

Haier

Biomedical After-sales Service Manual

Product type: Pharmacy Refrigerator (2~8°C)

Product model: HYC-290/390/391/390F

Product illustration:



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Revision record

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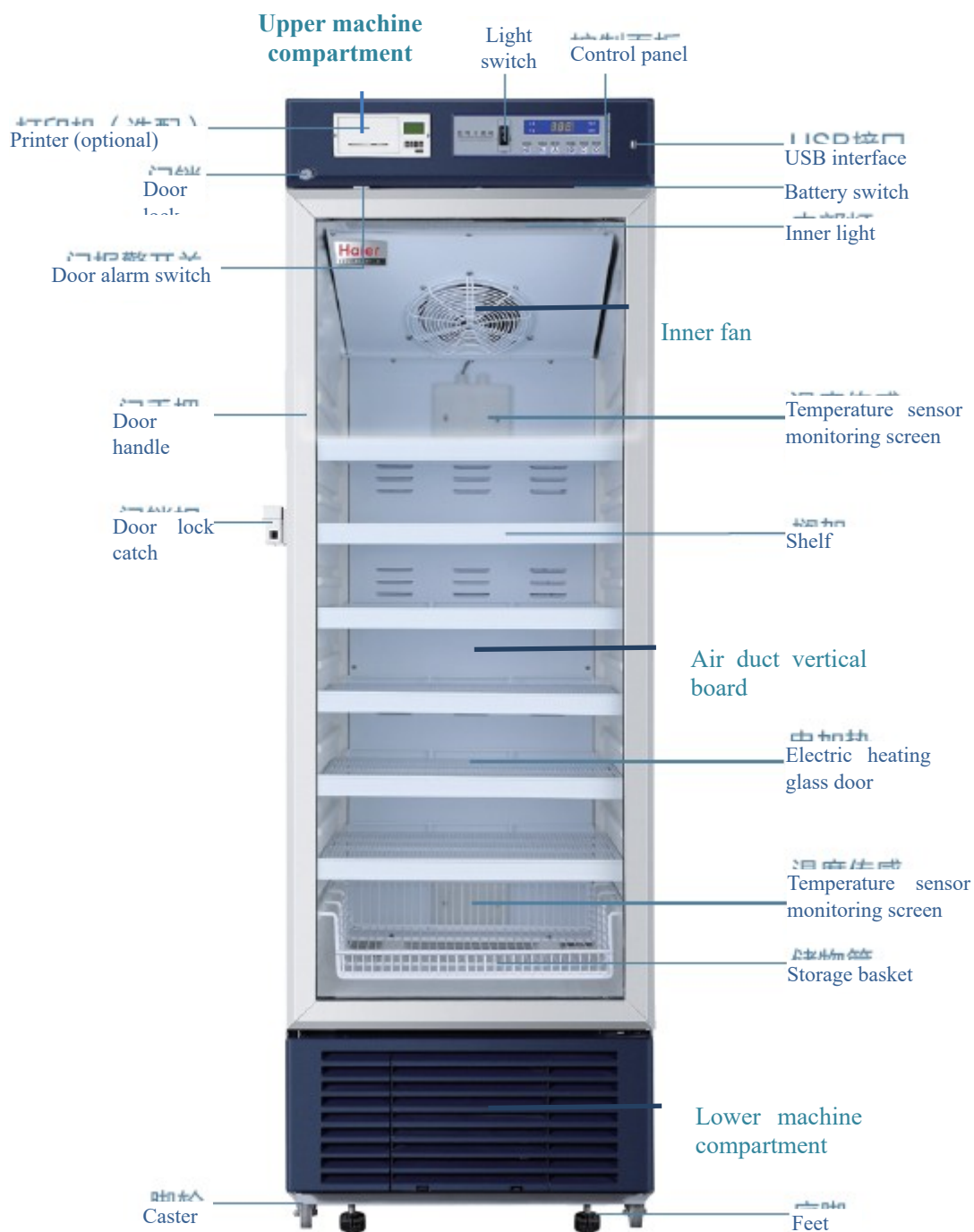
I. Product model illustration

H (Haier) **Y** (Medical) **C** (Refrigerator) **-290** (with capacity of about 290 L)

H (Haier) **Y** (Medical) **C** (Refrigerator) **-390** (with capacity of about 390 L)

H (Haier) **Y** (Medical) **C** (Refrigerator) **-390 F** (with capacity of about 390 L, foam door)

II. Product appearance and illustration of each component



HYC-290/390/391



HYC-390F

III、 Product function, machine parameter list

1. HYC-290:

Product model	HYC-290
Product type	Vertical cabinet, glass door, air cooling
Applicable environment	N type (10°C~32°C)
Temperature in the refrigerator	2~8°C
Volume (L)	290 L
Internal dimensions (W×D×H)	530×555×1080
External dimensions (W×D×H)	665×710×1665
Dimension (W×D×H)	735×800×1800
Net weight/gross weight (Kg)	105/127
Enclosure/liner material	Cold plate dusting/PS plate adsorption molding
Rated power supply	220 V/50 Hz
Rated power/current	210 W/1.1 A
Temperature control mode	Computer board temperature control
Number of sensors	5
Alarm mode	Buzzer + light + remote
Alarm type	High and low temperature + sensor fault + power failure + low battery + door opening
Foot and caster	2 feet + 4 universal casters
Test hole	1
Shelf	5 dip molding shelves (with price list)
Data traceability	Printer (optional) + USB (standard)
Illumination light	LED (3 W)
Door body and lock catch	Electric heating glass door + upper built-in lock (replaceable) + left lock (padlock is acceptable)
Defrosting method	Auto defrosting + forced defrosting, without defrosting heating wire
Anti-condensation at cabinet entrance	None
Safe operation	Safe mode of the sensor fault

III.

2. HYC-390:

Product model	HYC-390
Product type	Vertical cabinet, glass door, air cooling
Applicable environment	N type (10°C~32°C)
Temperature in the refrigerator	2~8°C
Volume (L)	390 L
Internal dimensions (W×D×H)	530×555×1380
External dimensions (W×D×H)	665×710×1965
Dimension (W×D×H)	735×800×2100
Net weight/gross weight (Kg)	116/139
Enclosure/liner material	Cold plate dusting/PS plate adsorption molding
Rated power supply	220 V/50 Hz
Rated power/current	215 W/1.1 A
Temperature control mode	Computer board temperature control
Number of sensors	5
Alarm mode	Buzzer + light + remote
Alarm type	High and low temperature + sensor fault + power failure + low battery + door opening
Foot and caster	2 feet + 4 universal casters
Test hole	1
Shelf	7 dip molding shelves (with price list)
Data traceability	Printer (optional) + USB (standard)
Illumination light	LED (3 W)
Door body and lock catch	Electric heating glass door + upper built-in lock (replaceable) + left lock (padlock is acceptable)
Defrosting method	Auto defrosting + forced defrosting, without defrosting heating wire
Anti-condensation at cabinet entrance	None
Safe operation	Safe mode of the sensor fault

3. HYC-391:

Product model	HYC-391
Product type	Vertical cabinet, glass door, air cooling
Applicable environment	N type (10°C~32°C)
Temperature in the refrigerator	2~8°C
Volume (L)	390 L
Internal dimensions (W×D×H)	530×555×1380
External dimensions (W×D×H)	665×710×1965
Dimension (W×D×H)	735×800×2100
Net weight/gross weight (Kg)	116/139
Enclosure/liner material	Cold plate dusting/PS plate adsorption molding
Rated power supply	220 V/50 Hz
Rated power/current	215 W/1.1 A

Temperature control mode	Computer board temperature control
Number of sensors	5
Alarm mode	Buzzer + light + remote
Alarm type	High and low temperature + sensor fault + power failure + low battery + door opening
Foot and caster	2 feet + 4 universal casters
Test hole	1
Shelf	6 dip molding shelves (with price list)
Illumination light	LED (3 W)
Door body and lock catch	Electric heating glass door + upper built-in lock (replaceable) + left lock (padlock is acceptable)
Defrosting method	Auto defrosting + forced defrosting, without defrosting heating wire
Anti-condensation at cabinet entrance	None
Safe operation	Safe mode of the sensor fault

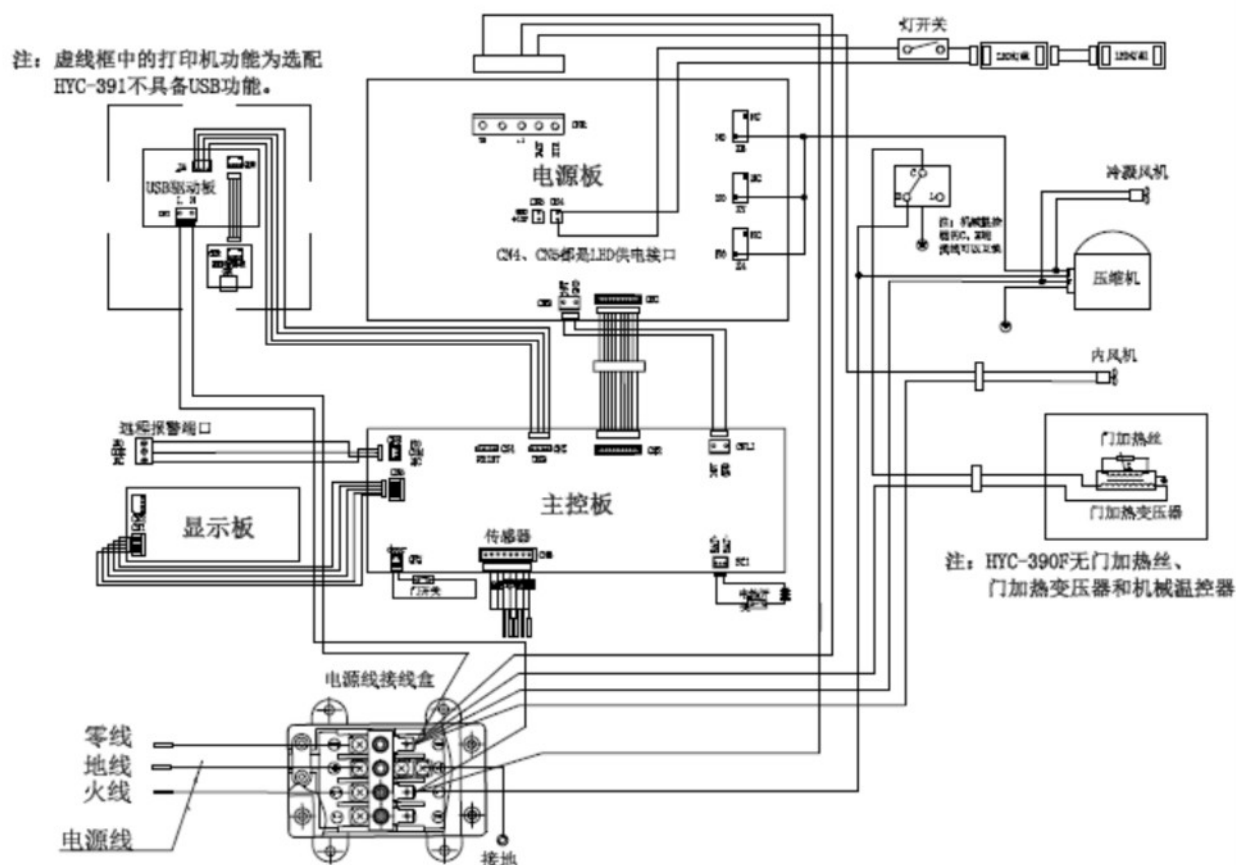
4. HYC-390F:

Product model	HYC-390F
Product type	Vertical cabinet, foam door, air cooling
Applicable environment	N type (10°C~32°C)
Temperature in the refrigerator	2~8°C
Volume (L)	390 L
Internal dimensions (W×D×H)	530×555×1380
External dimensions (W×D×H)	665×710×1965
Dimension (W×D×H)	735×800×2100
Net weight/gross weight (Kg)	106/129
Enclosure/liner material	Cold plate dusting/PS plate adsorption molding
Rated power supply	220 V/50 Hz
Rated power/current	105 W/0.7 A
Temperature control mode	Computer board temperature control
Number of sensors	5
Alarm mode	Buzzer + light + remote
Alarm type	High and low temperature + sensor fault + power failure + low battery + door opening
Foot and caster	2 feet + 4 universal casters
Test hole	1
Shelf and storage basket	7 dip molding shelves (with price list)
Data traceability	Printer (optional) + USB (standard)
Illumination light	LED (3 W)
Door body and lock catch	Upper built-in lock (replaceable) + left lock (padlock is acceptable)
Defrosting method	Auto defrosting + forced defrosting, without defrosting heating wire

Anti-condensation at cabinet entrance	None
Safe operation	Safe mode of the sensor fault

IV. Details and wiring diagram of electrical spare parts

Serial number	Dedicated No.	Description	QTY	Main technical parameters	Remarks
1	0074090955	Display board	1		
2	0074091548	Main control board	1		Used for 290/390
3	0074091548 A	Main control board	1		Used for 390F
4	0074091549	Power board	1		
5	0271800064	USB drive board	1	10 years of data storage	
6	0271800037	USB ADAPTER BOARD	1		
7	0074091430 A	Battery	1	12 V 4 AH	
8	0274000232	Printer	-	With storage of 8000 pieces of data	Optional
9	0074091590	LED light	2		
10	0074000186	Door heating transformer	1	AC/55 V	Used for 290/390
11	0270805316	Electric heating door	1	AC/55 V/70 W	Used for 290
12	0270805312	Electric heating door	1	AC/55 V/80 W	Used for 390
13	0074090305B	Evaporator fan	1	EBM fan	Used for 290
14	0074000087C	Evaporator fan	1	10 W	Used for 390/391/390F
15	0274000457	Condenser fan	1	IQC	Used for 290/390/391/390F



Attachment:



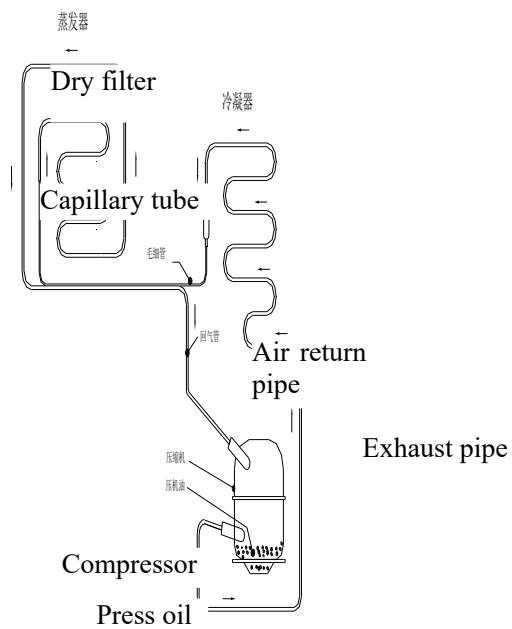
HYC-290-390 (变频) 电器连接图-中

V. Refrigeration system parameters and spare parts details

Serial number	Dedicated No.	Description	QTY	Main technical parameters	Remarks
1	0060705994A	Compressor	1	FMXA9C	
2	0270700296A	Evaporator	1	Plate evaporator	Used for 390/390F/391
3	0270700245A	Evaporator	1	Plate evaporator	Used for 290
4	0270700542A	condenser	1	Wire tube with shield	
5	0074180002A	Dry filter	1		
6	0070301474	R600a refrigerant	-	Filling capacity: R600a 60 g	Used for 290
7	0070301474	R600a refrigerant	-	Filling capacity: R600a 80 g	Used for 390/390F/391

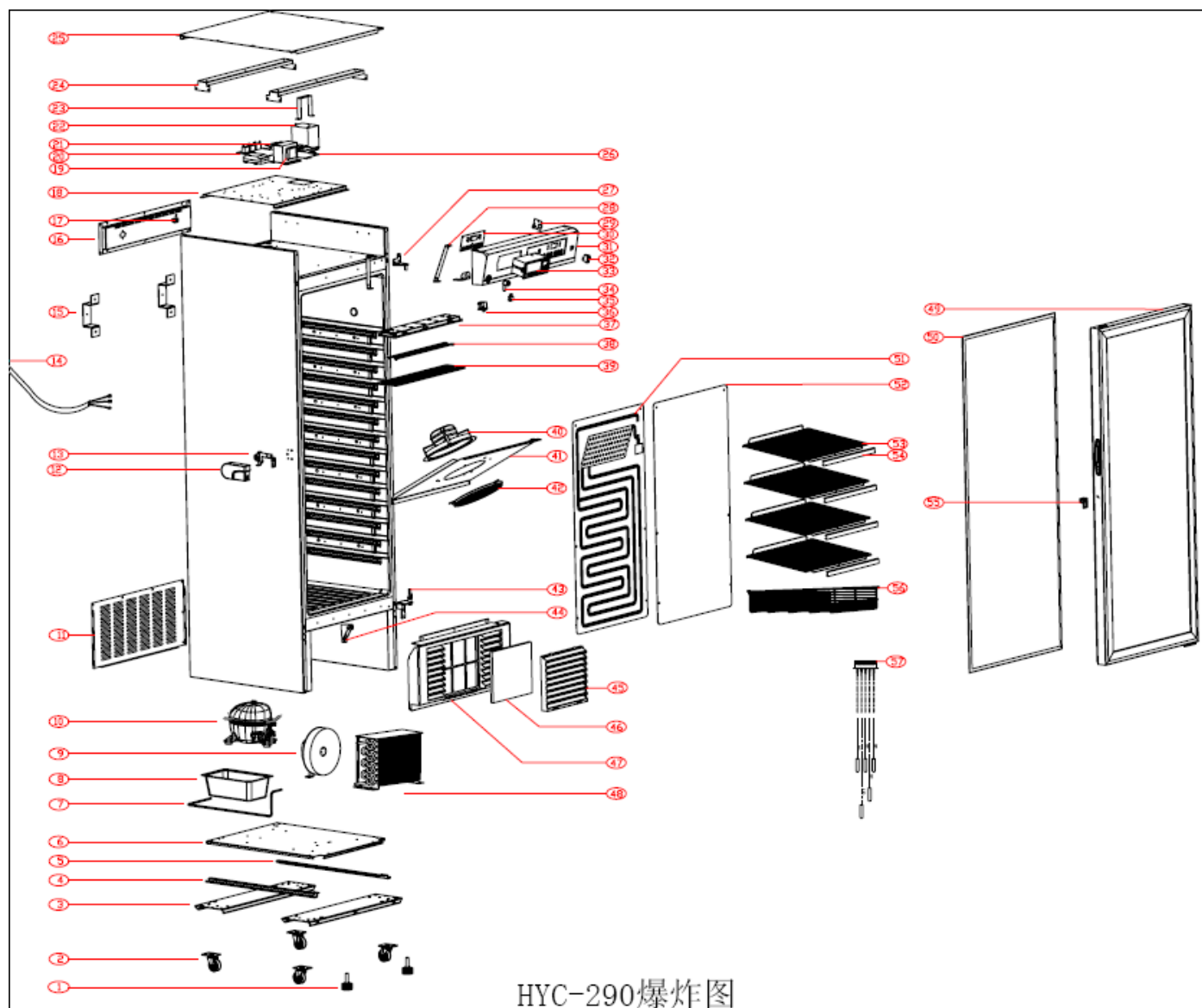
Evaporator

condenser



VI. Component details and exploded views

HYC-290 exploded views:

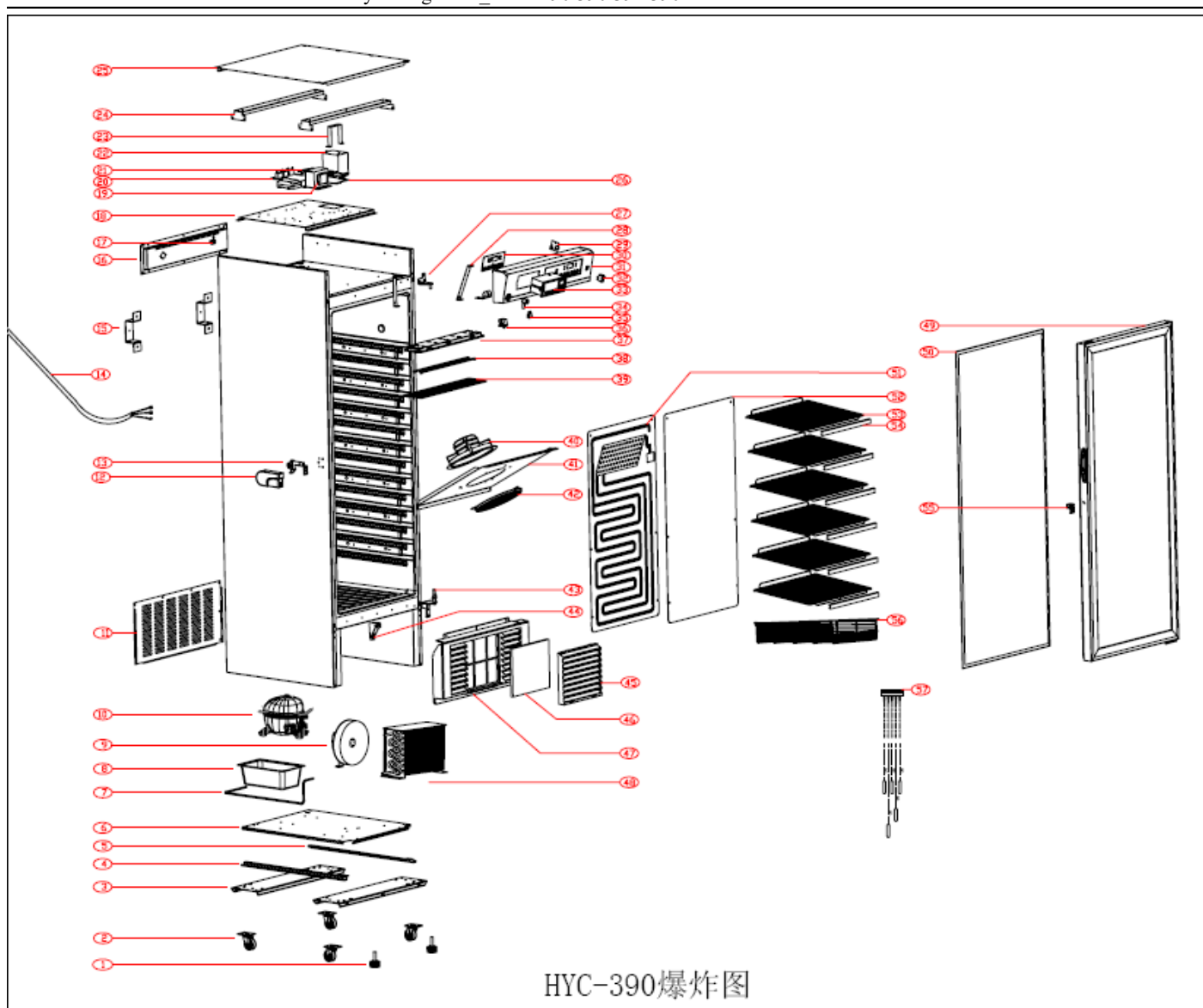


Detailed exploded view of HYC-290:

Serial number	Dedicated No.	Description	QTY	Serial number	Dedicated No.	Description	QTY
1	00609380509	Feet	2	30	0074090955	Display board	1
2	0070107949	Caster	4	31	0270200920	Front face shield	1
3	0270101428	Caster mounting plate	2	32	0070401235	Lamp switch	1
4	0270101429	Left support plate of compressor bottom plate	1	33	0270200924	Cover plate of front face shield	1
5	0270101430	Right support plate of compressor bottom plate	1	34	0270101174	Lock	1
6	0270101427B A	Compressor bottom plate	1	35	0074000074	Battery switch	1

7	0270700228	Connecting pipe	1		36	0074090530	Door alarm switch	1
8	0070106989	Water disposal pan	1		37	0270200632	Lamp holder	1
9	0274000457	Condenser fan	1		38	0074091590	Light board	2
10	0060705994A	Compressor	1		39	0270200631	Lamp shade	1
11	0270101431	Rear guard shield of machinery compartment	1		40	0074090305 B	Inner fan	1
12	0270200560	Lock cover	1		41	0270101532	Inner fan support plate	1
13	0270801061	Lock steel metal parts	1		42	0070103974	Inner fan mesh enclosure	1
14	0270400377B	Power line	1		43	0270101618	Lower hinge	1
15	0070102180	Back support	2		44	0070106170	Door bracket	1
16	0270101531	Rear cover of electric cabinet	1		45	0270200930	Grille of lower machine compartment	1
17	0274300008	Remote alarm wiring terminal	1		46	0270200619	Filter screen	1
18	0270101433	Electric appliance support	1		47	0270200931	Front shield of lower machine compartment	1
19	0074000186	Transformer	1		48	0070701981	condenser	1
20	0074091549	Power board	1		49	0270805316	Electric heating glass door	1
21	0074091548	Control board	1		50	0270200621	Door seal strip	1
22	0074091430A	Battery	1		51	0270700245 A	Evaporator	1
23	0270101434	Battery retaining clip	1		52	0270102804	Air deflector	1
24	0270101445	Supporting cross beam	2		53	0270101449	Shelf	4
25	0270101432	Top cover of electric cabinet	1		54	0070202625	Price tag	4
26	0271800064	USB computer board	1		55	0270801356	Lock nose	1
27	0270101423	Upper hinge	1		56	0270101450	Storage basket	1
28	0270101446A	Front face shield bracket	1		57.1	0270400357	Embedded part of temperature sensing line	1
29	0271800037	USB ADAPTER BOARD	1		57.2	0270400358 A	Probe part of temperature sensing line	1

HYC-390 exploded views:

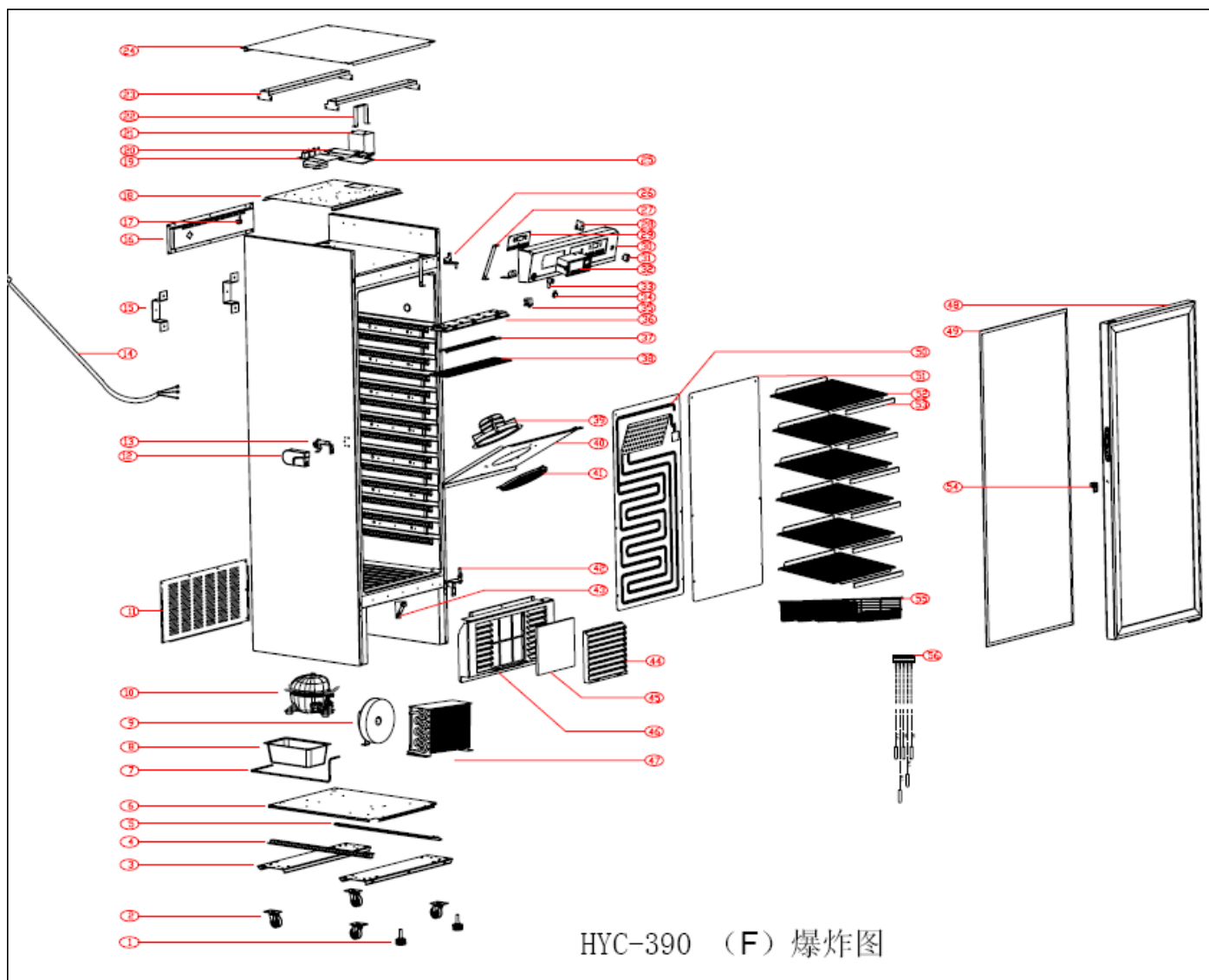


Detailed exploded view of HYC-390:

Serial number	Dedicated No.	Description	QT Y	Serial number	Dedicated No.	Description	QT Y
1	00609380509	Feet	2	30	0074090955	Display board	1
2	0070107949	Caster	4	31	0270200920	Front face shield	1
3	0270101428	Caster mounting plate	2	32	0070401235	Lamp switch	1
4	0270101429	Left support plate of compressor bottom plate	1	33	0270200924	Cover plate of front face shield	1
5	0270101430	Right support plate of compressor bottom plate	1	34	0270101174	Lock	1
6	0270101427B A	Compressor bottom plate	1	35	0074000074	Battery switch	1
7	0270700228	Connecting pipe	1	36	0074090530	Door alarm switch	1
8	0070106989	Water disposal pan	1	37	0270200632	Lamp holder	1
9	0274000457	Condenser fan	1	38	0074091590	Light board	2

10	0060705994 A	Compressor	1		39	0270200631	Lamp shade	1
11	0270101431	Rear guard shield of machinery compartment	1		40	0074000087 C	Inner fan	1
12	0270200560	Lock cover	1		41	0270101532	Inner fan support plate	1
13	0270801061	Lock steel metal parts	1		42	0070103974	Inner fan mesh enclosure	1
14	0270400377B	Power line	1		43	0270101618	Lower hinge	1
15	0070102180	Back support	2		44	0070106170	Door bracket	1
16	0270101531	Rear cover of electric cabinet	1		45	0270200930	Grille of lower machine compartment	1
17	0274300008	Remote alarm wiring terminal	1		46	0270200619	Filter screen	1
18	0270101433	Electric appliance support	1		47	0270200931	Front shield of lower machine compartment	1
19	0074000186	Transformer	1		48	0270700542 A	condenser	1
20	0074091549	Power board	1		49	0270805312	Electric heating glass door	1
21	0074091548	Control board	1		50	0270200616	Door seal strip	1
22	0074091430 A	Battery	1		51	0270700296 A	Evaporator	1
23	0270101434	Battery retaining clip	1		52	0270103086 B	Air deflector	1
24	0270101445	Supporting cross beam	2		53	0270101449	Shelf	6
25	0270101432	Top cover of electric cabinet	1		54	0070202625	Price tag	6
26	0271800064	USB computer board	1		55	0270801356	Lock nose	1
27	0270101423	Upper hinge	1		56	0270101450	Storage basket	1
28	0270101446 A	Front face shield bracket	1		57.1	0270400357	Embedded part of temperature sensing line	1
29	0271800037	USB ADAPTER BOARD	1		57.2	0270400358 A	Probe part of temperature sensing line	1

HYC-390F exploded views:



Detailed exploded view of HYC-390F:

Serial number	Dedicated No.	Description	QT Y	Serial number	Dedicated No.	Description	QT Y
1	00609380509	Feet	2	30	0270200920	Front face shield	1
2	0070107949	Caster	4	31	0070401235	Lamp switch	1
3	0270101428	Caster mounting plate	2	32	0270200924	Cover plate of front face shield	1
4	0270101429	Left support plate of compressor bottom plate	1	33	0270101174	Lock	1
5	0270101430	Right support plate of compressor bottom plate	1	34	0074000074	Battery switch	1
6	0270101427B A	Compressor bottom plate	1	35	0074090530	Door alarm switch	1
7	0270700228	Connecting pipe	1	36	0270200632	Lamp holder	1
8	0070106989	Water disposal pan	1	37	0074091590	Light board	2
9	0274000457	Condenser fan	1	38	0270200631	Lamp shade	1

10	0060705994 A	Compressor	1		39	0074000087C	Inner fan	1
11	0270101431	Rear guard shield of machinery compartment	1		40	0270101532	Inner fan support plate	1
12	0270200560	Lock cover	1		41	0070103974	Inner fan mesh enclosure	1
13	0270801061	Lock steel metal parts	1		42	0270101618	Lower hinge	1
14	0270400377B	Power line	1		43	0070106170	Door bracket	1
15	0070102180	Back support	2		44	0270200930	Grille of lower machine compartment	1
16	0270101531	Rear cover of electric cabinet	1		45	0270200619	Filter screen	1
17	0274300008	Remote alarm wiring terminal	1		46	0270200931	Front shield of lower machine compartment	1
18	0270101433	Electric appliance support	1		47	0070701981	condenser	1
19	0074091549	Power board	1		48	0270803084	Foam door	1
20	0074091548 A	Control board	1		49	0270200538H	Door seal strip	1
21	0074091430 A	Battery	1		50	0270700296A	Evaporator	1
22	0270101434	Battery retaining clip	1		51	0270103086B	Air deflector	1
23	0270101445	Supporting cross beam	2		52	0270101449	Shelf	6
24	0270101432	Top cover of electric cabinet	1		53	0070202625	Price tag	6
25	0271800064	USB computer board	1		54	0270801356	Lock nose	1
26	0270101423	Upper hinge	1		55	0270101450	Storage basket	1
27	0270101446 A	Front face shield bracket	1		56.1	0270400357	Embedded part of temperature sensing line	1
28	0271800037	USB ADAPTER BOARD	1		56.2	0270400358A	Probe part of temperature sensing line	1
29	0074090955	Display board	1					

VII. Operation instructions

1. Operation panel



Inner light: Inner light switch

Indicator lights for upper zone and lower zone temperatures: The upper zone temperature and the lower zone temperature are indicated separately when they are displayed separately, and the average temperature in the refrigerator is indicated when they are displayed together

Power indicator: Normally on indicates normal main power supply and flicker indicates fault of main power supply;

Alarm indicator: The indicator light flickers to indicate the current alarm state;

Buzzer cancel button: Suspend the current buzzer alarm and the triggered remote alarm (if any);

Temperature conversion button: Convert the temperature display state of upper zone and lower zone;

Alarm test button: Test whether the alarm function is normal;

Calibration confirmation button, sensor selection button, calibration cancel button: Cooperate with other buttons to complete the operation;

2. Control mode

Item	Operation step	Screen display
Alarm test	In the standby mode, press "Alarm test" button The buzzer alarms continuously for 3 times while the alarm light flash displays for 3 times, indicating that the alarm test is normal;	If the screen flash displays E5, it means the battery switch is turned off or the battery is low
Temperature adjustment	1. Press "Sensor selection" and "Calibration cancel" simultaneously for 5s	Flicker displays the setting temperature
	2. Increase the set value by pressing "Calibration cancel", or decrease the setting value by pressing "Sensor selection"	
	3. After adjustment, no operation is required, and the system will automatically save and back to standby state	
General parameter setting	1. Press "Sensor selection" and "Calibration cancel" simultaneously for 5s	Flicker displays the setting temperature
	2. Within three seconds of the first operation, press "Calibration confirmation" for 10s	Display SEH
	3. Press "Calibration cancel" or "Sensor selection" within 4s, the current parameter can be selected and parameter value is displayed	Display the parameter value for SEH

	4. If there is no operation, it will automatically switch to the next parameter after four seconds	Display next parameter code
	5. After the parameters are cycled according to the above method, if there is no operation within 10s, it will be automatically saved and restored to the standby state	
Correction parameter setting	1. Press "Temperature conversion" and "Calibration confirmation" buttons at the same time for 10s in standby state	Display D1
	2. Press "Sensor selection", the current parameters can be cyclically switched until the parameter is selected	D1~D5 cycle
	3. Press "Calibration cancel" to select the current sensor value with correction	Display sensor value
	4. Press "Alarm test" again, it can be correction value	Display sensor correction value
	5. Increase the set value by pressing "Calibration cancel", or decrease the setting value by pressing "Sensor selection"	
	6. After the setting is completed, you can press "Calibration confirmation" or wait five seconds to return to the parameter list,	D1~D5
	7. Other parameters can be set, if there is no operation within 10s, it will be automatically saved and restored to the standby state	

3. Definition and initial value of each parameter

(1) General parameter list

Serial number	parameter	Parameter interpretation	Adjustable range	Factory default of HYC-390	Remarks
1	SEH	Upper limitation of setting temperature	The upper limit is 20	8	
2	SEL	Lower limit of setting temperature	The lower limit is -5	5	
3	AOF	Compressor control temperature difference, (setting + 0.5) ± AOF	0.5~3.0	1	
4	ALH	High temperature alarm value	The upper limit is 20	10	
5	ALL	Low temperature alarm value	The lower limit is -5	2	

(2) Correction parameter list

Serial number	parameter	Parameter interpretation	Adjustable range	Factory default of HYC-390	Remarks
1	D1	Correction of upper temperature sensitive box sensor	-2.0~+2.0	-0.5	
2	D2	Correction of lower temperature sensitive box sensor	-2.0~+2.0	1	

3	D3	Control sensor correction	-2.0~+2.0	-1	
4	D4	Defrosting sensor correction	-2.0~+2.0	-1	
5	D5	Alarm sensor correction	-2.0~+2.0	0	

4. Special functions indication

(1) Defrosting function

Natural defrosting: Natural defrosting starts when the inner fan runs normally, and the compressor stops

Forced defrosting:

Enabling conditions: In steady operation, the defrosting temperature is detected to be lower than -0.25 °C before the start-up of the compressor to start the forced defrosting;

Defrosting state: Fan and compressor stop running

Exit conditions: Exit forced defrosting if any of the following conditions is met

- (a) Displayed temperature of upper and lower zone are higher than or equal to 5.6°C
- (b) Defrosting time is up to 20 minutes
- (c) Control sensor or alarm sensor senses that the temperature is not lower than 7°C

Notes: The interval between forced defrosting is 24 hours; after forced defrosting, the compressor starts and the fan starts with a delay of 3 minutes

(2) Safe mode of the sensor fault

When the sensor fault affects the normal control, the compressor shall operate for 5 min after starting up and 5 min after shutdown;

(3) Function of USB interface

Item	Operation step	Screen display
Data exporting	1. Insert the USB flash disk directly, and it will automatically export data;	
	2. Press "Calibration confirmation" to query the current USB export status.	USB-in exporting; ALL - completed
Set time	1. Press "Calibration confirmation" for 10s.	Display 1P
	2. Press "Sensor selection" or "Calibration cancel" to switch the parameter list.	Display 1P~5P cyclically
	3. Press "Calibration confirmation" to select the current parameter with the parameter values displayed.	Display the current parameter value
	4. Press "Sensor selection" or "Calibration cancel" to change the current parameter value to the desired value.	
	5. Press "Calibration confirmation" to save the current setting and exit to the parameter list.	1P~5P
	6. After all settings are completed, press "Calibration confirmation" for 5s to save and exit.	

Note: 1P~5P represent the year, month, day, hour and minute respectively.

(4) Alarm function self-inspection

If the current alarm function needs to be inspected, the "Alarm test" button can be pressed in the default interface state to simulate all alarm triggers to check whether the current alarm function (buzzer + light + remote) alarm mode

VIII. Alarm function and indications

Alarm	Code	Interpretation	Alarm mode	Alarm release method
The sensor fault	E1	Upper temperature sensor fault (disconnection or short circuit)	Buzzer + alarm light flickers + code	Maintenance of upper zone temperature sensor
	E2	Lower temperature sensor fault (disconnection or short circuit)	Buzzer + alarm light flickers + code	Maintenance of lower temperature sensor
	E3	Control sensor fault (disconnection or short circuit)	Buzzer + alarm light flickers + code	Maintenance of control sensor
	E4	Defrosting sensor fault (disconnection or short circuit)	Buzzer + alarm light flickers + code	Maintenance of defrosting sensor
Door opening	None	Door opening time is more than 10 min	Buzzer + alarm light flickers	Door closing or maintenance the fan-shaped switch circuit
High and low temperature	None	The upper and lower temperature sensors exceed the limit.	Buzzer + alarm light flickers	
Power failure	None	Main power supply disconnection or fault	Power light flicker + buzzer + alternate temperature display of the screen	Check power supply
Battery	E5	Low battery or switch is not turned on	Buzzer + alarm light flickers + code	Check of battery or switch
Remote	None	Above alarms will trigger the remote alarm	-	-

Notes: Alarm for low battery need to be checked manually. After pressing the "Alarm test" button, if there is a fault, a code will be displayed and an alarm will be triggered

IX. Special precautions for installation and debugging

1. USB module is a standard configuration for this model. Please be sure to check and set the time of USB module;
2. For model with a printer as an optional configuration, please refer to the printer manual to check and set the time and printing mode of printer module;
3. This product is air cooling type, and do not place items too close, block the air duct or close to the air duct vertical board. Explain to users not to place items outside the upper and lower load lines.
4. This product has 4 universal casters and 2 feet, please tighten the feet to avoid product movement after installation commissioning, and explain the use method to the user;

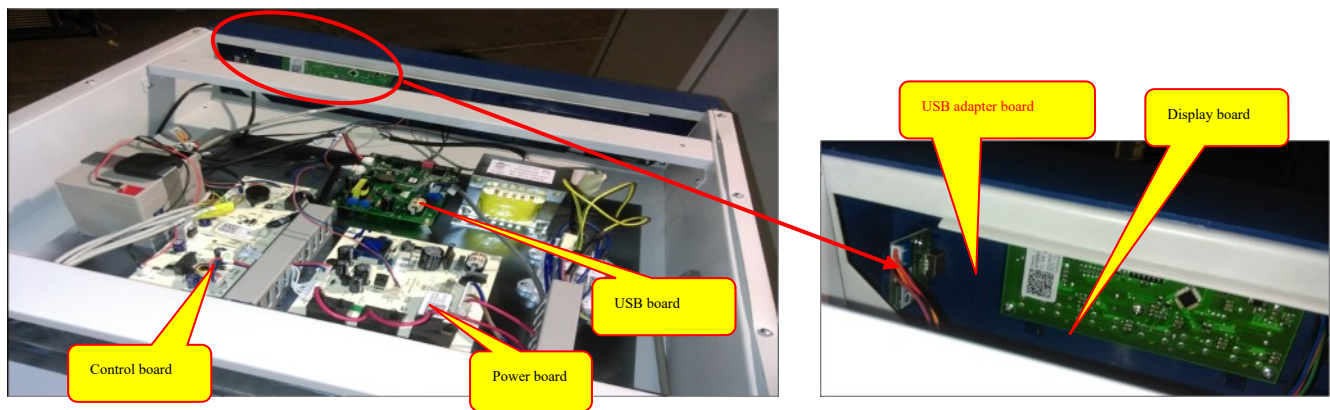
X. Key component replacement guide

1. Disassembly and assembly of computer board

(1) First, remove 5 screws that lock the top cover plate of machine compartment.



(2) Remove the top cover plate to find the computer board, and refer to the following figure for the specific position of computer board:



2. Sensor location

(1) First, remove screws fixing the inner fan plate.



(2) Remove the baffle of inner fan to find the temperature controller, alarm sensor and control sensor of the machine.



(3) The upper and lower temperature sensors are in the temperature organ of the air duct vertical board. Remove the air duct vertical board and evaporator to find the defrosting sensor, and refer to the following figure for the specific position:



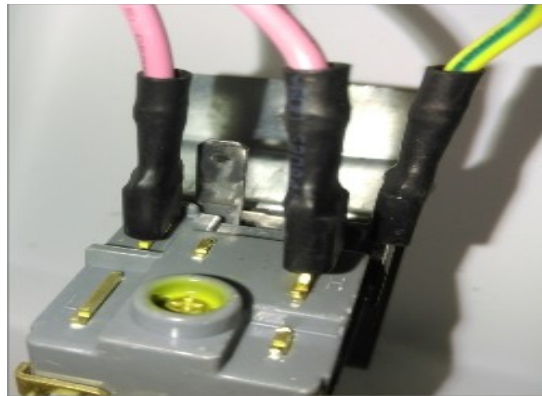
3. Defrosting heater wire

(1) The transformer in the upper machine compartment supplies power to the heating wire of the door body.



4. Position and wiring of mechanical thermostat

(1) Remove the baffle of inner fan to find the mechanical thermostat. (2) Wiring mode: The fire and zero wires are connected to the H end and C end, the ground wire is connected to the grounding terminal.



5. Location and piping connection of compressor

(1) Remove 5 screws of rear cover plate of lower machine compartment, and remove the rear cover plate to find the compressor.



(2) Conduct piping connection of the compressor. Note: Process pipe is used for air extraction and filling of compressor.

