Haier

Transport cooler
Operating Manual

Model
HZY-5B

Certificate of Quality

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checker:

Manufacturer: Qingdao Haier Biomedical Co., Ltd.

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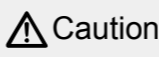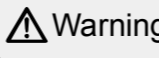
Content

Safety Precautions

Dear users:

Thank you for use of transport cooler. For your better understanding of this Operation Manual and use of this product, preventing occurrence of personal injury and article damage, please read the manual carefully and observe the contents marked with the following signs in this Operation Manual.

⚠	Under all conditions marked with "⚠", it is necessary to refer to the documentation, so as to clarify the nature of potential risks and any countermeasures that must be taken.
⚠ Caution	Failure to observe the matters under the warning signs may cause serious casualty accident.
⚠ Warning	Failure to observe the matters under the caution signs may cause casualties or freezer damage and associated property loss.

🚫	Conduct or operation that must be forbidden
❗	Conduct or operation that must be observed

❗ Make sure to place the transport box firmly on a solid and flat ground. If the ground is not stable or it is not properly placed, it may cause overturn of the transport box or personal injury.

🚫 Do not use the transport box in the open air. When the refrigerator gets wet in the rainwater, leakage of electricity or electric shock may possibly be caused.

🚫 Do not place the transport box in a damp site or a place where it may be vulnerable to sprayed water. Otherwise, leakage of electricity or electric shock may be caused due to degeneration of its insulation.

🚫 Do not pour water onto the transport box in a direct inclined way. Otherwise, it may cause an electric shock or a short circuit.

🚫 Do not place any vessel containing water or any heavy object on the transport box. If the object falls off, it may possibly cause personal injury and the flowing water may degenerate the insulation and further cause leakage of electricity or electric shock.

🚫 Do not contact any electric parts or any switches such as power plug and so forth with a wet hand. Otherwise, an electric shock may possibly be caused.

❗ Users must not remove, repair or refit the transport box by themselves. Otherwise, a fire or personal injury due to improper operation may possibly be caused.

❗ Make sure not to suck in medicine or suspended particles inside and surrounding the transport box in time of repair and maintenance. Otherwise, they may possibly bring hazard to your health.

❗ When storing toxic, hazardous or radioactive articles, please use the transport box in a safe zone. Improper use may possibly bring hazard to human health or environment.

❗ Disposal of the discarded transport box shall be conducted by 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 a professional and appropriate manner in accordance with current local laws and regulations.

🚫 Do not store corrosive articles such as acid, alkali etc. in the transport box. Otherwise, it may cause damage to the internal components or electric parts of the transport box.

- Do not place the packing plastic bags at the locations where children can easily take as plastic bags may possibly cause occurrence of suffocation accident.
- Do not climb onto the transport box or place articles on it. Otherwise, personal injury or damage of transport box may be caused due to the overturn of the transport box.
- Put on your gloves at time of maintenance so as not to bump the sharp edges or corners, which may result in personal injury.
- When moving the transport box, please be careful not to trip over it, preventing damage to the transport box or casualties.
- Do not use any electric appliance in the store-room of the transport box except for the types that the manufacturer recommended for use.

Specifications • Packing List

■ Specifications

Name	Transport cooler
Model	HZY-5B
Outside dimension (Width x Depth × Height) (mm)	285×186×200
Inside dimension (Width x Depth × Height) (mm)	220×118×126
Insulating material	High-density foam
Cooling mode	Passive cooling
Casing/liner	ABS/ABS
Net weight	1.9kg
Range of temperature during transport	2℃ ~10℃
Temperature keeping time	3 hours (in case of 32℃ environmental temperature loading)
Rechargeable battery of collector	3.6VDC Chargeable lithium battery
Electromagnetic lock battery	3.6VDC lithium battery
Production date/Software release version	See bar code on the case body/V1
Expected service life	5 years

Note: Our company pays attention to technological innovation. Products are subject to upgrade without further notice.

■ Packing list

Name	HZY-5B
Operating manual	1
Plastic bag	1
Ice row	1
Collector power charging line	1
CD attached with software	1
Thermal insulation pad	1

Cleaning and Maintenance
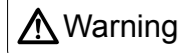
| Warning | • In order to prevent an electric shock or casualties, please make sure to cut off the power of the transport box before conducting any repair to the transport box. |

• Make sure not to inhale medicine or suspended particles around the storage box when maintaining the transport box. Otherwise, there may be health risk.

■ Clean transport box

•Clean the transport box once a month. Regular cleaning can keep a completely new appearance of the transport box.

•Use a piece of dry cloth to wipe off the small amount of dust accumulated on the transport box's housing and inner chamber and all the accessories as well. If the transport box is very dirty, use a piece of cloth dipped with mild detergent to clean off the dirt, then use a piece of wet cloth to wipe the residual detergent, and wipe it with a dry piece of cloth.

•Do not pour water onto the transport box enclosure or into the transport box. Otherwise, damage to electrical insulation may result in faults.

•The compressor and other machinery parts are in completely sealed state, so there is no need to lubricate them.

■ Stop using transport box

•Power off the transport box if it will be out of service for a long time.

•Open the door of the transport box and thoroughly clean the transport box.

•After the transport box is aired, close the door of the box and put the plastic bag on it for sealing storage.

■ Replace the battery of electromagnetic lock

•Remove the fixing screw of the battery cover at the top of the box and remove the battery protection cover.

•Unplug the connection plug between the battery and the electromagnetic lock.

•Take out the battery, replace the same type of battery, and assemble according to the above method.
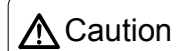
| Caution | •When replacing the battery, use the battery of the same model. Otherwise, it may cause power leakage or burning down the equipment. |

Precautions for Use

1.Structure and composition: The product consists of thermostatic box body, data recording system, electromagnetic lock, ice row and so on.

2.When the transport box is restarted after it has not been used for a long time, the battery power level may be low:

   a. Li-ion batteries are used in electromagnetic lock. Electromagnetic lock cannot be used in case of low battery capacity. The top battery protection cover shall be disassembled and the battery in it shall be replaced.

   b. GPRS collector has built-in lithium battery. If black screen occur, it means that the battery is low in power. Plug the power cord into the front charging port for charging until the battery power indicator indicates fullness. If "off" is displayed on the screen, it can be directly turned on for use.

3.Use the diluted neutral detergent to clean the refrigerator. Do not use brushes, acid, gasoline, soap powder, polishing powder or hot water to clean the transport box as the above-mentioned materials may damage the painting surface as well as the plastic and rubber parts and components. Take particular care not to use volatile solvent such as gasoline to wipe plastic and rubber parts and components.

4.When the transport box is not to be used for a long time, the temperature collector shall be turned off.

5.Precooling methods

   a. The transport box and the ice row are put into the lower layer partitioned chamber of the refrigerator at 2℃ -6℃ for precooling for a long time.

   b.Remove the ice row separately from the box and refrigerate them in the refrigerator at -18℃ ~-10℃ for 2 ~ 3 hours. Before loading the frozen ice row into the transport box, it shall be put in the room temperature environment for 5~10 minutes, and the upper part of the articles shall be covered with two layers of heat insulation pads to prevent the articles from directly touching the ice row and causing damage to the articles.

6.The temperature probe of the GPRS collector can be placed on the surface of the goods when it is necessary to monitor the temperature of the goods in the box in real time.

Product Feature

Main use: The temperature inside the box is controlled within a certain range by means of built-in ice row to transport biological products such as blood, drugs, specimens and reagents, and the temperature data and other information are uploaded to the cloud platform to realize the supervision of temperature data.

1.Temperature control

•In the process of transport, the temperature in the box can remain 2-10℃ .

•Inside temperature display, signal status display, alarm information, battery power display, time display, and backlight display, with the display accuracy of 0.1℃ .

2.Safety System

• Two kinds of alarm reminders: Over-temperature alarm, low battery alarm

• It features double lock design of electromagnetic lock and mechanical lock. After authorization from background software , the code of electromagnetic lock can be scanned to unlock, thus improving the safety guarantee of goods stored in the box.

• The box body is made of ABS, which is light and easy to carry. The liner is made of ABS and filled with high-density foam material to enhance the thermal insulation performance.

3.Refrigeration System

Passive refrigeration. The size of the refrigerator is suitable for pre-cooling by putting articles into the partitioned chamber of the refrigerator.

4.Smart Management

• By SIM card (China Mobile/ Unicom) with opening GPRS function, data can be uploaded to Haier cloud platform.

• Supporting printing connected with portable printer GF-P1.

The above functions are not available for all models. The specific functions are subject to the equipment you purchase.

Due to product improvements, Haier thermostatic transport box you received may be not exactly the same as the instructions on the operating manual. We sincerely apologize for any inconvenience. Content of the user's manual is subject to alternation without further notice.

3.Alarm indicator

Red light flashing -- over temperature alarm; red light constantly bright -- Low power level alarm

Green light flicker -- fast flicker frequency means trying to upload data. When data upload is stable, green light's flicker frequency will slow down. Turn off the uploading data and green light will not flicker.

4.Data uploading

Remove the fixing screw from the four corners of the data collector. Open the back cover at the back of data collector and load the China Mobile/Unicom SIM card. It can then automatically connect to Haier cloud platform to realize data uploading.

5.Software parameters configuration

Download configuration software from accessory CD, you can adjust the collector working parameters and alarm information according to the configuration tool operation manual.

GPRS data collector

1.Key display status and function description

• Signal bar: indicates the signal strength of the current area (the signal bar can be displayed as long as the network is unblocked);

• "G" is the sign of uploading. In case there is "G" display, it means it has been opened.

• Battery power lever: three column means full battery, if there is no display in the middle, it means that there is no power. At the same time, the red light of the device will be on, indicating that it needs to be charged.

• Clock symbol: This symbol is displayed when the recording function is turned on.

• 88:88 displays the current device time.

• 88.8.8 is the data display window.

• ℃ is the symbol for temperature;

• The pre-charging socket can realize the functions of local configuration, printer connection and equipment charging. (1) After connecting it to computers, the user can realize the configuration of internal parameters of instruments by using GPRS configuration tools. (2) Connect the charger to charge the instrument. The charging indicator does not flash when the power is off. (3) Connect it to portable printer to print historical data.

2.Key usage

• "GO" key

a. Long press for 3 seconds to turn on/off the device. When the device is turned off, the stored data can still be printed by the printer or historical data can be downloaded. However, the historical data will be cleared after the equipment is restarted.

b. Press twice, the display shows "P_1N" and prints the historical data inside the device.

• "UP" key

a. Press it and cancel the buzzer alarm.

In the case of overtemperature, the buzzer will ring. Press the "UP" key, and the sound will be eliminated.

b. Long press 3 seconds to turn on/off the data uploading function.

Long press the key for 3 seconds. You will hear "beep". If the "G" on the interface disappears, the data uploading function will be turned off. However, the device will record the data. After the device is started again by pressing the button for 3 seconds, the previously recorded data will be supplementarily uploaded to the cloud platform.

Another: In case there is no data uploading, the collector is used as a thermograph, and the internal battery can be used for one month.

Note: When "GO" or "UP" key is pressed, the buzzer will ring once.

Product Installation

Installation environment

• Environmental temperature: 10 to 28 ℃ . Air conditioning system shall be used when necessary.

• Ambient humidity: below 85% RH.

• Avoid large quantities of dust.

• Avoid mechanical sway or vibration.

• The altitude of transport box's working position: lower than 2000m.

⚠ Caution

• As the transport box is sensitive to the environmental temperature, the transport box cannot operate normally if it is installed in an environment other than the above-mentioned environment. Please use it after improving the environment.

• It is prohibited to install the transport box in an open-air environment. When the transport box gets wet in the rainwater, leakage of electricity or electric shock accidents may possibly be caused.

Installation site

For normal operation and optimum performance level of the transport box, its installation place shall conform to the following conditions:
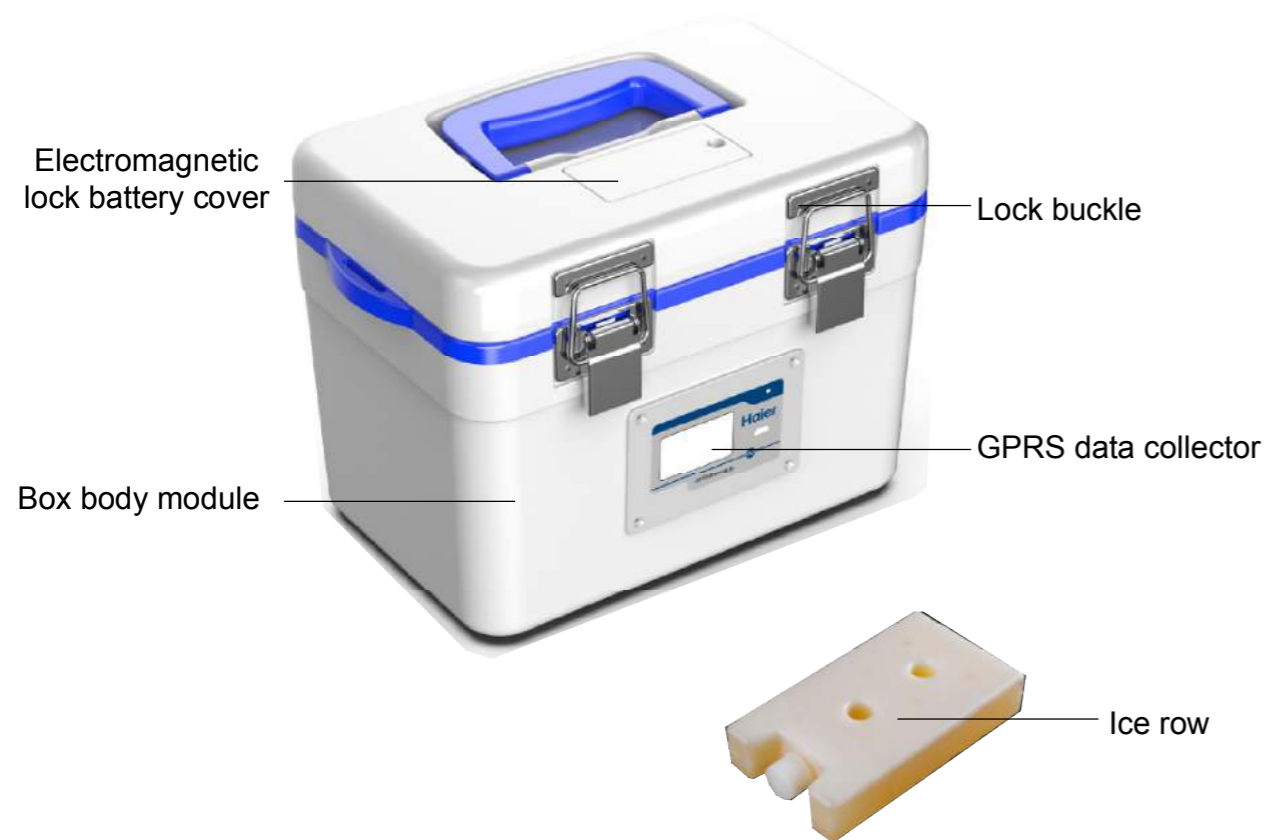
• It cannot be installed in a narrow, small, and airtight space. It shall at least be guaranteed that the product can be moved in/out normally so as to avoid any maintenance difficulty and failure. The failure of in-time repair may cause damage to the stored articles.

• The ground at the installation place shall be solid and flat.

• The place shall be well-ventilated without exposure to direct sunshine.

• It shall be away from the radiated area. Avoid the use of radiation-sensitive devices at its periphery.

Pre-use preparation

1. Take down all the packing material and packing straps

   Take down all the packing material and packing straps used for transportation.

2. Check the accessories delivered with the product

   Please check the articles inside the packing box as per the packing list, and contact the after-sale service in time in case of any discrepancy.

3. Placement conditions

   Select the appropriate distance according to the space size.

4. Ice row pre-cooling

   Before use, open the electromagnetic lock, take out the ice row in the transport box, and pre-cool it for 2-3 hours in the refrigerator at -18℃ ~-10℃ .Before the pre-cooled ice row is loaded into the transport box, the ice row must be placed in the environment temperature for 5 to 10 minutes in advance. Otherwise, the surface temperature of the ice row may be too low and the articles may be damaged.

5. Observation

   After leveling and cleaning the machine body, put in the precooled Ice row to ensure the normal operation of the transport box.

Name of parts • Control panel

▪ Name of Parts

Electromagnetic lock battery cover

Lock buckle

GPRS data collector

Box body module

Ice row

▪ Control panel

GPRS数据采集器

Method of Use

▪ Electromagnetic lock

1.Unlock

•First unlocking

a.Use the scan code function to scan the QR code on the front door to download and install, complete the installation of the "Nokelock" APP, and complete the new user registration.

b. After logging in the account, enter the home page and click the " 🔒⁺ " button in the upper right corner to select "scan code, bluetooth, number" and other binding methods for device binding.

c. After the device binding is completed, scan the QR code corresponding to the bluetooth lock on the front of the door, bind the corresponding lock, and input the lock name (or default built-in lock name).

d. After the lock binding is completed, the corresponding lock name will be displayed in the list on the first page. Click the lock name and enter the secondary menu. Click "Unlock" to open the lock.

•Unlock again

After opening the lock for the first time, each time after the lock, you can select the name of the lock to open in the first page list, enter the second-level menu and directly open the lock.

2.Unlocking authorization

•Add friends

Click on the " ⋯ " button in the lower right corner of the lock list page to enter the "My friends" page. Under this page, click on "+" in the upper right corner to add friends by scanning and adding accounts. Your friends are in the "My friends" page under your account. Click "Add request" to enter the request list and agrees to the other person's request to add a friend.

•Authorized management

The "Authorization Management" page in the secondary menu of the lock shows the sharing of all friends. You can add or delete authorization to friends, or select "Authorized" and "Unauthorized" respectively to filter and view.

3.Unbinding

Click the " ⚙ " in the upper right corner of the lock second menu to find the "Unbind" key. "Unbind" is to remove the use rights of yourself and friends. When the lock has been shared with friends, you and your friends will lose access to this lock after unbinding.

4.Use record

The use record contains "Unlock record" and "Share record", which shows all information about unlocking and sharing of this lock.

⚠ Caution

•After the electromagnetic lock is bound by the main user, if the main user does not grant the unlocking privilege to other users, other users will not be able to unlock the electromagnetic lock.

•If the primary user is unbound, the user bound next time will automatically register as the primary user.