

Haier

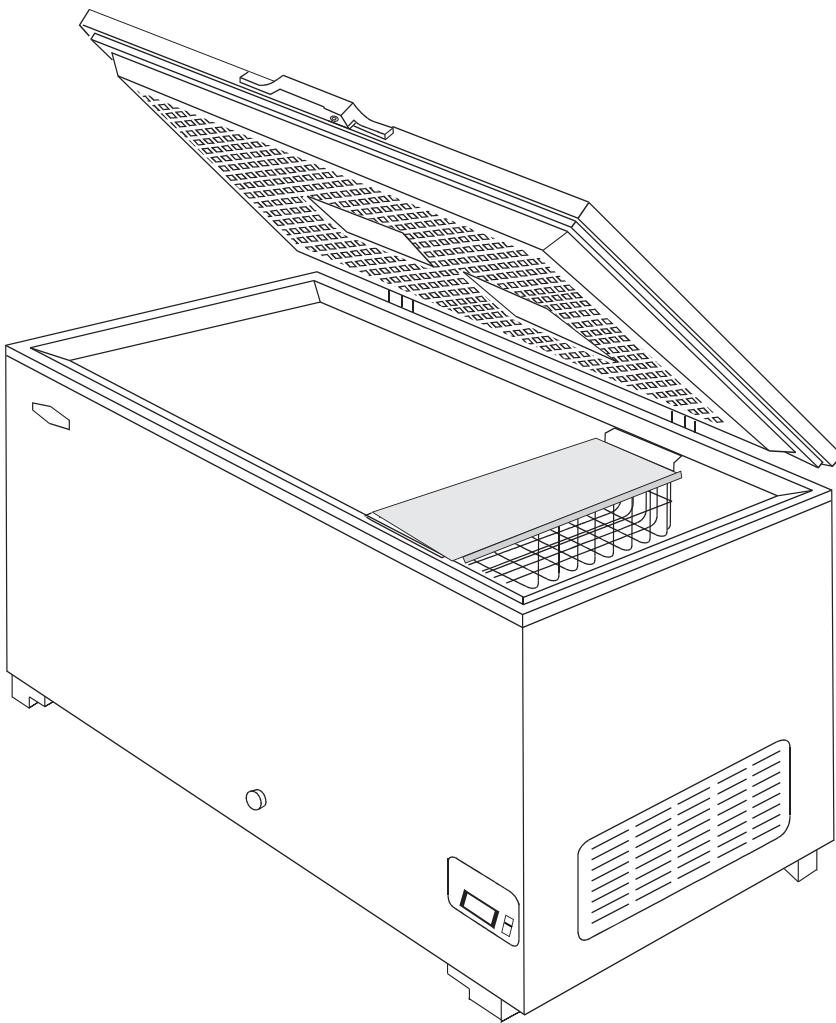
Vaccine/Water-pack Freezer (Deep Freezer)

Operation Manual

Model:

HBD-116

HBD-286



- 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.
- This freezer is designed for storage of vaccines and water-pack frozen.
- Use voltage stabilizer provided for the DEEP FREEZER

EC Declaration of Conformity

according to the Machinery Directive 2006/42/EC

For the following equipment :

Product : Vaccine/Water-pack Freezer(Deep Freezer)

Type Designation/Trademark: HBD-116 | Haier
HBD-286

Manufactures Name : Haier Medical and Laboratory Products Co.,Ltd.

Manufactures Address : Haier Industrial Park, Economic Technology
Development Zone. Qingdao 266510.P.R.China

Refer to in this declaration confirms with the following directive(s)/standards:

2006/42/EC, EN60335-1, EN60335-2-89 EN62233

Haier quality, it merits your trust from beginning to end.

This series of products are special deep freezers designed for freezing vaccine or freezing cold accumulator. Under steady operation, the inner temperature can be kept at -15°C to -25°C .

Authority Certification

- Certification Authority of World Health Organization (PQS Certification)
- The whole series of products have CE Certification

Safety system

- Multi-fault alarms (high and low temperature alarm, power failure alarm and sensor fault alarm)
- Two alarm methods (buzzing alarm, flashing alarm)
- Wide range voltage design, the same stable operation within the voltage scope of $\pm 20\%$
- Safe grounding of all individual components

Refrigeration system

- Refrigeration system with deep optimization and better refrigeration performance
- Major components of high performance brand such as compressor and fan with quality assurance
- Copper refrigeration pipe line with sound heat transfer performance, not easy to be rusted

User-friendly design

- Improved assisted performance of cold accumulation ice raft
- Design of wide ambient temperature range: Outstanding performance under ambient temperature range of $5^{\circ}\text{C} \sim 45^{\circ}\text{C}$
- Humanity design such as drainage pipe line, safe lock, etc.

We apologize that the Haier vaccine freezer provided for you may be a little different from the figure in the manual due to product improvement.

The manual may be subject to changes without further notice.

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Safety Precautions

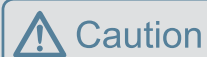
Dear users:

Hello! Thanks for your choice of Haier vaccine freezer; 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 freezer damage.



Warning

Ignoring this warning may result in death or serious injury



Caution

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























Warning

-  In case of flammable gas leakage such as coal gas, shut off the valve of leaked gas, open windows for ventilation and exhaust; do not plug in or pull out the power plug of freezer to prevent explosion and fire.
-  The freezer shall only be installed by qualified technical staff or after-sale maintenance staff. Otherwise it may cause electric shock or fire.
-  Place the freezer on solid and flat ground in a stable manner. The freezer will be tipped over or personal injuries will be caused if the freezer is placed on improper ground or place.
-  Apply the dedicated power supply marked on the nameplate of freezer to prevent fire or electric shock.
-  This product shall be equipped with voltage regulator if used in areas with unstable voltage.
-  If the power line needs to be extended, the extended line shall be no smaller than 2 mm² in sectional area and no longer than 3 m in length. Otherwise, fire or electric shock may be caused.
-  Do not remove or dismantle the grounding pin of power line in any case. Make sure the power plug is securely and reliably plugged into the socket to prevent fire.
-  Apply socket with ground wire to prevent electric shock. If the socket fails to be grounded, ground wires must be installed by technician.
-  The freezer shall not conduct outdoor service. Electric leakage or shock may be caused if the freezer gets wet by rainwater.
-  Do not place the freezer in humid places or places where the freezer may suffer splashing water. To prevent electric leakage or shock due to deterioration of insulation.
-  Do not pour water on the freezer to prevent electric shock or short circuit.

-  Do not place containers with water or heavy stuffs on the freezer. Personal injuries may be caused by falling articles and electrical leakage or shock may be caused by out flowed water due to deterioration of insulation.
-  Do not ground the freezer through gas pipes, water supply pipes, telephone lines or lightning conductors. As electric shock or other dangers may be caused.
-  Do not touch electrical parts such as power plug or switches with wet hands to prevent electric shock.
-  Hold the power plug rather than the wire when pulling the plug from the socket. As electric shock or fire due to short circuit may be caused.
-  Pull out the power plug when the freezer is under abnormal performance. As electric shock or fire may be caused.
-  Users are not allowed to dismantle, repair or refit the freezer by themselves. As fire or personal injuries may be caused due to improper operation.
-  Disconnect the freezer when repairs or maintenance are performed on the freezer to prevent electric shock or personal injuries.
-  Make sure medicines or airborne particles inside or around the freezer will be not be inhaled during maintenance as health hazard may be caused.
-  The freezer shall be used in safe regions when toxic, harmful or radioactive articles are stored inside. As improper use may pose danger to human health or environment.
-  Pull out the power plug if the freezer has been out of service for long time to prevent electric shock, leakage or fire caused by aging power lines.
-  If the freezer is left unused in areas where supervision is unavailable for a long time, make sure children will not get close to the freezer and the door can not be completely closed.
-  End-of-life disposal shall be performed by competent staffs. Remove the door to prevent accidents such as suffocation.
-  Do not store inflammable, explosive or volatile articles inside the freezer and do not use flammable sprays as explosion or fire may be caused.
-  Do not store corrosive articles such as acid or alkali in the freezer. To prevent damage to internal components or electrical parts.
-  Do not place packaging plastic bags within the reach of children to prevent suffocation accidents.
- Do not climb on or place articles on the freezer as personal injuries or freezer damage may be caused due to turnover of freezer.
- Do not plug metal articles such as iron nails or wires into the holes and gaps or vents for internal air circulation, to prevent electric shock or personal injuries due to contact of articles above with moving parts.

 Caution

-  Check freezer settings when restarting the freezer after power outage or the power is shut off. Changes of settings may damage the articles stored.
-  The freezer shall be reconnected after more than 5 minutes once it is shut off, to prevent damage to compressor or system.
-  Wear gloves when performing maintenance to prevent personal injuries due to 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 freezer.
-  Be careful not to be tripped up by the freezer during handling, to prevent freezer damage or personal injuries.
-  Do not lift or handle equipment with door knob to prevent freezer damage or personal injuries.
-  Keep the freezer free from obstacles and well ventilated.
-  Do not damage refrigerating loop.
-  Do not use electric appliances other than types suggested by manufacturer in the storage room of freezer.
-  The power plug must be accessed after installation of freezer.
-  Do not use mechanical tools or other methods without manufacturer's permission to accelerate defrosting.
-  For the series of products, in order to ensure the stability of inner temperature and thermal insulation time, blue ice rafts are equipped both at the bottom of and top the refrigerator. When using this series of freezers, use ice raft correctly according to the operational method stuck on the door closure.
-  The appliance must be positioned so that the 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 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 shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
-  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.
-  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 possibility of danger to children. And the flammable foaming needs to be disposed by professional persons.
-  CP/IP foaming materials are flammable, need professional processing.

Precautions for Use

- If the freezer has been out-of-service for a long time and the battery of freezer controller has run out, the power failure alarm will not work. After the freezer is powered on, the battery of controller will charge automatically. After continuous operation for 24 h, the freezer will be fully charged then. Once the battery is fully charged, the power failure alarm can continuously operate for 24 h.
- Make sure the temperature inside the freezer has reached the set value and put articles in the freezer by batch. Volumes accounted by articles shall not be greater than 1/3 of refrigerator to prevent rise of temperature.
- The temperature display value of temperature display panel refers to the temperature value at the temperature sensing probe inside the product. Though the temperature displayed is different from the actual one at the center of freezer, it will approach to the real temperature gradually.
- Clean the freezer with neutral detergent diluted. Brushes, acids, gasoline, soap powders, polishing powders or hot water are prohibited to clean freezer as these materials may damage the painting surface and plastic & rubber components and parts. Never wipe the plastic & rubber components and parts with volatile solvent such as gasoline.
- Reduce the time of keeping door open when storing or taking food each time, to prevent great fluctuation to the temperature and humidity inside the freezer.
- The refrigerator will see a sharp temperature increase in a short time when the door is opened, which is normal, and the temperature will resume gradually after the door is closed.
- The product shall operate with ambient temperature as 5°C~45°C and humidity less than 90%; condensation will occur on the cabinet in high temperature and high humidity condition, which is normal and will not affect the storage temperature inside the refrigerator; in the event of condensation, please improve ventilation conditions as soon as possible and dry up with clean cloth.



Meaning of crossed –out wheeled dustbin:

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact your 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. When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposals at least free of charge.

Installation environment

- Ambient temperature: 5 °C ~ 45 °C.
- Ambient humidity: 15% ~ 90%.
- Avoid excessive dust.
- Avoid mechanical swing or vibration.
- Rated power supply: 220V ~ 240V/50 Hz.

Caution

- As it is sensitive to ambient temperature. Normal operation will be impossible for freezer if it is installed in environments other than those described above. Start operation after the environment is improved.
- It is prohibited to install the freezer outdoor. Electric leakage or shock may be caused if the freezer gets wet by rainwater.

Installation site

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

- The freezer can only be installed separately and can not be installed in a recess or be embedded. Do not install the freezer in a narrow and confined space and the door of the installation space may not be smaller or lower than the freezer, to ensure smooth entry and exit of the freezer as well as to prevent damage to the stored articles due to not timely repair of freezer as the installation site is not easy to be accessed.
- The ground at the installation site shall be solid and flat.
- It is well ventilated and free from direct sunshine.
- This product shall be equipped with voltage regulator if used in areas with unstable voltage.
- Do not twist or compress the power line.
- If the power line needs to be extended, the extended line shall be no smaller than 3 mm² in sectional area and no longer than 3 m.
- The freezer shall be grounded in a reliable manner. Do not dismantle or remove the third plug of power line (grounding plug) in any case.
- If the socket is provided with grounding wire, check if it is well grounded before operation.
- If the socket is not provided with grounding wire, a new one shall be installed by engineering technician.

Warning

- Do not ground the freezer through gas pipes, water supply pipes, telephone lines or lightning conductors as electric shock may be caused.
- 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 be free from barriers.

Preparation before use

1. Remove the packaging materials and strings

Remove all packaging materials and strings for transport.

Caution

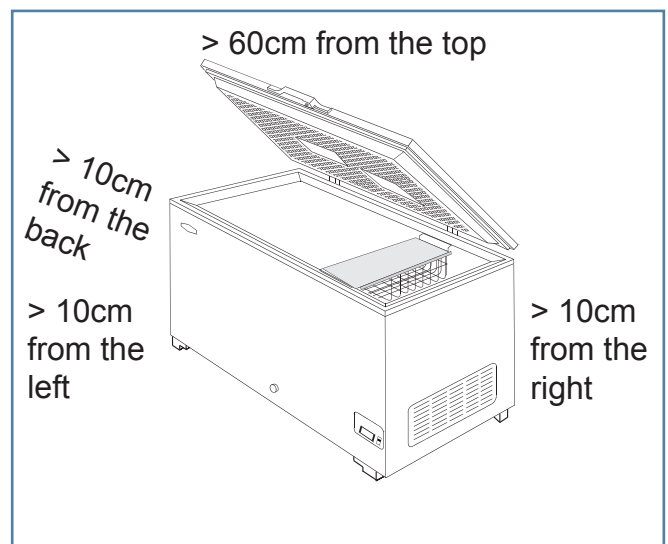
- To handle the freezer before unpackaging, forklift or package carrier may be used. If the forklift is used, it shall be inserted at the bottom of blocking from the front or back of the freezer to move the freezer. If the package carrier is used, it shall pick up at the bottom of blocking and can only pick up the side of the freezer.
- After unpackaging, to handle the freezer, you may push wheels for handling.
- During handling, the inclination angle of freezer shall not be greater than 45°.

2. Count freezer accessories accompanied

Check the articles inside the freezer against the packing list; if any difference, contact the after-sale service.

3. Placing conditions

Leave a gap of 10 cm in minimum around the freezer for ventilation and heat dissipation.
Leave a space of 60 cm in minimum on top of the freezer to guarantee normal opening of the door.

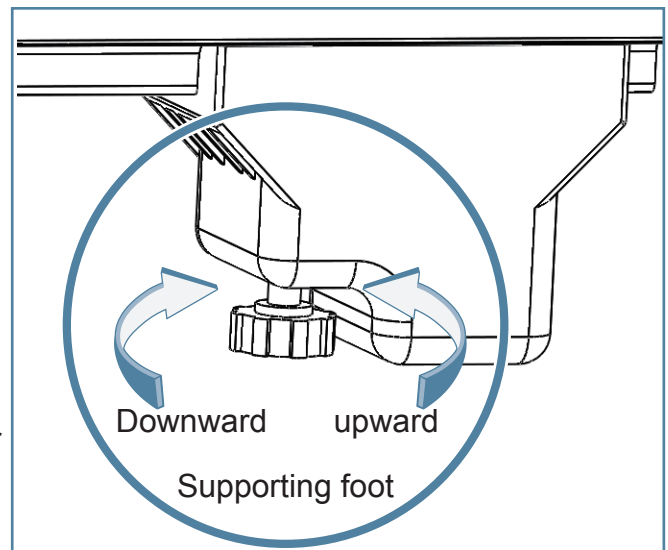


4. Adjust bracing foot

Rotate the leveling feet with wrench in clockwise direction to extend them outward and support on the ground. Make sure the freezer will be horizontal and not be move during operation.

5. Standing

Do not switch on the power after the freezer is placed, leveled and cleaned. Switch on the power after it is put on standing for more than 24 h, to ensure normal performance of freezer.



Initial Power-on

Observe the rules below for initial start-up and continuous operation:

When the freezer is empty, connect the power line to dedicated socket that meets the standard. Make sure that the power supply is 220~240V/50Hz.



After power-on, turn on the power switch. The audible alarm may ring and this is normal. Press any button to cancel the alarm.



The freezer is pre-set to be operated at -15 °C to -25°C before leaving the factory. Temperature setting is not needed.



After hours of operation, temperature of freezer will be stabilized at a set value. Once the temperature in the freezer is stabilized, check if it is within the range of -15 °C to -25°C.



Place articles into the freezer in batches when the temperature is kept at -15°C~-25°C and the refrigerating system starts and stops normally.



- This product is vaccine freezer. The temperature in the freezer is set as -15~-25°C. Please make sure that the articles stored comply with environment within the cabinet, to avoid article damage and economic loss.
- Due to refrigeration inertance, temperature and humidity displayed have certain difference with the practical value in the freezer. This is normal.



- It is prohibited to put in too many articles with relatively higher temperature at one time. If so, the compressor may not stop for a long time with temperature reducing slowly, which will reduce service life. Articles must be put in batches, and the temperature shall be reduced in steps until it reaches the temperature required.
- Do not damage refrigerating loop.
- Do not apply electronics without product permission in the freezer.

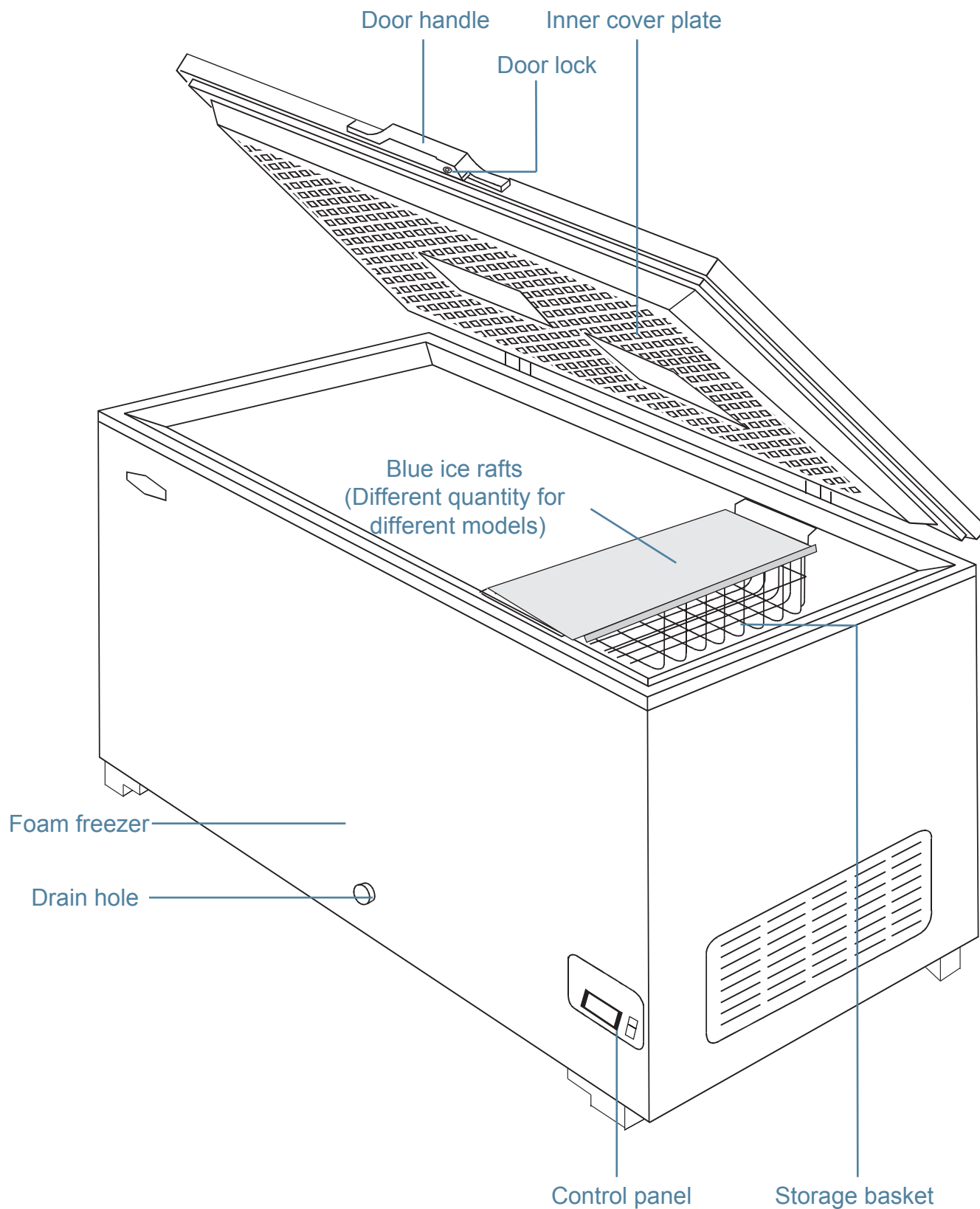


Operation after Outage



- Once the power is cut off, wait for over 5 minutes before it is reconnected to avoid damaging compressor or the system.
- Pull out the power plug if the freezer has been out of service for long time to prevent electric shock, leakage or fire caused by aging power lines.
- If the freezer is left unused for a long time in areas where supervision is unavailable, make sure children will not get close to the refrigerator and the door can not be completely closed.

Component Names



Introduction to Components

To ensure best performance of this series of vaccine freezers, please read and understand structure of your equipment and precautions to avoid any loss.

Handle and door lock

Please use the handle to open or close the door to avoid hand pinching. There is safety lock on the handle, please use it appropriately to guarantee the safety of articles in the freezer.

Lining board

Lining board is made from PS board with high-density thermal insulation layer in it. Do not use sharp objects to clash the lining board, so as to avoid tearing or breakage, which affects thermal insulation property of the product.

Blue ice rafts

The top of storage basket and bottom of the freezer are equipped with blue ice raft to guarantee thermal insulation time and temperature uniformity in the freezer. Please use raft correctly. The interior of blue ice raft is loaded with cool storage liquid and it can not be opened without authorization. Pay attention to protecting the blue ice raft, and do not use sharp objects to damage it.

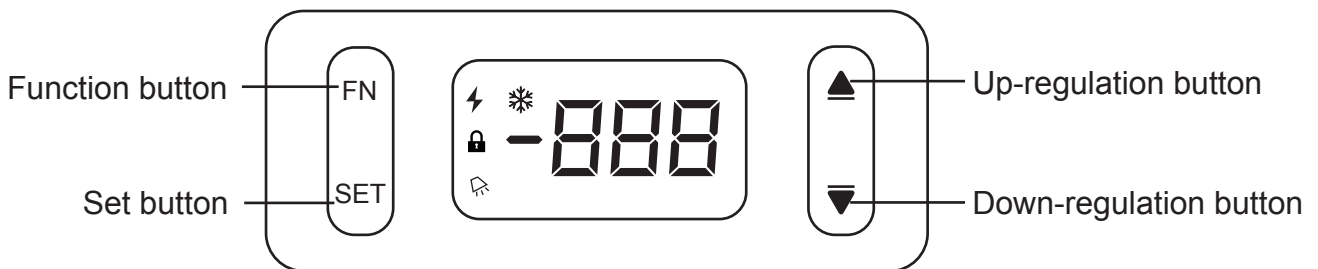
Power switch

The power switch is on the right side of controller, and it is used to control switching of the input power. Meanwhile, there is a yellow indicator on the switch, which flashes after power-on.

Drain hole

There is a drain hole at the bottom of this series of freezers. Users need to examine the bottom often to see whether there is water reserve. If any, drain off the water from this drain hole.

Description of temperature controller



⚡ : Power-on mark - indicates that the power is switched on

❄️ : Refrigerating mark - indicates that the refrigerating system is being operated

🔒 : Lock mark - indicates that the screen is locked

🔔 : Alarm mark - indicates that there is an alarm (be accompanied with buzzing alarm in normal condition)



Caution

When there is a buzzing alarm, it can be canceled by pressing any button.

Unlock and lock

The temperature controller is equipped with lock function. The temperature is locked if it is not operated for a long time, and “🔒” on the screen will be light up. If unlock is needed, simultaneously press and hold “FN” and “SET” for 1 second. After that, “🔒” on the screen will disappear, which indicates completion of the process. If lock is needed, simultaneously press and hold “FN” and “SET” for 1 second to lock the temperature controller, after which “🔒” on the screen will be light up.



Caution

- If there is no button operation in 3 minutes, the temperature controller will be locked automatically. Unlock again if operation is required.

Change the set temperature

The parameters are pre-set before leaving factory. Users do not need to adjust the temperature. If there is special demand or the temperature in the box exceeds the scope, where the set temperature needs to be adjusted, please refer to the following steps:

- 1.If the temperature controller is locked, please unlock it;
- 2.Current set value will be displayed on the screen after pressing “SET”;
- 3.Increase or decrease the set value through “▲” or “▼”;
- 4.Press “SET” again after changing to the expected value. The temperature controller will save the current setting and exit to normal interface.

Default set temperature

Default set temperature of this series of product is different due to difference of actual volume and refrigerating system. Under normal condition, the best performance will be obtained if it is operated in accordance with temperature set in the table below.

Model	HBD-116	HBD-286
Default set temperature	-19	-18

Enquiry of historical data

1, Enquiry of highest & lowest temperature in 24 hours :

- a, In the unlock state, press “SET” for over 3 seconds, display will show code “PS”;
- b, Press “▲” or “▼” to select “Ho1” or “Lo1”(scroll display PS, AB, Po2, Ho1, Lo1.....);
- c, Press “SET” to confirm, the selected historical data will show up :
 - “Ho1”——highest temperature in 24 hours;
 - “Lo1” —— lowest temperature in 24 hours,
 - (If freezer is powered off for over 24 hours or battery runs out for 24 hours, history data will be cleared.)
- d, Press “SET” for over 3 s, it will quit setting mode.

2, Enquiry of historical alarm data :

- a, In the unlock state, press both “ SET” and “▲” for 3s, historical alarm data can be enquired.
- b, If there is no historical alarm data, display shows “noA”; otherwise, it shows “A-X”. The first historical alarm data A-1 is the latest one and other alarm data are named by this analogy. Press “▲” or “▼” to select the alarm data. Press “SET” button, the display will show the selected alarm data and alarm time alternately.
- c, Alarm time has decimal point, with integer part for hour and fractional part for 10 minutes.

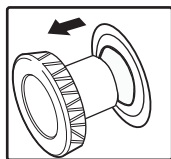
For example: 3.5 means that an alarm occurs 3 hours and 50 minutes ago; 0.3 means that an alarm occurred 30 minutes ago.

Alarm code and meaning :

Hi	High temperature alarm
Lo	Low temperature alarm

Use of the drain pipe

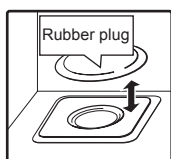
Please follow the following steps in case of draining:



1. First, place a water container under the drain plug and pull out the drain plug in the front of the refrigerator.

 **Caution**

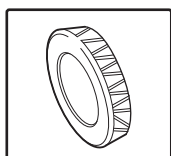
To accelerate the process of defrosting, a flat container with hot water of less than 50 °C can be placed in the refrigerator.



2. An outfall is placed on the liner bottom, where the defrosting water will flow away through the drain pipe when the rubber plug is pulled out.

 **Caution**

During the process of defrosting, please keep the rubber plug in a proper manner so that it can be plugged immediately after the defrosting is finished.



3. After defrosting, please wipe the refrigerator with a piece of dry cloth, make the rubber plug well-set and then push in the drain plug. Finally, switch on the power, put in the articles and turn the rotary knob to normal position after 12 hours.

Component Cleaning

Warning

- In order to prevent electrical shock or personal injury, make sure that the power of freezer is cut off before conducting any repair to the freezer.
- Make sure that you do not intake any drug or suspended particulate around the freezer when you are maintaining the freezer, or else it may be harmful to your health.

Clean the freezer

- Clean the freezer once a month. Regular cleaning can keep the appearance of the freezer a brand new look.
- Wipe out the dust on shell, chamber and all the accessories of the freezer with a piece of dry cloth. If the freezer is very dirty, remove the dirt with a piece of clean cloth dipped with neutral detergent and wipe out the residues with wet cloth, then wipe with a piece of dry cloth.
- Do not pour water on the shell or in the chamber of the freezer. Otherwise, it may damage the insulation of the electrical equipment and may lead to the occurrence of fault.
- Compressor and other mechanical parts are fully closed and do not need to be lubricated.

Deactivate the refrigerator

- Cut off the power if the freezer is to be in idle for a long time;
- Clean out the inside of freezer with baking soda solution and then wipe it;
- Keep the freezer's door open for 1-2 days to make the inside become more dry;
- Place the opened baking soda box or charcoal inside the freezer for deodorization;
- Cover the freezer with cloth to avoid dust as well as dirt retention and mildew on the sealing strip.

Move the freezer

- Take out all articles in the freezer before moving;
- Cut off the power and plug out the power plug;
- Enwind the power line in a safe manner to avoid damage when moving;
- Clean out the inside of freezer and make it dry;
- Make sure all components that can be picked up and are movable are placed in the freezer;
- Always keep the freezer upward during moving and transporting.

Caution

Make sure the freezer is fixed during transporting to avoid unnecessary moves. Cover the freezer with a blanket to avoid scratched finishing coat.

Defrosting

If the frost is too thick, it will influence the refrigeration effect of freezer. When the frost thickness reaches 6-8mm, it is necessary to conduct defrosting.

- In button unlock state, press both “Fn” and “▼” for 3s, it will enter “forecd defrost” mode. The display will show the controller temperature and “dF” alternately.
- During defrost, the compressor stops working. (Press any button or cut off the power, it will quit “forecd defrost” mode).
- To accelerate the process, place a bowl of water in the freezer to accelerate melting of the frost

Caution

- If the frost is slightly thick or defrosting is slightly slow, use defrosting shovel accompanied as an aid.
- Do not use sharp objects for defrosting to avoid damage of the internal wall of the freezer.



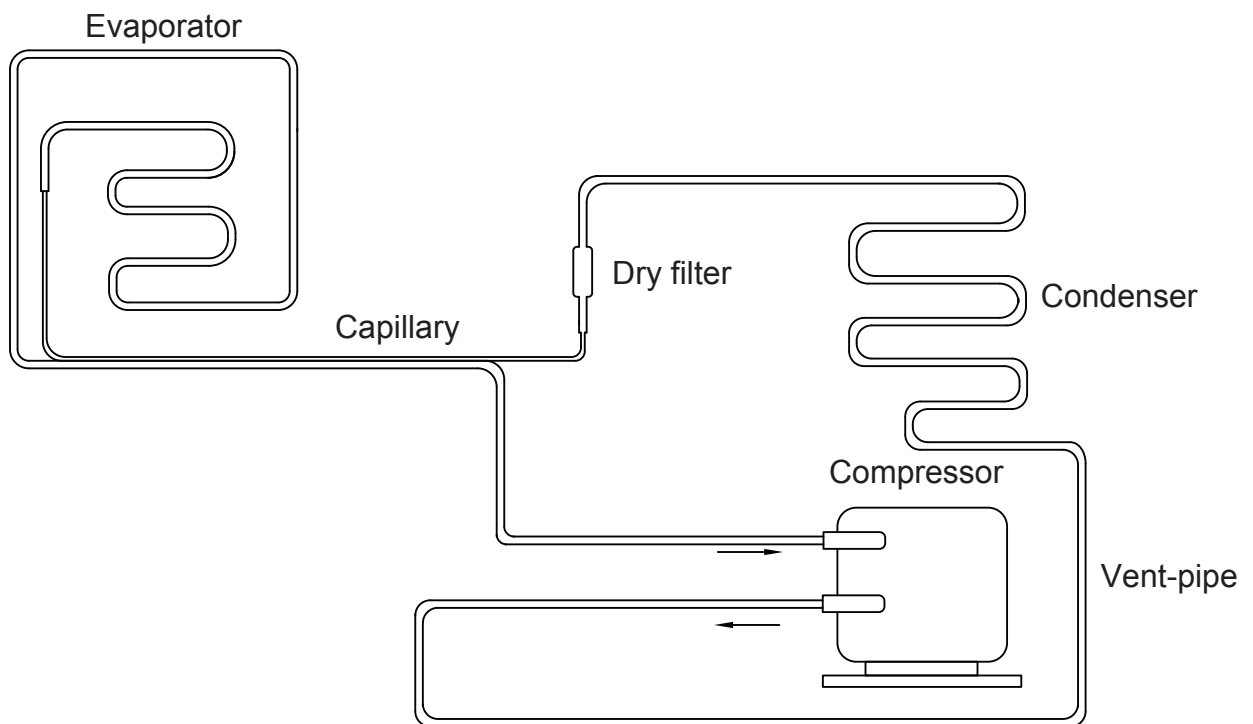
Have questions in the process of usage? Doubt that the freezer has fault? Read here firstly. This chapter explains to you various faults and phenomena that are potential to happen and their solutions.

Call the Haier after-sale service if the question hasn't been resolved after operation. Do not disassemble and repair the freezer without authorization.

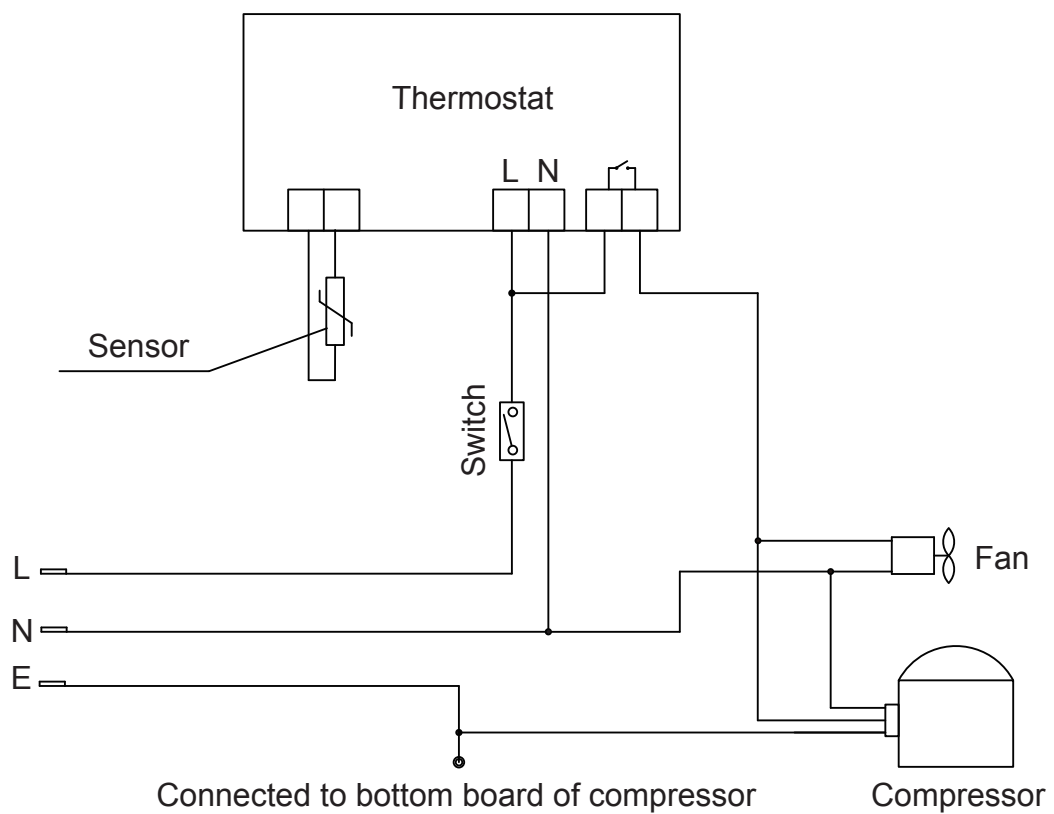
Fault	Troubleshooting scheme
The freezer does not work	Whether the plug and the socket are in poor connection
	Whether the indoor fuse is blown or whether the breaker is tripped
Frequent start and stop of the compressor	It is a normal phenomenon for the compressor to start and stop to maintain the uniformity of temperature in the refrigerator
Whether noise level is too high	Whether the freezer is placed steadily
	It is a normal phenomenon for the refrigerant to flow into the system
	It is a normal phenomenon for the temperature controller's ON or OFF to be accompanied by the sound of electrostatic interference
Temperature in the refrigerator is too high	Insufficient temperature control, please set the temperature to the manual
	High environmental temperature, frequent open of the freezer or untight cap
The freezer's cap is not closed well	Whether the hinge of the freezer's cap is aligned
	Whether there is an obstacle blocking the door and cap
Condensation occurs outside the freezer	It is a normal phenomenon that the ambient humidity is too high. A piece of dry cloth can be used to wipe it
High temperature on the shell and compressor, sometimes even too high.	It is a normal phenomenon

Refrigeration Schematic & Circuit Diagram

Schematic diagram



Circuit diagram



Specification

Name	Vaccine/Water-pack Freezer (Deep freezer)	
Model	HBD-116	HBD-286
Gross volume	121 L	298 L
Door	Foaming door	Foaming door
Foaming Agent	CP/IP	
Compressor	Totally enclosed imported compressor	
Number of blue ice rafts	2 on the top; 2 on the bottom	3 on the top; 5 on the bottom
Refrigeration mode	Direct cooling	
Outer plate / inner plate	Spraying steel plate/stainless steel	
Condenser / evaporator	Copper tube / Copper tube	Copper tube / Copper tube
Temperature controller	Electronic temperature control	Electronic temperature control
Refrigerant	R134a 150g	R134a 220g
Temperature band	H	H
Temperature in the refrigerator	-15°C ~ -25°C	-15°C ~ -25°C
Noise Level	44dB(A)	44dB(A)
Electric protection type	I	I
Connection to the Supply	Y	Y
Product certification	CE,WHO/PQS	

Note: Temperature band H refers to the temperature of +43°C. The company focuses on scientific and technological innovation. Product specifications are subject to change without notice.

Packing List

Name	HBD-116	HBD-286
Manual	1	1
Plastic bag	1	1
Key	2	2
Number of blue crafts	2 on the top; 2 on the bottom	3 on the top; 5 on the bottom
Storage basket	2	3
Defrosting shovel	1	1
Alcohol stem thermometer	1	1

Certificate of Quality

Checker:

Manufacturer: Haier Medical and Laboratory Products Co., Ltd.
Address: Haier Industrial Park, Economic Technology Development
Zone. Qingdao 266510.P.R.China
Web:www.haiermedical.com
Revision date:10/2017
Version:1st,2017
Dedicated code:0270501281
V13026