



Bio Memory Pharmacy Refrigerator: 2-8°C 42L



Contents

1.	SAFETY WARNINGS.....	1
2.	INSTALLTION.....	5
2.1	Handling.....	5
2.2	Location	5
2.3	Door Space Requirements.....	6
2.4	Levelling the Unit	6
2.5	Cleaning Before Use	6
2.6	Before Using Your Unit.....	6
2.7	Interior Accessories	6
3.	PRODUCT OVERVIEW	7
4.	TECHNICAL SPEC	7
5.	OPERATION.....	8
5.1	Operation and display panel	8
5.2	Key operation.....	9
5.3	Noise Inside the Unit	13
5.4	ALARM	13
6.	CLEANING	14
6.1	Cleaning the Interior and the Exterior of the Unit	14
6.2	Cleaning Tips	14
7.	MAINTENANCE	14
7.1	Care When Handling / Moving Your Unit	14
7.2	Servicing	14
7.3	Switching Off for Long Periods of Time	14
8.	Trouble shooting	14
8.1	Warm tips	15

1. SAFETY WARNINGS



Warning: Flammable refrigerant is adopted for the product.

- ❶ **WARNING:** The packaging base at the bottom of this series of products must be removed before use.
- ❶ **WARNING:** When moving this series of products, take care that the bottom foot does not touch the power cord.
- ❶ **WARNING:** The bottom front wheel brake of this series of products need to be locked after moving to the designated position.
- ❶ **WARNING:** This series of products need to be left to stand for 12 hours before initial power-up.
- ❶ **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.
- ❶ **Note:** A single batch of items put into the Pharmacy Refrigerator can not exceed 1/4 of the volume.
- ❶ **WARNING:** Keep all ventilation openings in the enclosure or, in the structure for building-in, clear of obstruction.
- ❶ **WARNING:** Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
- ❶ **WARNING:** Do not damage the refrigerant circuit.
- ❶ For equipment that use flammable insulation blowing gases, the instructions shall include information regarding disposal of the equipment.
- ❶ 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.
- ❶ **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.

For your convenience to understand this manual, use the product, and prevent personal injuries and goods damages, please read the following instructions thoroughly.

Warning

Please use a power socket with a ground 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 Pharmacy Refrigerator firmly on a solid and flat ground. If the ground is not stable or the place is not suitable, the Pharmacy Refrigerator might be overturned or people will be injured.

If the power cord needs to be lengthened, the sectional area of the lengthened cord shall not be less than 2.5mm². At the same time, the length is not longer than 3 m. Otherwise, it may cause a fire or electric shock.

In case of flammable gas leakage, it is necessary to close the gas leakage valve and open doors/windows, for ventilation. Do not open any electrical switch, and do not plug in or pull out the power plug of the Pharmacy Refrigerator, otherwise it may cause explosions and fires.

Only professional technicians or after-sales maintenance personnel can disassemble the Pharmacy Refrigerator, otherwise it may cause fires or electric shock.

Please use the special power supply indicated on the nameplate of the Pharmacy Refrigerator, otherwise it may cause fire or electric shock.

If the voltage is lower than 207V or higher than 253V is necessary to install more than 4000 W automatic voltage regulator suitable for motor load.

The power cord of this Pharmacy Refrigerator is equipped with a three-wire (grounded) plug, which meets the standard three-wire (grounded) socket of 10 A.

Under no circumstances should the grounding pin of the power cord be removed. Make sure that the power plug and socket are plugged firmly and reliably, otherwise it may lead to fires.

When unplugging from the power socket, hold the power plug firmly and remove it. Do not pull the wires of the power plug directly. If you pull the wire by hand, it may cause electric shock or fires due to short circuit.

If the Pharmacy Refrigerator is not working properly, please unplug the power plug. It may cause electric shock or fires if it continues to operate under abnormal conditions.

Before any repair or maintenance of the Pharmacy Refrigerator, always disconnect the power supply of the Pharmacy Refrigerator to prevent electric shock or personal injuries.

Make sure that the medicine or suspended particles inside and around the Pharmacy Refrigerator will not be inhaled during maintenance, otherwise it may be harmful to health.

When storing toxic, harmful, or radioactive materials, please use a Pharmacy Refrigerator in a safe area. Improper use may cause harm to human health or the environment.

When the Pharmacy Refrigerator is not used for a long time, unplug the power plug to prevent electric shock, leakage or fires caused by the aging power cord.

If the Pharmacy Refrigerator is idle for a long time in an unsupervised area, make sure that the child does not approach the Pharmacy Refrigerator and that the disposal of the Pharmacy Refrigerator is to be carried out by the appropriate personnel. The door should be removed to prevent accidents such as suffocation.

No flammable, explosive, dangerous or volatile stuff should be stored in Pharmacy Refrigerator. Do not use combustible sprays near the Pharmacy Refrigerator, otherwise it may cause explosions or fires.

Do not store corrosive stuff such as acids and alkalis in the Pharmacy Refrigerator. Otherwise, the internal components or electrical parts of the Pharmacy Refrigerator may be damaged.

Packaging plastic bags should not be placed where children can reach them, because plastic bags may cause suffocation.

Do not climb on the Pharmacy Refrigerator or put the stuff on the Pharmacy Refrigerator, otherwise the Pharmacy Refrigerator will fall over and cause personal injuries or damages to the Pharmacy Refrigerator.

Don't use the Pharmacy Refrigerator in the open air. When the Pharmacy Refrigerator is wet by rain, it may cause electric leakage or electric shock.

Pharmacy Refrigerators should not be placed in damp places or places vulnerable to splashing water. Otherwise, electric leakage or electric shock will be caused due to insulation reduction.

Do not pour water directly on the Pharmacy Refrigerator, otherwise it may cause electric shock or short circuit.

Users are not allowed to disassemble, repair or modify the Pharmacy Refrigerator by themselves. Otherwise, it may cause fires or personal injuries due to improper operations.

Do not ground the Pharmacy Refrigerator through 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 power plug or any switch with wet hands, otherwise electric shock may be caused.

Do not put containers or heavy objects containing water on the Pharmacy Refrigerator. If the object falls, it may cause personal injuries, and the outflow of water will reduce the insulation and cause leakage or electric shock.

Do not insert metal objects such as nails or wires into any openings and gaps of the Pharmacy Refrigerator or into any vent used for internal air circulation, otherwise electric shock or injury may be caused by the above objects contacting with moving parts.

There should be no obstruction around the Pharmacy Refrigerator, and the ventilation should be smooth. It is necessary to check the Pharmacy Refrigerator setting when restarting the Pharmacy Refrigerator after power failure or power off.

Changes in settings may damage stored items.

Once the power of the Pharmacy Refrigerator is cut off, it will take more than five minutes to turn it on again to avoid damages to the compressor or system.

Gloves should be worn during maintenance to avoid touching the sharp edges or corners and injuries to personnel.

Hold the handle to close the door so that the door will not catch your fingers.

When moving Pharmacy Refrigerators, the inclination angle should not be more than 45 degrees.

When transporting the Pharmacy Refrigerator, be careful not to trip over Pharmacy Refrigerator to prevent damages to Pharmacy Refrigerator or personal injuries.

Please do not use the door handle to lift or carry the device, in case of damages to the Pharmacy Refrigerator or personal injuries.

The refrigeration circuit must not be damaged.

Do not use electrical appliances in the storage room of Pharmacy Refrigerators except for those recommended by the manufacturer.

2. INSTALLTION

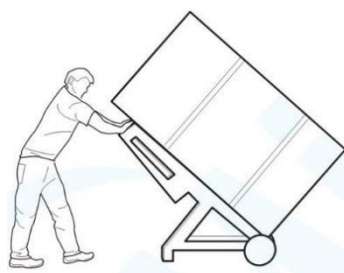
2.1 Handling

1)Protect the Pharmacy

Refrigerator in moving it,Same as shown as left photo, please move it by handcart with cushion

2)Remove all packing materials and bottom cushion, the move into house for placement

3)After moving it to appropriate location, wait for 2 hours before power on.



2.2 Location

When selecting a position for your unit you should make sure the floor is flat and firm, and the room is well ventilated. Avoid locating your unit near a heat source or radiator. Also avoid direct sunlight as it may Affect the operation of the whole machine. Extreme cold ambient temperatures may also cause the unit not to perform properly. This unit is not designed for use in a garage or outdoor installation. Do not drape the unit with any covering. When installing the unit, ensure that 20 cm of free space is left at both sides, 15 cm at the rear and 20 cm at the top of the unit. This will allow cold air to circulate around the Pharmacy Refrigerator and improve the efficiency of the cooling process.

The Pharmacy Refrigerator is only for indoor use. Ambient temperature is within 16°C-32°C, and recommended temperature is within 18°C-25°C. If necessary, air conditioning system should be used.

Environmental humidity: lower than 80%Rh.

Avoid heavy dust.

Avoid mechanical sway or vibration.

The altitude of working position of Pharmacy Refrigerator is lower than 2000 m.

Input voltage: between (220~240)±10% V.

Ingress protection: IPX0

Over Voltage Category II

Pollution Degree 2

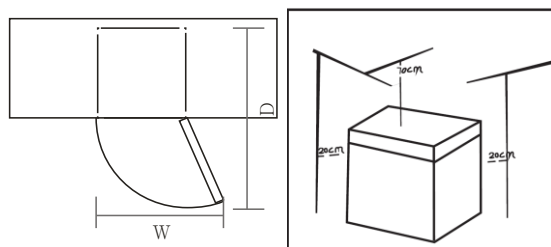
The Pharmacy Refrigerator is sensitive to ambient temperature. When installed in other environments than the one aforesaid, the Pharmacy Refrigerator can't operate normally. Please improve the environment before use.

It is prohibited to install the Pharmacy Refrigerator in an open environment. When the Pharmacy Refrigerator is wet by rain, it may cause electric leakage or electric shock.

2.3 Door Space Requirements

The unit's door must be able to open fully as shown.

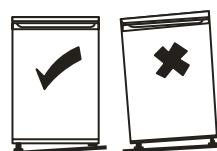
$W \times D \geq 1040\text{mm} \times 1030\text{mm}$



2.4 Levelling the Unit

To do this adjust the two levelling feet at the front of the unit.

If the unit is not level, the door and magnetic seal alignments will not be covered properly.



2.5 Cleaning Before Use

Wipe the inside of the unit with a weak solution of bicarbonate soda. Then rinse with warm water using a 'Wring-out' sponge or cloth. Wash the shelves and salad bin in warm soapy water and dry completely before replacing in the unit. Clean the exterior of the unit with a damp cloth.

If you require more information refer to the Cleaning section.

2.6 Before Using Your Unit

Please observe the following rules when conducting initial start-up.

1. Under no-load condition, please connect the power plug to right plugboard, and the plugboard should not be shared with other appliances.
2. After turning on the power supply, turn on the battery switch of the device, check if the inner LED light works properly.
3. Set recorder time, data recording interval time, etc according to actual need, please refer to the operation instructions below for details.
4. Set parameter of cabinet temperature, high(low) temperature alarm deviation, etc according to actual need. Default setting temperature is 5°C, high temperature alarm is 8°C and the low temperature alarm is 2°C, please refer to the operation instructions below for details.
5. "H1" alarm occurs at the initial operation stage, indicates the temperature in cabinet is high. The alarm will stop when the temperature in cabinet drops to the set temperature.
6. "LoF" alarm occurs at the initial operation stage, indicates the data recorder is not started. Please start the data recorder refer to the operation instructions below.
7. "BL" alarm occurs at the initial operation stage, indicates the low battery power alarm, and alarm will be automatically relieved after 2-6 hours of power on.
8. Observe equipment operation for more than 3 hours, ensure equipment runs stably, store items in cabinet in batches.

2.7 Interior Accessories

Multi layer encryption shelf design and adjustable height can maximize the use of space, The shelf bearing capacity is 15Kg.

The inner LED lights, bright and energy-saving, make the stuff in the box clear at a glance

3. PRODUCT OVERVIEW

This product is intended used in:

This product can be used to store medicines, vaccines, reagents, and materials that need to be stored at 2~8°C

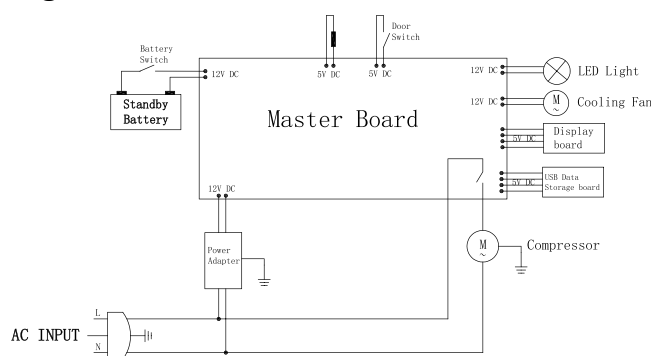


*All images in this instruction manual are for indication only; please refer to your individual unit for details.

4. TECHNICAL SPEC

Name	Bio Memory Pharmacy Refrigerator
Model number	FRIG425PV
<u>External dimensions (W x D x H)</u>	485*450*550
Effective volume	42L
Door body	Transparent glass door
Foaming agent	Cyclopentane
Cooling mode	Air cooling circulation
Shell plate / Inner plate	Spraying copper plate / HIPS plate
Temperature controller	Computer control system
Refrigerant	R600a/18g
Illumination lamp	LED light
Rated supply voltage	220~240V/50Hz
Rated current	0.75A
Noise	<45dB
Electric shock resistance type	I
Power connection mode	Y
USB functions	With USB functions

Electrical schematic diagram















5. OPERATION






5.1 Operation and display panel



Digital tube display instructions

Indicator light	Symbol	Status	Meaning
Door open		on	Door opened
		off	Door closed
WIFI (disabled)		on	WIFI connected
		off	WIFI unconnected
Defrosting (disabled)		on	Defrosting
		off	Defrosting is not working
Button lock		on	Button Locked
		off	Button unlocked
Power failure		on	Power off
		off	Power on
Printer (disabled)		on	Printer working
		off	Printer not working
Door heat (disabled)		on	Door heat working
		off	Door heat not working
Refrigeration		on	Compressor working
		off	Compressor not working
Mute		on	Buzzer mute
		off	Buzzer unmute
Low battery		on	Low battery voltage
		off	Battery voltage normal
RS485 port (disabled)		on	RS485 connected
		off	RS485 unconnected
Fan		on	Evaporator fan working
		off	Evaporator fan not working

Key names

Key symbols	Key names
	Set/Mute key
	Up key
	Down key
	Print key(disabled)
	Light switch

5.2 Key operation

5.2.1 Check the ambient temperature

- When the key is locked, press the Set / Mute key to display the ambient temperature on the digital tube. After no key operation for 5s, or press the Up and Down key to return to normal display.
- When the key is unlocked, press the Set / Mute key to display the ambient temperature on the digital tube and return to normal display after no key operation for 5s.

5.2.2 Light switch

When the working voltage is normal, press the Light switch key to turn on or off the light.

Or the light will turn on when the door is open.

5.2.3 Start the recorder

When the key is unlocked, when the recorder is not started, the digital tube gives flashing alarm and displays “LoF”. Then press the Set / Mute key and Up key for 3s at the same time, and the digital tube stops displaying “LoF”.

5.2.4 Key lock function

- When the key is unlocked, the key will be locked if there is no operation for 60s or Up key and Down key are pressed for 3s at the same time.
- When the key is locked, only ambient temperature can be checked and Mute key and Light switch key can be operated, and other keys are locked.
- When the key is locked, press Up key and Down key for 3s at the same time, and the digital tube displays “000”. Then adjust the password by up and down key (see user menu parameter table, the Default password is 5). After the password is correct, press the set key to unlock and return to normal display and the key lock indicator will turn off.

5.2.5 Mute the alarm

- When the alarm beeps, press the Set / Mute key to cancel the alarm. When the alarm mute indicator is on, it will enter the state of checking the ambient temperature.
- When the alarm is canceled, press the Set / Mute key to restore the alarm. When the alarm mute indicator is off, it will enter the state of checking the ambient temperature.
- In the key unlocked state, when checking the state of ambient temperature, press the Set / Mute key to cancel or restore the alarm. Within 10min after canceling the alarm, the temperature alarm persists. 10min later, the buzzer will beep again.

User settings are available after unlocked

User menu parameter list

Menu level	Menu	Menu description	Setting range	Default	Unit
User menu	MAX	Maximum temperature in the current time period	---	---	℃
	MIN	Minimum temperature in the current time period	---	---	℃
	CLR	Clear the record of the maximum and minimum temperature in the current time period.	0: clear 1: not clear	0	/
	SEt	setting	0.0~10.0	5	℃
	H	Upper deviation on high temperature alarm	0.0~10.0 0: cancel the alarm	3	℃
	L	Lower deviation on low temperature alarm	0.0~10.0 0: cancel the alarm	3	℃
	n	Check the current date - year	---	--	/
	y	Check the current date - month	---	--	/
	r	Check the current date - day	---	--	/
	S	Check the current date - hour	---	--	/
	F	Check the current date - minute	---	--	/
	Pt	Printing interval	0~240	20	min
	tH1	Ambient temperature alarm value	20.0~50.0	40.0	℃
	P1	Door heating mode selection	1: automatic heating mode 1 2: automatic heating mode 2 3: automatic heating mode 3 4: the door keeps open 5: the door keeps closed	4	/
	P2	Display mode selection	1: average temperature 2: upper temperature 3: lower temperature	1	/
	PS1	Password setting of user menu	000~999	005	/
	b1	Hardware version	---	1.0	/
	b2	Software version	---	1.4	/

5.2.6 View the maximum and minimum values

After entering the user parameter setting, switch to MAX parameter and press the Set key to display the maximum temperature in the current time period; After entering user parameter setting, switch to MIN parameter and press the Set key to display the minimum temperature in the current time period;

After entering user parameter setting, switch to CLR parameter and press the Set key to adjust the parameter to 0. Then long press the Set key, and the maximum and minimum values of temperature are cleared and the data will be recorded again.

5.2.7 Temperature setting

Press UP/DOWN button until SEt appears after unlocked, then press OK to setting.

The value in SET is the current set temperature.

5.2.8 High/Low temperature alarm.

- a、 If the displayed temperature > SEt temperature + high temperature alarm SEt value H, then the buzzer will alarm and the digital tube will flash the high temperature alarm code "H1" alternately at the interval of 3 seconds each time.

The high temperature alarm SEt value H can be set.

- b、 If the displayed temperature <SEt temperature- Low temperature alarm SEt value L, then the buzzer will alarm and the digital tube will flash the low temperature alarm code "L1" alternately at the interval of 3 seconds each time.

The low temperature alarm SEt value L can be set.

5.2.9 Setting of electric heating door

Door heating mode "P1" is set to "1": Every time the door is opened and closed, it will be heated for T9 minutes. If the door is opened and closed again during the heating period, the heating time will be reset

Door heating mode "P1" is set to "2" :When the compressor is running, door heater will start working. When the compressor is shut down, the heater will be shut down after 1 minute delay.

Door heating mode "P1" is set to "3"(disabled in this model) : When the humidity in the cabinet is higher than 80%, the door heating will be opened, when the humidity in the cabinet is lower than 60%, the door heating will be closed; When the humidity sensor is faulty or shielded, the door heating stays on.

Door heating mode "P1" is set to "4" : The door heating stays on.

Door heating mode "P1" is set to "4" : The door heating stays off.

The default setting of "P1" is set to "2", if there is a serious condensation problem, please set "P1" to "4".

5.2.10 Temperature record.

The recorder stores data every SCy minute(s). When the SCy is 0, the recorder will be shielded. After the shielding recorder is cancelled Time of recorder needs to be redesigned: year/month/day/hour/minute.

5.2.11 Start the recorder

When the key is unlocked, when the recorder is not started, the digital tube gives flashing alarm and displays "LoF". Then press the Set / Mute key and Up key for 3s at the same time, and the digital tube stops displaying "LoF".

5.2.12 Recorder time setting instruction

Every time when the pharmacy refrigerator reconnected to power after a power failure, display automatically shows 1、 2、 3、 4、 5、 6、 7、 8、 9、 n in turn, users can set parameters as in below table while n is displayed.

n	Year
y	Month
r	Date
s	Hour
F	Minute
Pt	Printing interval
SCY	Data recording interval

"Year" setting example (set year to 2022)

Steps	Operation	Display shows
1	Display shows n	n
2	Press Set/Mute key	0
3	Press Up key, Down key to change parameter to targeted year	22
4	Press Set/Mute key	
5	Press set/Mute key 3s to save parameter and quit	

"Month" setting example (other r,s,F,Pt,SCY setting refers to this example)

Steps	Operation	Display shows
1	Display shows n	n
2	Press Up key, Down key to choose settable parameter "y"	y
3	Press Set/Mute key	0
4	Press Up key, Down key to change parameter to targeted month	
5	Press Set/Mute key 3s to save parameter and quit	

Please finish setting in 2 minutes. If no operation, it will automatically quit in 2 minutes and shows normal .

Please export previous data record before changing recorder time and data recording interval time, otherwise the data may be lost.

Note: please do not adjust the other values in the manager menu. If values can not be adjusted properly, the product cannot run normally

In this case, parameters need to be checked one by one to restore the default value

5.2.13 Export the USB data

(1) After the USB flash disk is connected to the USB interface, the recorder buzzer beeps once, the display shows the upload data code "on" (in case of large amount of data) and the USB flash disk generates the PDF files on data of current month and last month. After the completion of data transmission, the buzzer beeps once and the display shows "End". After 6s, the display returns to normal.

Note: In case of less data, the display does not show "on" and "end" prompts.

(2) When the USB flash disk is always connected to the recorder module, the data will be imported into the USB flash disk every other month and the PDF file on the data of current month is generated. When the buzzer beeps once, the display shows the upload data code "on" (in case of large amount of data). After the completion of data transmission, the buzzer beeps once and the display shows "End". After 3s, the display returns to normal.

(3) When the USB flash disk is connected to the recorder module and the file is not generated, the PDF files of the current month and the previous 12 months can be generated manually.

5.2.14 Manually generate PDF files

When the key is unlocked and no file is being generated, connect the USB flash disk and press the Up key for 3s until the display shows "d01".

Press the Up or Down key to adjust "d00~d12". Press the Set / Mute key, and the USB flash disk inside cancels the file generation (d00) or generates the PDF files of the previous months (1~12) in which the data is recorded.

Note: the functional configuration of the product varies. Please refer to the actual configuration.

5.3 Noise Inside the Unit!

You may notice that your unit makes some unusual noises. Most of these are perfectly normal, but you should be aware of them!

These noises are caused by the circulation of the refrigerant liquid in the cooling system. It has become more pronounced since the introduction of CFC free gases. This is not a fault and will not affect the performance of your unit. This is the compressor motor working, as it pumps the refrigerant around the system.

5.4 ALARM

High temperature alarm and Low temperature alarm

a、 If the displayed temperature > SET temperature + high temperature alarm SET value H, then the buzzer will alarm and the digital tube will flash the high temperature alarm code "H1" alternately at the interval of 3 seconds each time.

b、 If the displayed temperature < SET temperature - Low temperature alarm SET value L, then the buzzer will alarm and the digital tube will flash the low temperature alarm code "L1" alternately at the interval of 3 seconds each time.

If the temperature of ambient sensor > High Ambient temperature alarm value tH1 (sensor is normal and not shielded, then the buzzer will alarm and the digital tube will flash the high ambient alarm code "H2" alternately at the interval of 3 seconds each time.

Door open alarm

After the door is opening for t4 minute(s), then the buzzer will alarm and the digital tube will flash the door open alarm code "do". Alarm will be canceled after door closed.

Power failure alarm

When the supply voltage is below 9.5V, the buzzer will alarm and the digital tube will flash the power failure alarm code "PF". When the detection voltage is higher than 20V, The buzzer will alarm and the digital tube will flash the power failure alarm code "EP" meaning Power Supplies is not working.

Low battery alarm

When the low battery function is available, if the voltage of back up battery is lower than 10.8V, the buzzer will alarm and the digital tube will flash the low battery alarm code "BL", Alarm will be canceled when the voltage of back up battery is higher than 12V. When the detection voltage is higher than 20V. The buzzer will alarm and the digital tube will flash the power failure alarm code "EP" meaning detection voltage circuit is not working.

When the low battery sensor is not shielded , When the measured temperature is less than or equal to -50℃ or greater than or equal to 100℃, the sensor will be judged to be faulty. The alarm codes of TP1 to TP6 are E1 to E6 respectively. When the humidity sensor is not shielded, the alarm code is E7. The buzzer will alarm and the digital tube will flash with relative code.

Recorder communication failure

If there is communicating problem with display and control panel, the buzzer will alarm and the digital tube will flash the power failure alarm code "EE"

If there is communicating problem with recorder and control panel when the recorder is not shielded, the buzzer will alarm and the digital tube will flash the power failure alarm code "Er"

6. CLEANING

6.1 Cleaning the Interior and the Exterior of the Unit

- ◆ Remove all the shelves and the salad bin. To remove the salad bin first remove the lower door shelf.
- ◆ Wipe the inside of the unit with a weak solution of bicarbonate soda and then rinse with warm water using a “wrung-out” sponge or cloth. Wipe completely dry before replacing the shelves and salad bin.
- ◆ Use a damp cloth to clean the exterior, and then wipe with a standard furniture polish. Make sure that the door is closed to avoid the polish getting on the magnetic door seal or inside the unit.
- ◆ The grille of the condenser at the back of the unit and the adjacent components can be vacuumed using a soft brush attachment.

6.2 Cleaning Tips

Condensation may appear on the outside of the unit. This may be due to a change in room temperature. Wipe of any moisture residue. If the problem continues, please contact a qualified technician for assistance.

7. MAINTENANCE

7.1 Care When Handling / Moving Your Unit

Hold the unit around its sides or base when moving it. Under no circumstances should it be lifted by holding the edges of the top surface. Avoid damaging the refrigerant tubing when handling, moving and use of Pharmacy Refrigerator.

7.2 Servicing

The unit should be serviced by an authorized engineer and only genuine spare parts should be used. Under no circumstances should you attempt to repair the unit yourself. Repairs carried out by inexperienced persons may cause injury or serious malfunction. Contact a qualitatively technician.

7.3 Switching Off for Long Periods of Time

When the unit is not in use for a long period of time, disconnect it from the mains supply, empty Pharmacy Refrigerator and clean the appliance, leaving the door ajar to prevent unpleasant smells.

8. Trouble shooting

The following simple issues can be handled by the user. Please call the after-sale service department if the issues are not settled.

Inoperation	Whether the Pharmacy Refrigerator is plugged and connected to power; Low voltage; Failure power or tripping circuit
Odor	Whether the interior shall be cleaned.
Long-term operation of compressor	It is normal that Pharmacy Refrigerator operates for longer time in summer when the ambient temperature is higher; Do not put too much product in the Pharmacy Refrigerator at one

	time; Frequent opening of Pharmacy Refrigerator door.
Illuminating light does not shine	Whether the Pharmacy Refrigerator is connected to power, whether the illuminating light is damaged.
Loud noises	whether the Pharmacy Refrigerator is balanced; Whether the Pharmacy Refrigerator parts are properly placed.

8.1 Warm tips:

- ◆The Pharmacy Refrigerator enclosure may emit heat during operation specially in summer, this is caused by the radiation of the condenser, and it is a normal phenomenon.
- ◆Condensation: condensation phenomenon will be detected on the exterior surface and door seals of the Pharmacy Refrigerator when the ambient humidity is large, this is a normal phenomenon, and the condensation can be wiped away with a dry towel.
- ◆Buzz: Buzz will be generated by running compressor specially when starting up or shutting down.

For more information, please contact the local authority or your retailer where you purchased the product.