
- If the refrigerator is left unused in area where supervision is unavailable for a long time, make sure children are not near the unit and the door cannot be completely closed and locked.
- End of life disposal of a unit should only be performed by a professional. Remove the door to avoid accidents such as suffocation.
- On not store flammable, explosive or volatile articles inside the refrigerator and do not use flammable sprays nearby. This is to avoid an explosion or a fire.

Packing List

Model	HYC-410
specification	1
confirmation	1
warranty card	1
Lock installation sheet	1
Performance Test Repor	1
Factory inspection report	1
plastic bag	3
key	2
shelf	6
power line	1
lock	1
ST4.2 bolt	2
M4 bolt	1

- O not store corrosive articles such acid or alkali in the refrigerator. These chemicals can damage internal components or electrical parts.
- On not place packaging plastic bags within the reach of children to prevent suffocation accidents.
- On not climb to the top of the refrigerator or place plastic bags on top of the refrigerator. This is to prevent tip over of the refrigerator, which can cause personal injury.
- On not use any metal objects such as iron nails or wires into holes, gaps or vents for internal air circulation. This is to prevent personal injury due to contact of articles behind the holes.
- Always check the settings in the controller after restarting a unit from a power outage or shut off. Change of settings may cause damage to the products stored.
- If the power is shut off, let the unit sit for 5 minutes before it is powered up again to avoid damaging the compressor or the system.
- Wear gloves when performing maintenance to prevent personal injury as a result of sharp edges or corners.
- Hold the knob when closing the door to prevent finger pinching.
- The angle of inclination shall not be greater than 45° when handling the refrigerator.
- Be aware of the danger of tripping when working with the refrigerator to avoid managing the unit or personal injury.
- O Do not use the door knob to prevent refrigerator damage or personal injury.
- On not use electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer.
- O not damage the refrigeration line.
- Position the refrigerator to make sure the power plug is accessible.
- The appliance must be placed on a solid and flat surface, or excessive vibration and noise may be produced when the appliance in operation.
- The appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capacibilities 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 shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- Disposal of scrapped refrigerator shall be conducted by the relevant persons. This equipment contains reusable materials and shall be disposed of properly not simply discarded with unclassified household waste. Appliances that are no longer to be used must be disposed of in aprofessional and appropriate manner in accordance with current local laws and regulations.
- (1) Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.
- If your cabinet is to be discard, you must remove the door and leave the shelves in place. This will reduce the posibility of danger to children. And the flammable foaming needs to be disposed by professional persons.
- HFO-1233zde foaming materials are flammable, need professional processing.

Application guidelines

- The battery in the refrigerator may be low after the refrigerator has been in storage for a long time. Turn on the battery charge switch when the unit is powered up to allow the battery to be recharged. The battery will be in full capacity after about a week's charging.
- · Before loading the refrigerators, make sure the unit is at set temperature. Do not load in more than 1/3 of the storage volume to avoid thermally overloading the unit.
- The display on the panel shows the sensor temperature located in the refrigerator. It is not necessary the same as the temperature in the center of the refrigerator. The cabinet temperature will gradually reach an equilibrium state.
- · Only clean the unit with light soapy water. Never use brushes, acids, gasoline, soap powders, polishing powders or hot water to clean refrigerators as these materials may damage the interior painting and surface, parts and components. Never wide plastic parts with volatile solvents such as gasoline.
- If the unit is to be stored for a long period of time, turn off the power switch and the battery charging switch.
- To reduce the possibility of temperature fluctuation in the refrigerator, please attempt to cut down the time to open to the door to remove and load products.
- · If the door is opened, the temperature of the refrigerator will warm up somewhat. That is normal. The temperature will recover to a stable condition in a short time.
- The refrigerator is designed to operate at a condition of 16 °C to 32 °C and humidity less than 85%RH . Small amount of condensation can occur on the surface of the unit if the actual condition is outside of this range. The storage temperature of the unit, however, is not impacted. To reduce the condensation, please improve the ventilation and drop the ambient temperature if possible.
- Only professional people should perform maintenance work.



Meaning of crossed –out wheeled dustbin:

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact you local government for information regarding the collection systems available. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

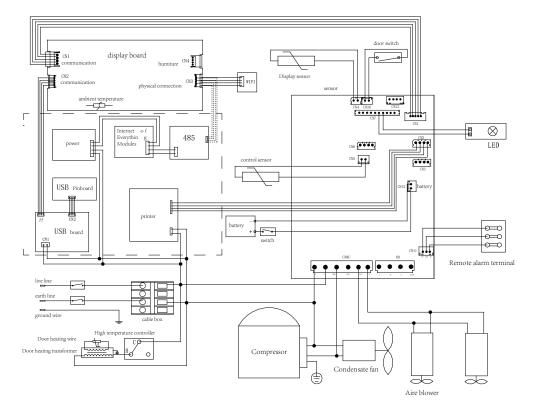
Specification&Packing List

Specification

Name	Pharmacoutical Patrigorotor	
7.2	Pharmaceutical Refrigerator	
Model	HYC-410	
Exterior Dimensions (W×D×H) (mm)	665×710×1965	
Interior Dimensions (W×D×H) (mm)	530×590×1380	
Effective Volume	410L	
Door	Glass door	
Insulation	CFC-Free foamed-in-place urethane	
Compressor	Fixed Frequency Compressor	
Shelves	6	
Load	≤ 30kg	
Refrigerating Method	-	
Exterior / Interior	Cold-rolled steel sheet with powder coated /HIPS plate	
Condenser/Evaporater	Wire and tube Condenser / Finned Evaporator	
Temperature Control	Microprocessor controlled	
Interior light	LED 1.5W	
Net Weight	116kg	
Voltage	220-240V~/50Hz	
Rated Power/Current	350W/2.0A	
Refrigerant	R600a	
power consumption	5.5 kW·h/24h	
Alarm system	high /low temperature,High ambient temperature, Power failure, Communication failure,Sensor fault,Low battery,Door ajar.	
Battery duration for alarm system	24 h (when the battery is fully charged)	
Rechargeable Battery	DC 3.6V rechargeable battery	

Circuit Diagram

Circuit diagram(HYC-410)



Product Feature

The product is applicable to pharmacies, pharmaceutical factories, quarantine stations, health centers and hospitals, used to store pharmaceuticals, medicine and other related products which need a storage environment of $2\sim8\%$.

1.Temperature Control

The unit is equipped with a computer control, digital display of temperature of 0.1 °C accuracy and a temperature range of 2 °C to 8 °C .

2.Safety System

- Multi-fault alarm (high and low temperature alarm, high ring temperature alarm, communication failure alarm, low battery alarm, power failure alarm, sensor error alarm and door ajar alarm).
- Three alarm methods(Audible buzzer alarm, flashing indicator alarm and remote alarm).
- All independent components are safely grounded.
- 3.Refrigeration System
- Refrigeration system is optimized with high quality compressors and other components for a high efficiency performance.
- 4. User-friendly Design
- · User-friendly design, computer control, smart and carefree, adjustment not required.
- · High performance thermal insulation.
- Electric heated glass door with multiple anti-condensation technologies.
- · Automatic removal of condensate water.

Note: Technical information might be somewhat different on your refrigerator than published due to continuous improvement.

Product Installation

Installation environment

- Ambient temperature: 16 $^\circ$ C to 32 $^\circ$ C , the range of 18 $^\circ$ C to 25 $^\circ$ C is optimal. Air conditioning system is required as necessary.
- · Ambient humidity: below 85%RH.
- · Avoid excessive dust.
- · Avoid mechanical vibration.
- The refrigerator shall operate at an altitude lower than 2000m.
- Input voltage: no greater than ±10% of rated voltage.
- · Indoor use.



- As the refrigerator is sensitive to the environmental temperature. The heating box can not operate normally if it is installed in an environment other than the above.
 Please use it after improving the environment.
- It is prohibited to install the refrigerator in the open air environment. When the refrigerator gets wet in the rainwater, leakage of electricity or electric shock accidents may possibly be caused.

Installation site

The installation site shall meet following requirements for normal operation and best performance of refrigerator:

- Do not install the refrigerator in a narrow and confined space as heat may be trapped to increase ambient temperature. Additionally, the unit should not be installed in a space where the entry door way is low to prevent an easy maneuver of the unit for maintenance and operation.
- The floor for the installation site should be solid and flat. It should also be well ventilated and free from direct sunshine.
- The power outlet for the refrigerator must be a dedicated power outlet. The power plug must be plugged in to the outlet securely.
- Do not twist or jam the power cord.
- If the power cord needs to be extended, the cross section area of the conductor in the extended line should be no less than 2 squared millimeters and no longer than 3 meter.
- Inspect the operating voltage range before operation. If the voltage supply is unstable, install a voltage stabilizer of 4000 W or greater to ensure the supply voltage is within 10% of the rated voltage supply.
- The refrigerator must be grounded reliably.
- Check the integrity of the socket ground before power up. If it is not grounded appropriately, repair the wiring before installing the unit.
- Do not ground the refrigerator through gas lines, water lines, telephone lines, or lighting rods as these devices may cause electric shock and danger.

FAQ



If you have any questions about the operation of the refrigerator, please refer to the table frequent asked questions as follows. Call Haier technical support if you still have questions. Do not attempt to maintain or dismantle the unit by yourselves.

Fault	Troubleshooting	
	Inspect the power supply to make sure it meets the requirement.	
The refrigerator	Inspect the connection between the power plug and the socket.	
does not work	Check the power cord for any obvious damage.	
	Whether the voltage is too low	
	The unit is loaded with too much warm sample and product.	
-	There is a lack of space between stored samples.	
The refrigeration effect is weak and temperature	There might be a direct sunlight or other heat radiation energy on the refrigerator.	
exceeds upper limit	The door is opened too frequently.	
mint.	Ambient temperature is too high.	
	Air duct is blocked.	
	Check the installation of the unit to make sure the unit does sit on a solid floor without vibration.	
Unit seems to emit too much	Part of the refrigerator leans against a wall.	
noise.	As a reference, the published sound data is obtained at specific laboratory condition. It is normal that the actual sound level in the field differs due to subtle installation and operation conditions.	
Alarm light flashes and alarm buzzer sounds	Warm products have been placed into the unit recently and the refrigerator has not stabilized yet at $2^{\circ}\!$	
	The door is not closed properly.	
	The unit lost power recently and it is in the process of cooling down.	
	Ambient temperature might exceed the designed range.	

Rechargeable battery recycling

The refrigerator has a built-in rechargeable battery. The battery is recyclable; when its service life expires, please ask a local relevant battery recycling organization for check or discard it properly. a.Battery location

The built-in battery of the refrigerator-freezer is used for power failure alarm and located in the electrical compartment.et.



- There are high-voltage electrical components in the electrical compartment.
- To avoid electric shock, the cover of the electrical cabinet must be opened by a qualified technician.

b.Battery removal

- 1) Unplug the unit from the power outlet.
- 2) Remove the screws on the cover with a screw driver.
- 3) Unplug the battery's connecting plugs.
- 4) Remove the battery's holding clip and remove the battery.
- 5) Recycle or dispose of the used battery as required.

Prohibition

When replacing the battery, make sure that brown wire is connected to the battery's positive pole and blue wire to the battery's negative pole. Do not misconnect; otherwise the charging circuit of computer board would be burned out easily and thus the battery cannot be charged.

MWarning

- The power plug and outlet should be located in a place where they can be accessed easily and immediately in case of an emergency. Air vents must be free of obstruction.
- The power plug can be accessed after installation to ensure the power line can be pulled out in a timely manner in emergency cases. The air vent shall free from barriers.

Preparation before usage

1. Remove all packaging materials.



- To carry the refrigerator before unpacking, you can use a forklift or a cargo clamping truck If you use a forklift, you should insert its fork from the bottom of the wooden base on the front or back of the refrigerator before the refrigerator is moved.
- If you use a cargo clamping truck, you should pick it up from the bottom of the wooden base, and you can only clamp the side of the refrigerator.
- To handle the refrigerator after unpacking, just push it with the help of its casters.
- Do not tilt the refrigerator more than 45° during handling.
- 2. Inspect standard accessories shipped with the unit

Inspect the accessories against packing list. Should there be any discrepancy, contact the after-sale department.

3. Installation

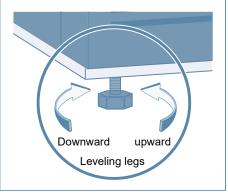
Leave a minimum space of 10 cm around the refrigerator for ventilation and heat dissipation(Pic.2).

4. Adjust the leveling leg

Rotate the leveling legs with a wrench in clockwise to extend them out and secure them onto the ground. This is to make sure the refrigerator does not move during operation. (Pic.3).



Pic.2



Pic.3

Standing

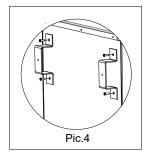
Do not immediately power up the refrigerator after it is installed. Let the unit stand still for 24 hours and then power it up to ensure the unit works properly.

6. Installation of Shelves and Label strip

After mounting the shelf and label strip, place them on the liner plate slot at the appropriate distance.

7.Back Bracket

Remove four M5 bolts from the back of cabinet, then fix the back bracket for rear wall distance with the removed bolts.(See Pic.4)

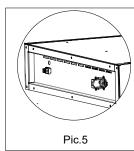


8. Power line bracket installation

Use two M3.5 screws to fix the power line brackets to the refrigerator. (See Pic.5)



For the power supply cable with loose prevention hook it is not configured clamp stand.



Cleaning and Maintenance

Component Cleaning



- To avoid electric shock or personnel injuries, make sure to power off the refrigerator before any repair work or maintenance is performed.
- Make sure no drug or aerosol around the refrigerator is inhaled during maintenance, otherwise your health will be threatened.

Refrigerator cleaning

- The refrigerator should be cleaned once a month to keep the appearance new and reduce the chance for gem formation.
- Use a damp cloth to clean off dust on the refrigerator. If necessary, use light detergent water to wipe off the unit if necessary. Then use a dry cloth to wipe it again.
- Do not dump water directly onto the interior of the unit to avoid damage to electrical systems.
- Compressor and other mechanical parts are hermetically sealed. They don't need lubrication.

Lamp replacement

HYC-410 is equipped with a LED lamp. To replace the lamp, please contact the service department.

Deactivate the cooler

If the refrigerator needs to be out of use for a long time, the power should be cut off.

Open the refrigerator door and take out the inner shelf.

Give the cooler a thorough cleaning.

Carry on cleaning to put aside rack.

After the refrigerators and shelves dry, put the shelves back into the refrigerators.

Close the door and cover the plastic bag for sealing.

Initial Power-on

A Caution

- If alarm condition is not corrected within 30 minutes, buzzer and remote control contact will restart.
- If there is a power outage, a fully charged emergency battery can keep the alarm function in working condition for 24h.
- Once the unit starts up and restarts after a long time in storage, charge the battery for to keep the alarm function for 48h. Even if the battery discharges, remote alarm contact shall keep in working condition.
- Press "Alarm Test" key. For each press, the buzzer goes off thrice with frequency as 1Hz continuously. Meanwhile, the alarm indicator light flashes repeatedly, when a fault occurs, each fault code will be displayed in turn. If the remote hardware is not in the alarm state, the remote alarm relay will disconnect for 3 seconds and then pull off, and then decide to act according to whether the alarm is needed.

Automatic Alarm Recovery

This series of refrigerator is has an automatic alarm recovery feature.

- When the system is in the alarm mode, you can press the "Silence" on the display panel to cancel the alarm. (The remote alarm will not be stopped.)
- If the alarm condition still exists, the buzzer will return to the alarm mode again automatically 30 minutes later

Remote Alarm Terminals

HYC-410 has remote alarm terminals:

- Remote alarm terminals are installed on the refrigerator and the alarm signal behind the compartment is output by the terminals. The bearing capacity of the terminals is DC 30V, 2A.
- · Terminal output:

Remote alarm terminals include NO, NC and COM. The user can choose "NO" or "NC" if needed. It is recommended that the length of remote alarm cable should not exceed 3 meters.

• HYC-410 optional RS232 or 485 network interface:

The interface terminal is on the electric control case cover at the back of the refrigerator.

After the connection, the temperature data can be transmitted to the user monitoring software.



Follow the flow chart below to start the refrigerator:

While the refrigerator is empty, connect the power line to the appropriate dedicated socket and make sure the power supply in the socket matches the required voltage and frequency.

After the power is switched on, turn on the battery charging switch. The audible alarm is usually triggered. Press the buzzer to stop the alarm. The audible alarm continues to operate until the temperature of the sensor reaches $5^{\circ}\text{C} \pm 3^{\circ}\text{C}$.

The refrigerator has been preset to operate at $2\sim 8^{\circ}$ C in the factory and it is not required to set temperature.

It usually takes several hours for the refrigerator temperature to reach a stable condition. When the temperature becomes stable, inspect the actual temperature to make sure it matches the set point.

Turn on the light switch and ensure the light inside the freezer operates properly.

When the refrigerator passes all the functional inspections, load in products in batches.



- This unit should be managed a dedicated professional person. Operating conditions should be checked and recorded using appropriate methods. When the refrigerator temperature is out of specification, take proper actions to protect the stored samples. No products should be stored in the unit unless the unit operates without issues.
- Due to the refrigeration effect, the displayed temperature may be somewhat different from actual temperature and humidity. This is a normal process.
- Do not place any article in the space between liner bottom and underbed shelf of the refrigerator to avoid blocking of air duct which may affect homogeneity of temperature inside.



- Warm products should only be loaded into the units in batches to reduce the load to the cooling system. Overloading the system can cause the refrigerator temperature to rise and the compressor to work under undesirable stress, which can shorten the life of the system.
- Do not damage the refrigeration lines.
- Do not use an electrical apparatus in the refrigerator without proper approval.

Overcurrent Protection Circuit Breaker Instruction

- Installing Location: Install the Breaker on the back of cabinet. There is a special warning label.
- Operating Principle: It's a device that trips like a switch and opens the circuit when over loaded. This will protect the freezer's entire circuit. To restart the unit, the user needs to press down the switch and the unit will power on.

Operation after Power Outage

The control parameters are stored in the control system in the refrigerator even there is a power outage. When the power recovers after the outage, the refrigerator continues to operate in accordance to the set parameters before the power outage.



- •If the unit is shut off, allow a 5 minutes hiatus before powering it up again.
- •If the unit is to be shut down for a long time, be sure to turn off the power switch, and the battery switch. Unplug the unit from the power outlet. This is to a hazardous condition due to aging power lines.
- •If the refrigerator is decommissioned and left unattended, make sure children cannot get close to the refrigerator and the door cannot be closed completely.

Alarm

Alarm Function

The refrigerator has the alarm function in the following table, and also has the self-diagnosis function.

iunction.			
Alarm Type	Code	Paraphrase	Alarm mode
high temperature	E00	Temperature sensors exceed limits	Beep + alarm light blinking - remote
low temperature	E01	Temperature sensors exceed limits	Beep + alarm light blinking remote
High ambient temperature	E09	Ambient temperature exceed limits	The alarm light is always or
Power failure	E02	Main power supply disconnected or malfunctioning Alarm light flat power light flat beep + screen a temperature + remote	
Communication failure	E03	The display board and the power board could not send or receive data for 5 consecutive times	Beep + alarm light flashing code + remote
	E16	When the requested temperature data from the USB module is not received for 1min	The alarm light is always or
Sensor fault	E04	Control sensor failure (open circuit or short circuit)	Alarm light blinking + buzzing + screen alternating temperature + code + remote
	E07	Display sensor fault (open circuit or short circuit)	Alarm light blinking + buzzing + screen alternating temperature + code + remote
	E08	Ambient temperature sensor failure	The alarm light is always or
Low battery	E05	Battery voltage <2.0V	The alarm light is always or
Door opening E06 Open for mor		Open for more than 2 minutes	Alarm light blinking + buzzing + screen alternatin temperature + code + remote

USB Function

· Functions of USB interface

The computer has a USB function. Test data can be exported via the USB port. The computer can automatically collect and store the test data within the recent 10 years. It collects data every other 6 minutes and stores them automatically. The latest data will automatically replace the earliest data when the data storage is full. With a USB port plugged in, the computer will automatically identify it and start to export data to the USB port. In the data exporting process, if you press "Lower", the screen will blink "USb", which indicates the data are now exporting and not finished yet. After blinking 5s, it exits and displays the actual temperature in the case. If the displays "ALL" stably, the data export is finished. It exits 5s later can displays the actual temperature in the case. The USB port can be removed at this point. The exported data are in the following formats:

Date	Time	Inner Temp	Setting Temp
20191108	11:21	4.1	4
20191108	11:27	4.1	4
20191108	11:33	4.1	4

• Time setting of USB interface data recording (time system current setting):

Press the "Lower" for 10s and the display area of inner temperature shows "1P" stably. Press the "Upper "and "Lower" to switch to 2P(month),3P(day),4P(hour),5P(minute),6P(second). To set the year,press the "Set" on the 1P screen,the display area flashes the year.Press the "Upper" or "Lower" to select the year, and the display cycles from 15 to 99,If 2019 is set, select 19, press the "Set" to save confirmation and automatically return to 1P.Press the alarm button or no operation in 10 seconds, it will return to the box temperature display.



Please checking the time before use, if the time is not right, follow the upper method to adjust the time. Wait for one minute to download the datas after adjustment.

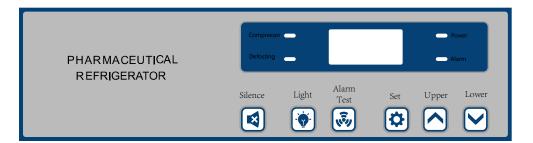
Component Names • Control Panel

Component Names

• HYC-410



Control Panel



Application method

Temperature display



The displayed temperatures indicate upper and lower temperatures of the refrigerator perceived by the sensor in glycerin bottle. It is not always of 5 $\,^{\circ}$ C . Temperature sensor indicates average temperature inside the refrigerator.

TEMP. SET

If you want to reset the temperature, for example, 5° C is set originally and you want to change the temperature to 5.5° C, please operate according to the following steps:

TEMP. SET

	Key Operation	Display
1		The temperature in the refrigerator displays.
2	Press "Set" for 5s at the same time.	TS
3	Click "Set"	The current parameter value flashes.
4	Adjust the parameter value by pressing the "Upper" and "Lower" key,pressing the "Set" key to save.	The temperature in the refrigerator displays.

Defrost Cycle

Forced defrost cycle

When the accumulative startup time of the compressor reaches a certain value (8 hours by default), the equipment will start the forced defrost cycle. Once the frost is thawed, the refrigerator will resume normal operation. The temperature in the box may rise during the defrosting cycle.