



# Blood Bank Refrigerator

## Operating Manual

The following product models are applicable:

BBR168-EU

BBR380-EU

BBR630-EU





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	Do not place the equipment in areas exposed to the sun or rain to prevent danger such as short circuit or overheating.
	Do not tilt or lay the equipment sideways and do not impact the equipment body; refrigeration systems are installed in the equipment, which can be easily damaged by tilting or impact.
	Please place the equipment in a dry and dust-free environment to avoid risks such as overheating and short circuiting.
	In case of unexpected sounds, smell, smoke, etc. when the power is turned on, please unplug the power in time and contact the manufacturer or supplier.
	Please place the equipment in a dry and ventilated environment and ensure that the equipment vents and instrument surfaces are not blocked or shielded by walls or other objects; do not use it in a poorly ventilated environment to prevent damage caused by heat released by equipment.
	It is forbidden to disassemble and modify this equipment without authorization to avoid potential safety hazards. In this case, we will not bear any responsibilities for quality accidents.
	It is forbidden to put inflammable and explosive dangerous goods, strong corrosive acids, alkalis and other items unsuitable for the equipment in the equipment.
	Metal objects such as nails or iron wires shall not be inserted into any aperture and gap or any outlet of the equipment, otherwise an electric shock or injury may be caused due to accidental contact between the above objects and moving parts.
	In order to ensure the normal operations and ventilation and heat dissipation of the equipment, the back, left and right sides of the refrigerator body should be at least 30cm away from the wall, and the air inlet and air outlet must not be blocked by obstacles!
	This equipment must be connected to a ground wire.
	This equipment must be completely closed.

	<b>Note:</b> Failure to observe the precautions may result in personal injury or equipment failure and related property losses.
	When the equipment is running, do not touch the inner surface of the cabinet without wearing protective gear.
	Hold the handle and close the door to avoid pinching your fingers. When the equipment is not used for a long time, please unplug it and pack it for storage.
	When restarting the equipment after power failure or power off, please check the equipment settings first, otherwise the stored items may be damaged due to the change of settings.
	The equipment can be used for item preservation, not as production equipment!
	When handling the equipment, please be careful not to tip over the equipment to prevent equipment damage or personal injury.
	When handling, it shall be lifted from the bottom, with the inclined plane not greater than 45° and it shall be handled with care. Please use the equipment in safe areas. Improper use may cause harm to human health or the environment.



## 4.3 Preparation Before Use

1. Remove the outer packaging of all products (Packaging requirements: The product is wrapped with PE wrap film, the internal buffer material is honeycomb cardboard and foamed polystyrene, and the outer packaging is corrugated paper. )



### Warning:

- ◆ If it is necessary to move the blood bank refrigerator before it is unpacked, use a forklift or a clamping cart. If a forklift is used, insert the forklift through the bottom of the wooden pallet on the front or back of the case to move the case.
- ◆ If a gripper truck is used, it is clamped from the bottom of the wooden pallet and only the sides of the case are clamped.
- ◆ If the blood bank refrigerator is to be moved after the packaging has been removed, it may be pushed with the help of the equipment's casters.
- ◆ Do not tilt the blood bank refrigerator at an angle greater than 45° during handling.


2. Inventory of accessories: Please check the accessories and materials according to the packing list.

3. Cleaning: Clean the product once before use.

4. Cabinet fixation: retract the four wheels at the bottom of the cabinet to ensure that the cabinet does not move when in use.

5. Please check whether the liquid level in the glycol bottle is within the standard range (see Figure III). If the liquid level is below the minimum level mark, add simulated solution. The liquid level after refilling must not exceed the 100 mL level mark. (Simulated solution composition: glycerol and purified water mixed at a ratio of 1:9.). The simulated solution should be inspected once every year.

6. After the unit is placed in the designated location, it must be secured. If the front casters are equipped with brakes, press down the brakes. If leveling feet are provided, lower the leveling feet by turning them downward (see Figure IV). The detailed operation procedure is as follows:

- There are adjustable anti-skid leveling feet in front of the two front casters at the bottom of the equipment. Please use accompanying tools  to turn the leveling feet downwards after the equipment is placed securely, so as to stabilize the machine.

- When you need to move the equipment, please turn the leveling feet upwards. Do not move it forcibly so as to avoid damage!

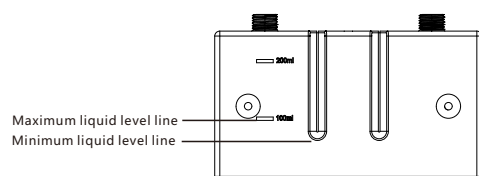
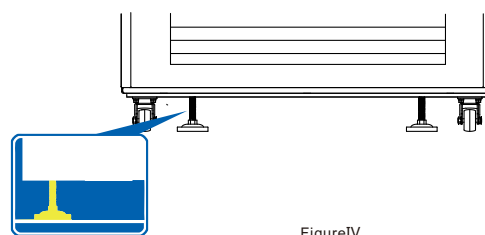


Figure III



Adjustable anti-skid leveling feet

Figure IV

## 4.4 First Power-on

When using the equipment for the first time, please follow these steps:

1. After the equipment is placed, leveled and cleaned, it shall stand for more than 24 hours and then power it on to ensure the normal operations of the equipment.
2. Under no-load conditions, connect the power cord to a special outlet with appropriate specifications.
3. Turn on the power switch after the power is on (If there is a battery, turn on the battery switch).
4. Check whether or not the operating temperature of the equipment reaches the required value, observe the normal start and stop of the equipment for more than 24 hours and put a small amount of items in the refrigerator after confirming the normal performance. Do not use the contents when the temperature of the product exceeds the standard 2~6.
5. Please store items in batches, with the items not exceeding 1/3 of the refrigerator volume each time. Ensure that the equipment is running properly after shutdown for more than 12 hours before putting in the next batch of items).
6. Try not to open the door during cooling, otherwise the temperature will rise.

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## 4.5 Operations after Power Failure

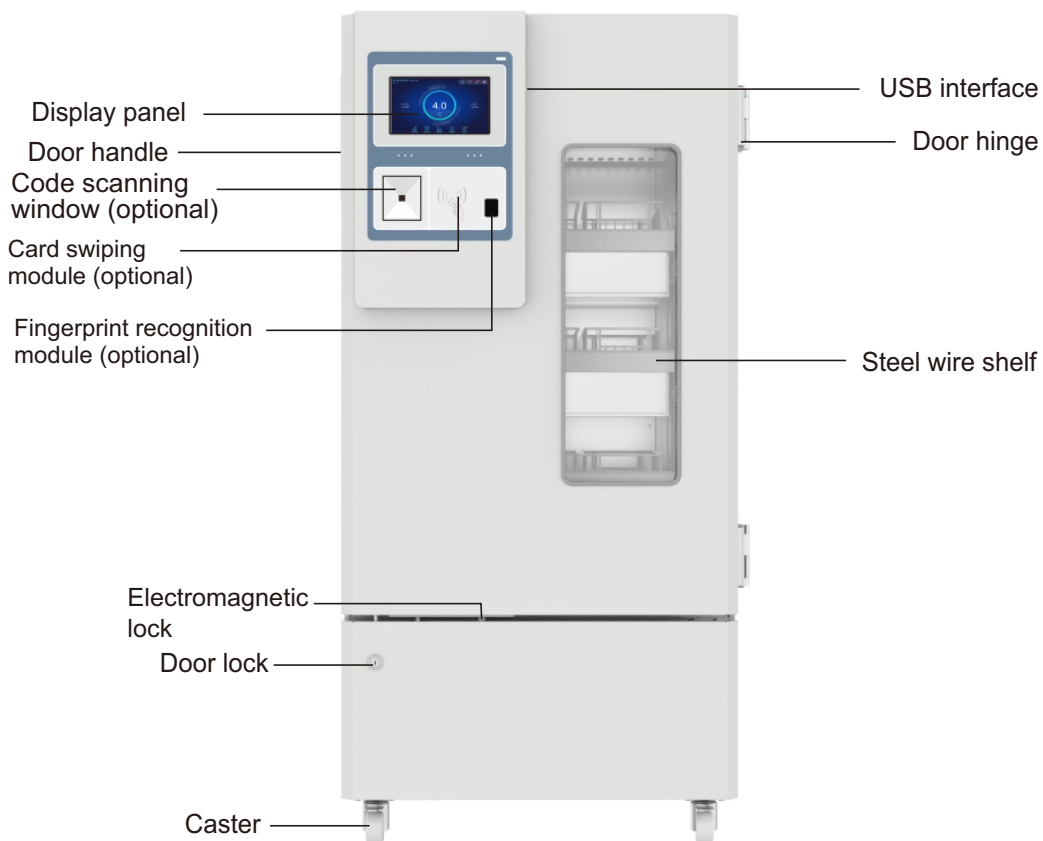
1. The equipment has a memory function for the set value. When the power is restored after a power failure, the equipment will continue to operate before power failure.
2. Once the equipment is powered off, it requires 5 minutes before it can be switched on again to avoid damaging the compressor.
3. We guarantee the normal operations of this equipment under certain conditions, but we are not responsible for any loss or damage of stored items after a power failure.



### Notes:

- ◆ A special person shall be responsible for checking and recording the running status of the equipment every day (record and check once every 2-4 hours). In case of failure or shutdown, the temperature in the storage chamber will rise. If it cannot be repaired in a short time, please take out the stored items and transfer them to a place that meets the temperature requirements for storage to avoid damage to the items.
- ◆ Before putting items into the equipment, it shall be confirmed in advance whether or not the temperature range of the equipment meets the temperature requirement of the items to avoid damage to stored items due to the difference between the settable temperature of the equipment and the required temperature of the items. Please pay attention not to block the air outlet and air inlet when putting items into the equipment.
- ◆ Due to the refrigeration inertia, there is a certain difference between the actual display temperature and the set temperature of the equipment, which is a normal phenomenon.
- ◆ The equipment is an item storage equipment, which cannot be used for routine production operations. It is strictly forbidden to put too many items which are relatively hot into the equipment at one time, otherwise the compressor will run for a long time, and be burned due to high temperature. Items must be put in batches to ensure that the storage chamber is cooled step by step until the temperature required for storing items is reached.
- ◆ Electrical appliances without a production license shall not be used inside the equipment.
- ◆ Do not change the set temperature frequently within a short time, otherwise the expected setting effect may not be achieved due to the large temperature inertia. Ensure that there is a certain air circulation space around the cabinet when putting in items, especially do not block the temperature sensor in the cabinet (for collecting the temperature of the cabinet), otherwise it will affect the stability and accurate control of the temperature in the refrigerator body!
- ◆ Items shall not be placed directly at the bottom of the refrigerator, but on the bottom shelf, otherwise the refrigeration effect of the equipment will be affected.
- ◆ When putting in items, if the moisture content of the items is too much or too little, it will affect the humidity change in the cabinet, so it is best to keep the items sealed; The humidity of the working environment will affect the change of humidity in the cabinet, especially if the door is opened too frequently and the door is not closed properly.





Schematic diagram model (for reference of Model BBR168-EU)

5.1 Due to the improvement of products and model difference, the actual products may be different from the diagram. Please refer to the actual products! The diagram is only used for functional parts description.

5.2 Structure and composition: the product consists of refrigerator body, door (glass door structure or foam door structure), refrigeration system and control system.

5.3 Intended purpose:

Blood bank refrigerator is intended for storing blood product, which is for transfusion use; it is applicable to blood stations, hospitals, epidemic prevention stations, research institutes etc.

5.4 Intended users:

Professionals of hospitals, epidemic prevention stations, research institutes, etc.

5.5 Medical Conditions:

Blood bank refrigerator is intended for storing blood and blood products. There is no specific medical conditions to be diagnosed, treated or monitored.

5.6 Indications:

Blood bank refrigerator is intended for storing blood and blood products. The Blood bank refrigerator has no specific indications.

5.7 Contra-indications:

N/A

5.8 Clinical Benefit:

The Blood Bank Refrigerator has the clinical benefit of enabling blood storage which guarantees the quality of blood for transfusion and brings a positive impact on public health. This is a type of indirect clinical benefit.

5.9 Intended Patient Population:

This product is intended only for the storage of blood products and does not involve patients.



## 11. Light key


The refrigerator for conserved blood is equipped with a 12 V LED light. Open the door, then the light is on. Without opening the door, the user can click on this key to turn on the light for viewing the inside.


## 6.2 Function Settings

### 1. Key settings

- 1) Switching display: when the key is not locked, press the Switch key, the digital tube displays the upper sensor temperature and the upper indicator is on; when the Switch key is pressed, the digital tube displays the lower sensor temperature and the lower indicator is on; it returns to the normal state to display the average temperature after 5 s without key operation.
- 2) View ambient temperature: in the key locked state, press Set/Mute key and the digital tube will display the ambient temperature and return to normal display after 5s without key operations or pressing the Upper Control button and Lower Control button. In the key unlock state, press Set/Mute key and digital tube displays ambient temperature and returns to normal display after 5s without key operations.
- 3) User parameter settings: when the key is unlocked, press and hold the Set/Mute key for 3 s, and the digital tube will display "PS1;" press the Upper Control key or Lower Control key to select the menu or adjust the parameters, press the Set/Mute key to switch the menu and corresponding parameters; after 60 s without key operations or 3 s of long press on the Set/Mute key, saving parameters will exit and the buzzer will sound once.
- 4) Alarm mute: when the alarm sounds, press the Set/Mute key to cancel this alarm sound and the alarm mute indicator will be on and the device will enter the state of View Ambient Temperature; when the alarm sound is canceled, press the Set/Mute key to resume the alarm sound, the alarm mute indicator will be off and the device will enter the state of View Ambient Temperature; when the key is unlocked, press the Set/Mute key to cancel or resume the alarm sound in the state of View Ambient Temperature.
- 5) USB data export: when the USB interface is connected to the USB flash drive, the buzzer of the recorder beeps once, the digital tube displays Upload Data Code "on" (when data volume is high) and PDF files of the data of the current month and the previous month are generated in the USB flash drive. After the data transmission is completed, the buzzer beeps once and the digital tube displays "End" and resumes to normal display after 6s.

Manual export: While in the key unlock state and when the USB flash drive is connected and the file is not being generated, press the up key for 3 seconds, and "d01" will appear in the display. Press the up key or down key to








adjust "d00~d12," and press  key to obtain the file generation (d00) or generate the PDF file of the record data for the previous months (1-12).(The temperature and humidity data recorded in the PDF file represent the average temperature and humidity inside the chamber."Invalid" indicates invalid data, a code error, a communication error with the data logging module, or that the sensor reading is out of range.)


 **Note:** when there is less data, the digital tube will not display "on" and "end."

### 2. Parameter settings


1) Power on and turn on the power switch on the right of the refrigerator body and the equipment will enter the working state;

2) User parameter settings:


Unlock: under normal operating state, simultaneously press  and  keys for 3s and the digital tube will display the parameter code "0000;" By pressing  to enter the password 0005 and holding  to unlock, then press  key for 3s, the digital tube will display the parameter code "PS" and enter the setting and adjustment parameters. Use  or  key to scroll the parameters;

Press  to confirm the parameter type and the first parameter name of this type of parameter will be displayed;


① Use  or  key to scroll the parameters;

② Press  key to display the corresponding parameter value;

③ Use  or  to increase or decrease the value;

④ Use  to temporarily store the modified values and return to the display parameters;

⑤ If other parameters are modified, repeat steps ① to ④;

3) Press  for more than 3s or press no key in 60s to exit the parameter setting program.

### 3.Parameter display

No.	Menu item	Parameter Range	Suggested settings	Remarks
1	MAX	—	—	The highest temperature since last clearance
2	MIN	—	—	The lowest temperature since last clearance
3	CLR	—	—	Clearance of the Max and Min temperature records
4	H	0. 0-10. 0	5. 0	Set value of high temperature alarm set+H; When H =0, High temp alarm is disabled; When the alarm is over high temp alarm set, H1 will be displayed on the controller
5	L	0. 0-10. 0	4. 0	Set value of low temperature alarm set-L; When L =0, Low temp alarm is disabled; When the alarm is below low temp alarm set, L1 will be displayed on the
6	Pt	0-240 min	20	Print interval
7	tH1	20.0-50. 0℃	50	Upper limit of ambient temperature alarm
8	P1	1. Automatic heating mode 1 2. Automatic heating mode 2 3. Automatic heating mode 31 4. Always on 5. Always off	1.(Set to 4 when the door is with condensation) (Set to 1 when the door is a glass door) (Set to 5 when the door is a foaming door)	Mode 1: It shall be judged as once after the door is opened and closed once and heated for 5min (time setting). If the door is opened and closed again during the heating period, the heating time will be updated again; Mode 2: When the compressor runs, Heater is on; When the compressor stops, the heater Will automatically off after one min Mode 3: When the humidity in the cabinet is more than 80%, the door heating is on, and when the humidity in the cabinet is moderately less than 60%, the door heating is off; Mode 4: Door heating is always on; Mode 5: Door heating is always off.
9	Ps1	0000-9999	5	User menu password settings
10	bi	-	-	Hardware version
11	b2	-	-	Software version

Quick setting of time after power on

After the power-on self-test on the display board is completed, the quick setting menu is displayed.

Menu item	Menu	Menu description	Set range	Default	Unit
Quick Settings menu	n	Set logger module time - year	10~50		/
	y	Set logger module time - month	1~12	--	/
	r	Set logger module time - day	01~31	--	/
	S	Set logger module time - hour	00~23	--	/
	F	Set logger module time - minute	00~59	--	/
	Pt	Print interval	0~240	20	min
	SCY	Temperature data recording period	0~240 0: shielded recorder	10	min

If there is no operation for 60 seconds under the quick setting menu, it will automatically exit the quick setting menu and return to normal display.


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#### 4. Alarm display


Alarm Code	Default Description
H1	High temperature alarm
L1	Low temperature alarm
H2	High ambient temperature alarm
H3	High condenser temperature alarm
do	Door opening alarm
PF	Power failure alarm
BL	Low battery alarm
Er	The recorder is not connected
Pr	The recorder is not started
E1~E6	Sensor(NTC) failure





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f.  User status icon. After the user logs in, the last word of the user name will be displayed. Click the icon when you do not log in, it will jump to the login page. Click the icon after you log in, a shortcut menu will pop up where you can view the user information, modify the password, log out, set the fingerprint (optional), set the card wiping (optional), set the face login (optional), etc. The initial user name is user001 and the initial password is 123456. You need to change the password when logging in for the first time.


g.  Electric control lock icon. Click the icon to open the electric control lock. Before opening the equipment door, you need to open the electric control lock (Note:Login required to unlock) ;


h.  Light on/off button;

i.  Access Manage Access management entry. Click to enter the access management interface where you can conduct access management for the items in the blood bank refrigerator. You need to log in before entering this function interface;

j.  Data View Data view for checking Data view entry. Click to enter the data view page where you can view historical equipment running data and operation data. You do not need to log in before entering this function interface;

k.  Data Curve Data curve entry. Click to enter the data curve viewing interface where you can view the historical temperature curves in the cabinet. You do not need to log in before entering this function interface;

l.  Setting Manage Setting management entry. Click to enter the setting management interface where you can set various parameters or functions of the equipment. You need to log in before entering this function interface;

m.  Message Board Message board entry. Click to enter the message board interface where you can post messages and view messages. If there are unread messages, the corner mark in the upper-right corner will show the number. You need to log in before entering this function interface.

## 6.2 Alarm Management

Num	Alarm Content	Alarm Time	Release Time	Check Time	Operate
1	Door Open Long Alarm	2019-08-17 13:32:00			
2	Condenser Sensor Fault	2019-08-17 13:32:00			
3	Low Power	2019-08-17 13:32:00			

a. Alarm management. You can view the alarm contents, the alarm occurrence time, the release time, and the alarm time. Click the screen button in the upper-left corner to filter the alarm time by date;

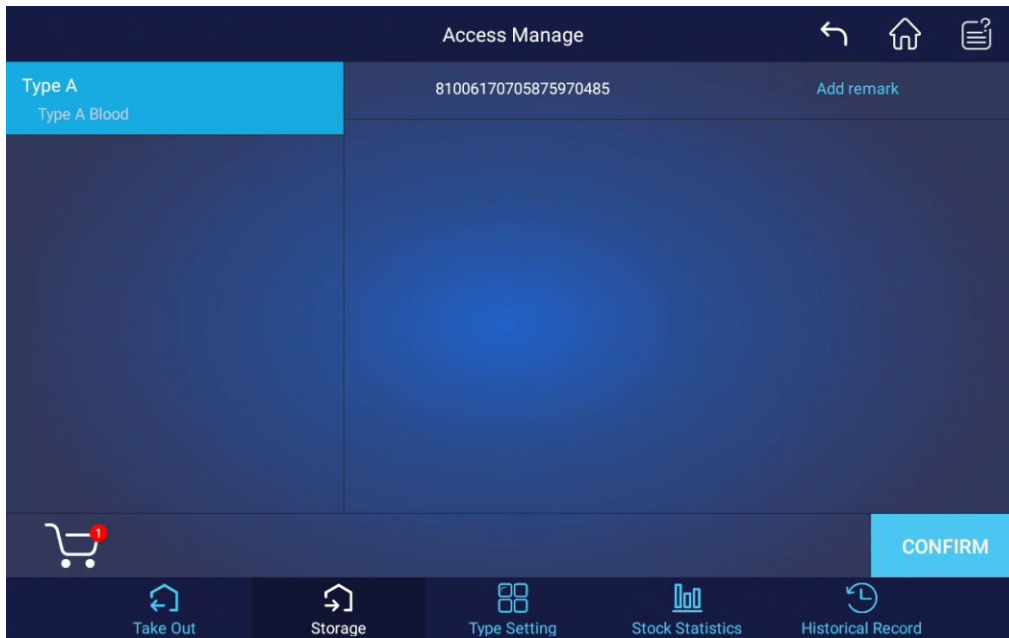
b. Click the button to identify that the alarm entry has been viewed;

c. Click the button to return to the previous interface, click the button to return to the main interface, and click the button to pop up the help information;

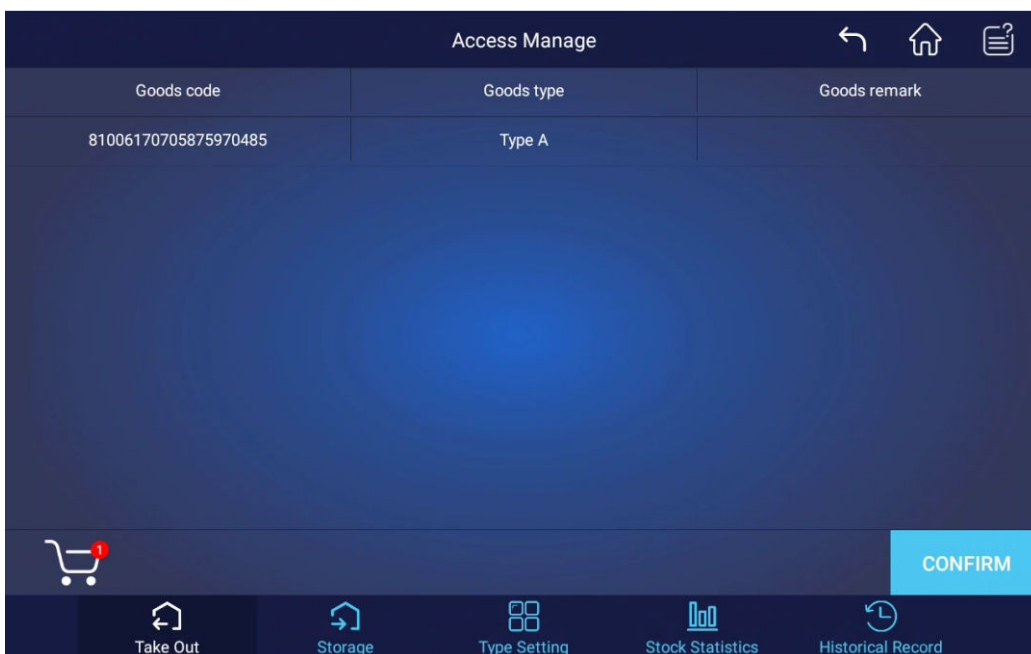
**d. The alarm functions of this equipment are as follows:**

Alarm items	Alarm description
Communication failure with the mainboard	When the transmission signal between the display screen and the main control board is interrupted, a communication failure alarm will be triggered.
Alarm for the door being open for a long time	When the door has been open for more than 1 minute
Ambient temperature sensor failure	When the ambient temperature sensor fails
Condenser sensor failure	When the condenser sensor fails
Sensor failure	Sensor failure
High temperature alarm	The temperature is higher than the set temperature for the high-temperature alarm.
Low temperature alarm	The temperature is lower than the set temperature for the high-temperature alarm.
Alarm for high condenser temperature	When the condenser temperature is too high due to the condenser filter screen blockage or high ambient temperature
Alarm for high ambient temperature	When the ambient temperature is too high
Low battery	When the battery is too low
Battery power detection failure	Battery power detection failure
Power failure	When the main power supply fails

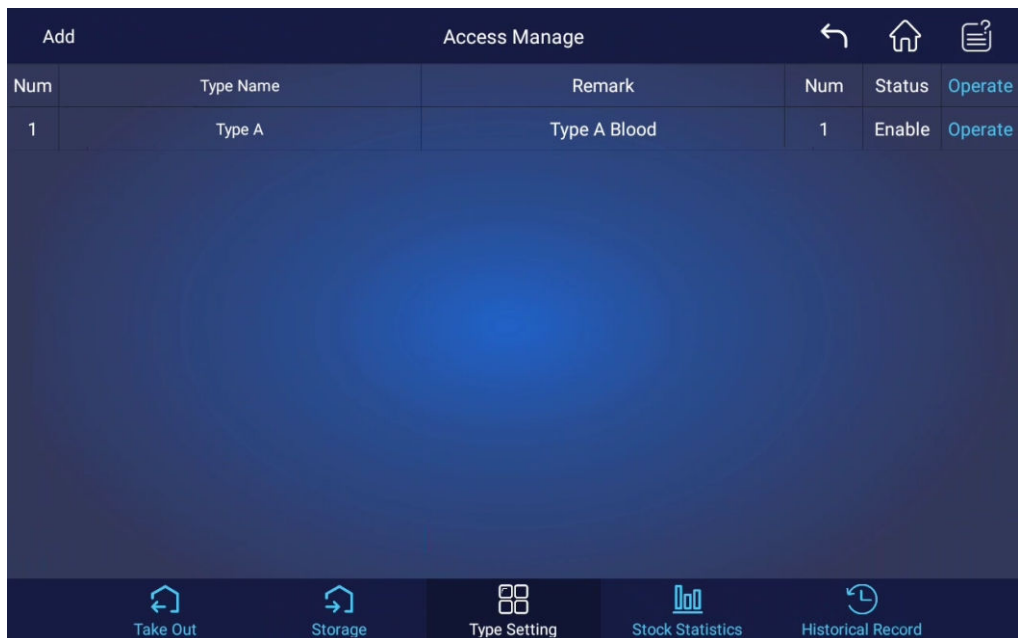
### 6.3 Access management



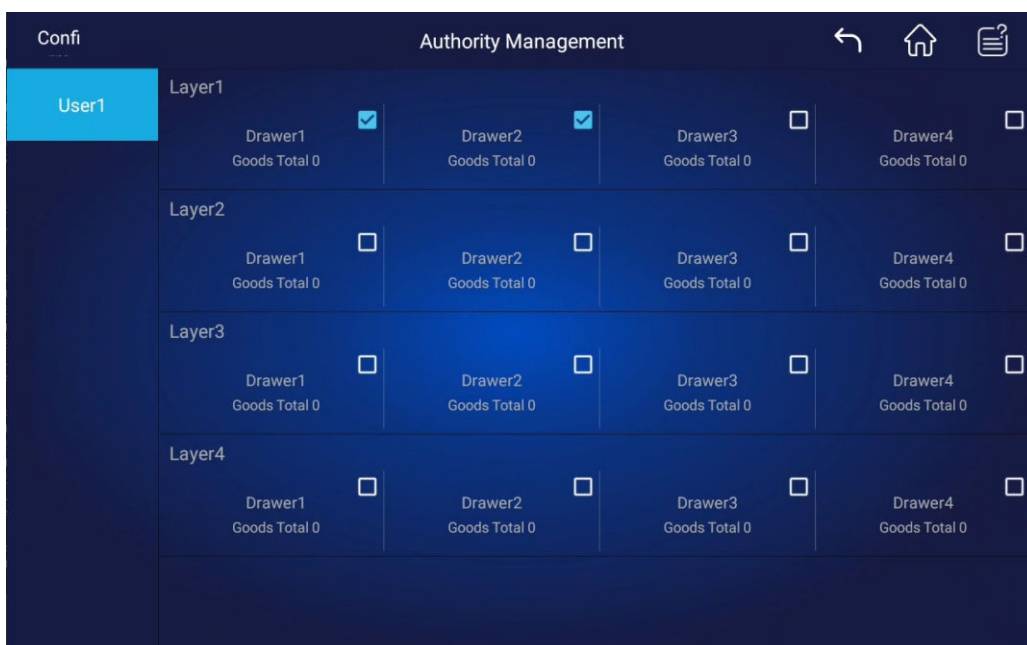
a. Scan the item's QR code or 2D code, if the item is in the current inventory, the item information will be displayed, click to confirm to remove the item from the inventory, slide the item left to cancel the outgoing inventory;



b. On the storage management page, select the category first, then scan the item's 1D code or 2D code, then click the OK button to store the item, click the Add Note button for the item to add a note for each item, and slide the item left to cancel the storage.



c. Click on the history record to view the history of access records; accounts with administrator rights can enter the rights management interface, select the user and then select the drawer to be empowered, and then click on the OK button in the upper left corner, the arrow below the prompt that completes the empowerment.



d. On the type settings page, click the Add button in the upper left corner to add a new type, and click the Action button to the right of the type entry to edit the type.

Num	Code	Type Setting	Operator	Time	Operate
1	81006170705875970485	Type A	User1	2022-03-13 21:28:46	Store

e. Inventory statistics page, showing all items in the current inventory, slide down to refresh;


Num	Goods Name	Num	Operator	Operate Time	Operate Type	Storage Location
1	Type H	2	User1	2022-03-13 22:08:03	Store	Layer1/Drawer1

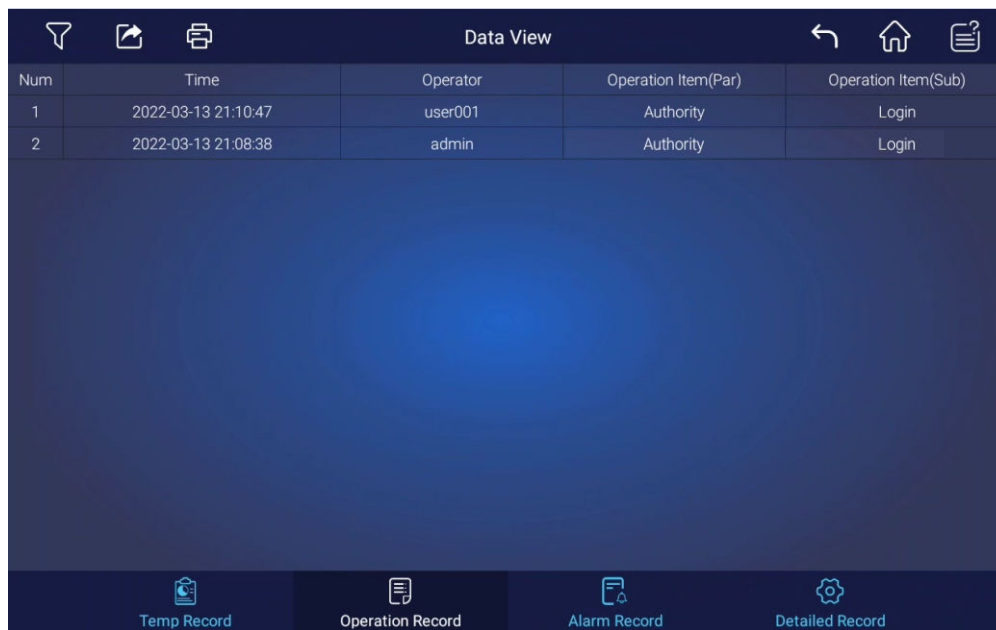
f. History, the page can view the historical access records, click the filter button in the upper left corner, you can filter by date.

## 6.4 Data View




Num	Time	Internal Temp	Ambient Temp	Condenser Temp
1	2022-03-13 21:08:56	26.6°C	27.8°C	Fault
2	2022-03-13 21:08:31	26.6°C	27.8°C	Fault

a. Data records page, for viewing historical running data. Click the filter button  in the upper-left corner to filter records by date;



Num	Time	Operator	Operation Item(Par)	Operation Item(Sub)
1	2022-03-13 21:10:47	user001	Authority	Login
2	2022-03-13 21:08:38	admin	Authority	Login

b. Operation records interface. You can view historical operation records, and click the  filter button to filter records by date. The types of operation records are: login, logout, the addition of users, modification of users, export, temperature setting, alarm setting, unlock, printing, opening the door, closing the door;

Num	Alarm Content	Alarm Time	Release Time
1	Door Opening Timeout	2022-03-13 21:08:31	
2	Internal High Temp Alarm	2022-03-13 21:08:31	
3	Condenser Sensor Fault	2022-03-13 21:08:31	
4	Defrost Sensor Fault	2022-03-13 21:08:31	
5	Control Sensor Fault	2022-03-13 21:08:31	
6	Lower Part Sensor Fault	2022-03-13 21:08:31	
7	Low Power Alarm	2022-03-13 21:08:31	


c. Alarm records interface, for viewing historical alarm records;

Range Choose 2022-3 Clear

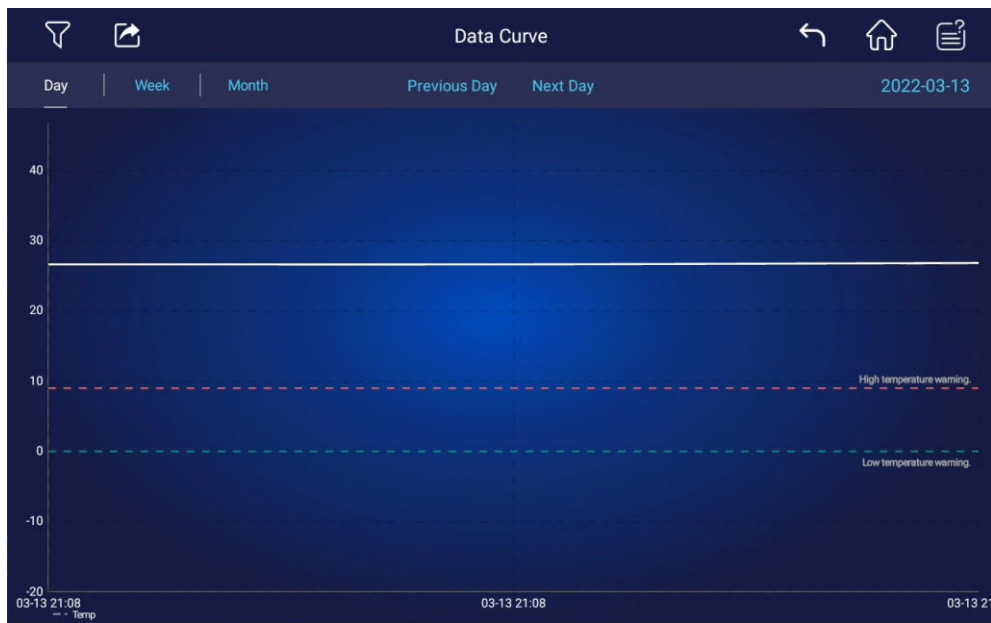
Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Thu 2022-3-10 | Sun 2022-3-13

CONFIRM

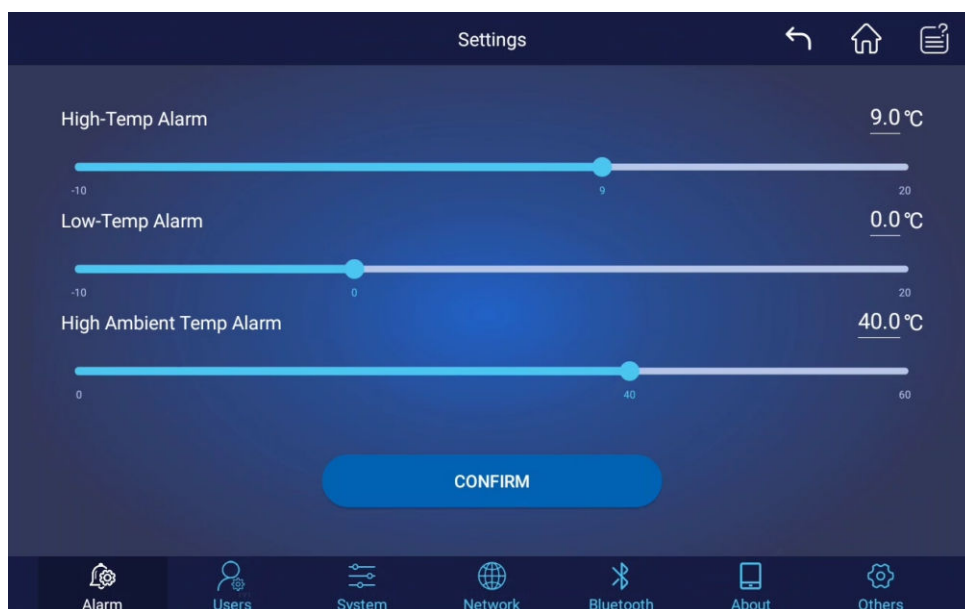
d. Click the  export button to pop up the export range selection dialog box. Select the export start date and the export end date by date, and click the OK button to export a data file in Excel format (\*.xls) to the USB flash drive;

## 6.5 Data Curve

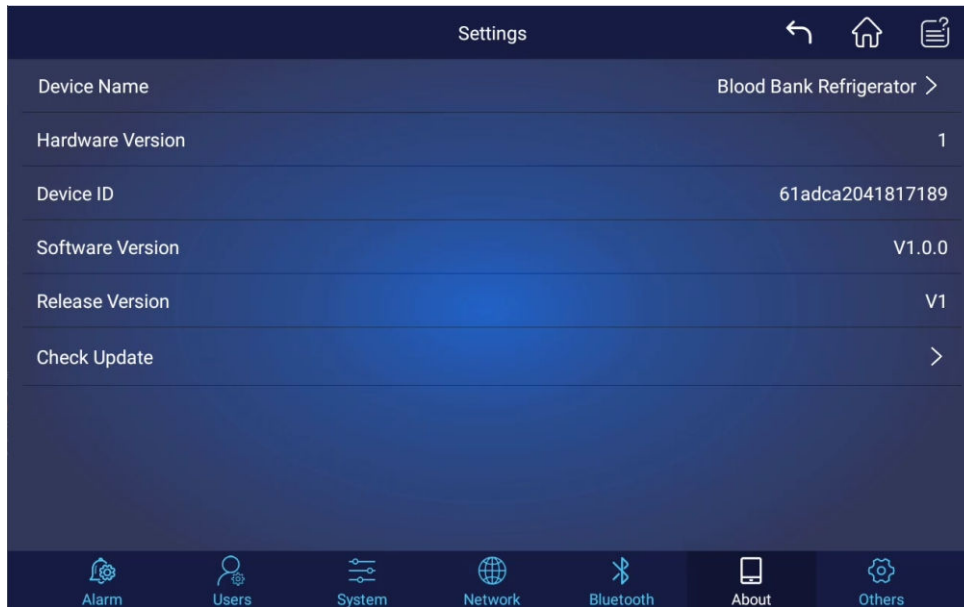


- Click on the day/week/month tab to view the curve graph of the corresponding tab;
- Click the previous day/next day tab to switch to the curve graph corresponding to the date;
- Click the filter button in the upper-left corner to jump to the curve graph of the corresponding date;
- Click the export button in the upper-left corner to export the curve figure to the USB flash drive;
- Pinch-to-zoom to zoom in/out the curve graph, and slide with a single finger to view detailed temperature value.

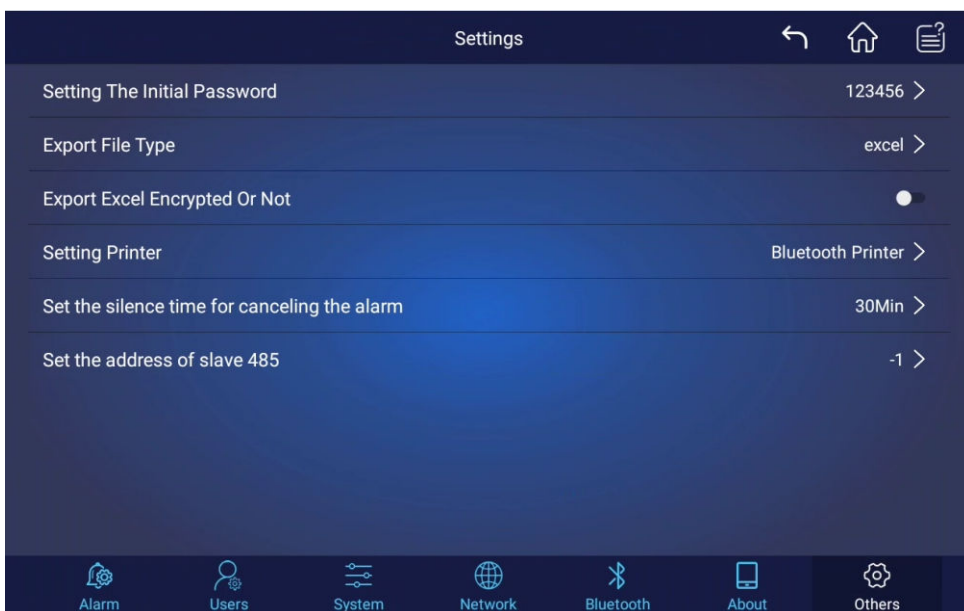
## 6.6 Settings



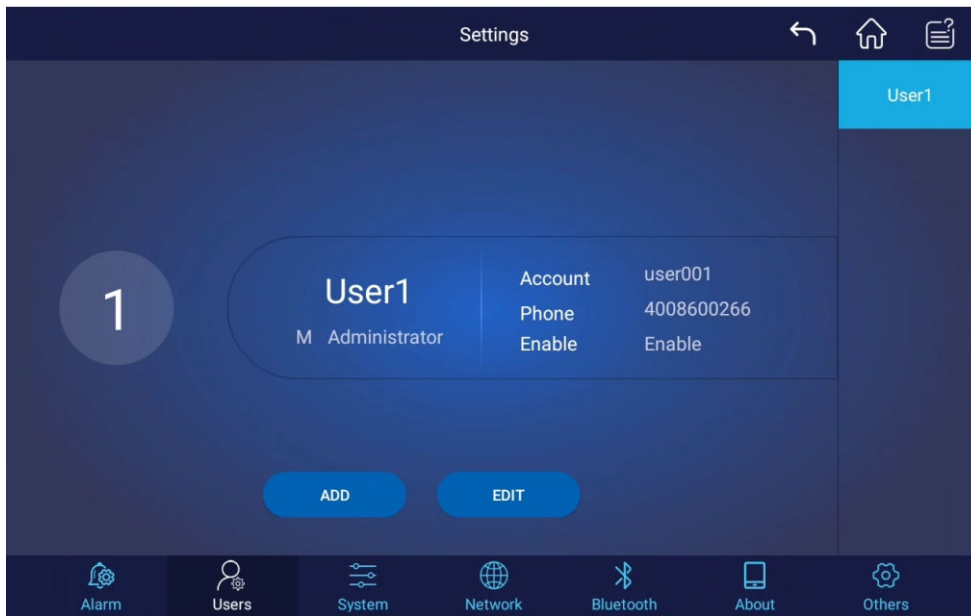
- Alarm setting. You can slide on the slider or click the value to set the high-temperature alarm value, the low-temperature alarm value, the high ambient temperature alarm value;



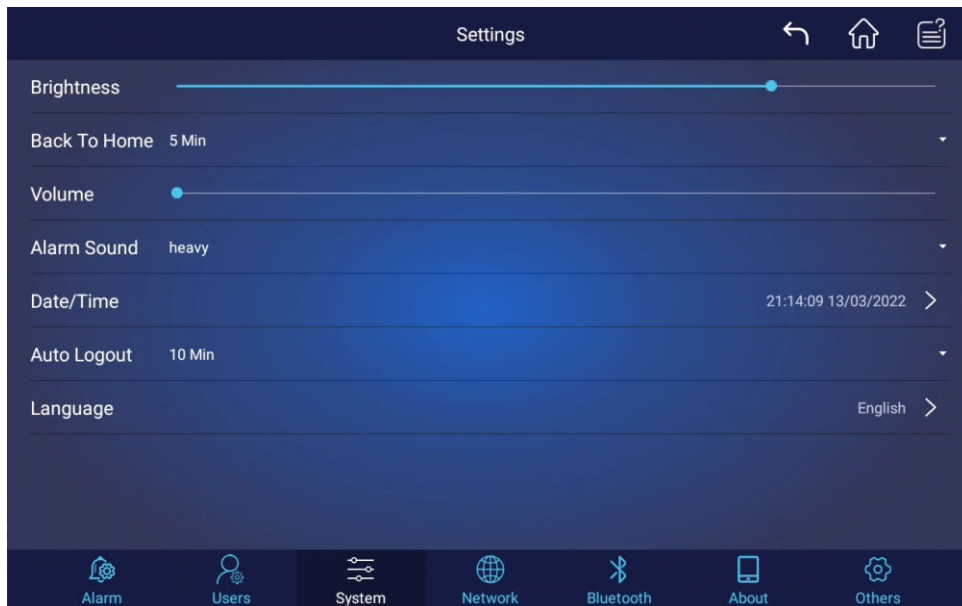
d. Machine information. This page displays the current machine model, the software version, and the hardware version. If the machine has been connected to the Internet, you can click the Check update button on this page to check the software update. If a newer version exists, you can choose to download and install the newer version;



e. Other settings. Only the administrator has the authority to view the page. Can set the new user login initial password, export file type selection, export Excel file encryption, Excel encryption password, cancel the alarm silence time, 485 slave address (485 slave is not enabled by default, to enable this function, you need to set the slave address greater than 0) and so on.

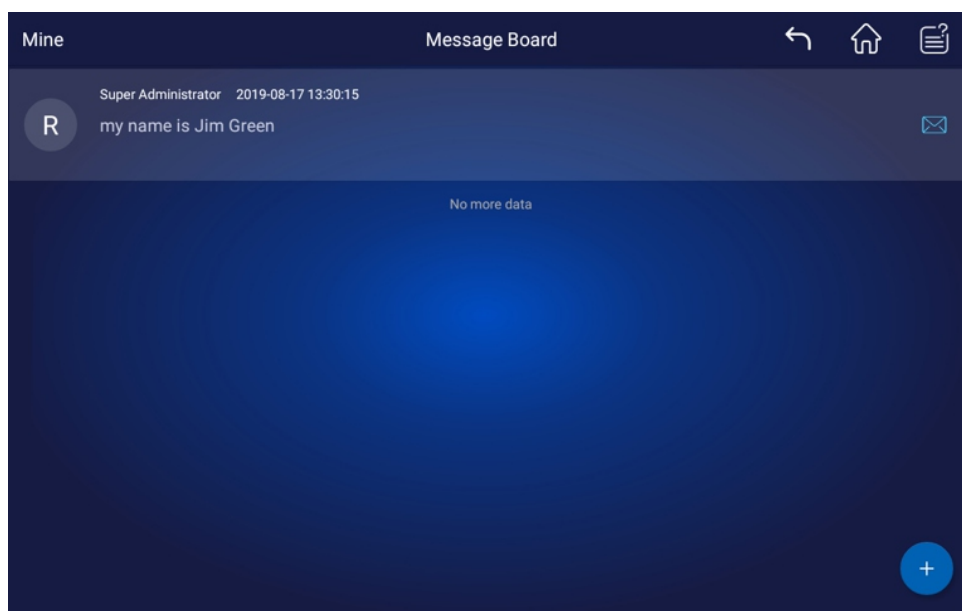



b. User management. The administrator can add or modify users. The user created by the administrator is an ordinary user (ordinary users do not have the authority to add/modify contents). Click Reset password to reset the user's login password. The initial password is 123456.



c. System settings. You can adjust the equipment brightness, the time for the display screen to automatically go off when there is no operation, the time for the display screen to automatically return to the main interface when there is no operation, the volume, the alarm sound (the changed alarm sound will take effect after the display screen returns to the main interface), the date and time, the automatic user logout time, and the language;

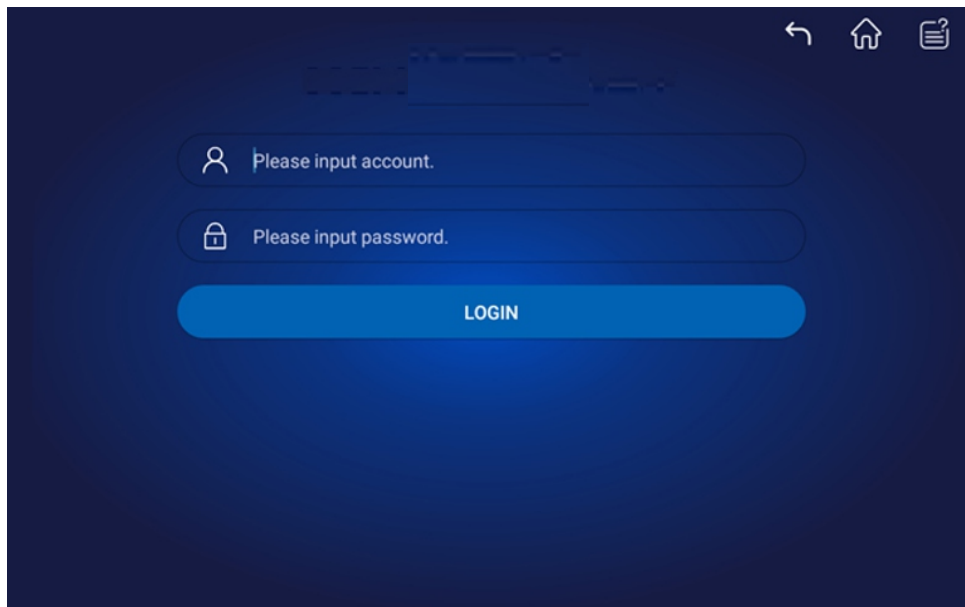
## 6.7 Message Board



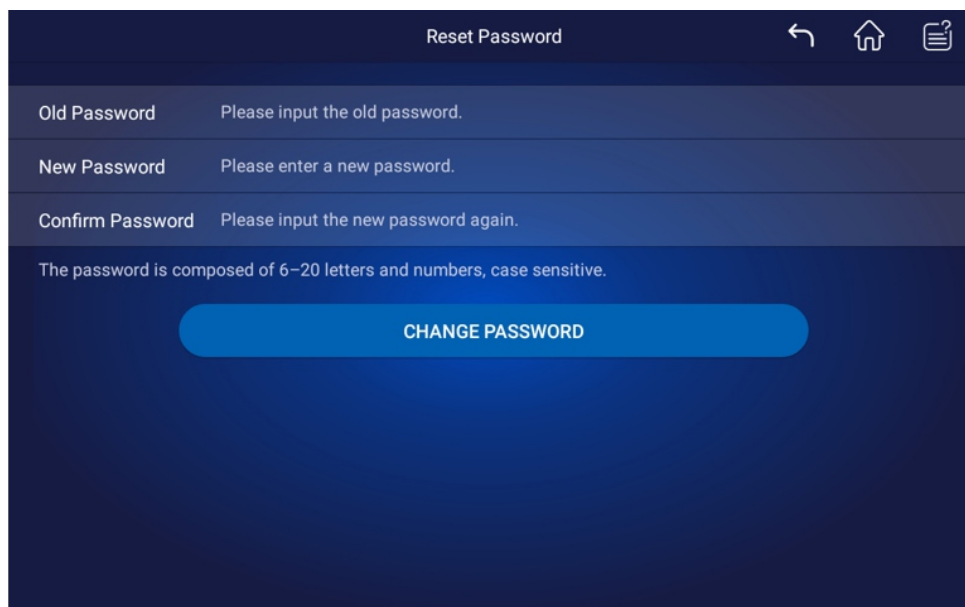
- a. Click the add button in the lower-right corner to pop up a message posting dialog box. You can choose to be open to all or specified users. Open to all means that all users can view the message, and Open to specific users means that the message can only be viewed by the specified users;
- b. Click the  button to identify that the message entry has been viewed;
- c. Click My/All in the upper-left corner to switch between my and all messages;
- d. Press and hold the message entry and slide to the left. The delete button will appear on the right side of the message. You can choose to delete the message.

## 6.8 Login

### a. Login with account number and password



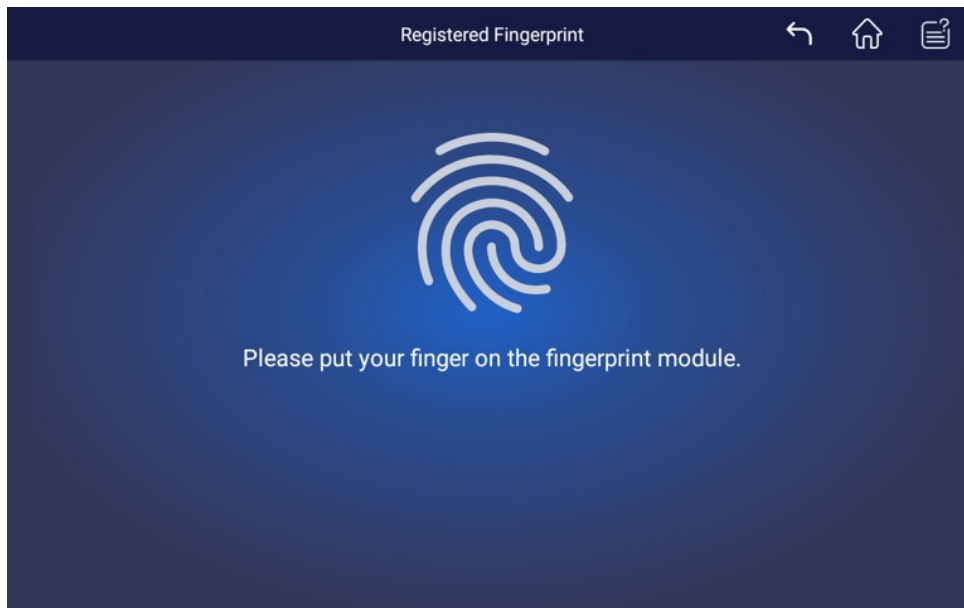
The login screen features a dark blue background with a white navigation bar at the top containing a back arrow, a home icon, and a document icon. Below the navigation bar, there are two input fields: the first is labeled 'Please input account.' with a person icon, and the second is labeled 'Please input password.' with a lock icon. A prominent blue button labeled 'LOGIN' is centered below the input fields.



The 'Reset Password' screen has a dark blue background and a white navigation bar at the top with a back arrow, a home icon, and a document icon. The title 'Reset Password' is centered at the top. Below the title, there are three input fields: 'Old Password' with the prompt 'Please input the old password.', 'New Password' with 'Please enter a new password.', and 'Confirm Password' with 'Please input the new password again.'. Below these fields, a note states: 'The password is composed of 6–20 letters and numbers, case sensitive.'. A blue button labeled 'CHANGE PASSWORD' is centered at the bottom.

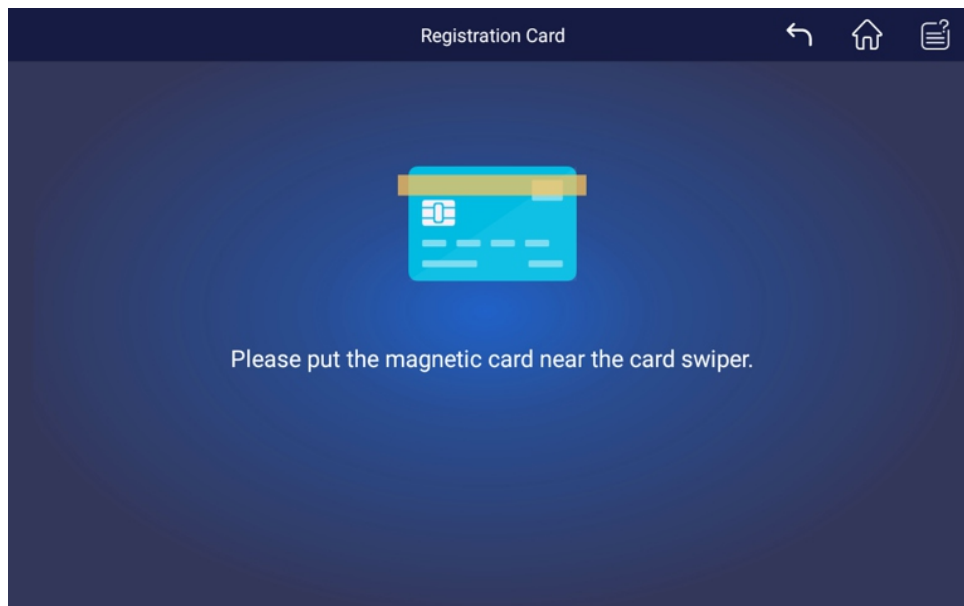
Enter the correct account number and password to log in. The default password for new users is 123456. You will be asked to change the password when logging in for the first time. The administrator can change the default password for new users in Settings -> Other settings -> Set the initial password.

b.Login with fingerprint (optional)



After the user logs in, enter the fingerprint registration interface from the menu on the right side of the homepage. Once a fingerprint is successfully registered, you can log in with the fingerprint (To log in with the fingerprint, you need to jump to the login page);

c. Login with card (optional)



After the user logs in, enter the card registration interface from the menu on the right side of the homepage. Once a IC or ID card is successfully registered, you can log in with the IC or ID card (To log in with the card, you need to jump to the login page);













Production Date: See nameplate on the refrigerator body  
Prepared in: March 2026 Version:V



Shanghai International Holding Corp. GmbH (Europe)  
Eiffestrasse 80, 20537 Hamburg, Germany

