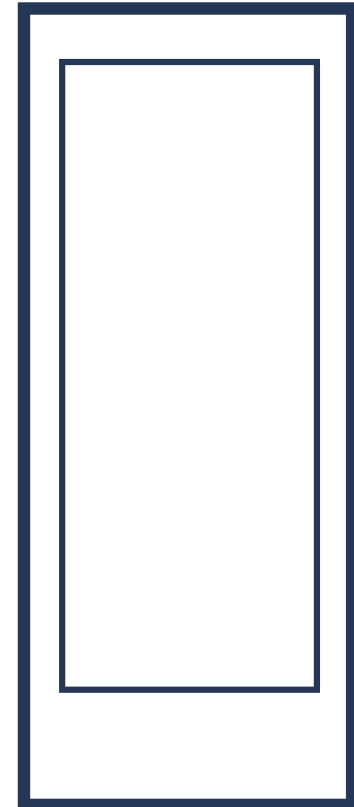


Vacc-Safe ^{EN}

USER MANUAL

Combined Refrigerator & Freezer

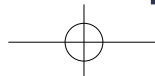
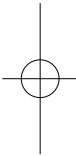
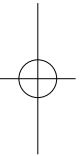


Warning:

Before using this product, please read this manual carefully and keep it for future reference. The design and specifications are subject to change without prior notice for product improvement. Consult with your dealer or manufacturer for details.

version:001-5-2022

Model: VSC350P



Contents

Safety warnings -----	1
Product Characteristics -----	3
Safety Precautions -----	4
Precautions for Use -----	7
Product Installation -----	8
Product Components and Overview -----	11
User manual -----	12
Fault Alarm Codes -----	14
Maintenance -----	17
Troubleshooting and Repair Service -----	18
Specification -----	19
Packing List -----	20
Electrical Schematic Diagram -----	20

Safety warnings



Warning: Flammable refrigerant is adopted for the product.

- ❗ **WARNING:** The packaging base at the bottom of this series of products must be removed before use.
- ❗ **WARNING:** When moving this series of products, take care that the bottom foot does not touch the power cord.
- ❗ **WARNING:** The bottom front wheel brake of this series of products need to be locked after moving to the designated position.
- ❗ **WARNING:** This series of products need to be left to stand for 12 hours before initial power-up.
- ❗ **WARNING:** When this series of products are just connected to the power supply, do not immediately put the items in to it. After running for a period of time, when the temperature inside the Pharmacy Refrigerator drops to the set temperature, then put the items in batches.
- ❗ **Note:** A single batch of items put into the Pharmacy Refrigerator can not exceed 1/4 of the volume.
- ❗ **WARNING:** Keep all ventilation openings in the enclosure or, in the structure for building-in, clear of obstruction.
- ❗ **WARNING:** Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
- ❗ **WARNING:** Do not damage the refrigerant circuit.
- ❗ For equipment that use flammable insulation blowing gases, the instructions shall include information regarding disposal of the equipment.
- ❗ Refrigerant and cyclopentane foaming material used for the appliance are flammable. Therefore, when the appliance is scrapped, it shall be kept away from any fire source and be recovered by a special recovering company with corresponding a qualification other than being disposed of by combustion, so as to prevent damage to the environment or any other harm.
- ❗ **IMPORTANT:**
Flammable gas and refrigerant used. It is the consumer's responsibility to comply with Federal and Local regulations when disposing of this product. Suggestion: Cut off the pipeline and drain the refrigerant without any open fire around.



The product with the symbol reads "warning terms".



The product with this symbol reads "prevent fire, stay away from fire sources".

CYCLOPENTANE

The product with this symbol reads "cyclopentane blowing".

- Power supply voltage: This series of products use 220V-240V/50Hz AC power supply, if the use of voltage lower than 198V or higher than 264V, need to add a suitable automatic voltage regulator with the use.
- Use of this series of products requires a low-voltage air circuit breaker and earth leakage protection device for the power supply.
- A special power socket must be used and reliable grounding must be carried out, and the length of the power line must not be arbitrarily extended. If extensions are required, copper-core conductors with a cross-sectional area of 2.5mm² or more must be used, and copper-core conductors in the wall connected to the power socket must also have a cross-sectional area of 4mm² or more.
- This series of products are strictly prohibited to put into flammable, explosive dangerous goods and strong corrosive acid, alkali and other items.
- The keys of this series of products need to be properly stored to avoid accidents when children get them and open the door to play.
- Do not connect the zero wire (N terminal) and the ground wire (E terminal) of the power socket together, otherwise it can cause the shell of this series of products to be charged and an electric shock accident can occur.
- The power cord cannot be bundled and used, cannot be pressed under heavy objects, and cannot be close to heat sources such as compressors.

Product Characteristics

This product is mainly used by hospitals, epidemic prevention stations, universities, scientific research institutes and electronic chemical industry, and other enterprises to preserve human detection samples, drugs, vaccines, and reagents.

Product Functions

Accurate Temperature Control Data Traceability

- Temperature uniformity in the refrigerator is $\leq 2^{\circ}\text{C}$, with an adjustable temperature range of $2\sim 8^{\circ}\text{C}$, and accurate temperature control.
- Temperature uniformity in the freezer chamber is $\leq 3^{\circ}\text{C}$, with an adjustable temperature range of $-10\sim -25^{\circ}\text{C}$, and accurate temperature control.
- It is equipped with USB interface as standard, the temperature data can be traced, and the test data and the temperature curve of the chamber can be output at any time.

Efficient Refrigeration Energy Efficient and Low Noise

- Midea's unique Air curtain TOP cooling technology ensures that the temperature difference in the chamber is within $\pm 2^{\circ}\text{C}$
- International famous brand compressor ensures energy saving, environmental protection, high efficiency and low noise equipment
- DC turbo fan for refrigeration, with stable and long-lasting performance and low noise, ensures more uniform and stable temperature in the chamber and more efficient cooling rate
- Unique Build-in air duct and air curtain technology in the industry

Multiple Alarms Safety and Stability

- Perfect acoustic and optical alarm function, allowing high- and low-temperature alarms, power off alarm, sensor fault alarm, door-opening alarm, low battery alarm, ambient temperature alarm, and remote alarm, with alarm values adjustable on demand
- Safety door lock design to ensure the safety of samples in the chamber

Ergonomics Design

- Multi-layer shelf design with adjustable height, maximizing space utilization
- Built-in LED lamp, highly bright and energy-saving, clearly visible inside the chamber
- $198\sim 242\text{V}$ wide voltage design to ensure stable equipment operation

Safety Precautions

Dear Vacc-Safe users,

We appreciate your trust. Thank you for using our Vacc-Safe Medical combined refrigerator & freezer. Please carefully read the following information to better understand the User manual and use this product, so as to prevent personal injury and damage to items.



Ignoring WARNING items may result in serious casualties.



Acts or operations that must be prohibited



Ignoring NOTE items may result in casualties or damage to the combined refrigerator & freezer and related properties.



Actions or operations that must be followed



The content with the symbol on the product is "fire prevention, keep away from fire source".



The content with the symbol on the product is "prevent pinching".



Please use a power socket with a grounding wire to prevent electric shock. If the power socket is not grounded, the grounding wire must be installed by professional technicians.



Be sure to place the combined refrigerator & freezer firmly on solid and flat ground. If the ground is not level or the combined refrigerator & freezer is placed in an improper location, it may fall down and cause injuries.



If the power cord needs to be extended, the cross-sectional area of the extension cord shall not be less than 2 mm² and the length shall not be longer than 3m. Otherwise, it may cause fire or electric shock.



In case of leakage of flammable gases such as coal gas, the gas leakage valve shall be closed, and the doors and windows shall be opened for ventilation. No electrical switch shall be turned on, and the power supply plug of the refrigerator shall not be plugged or unplugged.



Only professional technicians or after-sales maintenance personnel can disassemble and assemble the combined refrigerator & freezer. Otherwise, a fire may be caused.

















Please use the special power supply indicated on the nameplate of the combined refrigerator & freezer, otherwise fire or electric shock may be caused.









If the service voltage is lower than 198V or higher than 242V, an automatic voltage regulator with 4,000W or more suitable for motor load shall be equipped.














The power cord of this combined refrigerator & freezer is equipped with a three-prong (grounded) plug to mate with a standard three-prong (grounded) socket of 10A.

-  Do not cut or remove the grounding pin of the power cord under any circumstances. Make sure that the power plug and the socket are connected firmly and reliably, otherwise, it may cause a fire.
-  When the plug is removed from the power socket, it shall be held tightly, and the wire of the plug shall not be pulled. If the wire is pulled, electric shock or fire due to a short circuit may be caused.
-  If the combined refrigerator & freezer is not operating properly, disengage the power plug. Continued operation under abnormal conditions may cause electric shock or fire.
-  Before any repair or maintenance is carried out on the combined refrigerator & freezer, be sure to disconnect the power supply of the combined refrigerator & freezer to prevent electric shock or personal injury.
-  Make sure that the drugs or suspended particles inside and around the combined refrigerator & freezer will not be inhaled during repairs and maintenance, as they may be harmful to health.
-  Please use the combined refrigerator & freezer in a safe area When storing toxic, harmful, or radioactive substances. Improper use may cause harm to health or the environment.
-  Disengage the power plug when the combined refrigerator & freezer is not in use for a long period, so as to prevent electric shock, electric leakage, or fire due to the deterioration of the power cord.
-  If the combined refrigerator & freezer is to be stored unused in an unattended area for a long period, ensure that children do not have access to the combined refrigerator & freezer. The disposal of the combined refrigerator & freezer shall be accomplished by the appropriate personnel. Doors shall be removed to prevent accidents such as suffocation.
-  Never store flammable, explosive, or volatile it in the combined refrigerator & freezer or use flammable sprays near the combined refrigerator & freezer, otherwise, it may cause an explosion or fire.
-  Never store corrosive substances such as acids or alkalis in the combined refrigerator & freezer. Otherwise, those substances may cause damage to internal components or electrical parts of the combined refrigerator & freezer.
-  Do not leave the plastic packing bags in a place accessible to children as this may result in suffocation accidents.
-  Do not climb on the combined refrigerator & freezer or put any objects on the combined refrigerator & freezer, otherwise the combined refrigerator & freezer may fall and cause injuries or damage to the combined refrigerator & freezer.
-  Do not use the combined refrigerator & freezer outdoors. Exposing the combined refrigerator & freezer to rain may cause an electric leakage or electric shock.
-  Do not place the combined refrigerator & freezer in a humid site or a place where the combined refrigerator & freezer is easy to be splashed with water. Otherwise, electric leakage or electric shock will be caused due to degradation of insulation.

-  Do not pour water directly onto the combined refrigerator & freezer, otherwise, it may cause an electric shock or a short circuit.
-  The user must not disassemble, repair, or modify the combined refrigerator & freezer. Otherwise, it may cause fire or personal injury due to improper operation.
-  Do not ground the combined refrigerator & freezer through the coal gas pipe, power supply pipe, telephone line or lightning rod. The above grounding may cause electric shock or other hazards.
-  Do not touch any electrical parts such as the power plug or operate any switch with a wet hand, otherwise, it may cause an electric shock.
-  Do not put a container with water or heavy objects on the combined refrigerator & freezer. Falling objects may cause personal injuries, and spilled water may cause degradation of insulation, resulting in an electric leakage or electric shock.
-  Never insert metal objects such as iron nails and iron wires into any vent, gap, or air outlet of the combined refrigerator & freezer, as this may cause electric shocks or injuries by accidental contact of these objects with moving parts.

 CAUTION

-  Keep the ULT freezer clear of obstruction around it to ensure smooth ventilation.
-  The combined refrigerator & freezer settings shall be checked when the combined refrigerator & freezer is restarted after a power failure or shutdown.
-  Changes in settings may deteriorate the stored items.
-  Once the power is cut off, the combined refrigerator & freezer shall stay for more than five minutes before re-power-on, so as to avoid damage to the compressor or the system.
-  Gloves shall be worn during maintenance to avoid touching sharp edges or corners and causing injuries to personnel.
-  Hold the handle to close the chamber door, so that the door does not pinch fingers.
-  When handling or moving the combined refrigerator & freezer, the tilt angle shall not be more than 45°.
-  Be careful not to trip over the combined refrigerator & freezer when handling it to prevent damage to the combined refrigerator & freezer or injury to personnel.
-  Do not use the door handle to lift or carry the equipment to prevent damage to the combined refrigerator & freezer or injury to personnel.
-  Do not damage the refrigeration circuit.
-  Do not use appliances in the storage chamber of the combined refrigerator & freezer except for those recommended by the manufacturer.

Precautions for Use

- ★ Before putting items into the equipment, confirm that the temperature in the storage chamber has reached the set temperature, and then put the items in batches. Do not put in items for more than 1/3 of the volume of the chamber at a time to prevent its temperature from rising too much.
- ★ The equipment temperature display is the temperature at the temperature sensor in the storage chamber. When the equipment is initially running, the displayed temperature is somewhat different from the actual temperature at the center of the equipment. However, as the equipment enters a stable state, the displayed temperature will gradually approach the actual temperature.
- ★ The equipment chamber is designed with a testing hole so that the test line inside the chamber can be led out for test. After leading out the test lead, make sure to re-plug the testing hole with insulation material. Otherwise, the temperature inside the chamber may not reach the temperature setting and cause condensation around the outside of the through-hole.
- ★ Please use diluted neutral cleaner to clean the equipment. Do not use brushes, acid, gasoline, soap powder, polish or hot water to clean this equipment, otherwise it may damage the painted surface and plastic rubber parts. Special care must be taken not to use volatile solvents such as gasoline to wipe plastic and rubber parts.
- ★ Cut off the power when the equipment is not used for a long time, and turn off the battery at the same time.
- ★ Try to reduce the opening time of the door for every storage and retrieval of items to avoid large fluctuations in temperature and humidity inside the chamber.
- ★ After the door is opened, the temperature inside the chamber will rise sharply for a short time, which is normal, and will recover within one hour after the door is closed.

Product Installation

Installation Environment

- ★ The indoor use pollution level of the combined refrigerator & freezer shall be level 2, and the overvoltage shall be class II.
- ★ Ambient temperature: 16°C to 32°C, recommended temperature 18°C to 25°C. Air-conditioning shall be used if necessary.
- ★ Ambient humidity: below 80% RH.
- ★ Avoid large amounts of dust.
- ★ Avoid mechanical rocking or vibration.
- ★ Altitude of working position of combined refrigerator & freezer: lower than 2,000m.
- ★ Input voltage: within 198~242V.
- ★ The combined refrigerator & freezer is sensitive to ambient temperature. The combined refrigerator & freezer will not operate properly if installed in an environment other than those described above. Please use it after improving the environment.
- ★ Do not install the combined refrigerator & freezer in the open air. Exposing the combined refrigerator & freezer to rain may cause an electric leakage or electric shock.

Installation Site

- ★ It shall not be installed in a narrow and confined space. The placement space shall ensure the normal entry and exit of the equipment, without incurring maintenance difficulties in case of equipment failure to delay the repair and cause damage to the stored items.
- ★ The ground for installation must be solid and flat, non-combustible and able to withstand the weight of the equipment during operation.
- ★ Good ventilation, no direct sunlight.
- ★ Each combined refrigerator & freezer shall be provided with an independent power socket. Please ensure that the power socket shall carry a current of $\geq 10A$ and the plug shall be firmly connected to the socket.
- ★ Check the working voltage before use. A voltage regulator suitable for the equipment load shall be considered for use in areas with unstable voltage. The voltage regulator power shall be more than 4,000W to ensure that the input voltage requirements in the installation environment are met.
- ★ The equipment shall be grounded securely. If the power cord socket is equipped with a grounding wire, check that the grounding is good before use. If the socket is not equipped with a grounding wire, be sure to have a professional engineer install the grounding wire.



- ★ Do not ground the combined refrigerator & freezer through gas pipes, water pipes, telephone lines or lightning rods, etc., which can easily cause electric shock.
- ★ The power plug must be accessible after installation to facilitate timely unplugging of the power cord in case of emergency. No items shall cover the vent of the combined refrigerator & freezer.



★ Since the ambient temperature has a large impact on the equipment, the equipment may not operate normally if the above environmental requirements cannot be met. Please improve the environment before using the equipment. The equipment has an intermittent operation working system.

★ Ambient temperature for storage and transportation: $-40^{\circ}\text{C}\sim 60^{\circ}\text{C}$, relative humidity 10%~90%.

Preparations before Use

1. Remove all product external packing (including protective foam in packing cases).
2. Counting the accompanying accessories. Check the items in the box against the contents of the packing list. If there is any discrepancy, please contact with after-sales service in time.
3. Leave a gap of at least 10 cm around the combined refrigerator & freezer to facilitate ventilation and heat dissipation.
4. Lock the front rollers to ensure that the combined refrigerator & freezer does not move when in use.



★ Place the plastic packing bags in a place not accessible to children to avoid suffocation accidents.

First Power-up

Follow the steps below when using the equipment for the first time:

1. After the equipment is placed and leveled and cleaned, it shall be left for more than 24 hours before it is powered on to ensure normal operation.
2. Connect the power cord to a dedicated socket of suitable specification under no-load condition.
3. After the equipment is powered on, observe whether it is running normally.
4. Check whether the operating temperature of the equipment reaches the required value. After confirming the normal performance of the equipment after more than 24 hours of normal start/stop, place a small number of items in the storage chamber.
5. Store items in batches, not exceeding 1/3 of the chamber volume at a time. The next batch of items can only be put in if the equipment is shut down and turned on and off normally for more than 12 hours.
6. Avoid opening the door during the cooling process as much as possible, otherwise it will cause the temperature to rise.

Operation after Power-off

The equipment can memorize the set values. When power is restored after a power failure, the equipment will continue the operation before the power failure.



- ★ Once the power is cut off, the combined refrigerator & freezer shall stay for more than five minutes before re-power-on,

so as to avoid damage to the compressor or the system.

When the combined refrigerator & freezer is not used for a long time, it shall be unplugged and the battery switch shall be turned off at the same time (for projects with batteries).

- ★ If the combined refrigerator & freezer is left unattended in an unsupervised area for an extended period of time, ensure that children do not approach the refrigerated freezer and play with this equipment as a game prop.



- This product shall be the responsibility of a dedicated person to check the operation and record every day. If there is a high or low temperature in the chamber, the items shall be transferred to other combined refrigerator & freezers until the fault is removed before storing the items again.

- This product is a medical combined refrigerator & freezer. The temperature range inside the refrigerator chamber is 2~8°C, and the temperature range inside the freezer chamber is -10~-25°C. Please confirm that the stored items match the environment inside the chamber to avoid damage to the items and economic loss.

- Due to the inertia of refrigeration, the temperature and humidity displayed for this product may differ from the actual temperature and humidity inside the chamber, which is a normal phenomenon.

- Do not place items between the bottom of the liner and the bottom shelf of the combined refrigerator & freezer, so as not to block the air ducts.



- All combined refrigerator & freezers are preservation equipment and it is strictly forbidden to put too many hot items at once. This will cause the compressor to remain running for a long time, and the temperature will drop slowly and affect the service life of the compressor. Items must be placed in batches so that the temperature is cooled down in steps until the desired temperature.

- Do not damage the refrigeration circuit.

- Do not use electrical appliances without production permission inside the combined refrigerator & freezer.

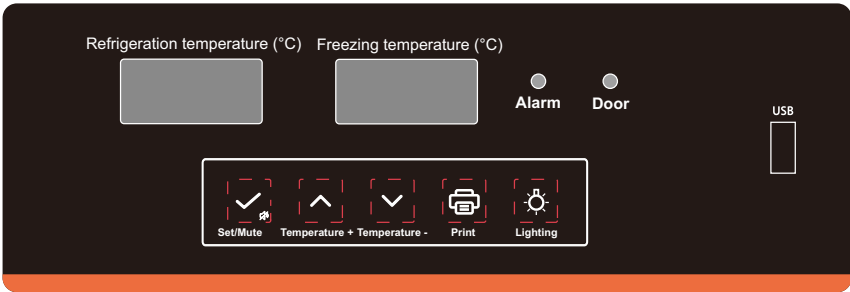
Product Components and Overview



- * Due to the improvement of the product and different models, the actual product may be different from the schematic diagrams. The actual configuration will depend on the physical product. The schematic diagrams are only for the description of functional parts.
- * Structure and composition: The product consists of Cabinet, Door body, refrigeration system and control system

User manual

Operation and Display Panel



Function Introduction

Temperature display : Under normal operation, the refrigeration temperature and freezing temperature are displayed respectively in °C.

The setting range of VS25-L350 upper chamber is 2~8°C, and that of lower chamber is -10~-25°C.

Door indicator: The indicator lights up when the door of the refrigerator chamber or the freezer chamber is opened. If the time exceeds 1 minute, the door opening alarm light will light and the buzzer will light and buzz. When the door of the refrigerator chamber is not closed, "door 1" is displayed and flashes in the refrigerator display window. When the door of the freezer chamber is not closed, "door2" is displayed and flashes in the freezer display window.


Fault indicator: The indicator goes off when the product is running normally; the Alarm lights up when it is running abnormally.

In the automatic lighting state, the illuminating lamp lights up immediately if the door is opened, and goes out if the door is closed. The user can also manually turn on the illuminating lamp, at this time the illuminating lamp is not controlled by the opening and closing of the door, and will always be lit. Only after pressing the on/off button of the lamp again to disable the manual lighting and switch to automatic lighting, the illuminating lamp can enter the automatic lighting state.




(Printer optional: The system can retain 7 days of data for printing. Press the print button to print the temperatures for the set time period.





In the parameter setting mode, the parameter value can be decreased. For example, reduce the set temperature when setting the set temperature. When setting the parameter value, pressing and holding the button  can reduce the parameter value rapidly.






In the parameter setting mode, the parameter value can be increased. For example, increase the set temperature when setting the set temperature. When setting the parameter value, pressing and holding the button  can increase the parameter value rapidly.




Set/Mute button: Press the button  when there is no alarm and the button is not unlocked, the ambient temperature can be displayed, and the normal display will be restored after 5s; in the unlocked state, press the button  for more than 3 seconds to enter the user menu.










When the buzzer gives an alarm (including chamber over-temperature alarm, door open alarm, sensor fault alarm, etc.) and the button is not unlocked, press the button  for the first time, the buzzer stops beeping and the ambient temperature is displayed for 5s before resuming normal display (Pressing the mute button only turns off the buzzer for this abnormal state alarm. If the fault is not eliminated after 5 minutes of mute, the buzzer will give an alarm again.) Press the button  again, the buzzer gives an alarm, the ambient temperature is displayed for 5s and then the display of chamber temperature and alarm status is resumed.

The button  can be used as a setting button when the it is unlocked. In the unlocked state, press this button to display the parameter value and parameter name when in parameter setting mode. If it is pressed for more than 3 seconds, the setting is saved and the normal interface is returned.



USB interface: Automatic export of USB data: When the USB flash drive is connected to the USB interface, the buzzer will beep once after the data transfer is completed, the upper chamber will display "USB" and the lower chamber will display "ON". The PDF file of the data of the current month and the previous month will be generated in the USB flash drive. The buzzer will beep once after the data transfer is completed, "End" will be displayed, and the normal display will be restored after 6 seconds.



 **CAUTION:** "USB", "ON", and "END" will not be displayed when the data is small.

USB data manual export: When the button is not locked, the USB flash drive is connected, and the file is not in the process of generation, press and hold the button  for 3 seconds, the digital tube in the lower chamber will show "d01". Press button  or  to adjust between "d00~d12". Press the button , and the USB flash drive will cancel the file generation (d00) or generate a PDF file of record data for the forward month (1-12).

 **CAUTION:** When the digital tube flashes showing "LoF" as an alarm, the recorder is not started; press and hold the buttons  and  for 3 seconds at the same time, "LoF" disappears and the recorder is started.

Independent closing of the refrigerator or freezer chamber: for chamber deactivation, or defrosting of the freezer chamber.

In normal operation mode, first unlock the panel, and then press and hold the buttons  and  at the same time to turn off the refrigerator chamber. The digital tube of the refrigerator chamber flashes to show "OFF". After the refrigerator chamber is closed, the compressor stops cooling, but the illuminating lamp function is not affected.




In normal operation mode, first, unlock the panel, and then press and hold the buttons  and  at the same time to turn off the freezer chamber, and the digital tube of the freezer chamber flashes "OFF".



Modify data recorder system time:

The system time can be set after the whole machine is powered up again after power off. After the system completes the self-inspection, the digital tube displays "N". It will exit automatically if there is no operation for 60s and display normally.

Menu	Menu Description	Setting Range	Remarks
n	Set the time of recorder module - year	10~50	22 represents 2022
y	Set the time of recorder module - month	1~12	--
r	Set the time of recorder module - day	01~31	--
S	Set the time of recorder module - hour	00~23	--
F	Set the time of recorder module - minute	00~59	--
Pt	Print interval	0~240	20min
SCY	Temperature data recording period	0~240 0: Shielded recorder	10min

Press the button  to switch parameters n-y-r-s-F-Pt-SCY

Press the button  or the button  to set the parameter value. After setting, press and hold the button  to save the parameter.

CAUTION: Modifying the time and logging interval will cause the recorder data to be cleared and the data recorder to be restarted with the digital tube displaying "LoF". To eliminate it, see Operations to Start Recorder: When the digital tube gives an alarm and flashes "LoF", the recorder is not started; press and hold  and  for 3 seconds at the same time, "LoF" disappears and the recorder is started.

Check Max/Min values





The MAX1, MAX2, MIN1 and MIN2 parameters of the user menu show the maximum and minimum values of the temperature during the current time period






Battery voltage check

Press  + , the digital tube of the freezer chamber shows the battery voltage

Function Settings

User Parameter Settings

Unlock: In normal operation, press  and  for 3 seconds at the same time, the upper chamber digital tube displays "PS1", the lower chamber digital tube displays the parameter code "0000". Press the button  and enter the password "0005". " (When entering the user menu password, enter "0099" to restore the button lock password to the default "0005".) , it is unlocked at this time. After unlocking, press the button  for 3 seconds, the digital tube will display the parameter code "MAX" and the setting and adjusting parameters are entered.

1. Scroll the parameters with the button , the display order is: MAX1-MIN1-MAX2-MIN2-CLR-SEt1-H01-L01-SEt2-H02-L02-n-y-r-S-F-Pt-tH1-P1-PS1-b1-b2
2. Increase or decrease the value with the button  or .
3. Press  to temporarily store the modified value and return to the display parameters.
4. Repeat steps 1 to 3 if other parameters need to be modified.
5. Press and hold  for more than 3 seconds to store the modified parameter and return to the displayed parameter category.

S/N	Menu	Parameter Range	Recommended Set Value	Remarks
1	MAX1	---		Maximum value of upper temperature in the current time period
2	MIN1	---		Minimum value of upper temperature in the current time period
3	MAX2	---		Maximum value of lower temperature in the current time period
4	MIN2	---		Minimum value of lower temperature in the current time period
5	CLR	0~1	1	0: Clear the minimum and maximum temperature value in the current time period 1: Do not clear the minimum and maximum temperature value in the current time period
6	SEt1	0~10°C	5	Set temperature of the refrigerator chamber
7	H01	0.0~10.0	3	Upper deviation of high temperature alarm in refrigerator chamber
8	L01	0.0~10.0	3	Lower deviation of high temperature alarm in refrigerator chamber
9	SEt2	-10~-25	-25	Set temperature of the freezer chamber
10	H02	0.0~10.0	5	Upper deviation of high temperature alarm in freezer chamber
11	L02	0.0~10.0	5	Lower deviation of high temperature alarm in freezer chamber
12	n	---	--	View current date - year
13	y	---	--	View current date - month
14	r	---	--	View current date - day
15	S	---	--	View current date - hour
16	F	---	--	View current date - minute
17	Pt	0-240 minutes	20	Print interval
18	tH1	20.0~50.0	32	High ambient temperature alarm value
19	P1	1~5	5	Selection of door heating modes
20	PS1	0~9999	0005	User menu password setting
21	b1	---	--	Hardware version
22	b2	---	--	Software version

Fault Alarm Codes:

Alarm code	Fault description
H01	High temperature alarm in refrigerator chamber
L01	Low temperature alarm in refrigerator chamber
H02	High temperature alarm in freezer chamber
L02	Low temperature alarm in freezer chamber
H03	High ambient temperature alarm
door1	Door opening alarm of refrigerator chamber
door2	Door opening alarm of freezer chamber
PF	Power off alarm
BL	Low battery alarm
EE	Display board communication fault
E1	Temperature display sensor alarm of refrigerator chamber
E2	Temperature control sensor alarm of refrigerator chamber
E4	Temperature sensor alarm of freezer chamber
E5	Frosting temperature sensor alarm
E6	Ambient temperature sensor alarm
Er	Recorder not connected
Pr	USB flash drive error when generating files
LoF	Recorder not started

Maintenance



- ★ In order to prevent electric shock or injury, the power supply must be cut off before any repair and maintenance of the equipment.
- ★ Make sure that drugs or suspended particles from the surrounding environment will not be inhaled during equipment maintenance. Otherwise, it may cause harm to human health.



- ★ Do not spill water directly on the chamber, so as not to cause the electrical components insulation performance decline and metal parts rust.
- ★ Do not use hot water and corrosive cleaners or organic solvents to clean the chamber body.
- ★ Do not put heavy objects on top of the equipment to avoid deformation of the equipment under pressure.

Equipment Maintenance

Cleaning and Maintenance:

- 💧 Clean the chamber once a month. Regular cleaning will maintain the new appearance of the freezer chamber.
- 💧 Wipe off the small amount of dust from the combined refrigerator & freezer, the inside of the chambers, and all accessories with a dry cloth. If the chamber body is dirty, remove the dirt with a cleaning cloth soaked in neutral detergent and wipe off the residual detergent with a damp cloth, then wipe it with a dry cloth.
- 💧 Do not pour water on the shell or inside the chamber, otherwise it may damage the electrical insulation and lead to faults.
- 💧 The compressor and other mechanical parts are completely sealed and do not require lubrication.

Equipment out of Service

Shutdown: Cut off the power supply if the equipment is not used for a long time and stored in an unsupervised area. Clean the inside and outside surfaces of the chamber with a wet soft cloth, let it dry and then seal it. Make sure to lock the equipment to prevent children from opening the door against accidents such as asphyxiation.

Scrapping: When the equipment reaches its service life, it shall be scrapped for disposal. It must be handed over to qualified professional recycling organizations for disposal in accordance with local regulations and ordinances. Non-professional personnel shall not disassemble or dismantle the equipment without authorization. Scrapped equipment shall be placed in a designated area inaccessible to children to avoid danger.

Troubleshooting and Repair Service

When the product breaks down, please check and handle it against the following table first. If the problem cannot be solved, inform the Service Center of Vacc-Safe in time, and we will do our best to help you and avoid any loss.

Malfunction	Trouble shooting
Combined refrigerator & freezer not working	Check whether the input power supply meets the requirements
	Whether the contact between the plug and the socket poor
	Are the input and control lines faulty
	Whether the voltage too low
The cooling effect is not obvious, and the temperature exceeds the standard	Whether the storage excessive or too hot
	Whether there a certain gap between stored items
	Whether there direct sunlight or other heat source radiation
	Whether the door opened frequently
	Whether the environmental temperature too high
	Whether the air duct blocked
Excessive noise	Whether the refrigerator placed stably
	Whether a part of the chamber body in contact with external objects or walls
	Difference between actual noise and marked value is normal during use due to the influence of loaded items, environmental noise, unclosed doors, compressor on and off, etc.
Alarm lamp flashes and buzzer alarms	Whether the temperature not stable because the item has just been put in The alarm is removed after a period of operation.
	Whether the door opening alarm caused by the door not being closed tightly Re-closing of door
	Whether the battery low. Return to normal after starting for a period of time
	Whether the temperature above the standard

Specification

Name	Medical Combined refrigerator & freezer
Model	VSC350P
External dimensions	695*655*1920
Internal dimensions	Refrigerator chamber: 600*505*690 Freezer chamber: 540*480*560
Effective volume	Refrigerator chamber 206L Freezer chamber 144L
Door body	Refrigerator chamber: foam door Freezer chamber: foam door
Foaming agent	Cyclopentane
Shelf	Refrigerator chamber: 3 shelves Freezer chamber: 3 drawers
Cooling mode	Refrigerator chamber: air-cooling cycle Freezer chamber: direct cooling
Outer/inner plate	PCM/sprayed steel sheet
Condenser/evaporator	Built-in/built-in
Temperature controller	Computer controller
Refrigerant	Refrigeration: R600a 28g Freezing R600a 45g
Illuminating lamp	LED
Net weight	93Kg
Rated power supply conditions	220V 50Hz
Rated power/current	160W/1.2A
Electrical shock protection class	I
Power supply connection mode	Y
USB function	Available

Packing list

Model	Instructions	Key	Door handle
VSC350P	1	2	2

- ★ Instructions include warranty card and certificate of conformity. Specific packing list is subject to the received physical equipment

Electrical Schematic Diagram

