

SERVICE MANUAL



Models

HM-05CC03/R1

HM-07CC03/R1

HM-09CC03/R1

HSM-08CC03/R1

● Features

- 3 Cooling and 3 Fan Speeds
- Auto Fan Function
- Dehumidification Function
- 24 Hour Auto Shut-Off Timer
- Easy-access Air Filter
- Easy-roll Casters
- LED Temperature Display
- Removable Water Container
- CFC Free Refrigerant

Serial Number:

Version:00.00

Edition: 2004-12-1



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каталоги, инструкции, сервисные мануалы, схемы.

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Product Code Illumination And Series Introduction

1. Model identification:

$\frac{H}{A}$ $\frac{S}{B}$ $\frac{M}{C}$ $\frac{\square\square}{D}$ $\frac{\square}{E}$ $\frac{\square}{F}$ $\frac{\square\square}{G}$ / $\frac{\square}{H}$

A: Abbreviation of Haier

B: Abbreviation of split

C: Abbreviation of mobile

F-Mechanical Control

D: Nominal cooling capacity (BTU/h) with the first two numbers based on one thousand unit

E: Function code

C-Cooling only

H-Heating pump

E-Electric aided heating

F: Developing sequence

G: The type of power supply

H: The kind of refrigerant

Examples:

HSM-08C03

---It represents split—mobile air conditioner. Cooling capacity is 8000BTU/H and the power supply is 220—230V/50Hz.

2. Standard situation/conditions

No.	Operating condition	Indoor air state		outdoor air state	
		D.B.°C	W.B.°C	D.B.°C	W.B.°C
1	Nominal cooling	30	26	30	26
2	Nominal heating	32	23	43	26
3	Nominal electrical heating	/	/	/	/

3. Brief introduction of mobile window air conditioner series

The product of mobile air conditioner is the new type of air conditioner developed by our company. Its main character is : there are four foot wheels in the bottom of indoor unit, which can move among every apartment of the room . For whole mobile air conditioner such as HM-05CC03/R1, HM-07CC03/R1, HM-09CC03/R1, HSM-08CC03/R1, heat between indoor unit and outdoor unit can be exchanged through Outdoor unit. Drainage of mobile air conditioner use the principle of gravity drainage ,having the advantage of easy installation without breaking the wall, so it is very popular with many consumers.

Specifications:

*The manufacture reserves the right to change any product specifications without notice.

		UNIT	HM-05CC03/R1	HM-07CC03/R1
Cooling capacity		BTU/h	5000	7000
Heating capacity		BTU/h	/	/
Power supply			1PH.220V-230V/~50Hz	1PH.220V-230V/~50Hz
Cooling	Power input	W	650	950
	Running current	A	3.0	4.0
	EER	BTU/(hw)	7.7	7.4
Heating	Power input	W	/	/
	Running current	A	/	/
	COP	BTU/(hw)	/	/
Sound level	Indoor side	db(A)	53	50
	Outdoor side	db(A)	/	/
Case	Length	mm	326	326
	Height	mm	788	788
	Width	mm	430	430
Packaging dimensions	Height	mm	857	857
	Width	mm	495	495
	Length	mm	475	475
Weight	Net	kg	32	32
	Gross	kg	35	34
Compressor	Type		TOSHIBA	TOSHIBA
	Model		PG108X1C	PG130X1C
	Running Cap..for comp.	μF	25	25
	Starting method		PSC	PSC
Pressure	Heating side	MPa	2.65	2.65
	Cooling side	MPa	0.65	0.65
Refrigerant	Model		R407C	R407C
	charge	kg	0.5	0.52
Fan	Type	Indoor unit		Inertial fan
		Outdoor unit		Inertial fan
		Hi	r/min	900
				1140

	Fan speed	Lo	r/min	750	1070
	Running capacitor		μF	30	30
Air direction control				60~70	60~70
Air volume Moisture removal				260	260
Moisture removal			m ³ /hr	1.6*10-3	1.6*10-3
Attestation			m ³ /hr	CE	CE
Exchanging pipe type/diameter				Evaporator. ? 7 condenser: ? 9	Evaporator. ? 7 condenser: ? 9
Fin factor			mm	/	/
Fin material				Hydrophile aluminum foil	Hydrophile aluminum foil
Case material				Electrical zinc board	Electrical zinc board
Type of capillary				? 1.2TP2Y	? 1.2TP2Y
Total area of evaporator			mm ²	1.77	1.77
Total area of condenser			mm ²	4.09	4.09
Pipe connection				/	/

Specifications:

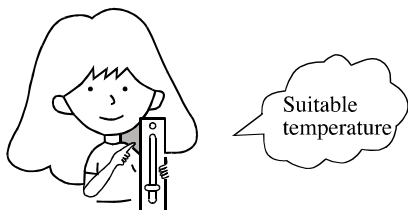
*The manufacture reserves the right to change any product specifications without notice.

		UNIT	HM-09CC03/R1	HM-08CC03/R1
Cooling capacity		BTU/h	9000	8000
Heating capacity		BTU/h	/	/
Power supply			1PH.220V-230V/~50Hz	1PH.220-230V/50Hz
Cooling	Power input	W	1080	1000
	Running current	A	4.8	5.0
	EER	BTU/(hw)	2.4	8.0
Heating	Power input	W	/	/
	Running current	A	/	/
	COP	BTU/(hw)	/	/
Sound level	Indoor side	db(A)	53	46
	Outdoor side	db(A)	/	55
Case	Length	mm	326	326
	Height	mm	788	788
	Width	mm	430	430
Packaging dimension s	Height	mm	857	1175
	Width	mm	495	578
	Length	mm	475	527
Weight	Net	kg	35	33+12.5
	Gross	kg	37	53
Compressor	Type		TOSHIBA	TOSHIBA
	Model		PG150X1C	PG150X1C
	Running Cap.for comp.	μF	25	25
	Starting method		PSC	PSC
Pressure	Heating side	MPa	2.65	2.65
	Cooling side	MPa	0.65	0.65
Refrigerant	Model		R407C	R407C
	charge	kg	0.73	0.8
Fan	Type	Indoor unit	Centrifugal fan	Inertial fan
		Outdoor unit	Axial fan	Axial fan

	Fan speed	Hi	r/min	1060	1100
		Lo	r/min	850	1070
	Running capacitor		μF		30
Air direction control				60~70	60~70
Air volume Moisture removal				350	300
Moisture removal			m ³ /hr	1.8*10-3	1.95*10-3
Attestation			m ³ /hr	CE	CE
Exchanging pipe type/diameter				Evaporator: ? 7 condenser: ? 9	Evaporator. ? 7 condenser: ? 9
Fin factor			mm		/
Fin material				Hydrophile aluminum foil	Hydrophile aluminum foil
Case material				Electrical zinc board	Electrical zinc board
Type of capillary				? 1.2TP2Y	? 1.2TP2Y
Total area of evaporator			mm ²	/	2.02
Total area of condenser			mm ²	/	4.67
Pipe connection				/	/

Safety and Precaution

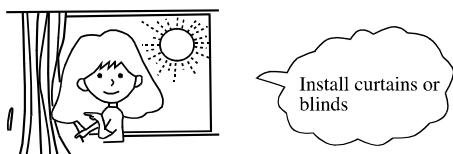
Suitable indoor temperature.



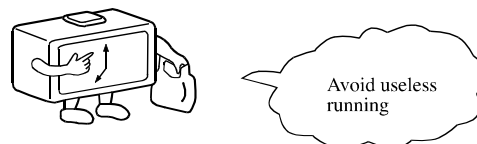
Cleaning of the air filter.



Close the doors and windows during running



Use the timer reasonably.



Do remember the following:

Do not splash water onto the machine.
Operation with wet hands is forbidden.

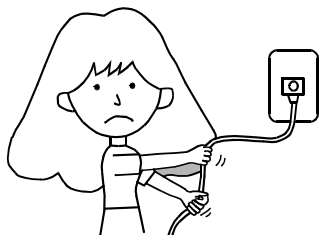
Don't insert wood bar, steel wire into the unit avoiding any hazards or faults.

No obstructions allowed at the air inlet and outlet.

Don't blow cool wind directly to the body for a long time avoiding getting cold.

Don't make the cool wind to blow the plant directly.

Do not pull the power line with hands.



Do not use it in other fields: storage of foods, feeding animals, plantings, etc.



Warning and Cautions

Disposal of the old air conditioner

Before disposing an old air conditioner that goes out of use, please make sure it's inoperative and safe. Unplug the air conditioner in order to avoid the risk of child entrapment.

It must be noticed that air conditioner system contains refrigerants, which require specialized waste disposal. The valuable materials contained in a air conditioner can be recycled. Contact your local waste disposal center for proper disposal of an old air conditioner and contact your local authority or your dealer if you have any question. Please ensure that the pipework of your air conditioner does not get damaged prior to being picked up by the relevant waste disposal center, and contribute to environmental awareness by insisting on an appropriate, anti-pollution method of disposal

Disposal of the packaging of your new air conditioner

All the packaging materials employed in the package of your new conditioner may be disposed without any danger to the environment.

The cardboard box may be broken or cut into smaller pieces and given to a waste paper disposal service. The wrapping bag made of polyethylene and the polyethylene foam pads contain no fluorochloric hydrocarbon.

All these valuable materials may be taken to a waste collecting center and used again after adequate recycling.

Consult your local authorities for the name and address of the waste materials collecting centers and waste paper disposal services nearest to your house.

Safety Instructions and Warnings

Before starting the air conditioner, read the information given in the User's Guide carefully. The user's Guide contains very important observations relating to the assembly, operation and maintenance of the air conditioner.

The manufacturer does not accept responsibility for any damages that may arise due to non-observation of the following instruction.

- Damaged air conditioners are not to be put into operation. In case of doubt, consult your supplier.
- Use of the air conditioner is to be carried out in strict compliance with the relative instructions set forth in the User's Guide.
- Installation shall be done by professional people, don't install unit by yourself.

Warning and Cautions

- For the purpose of safety, the air conditioner must be properly grounded in accordance with specifications.
- Always remember to unplug air conditioner before opening inlet grill, Never unplug your air conditioner by pulling on the power cord. Always grip plug firmly and pull straight out from the outlet.
- All electrical repairs must be carried out by qualified electricians. Inadequate repairs may result in a major source of danger for the user of the air conditioner.
- Do not damage any parts of the air conditioner that carry refrigerant by piercing or perforating the air conditioner's tubes with sharp or pointed items, crushing or twisting any tubes, or scraping the coatings off the surfaces. If the refrigerant spurts out and gets into eyes, it may result in serious eye injuries.
- Do not obstruct or cover the ventilation grille of the air conditioner. Do not put fingers or any other things into the inlet/outlet and swing louver.
- Do not allow children to play with the air conditioner. In no case should children be allowed to sit on the outdoor unit.

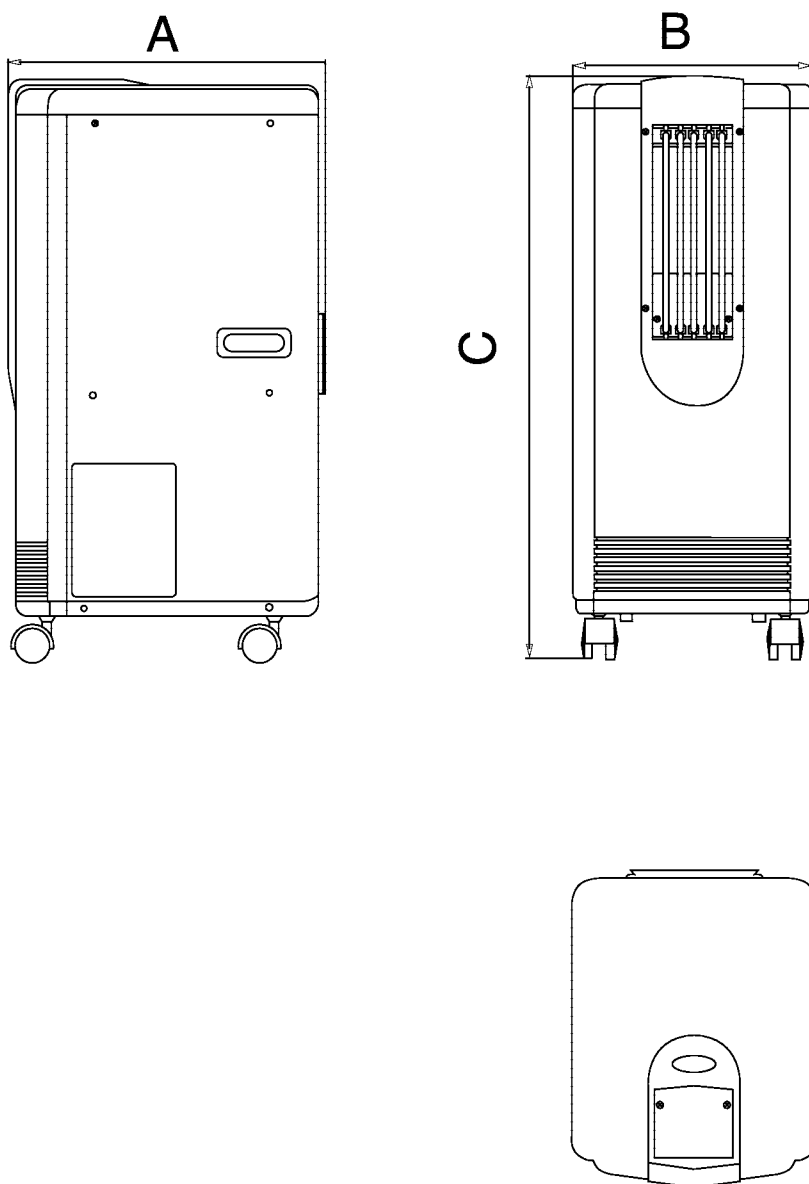
Specifications

- The refrigerating circuit is leak-proof.
- Remark per EMC Directive 89/336/EEC

To prevent flicker impression during the start of the compressor (Technical Process) and the adversely influence caused by the 2nd harmonics of compressor following installation conditions do apply:

1. The power connection for the air conditioner has to be done at the main power distribution. This distribution has to be of a low impedance. Normally the required impedance is reached at a 32A fusing point.
2. No other equipment has to be connected to this power line.
3. For the detailed installation acceptance please refer to your contract with the power supplier, if restrictions do apply for products like washing machines, air conditioners or electrical ovens.
4. For the details of the power of air conditioner, please refer to the rating plate of the product.
5. For any question contact your local dealer.

Net dimension



Width	Height	Length
A :420	B :330	C :800

Installation and Accessory parts

In order to make the air conditioner to work effectively, first need to calculate the cooling capacity of the air conditioner, according to the room size and surroundings. After selecting a proper one and putting it in a suitable work place, please confirm the place to install the air conditioner referring to the following instruction:

1. Better install the outdoor unit in the outdoors to make an easy heat exchange. The ideal place: out of window, balcony, corridor and so on. To make the outdoor have an easy heat exchange, please leave the distance between the back of outdoor unit and the wall or other things no less than 5CM. (Fig.1)

The specific installation process refers to installation.

NOTE:

The bracket to support the outdoor unit should be strong and firm, and endure the pressure of the unit. Regularly check the bracket about its firm condition and rusted degree to avoid accidents.

Only using the connecting pipe to hang the outdoor unit is definitely forbidden.

2. The left side of indoor unit should leave the objects (such as curtain, wall, etc) no less than 20CM. To guarantee smooth ventilation the alien things should not block outlet. (Fig.2)

3. The connecting pipe can cross the chink of the window. When the unit in operation, the window should be closed as tight as possible to avoid the loss of energy. (Fig.3)

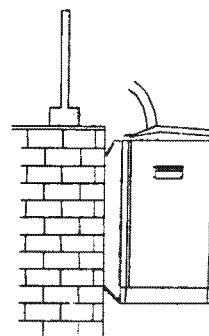


Fig. 1

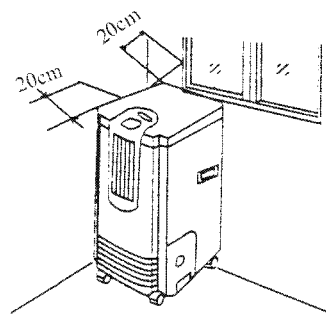


Fig. 2

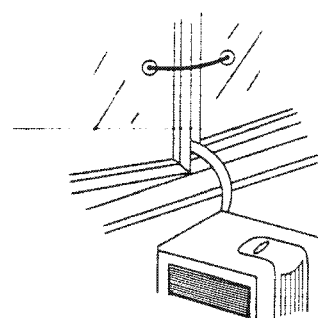


Fig. 3

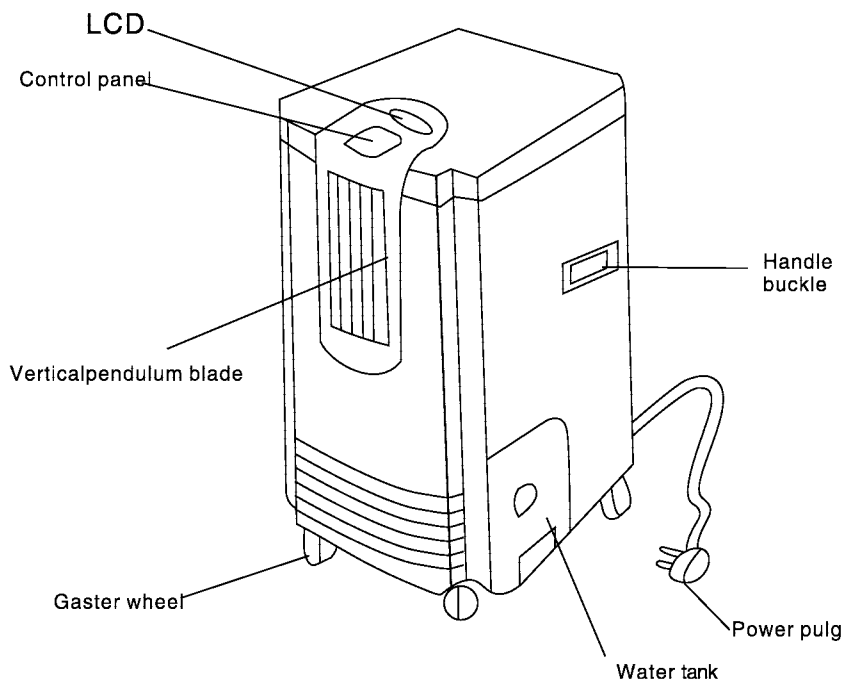
Parts and Functions

HM-05CC03/R1 HM-07CC03/R1 HM-09CC03/R1

Main components and accessories

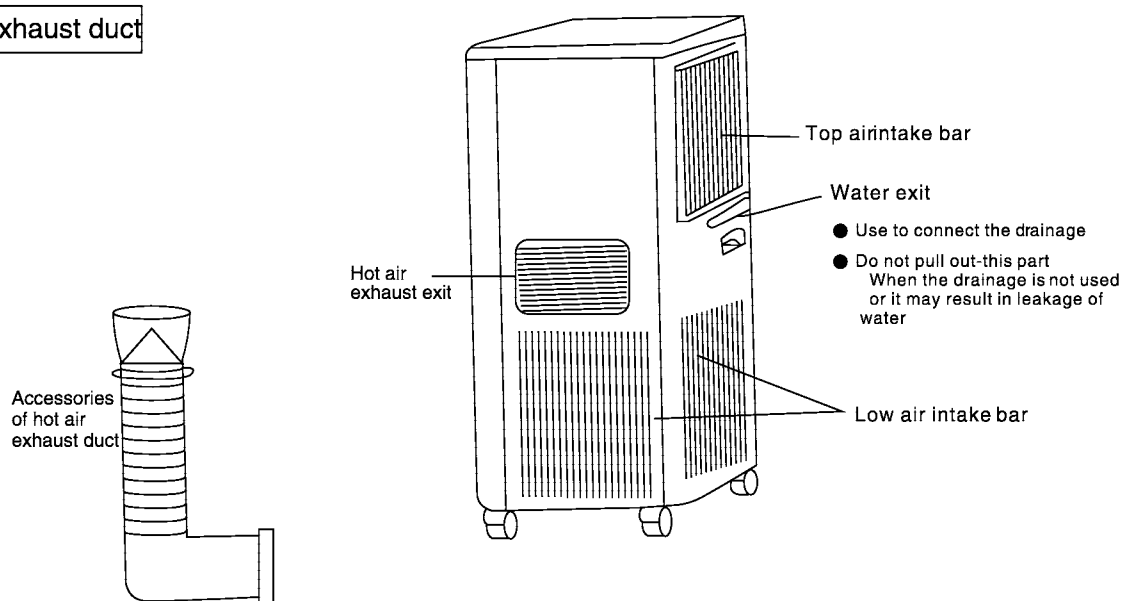
Machine body

Front

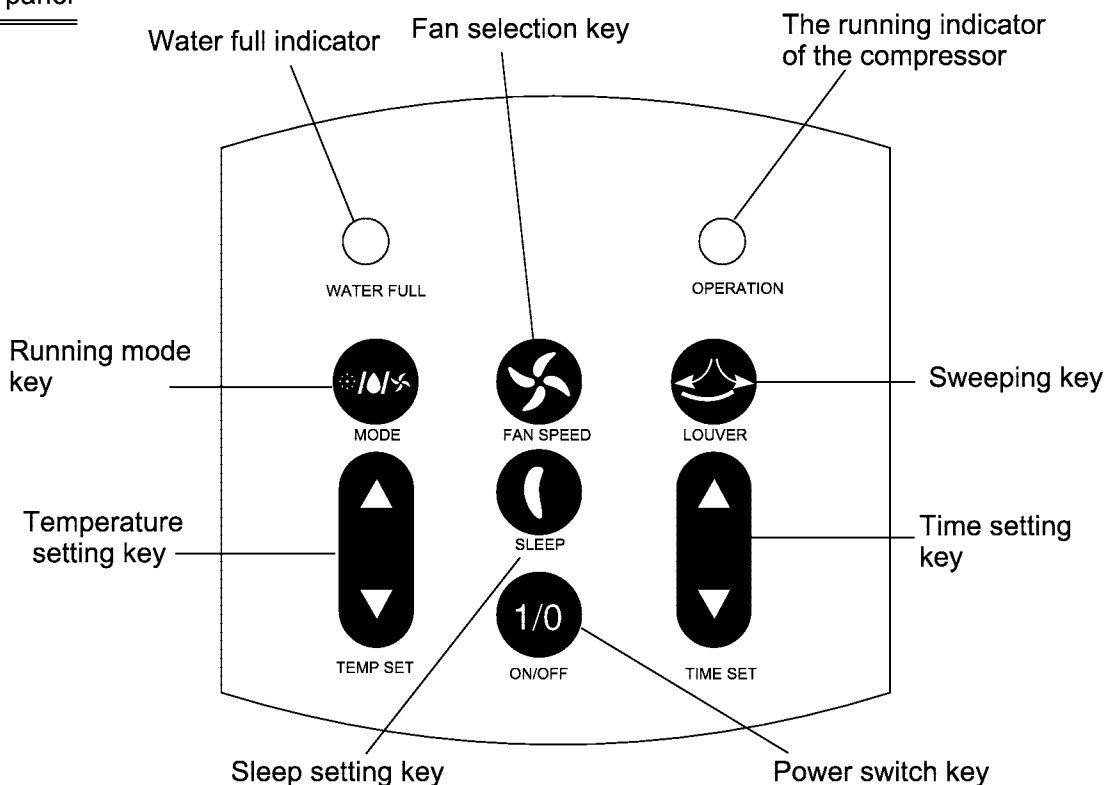


Back

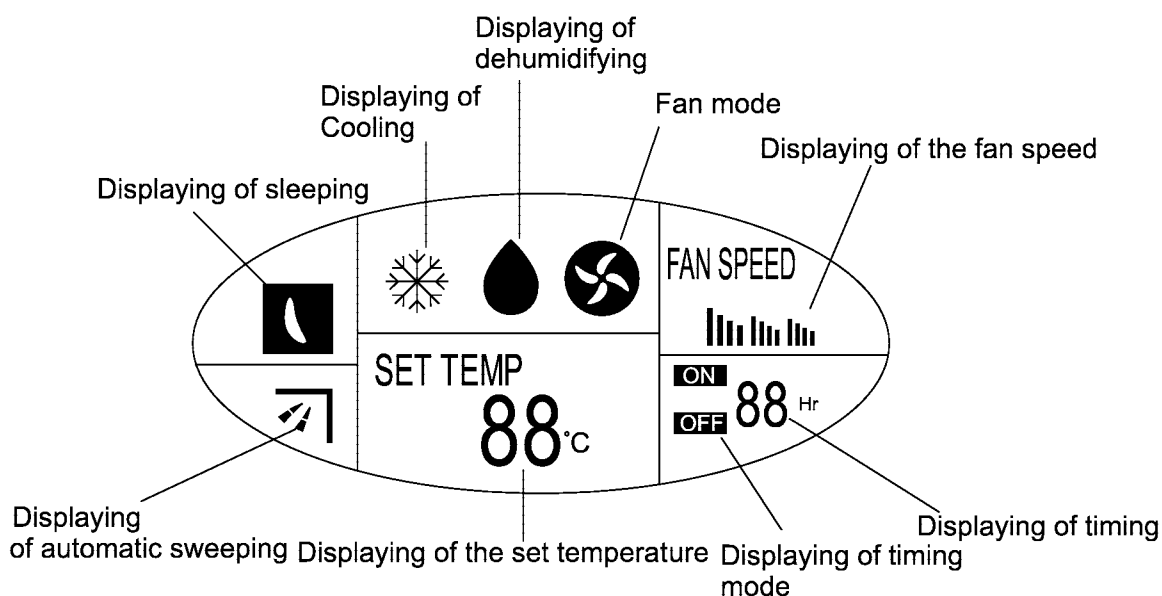
Hot air exhaust duct



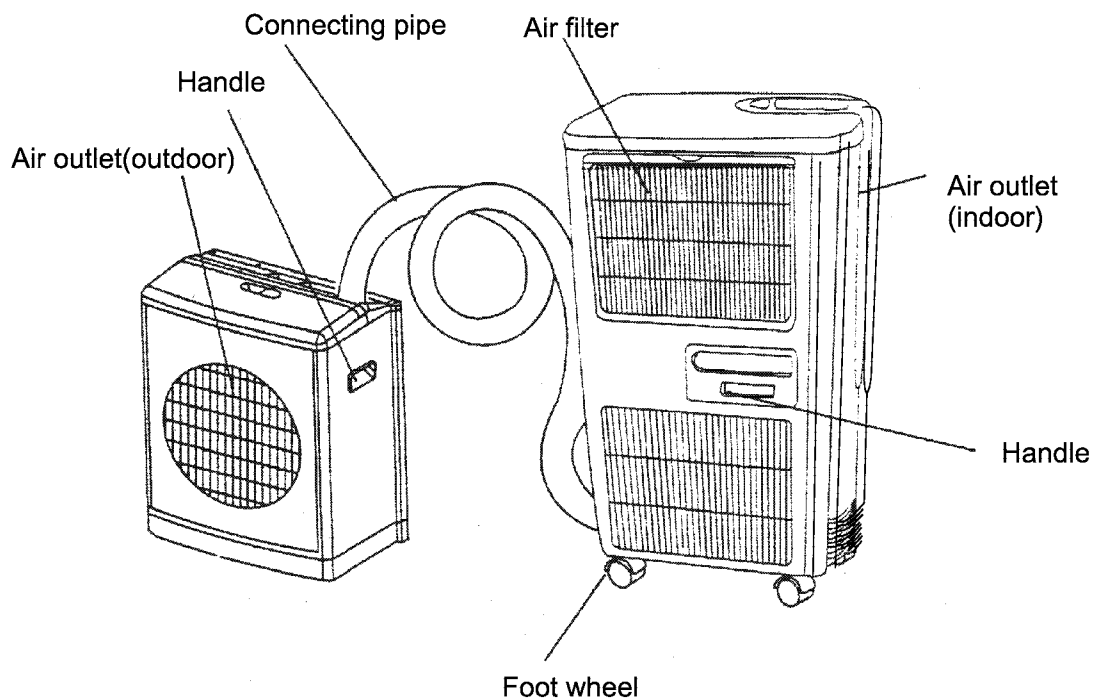
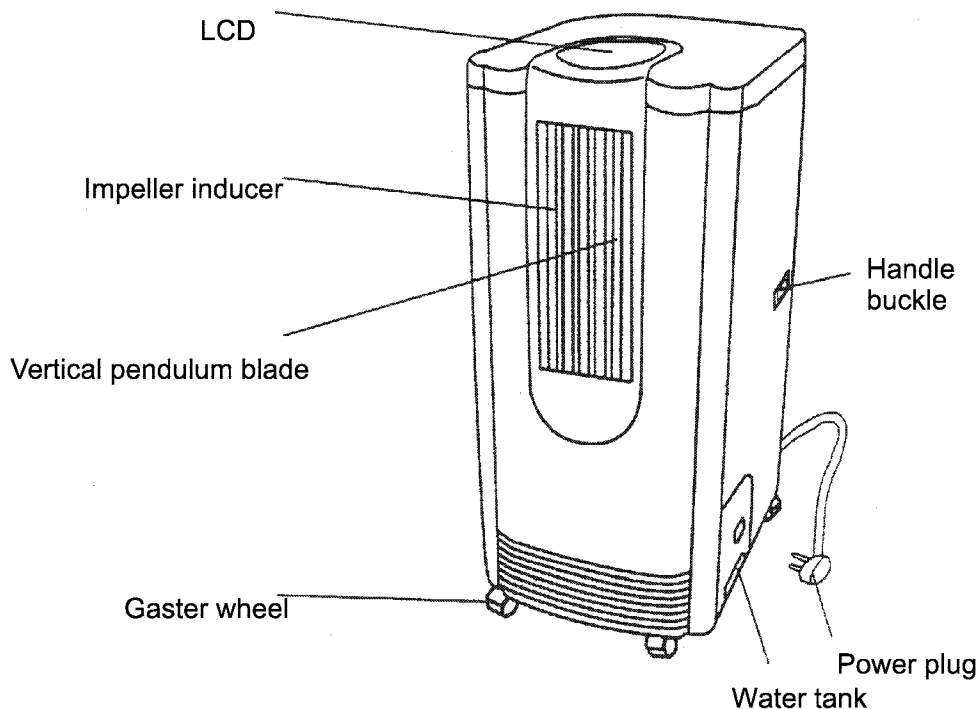
Control panel



LCD window



HM-08CC03/R1



Function schedule

1. Running Mode Key

press the key to choose from three running mode: cooling → dehumidifying → Fan. The LCD window displays correspondingly: ❄️ → 💧 → 🌀

2. Fan Selection Key

Press the key to choose from three fan speed: high → middle → low. The LCD window displays correspondingly: 🌀🌀🌀 → 🌀🌀 → 🌀

3. Sweep key:

Press the key to enable automatic side-to-side sweeping of the indoor air. The LCD window displays ; press the key again to fix the indoor air at present direction.

4. Temperature Setting key

Press the key to set the temperature between 10-30°C. Each press of the  part will increase the temperature for 1°C, each press of the  part will decrease the temperature for 1°C. The temperature will be displayed in the LCD window.

5. Sleep Setting key

Press the key to set or cancel Sleep Mode. When the LCD window displays  the air conditioner is under Sleep Mode. Press again to cancel the Sleep Mode, and the signal will disappear on the LCD window.

6. Power Switch key

Power Switch on/off the power of the air conditioner.

7. Time Setting key:

Press the key to set or cancel the Time Mode, or set time between 1-24/hours. Each press of the  part will add one hour, which will be displayed on the LCD window, each pressing of the  part will reduce one hour, if it shows 1 hour. Press once to cancel the timing.

8. Water Full indicator:

When the water tank is filled with water, the indicator will flash, and alarm with beep. The compressor stops working. The air conditioner enters fan mode. Please take out the water tank. Pour the condensed water, then replace it. The air conditioner runs as per the mode before stopping of the compressor (the compressor can only start after 3 minutes of time-delay protection).

9. The run indicator of the compressor:

In cooling or dehumidifying mode, the indicator will be on in the running of the compressor.

System flow chart

(1) Refrigerant

HM-05CC03/R1 uses freon R407C as its refrigerant, when leaving factory, refrigerant charge is 0.5kg.

HM-07CC03/R1 uses freon R407C as its refrigerant, when leaving factory, refrigerant charge is 0.7kg.

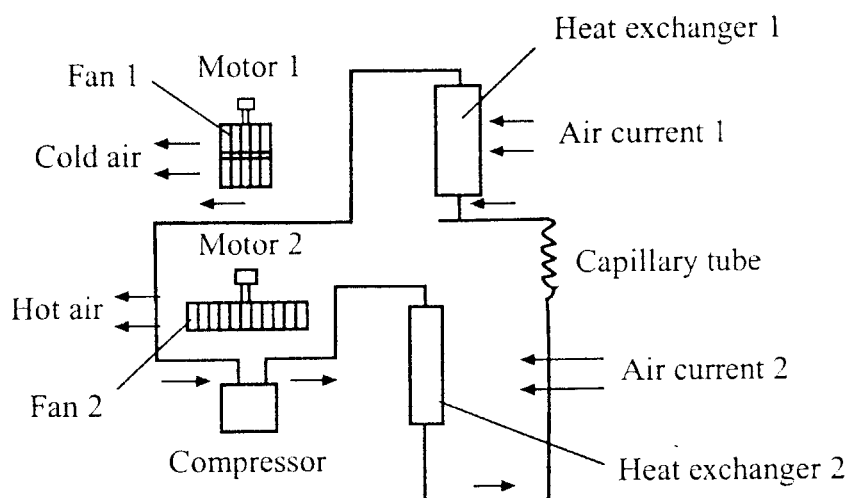
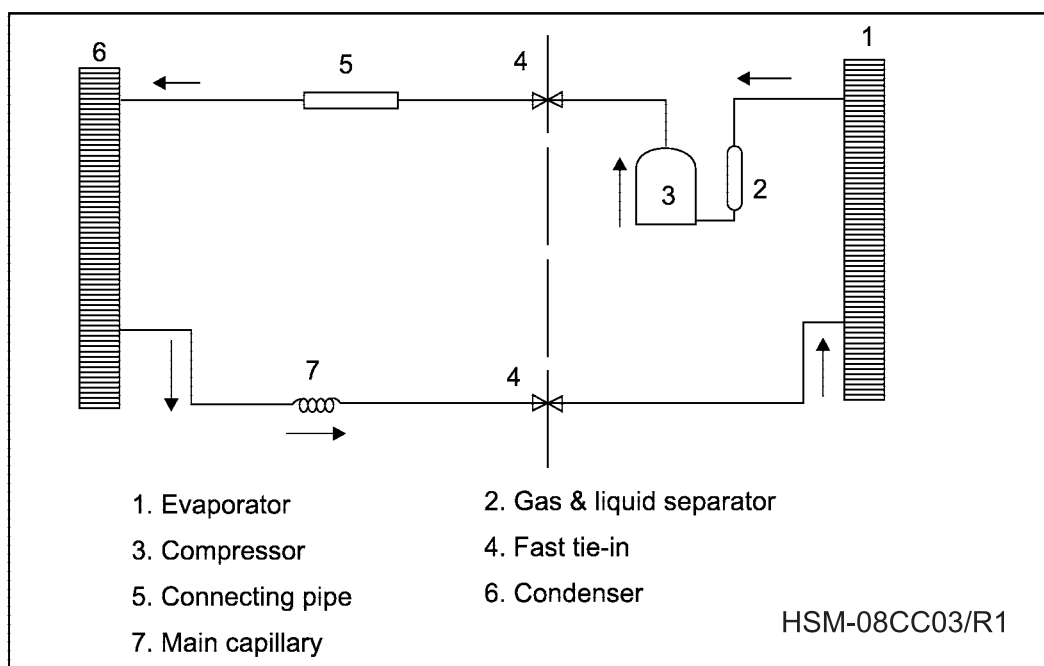
HM-09CC03/R1 uses freon R407C as its refrigerant, when leaving factory, refrigerant charge is 0.73kg.

HSM-08CC03/R1 uses freon R407C as its refrigerant, when leaving factory, refrigerant charge is 0.8kg.

(2) system vacuumize:

After whole set of mobile air conditioner assembling is finished, use vacuum pump to draw out air and water in the indoor unit. System vacuum tolerance will be under 200Pa.

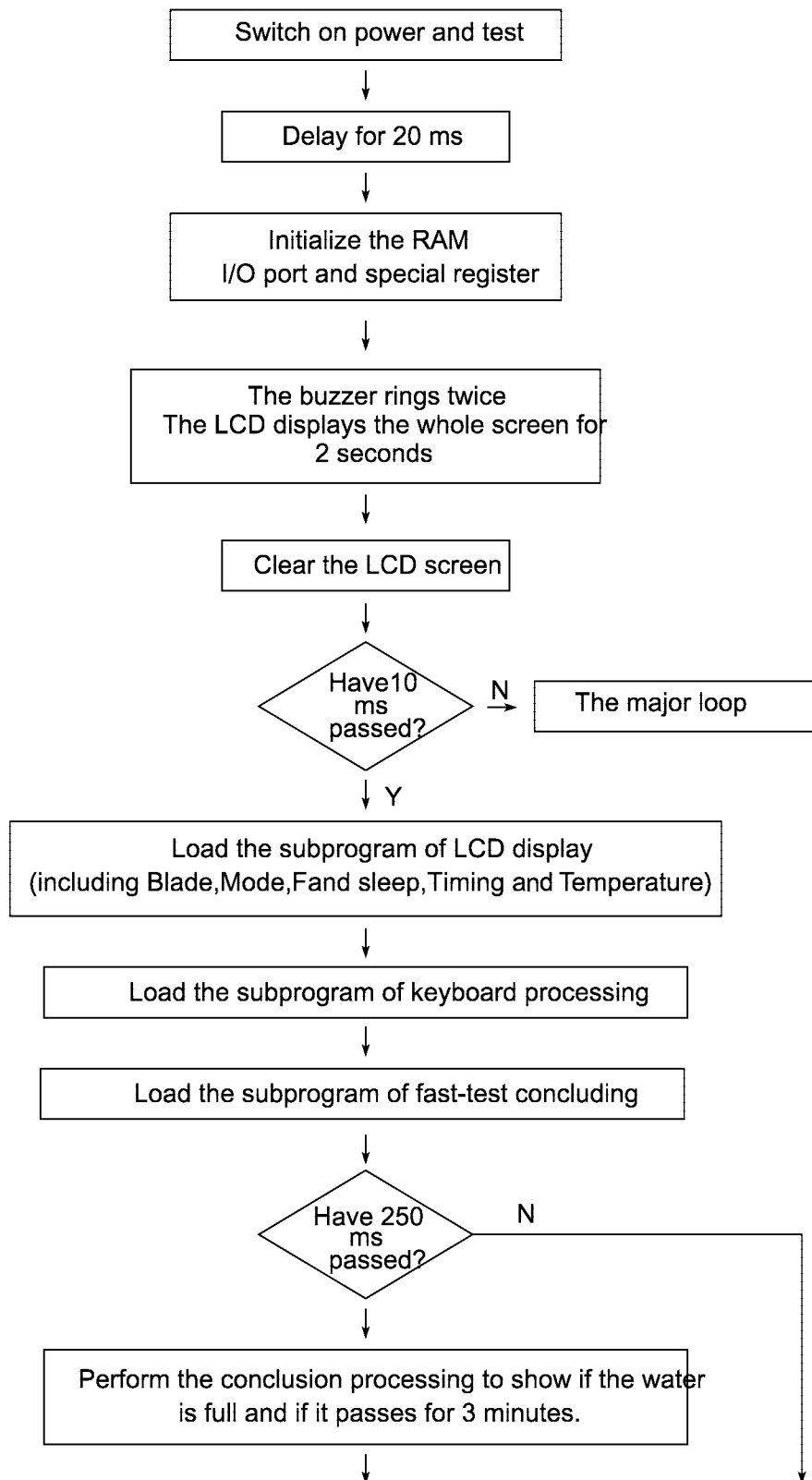
(3) Diagram of pipe system:

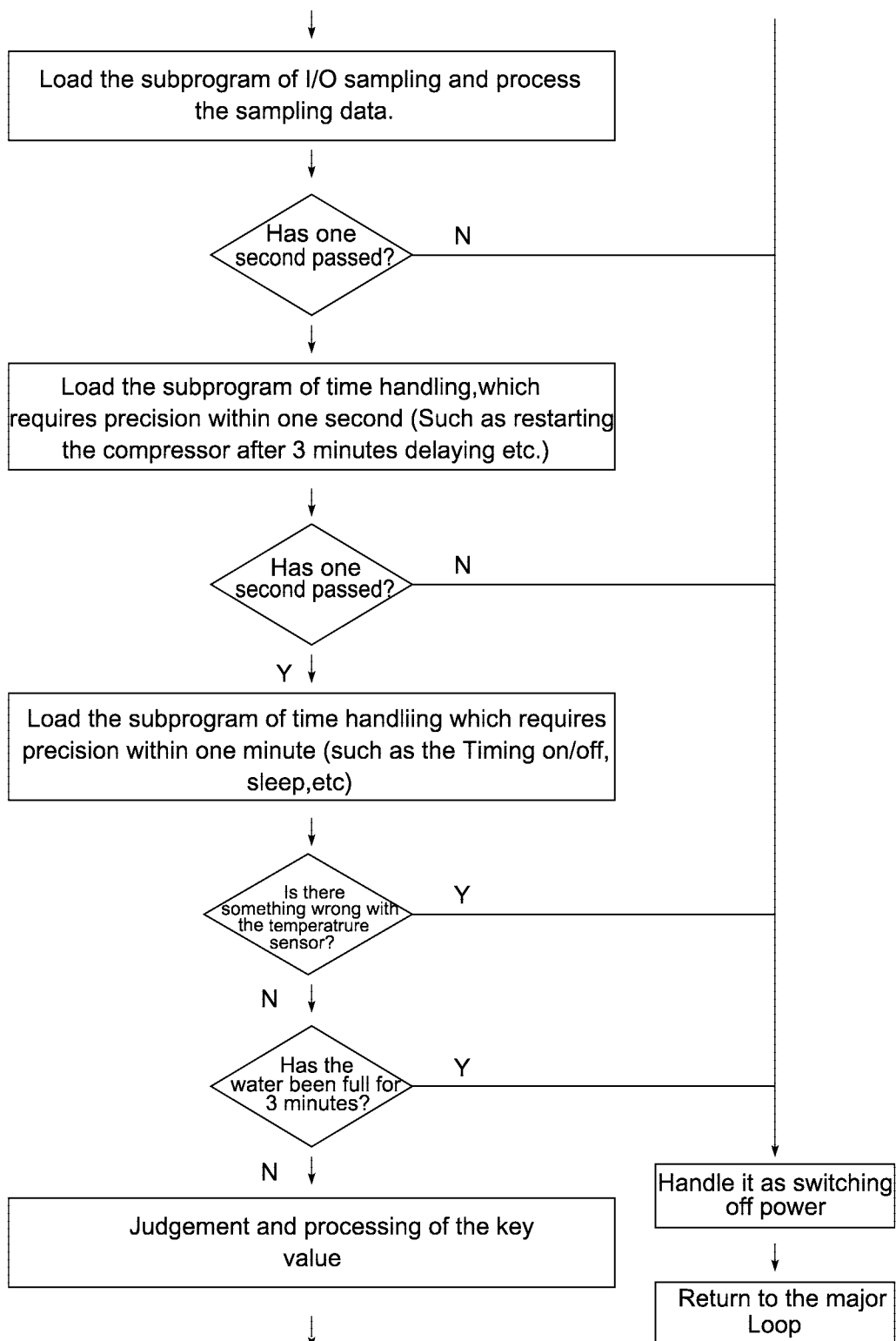


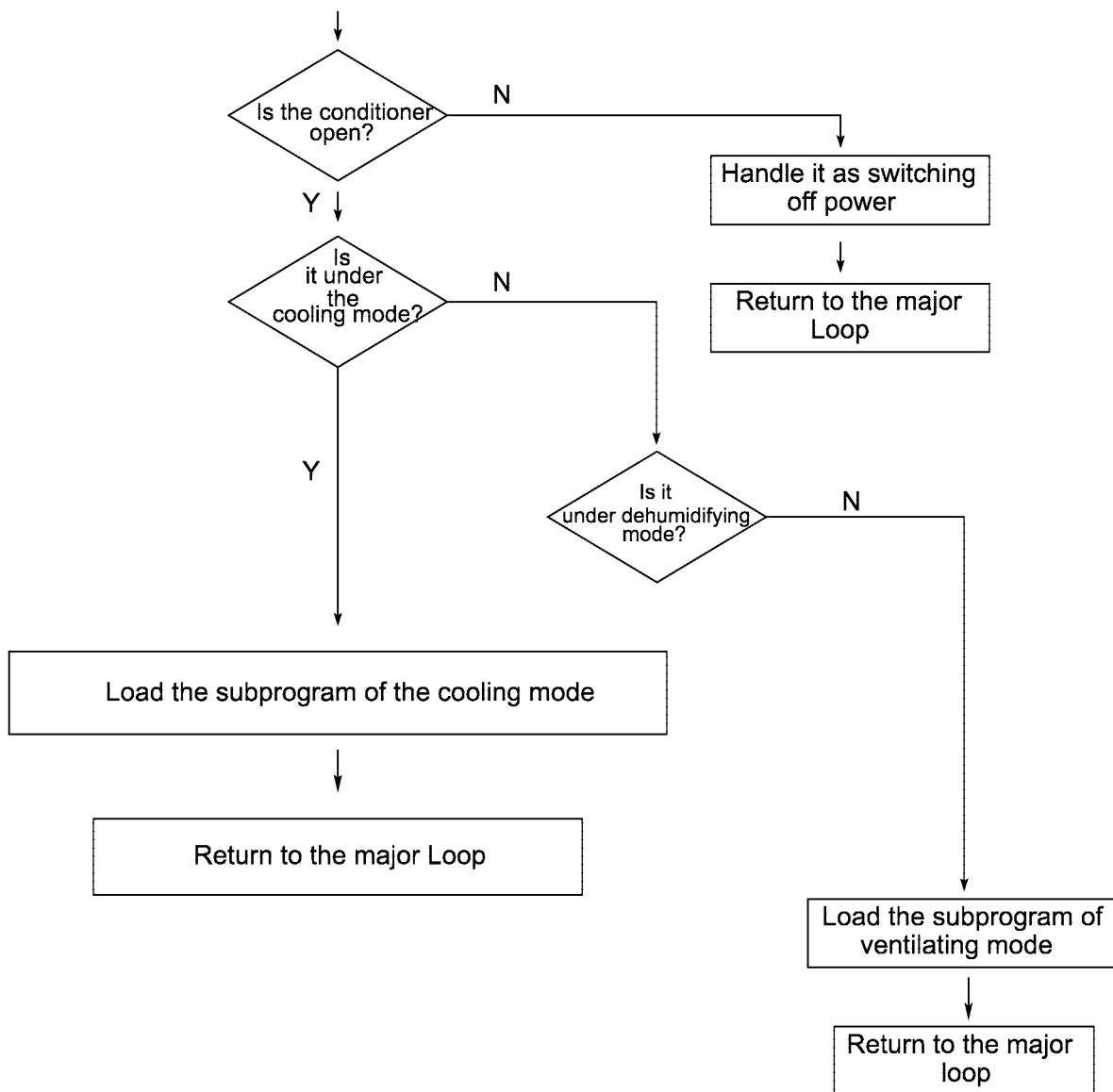
HM-05CC03/R1, HM-07CC03/R1, HM-09CC03/R1

Program diagramme

Flow chart for operation







Maintenance service and Trouble shooting

9.1.Maintenance manual

1) Functional instruction

- 1.Run mode:cooling → dehumidifying → air flowing
- 2.Fan adjusting:HI → MID →LO
- 3.Timing:Timing on 1-24 h
Timing off 1-24 h
- 4.The set temperature range:15℃ -30℃
- 5.Swing automatic swing or fix at a point
- 6.Sleep:8 hours

2)Instruction of the run mode:

1Cooling mode:

- (1)The inner initialized set temperature is 24℃ and the initialized fan is HI.
- (2)The fan speed is adjustable, in turn of HI → MID → LO
- (3)Adjusting of the temperature:
Each pressing of the“△”key will increase the set temperature for 1℃ till it reaches30℃ , Each pressing of the“▽”key will decrease the set temperature for1℃,till it reaches 15℃
- (4)Adjusting of the air direction:
Under the mode of inner fan running, the air direction can be adjusted by the synchro motor to control the starting and closing of the motor

2.Dehumidifying mode:

(1)The fan speed is not adjustable

In case of the ambient temperature>15℃,the fan speed is LO.and compressor is open;
In case of 12℃ ≤ambient temperature ≤15℃,the fan speed is MID,the compressor is open;
In case of ambient temperature ≤12℃ ,the fan speed is Lo,and the compressor and nter fan are hot open,only the inner fan sends air;

- (2)The air direction is adjustable.
- (3)The set temperature is not adjustable.

3. Air supply mode:

- (1) The compressor and outer fan are close and only the inner fan is open,The fan speed can be adjusted in turn of HI →MID → LO.
- (2) The set temperature is not adjustable.

4. Protection function

(1) Water full protection

Under any mode, when the water full protection is detected to be activated,the buzzer will beep several times consecutively,and the water full alarm lamp will flash on and off with a 0.5 second frequency.The compressor and outer fan will stop running It will enter air supply mode The inner fanwill run at the former speed.If the water full protection is released in 3 minutes,the controller will run under previous set mode and the water full alarm lamp will be off.If it is not released in 3 minutes, the inner fan will stop running either and whole machine is under stand-by mode,.But the water full alarm lamp will keep on flashing till it is released.

2.Protection against freezing

When the coiled pipe temperature sensor detects that the surface temperature of the evaporator $T \leq -2^{\circ}\text{C}$,the compressor and the fan will stop running,the inner fan will run at HI speed and the Fan key will be impotent.When the detected temperature>-8℃ and the stop time of the compressor is longer than 3 minutes, the compressor and the onter fan will be started and the inner fan runs at set fan speed.

3. Protection of the compressor

The compressor must be restarted after 3 minutes from the former stop, except for the power failure.

5) Sleep protection

1. the function is only activated under cooling mode, and important under other modes.

2. After one hour running under cooling sleep, the set temperature will rise for 1°C, and rise for another 1°C after one another hour, after another 6 hours of running the complete machine will be shut down.

3. In case that Sleep and Timing Off are set at the same time, the first important not will be activated.

4. In Sleep mode the Timing On will be important.

6) Timing function

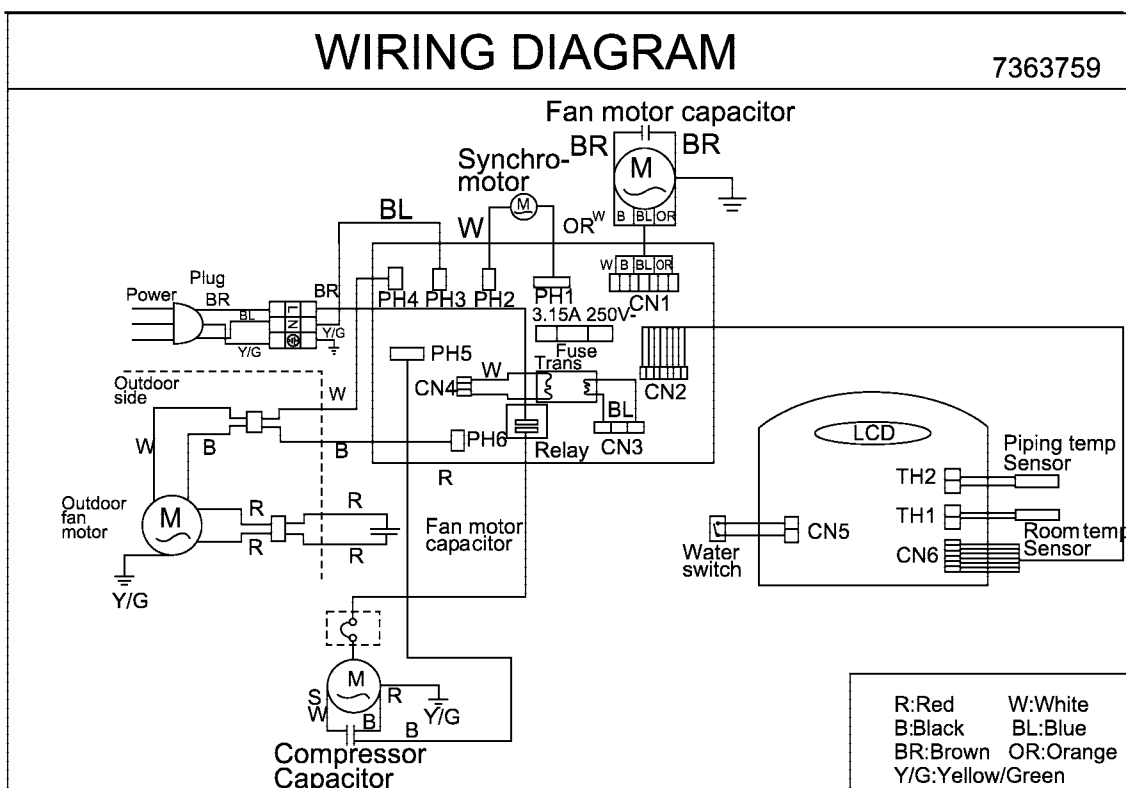
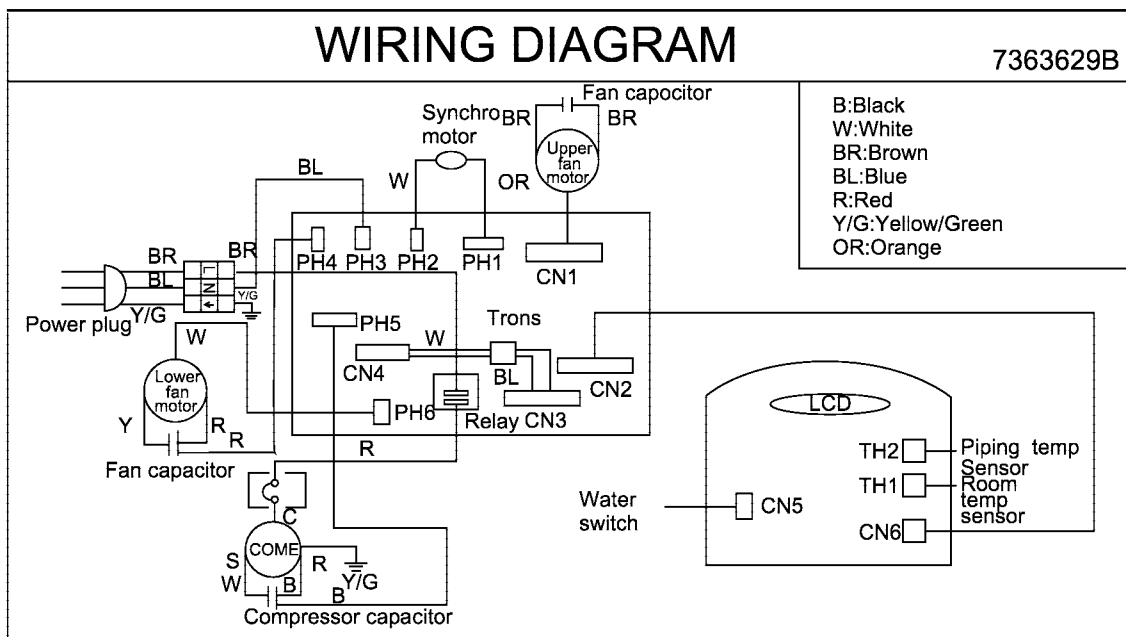
1. The timing Off can be set when the machine is running; the Timing On can be set when the machine is shut down.

2. The timing range is 1-24h;

Each pressing of the “” key will raise the set time for 1h; each pressing of the “” key will reduce the set time for 1h. When it is added to 24h the “” key or “” key will cancel the timing.

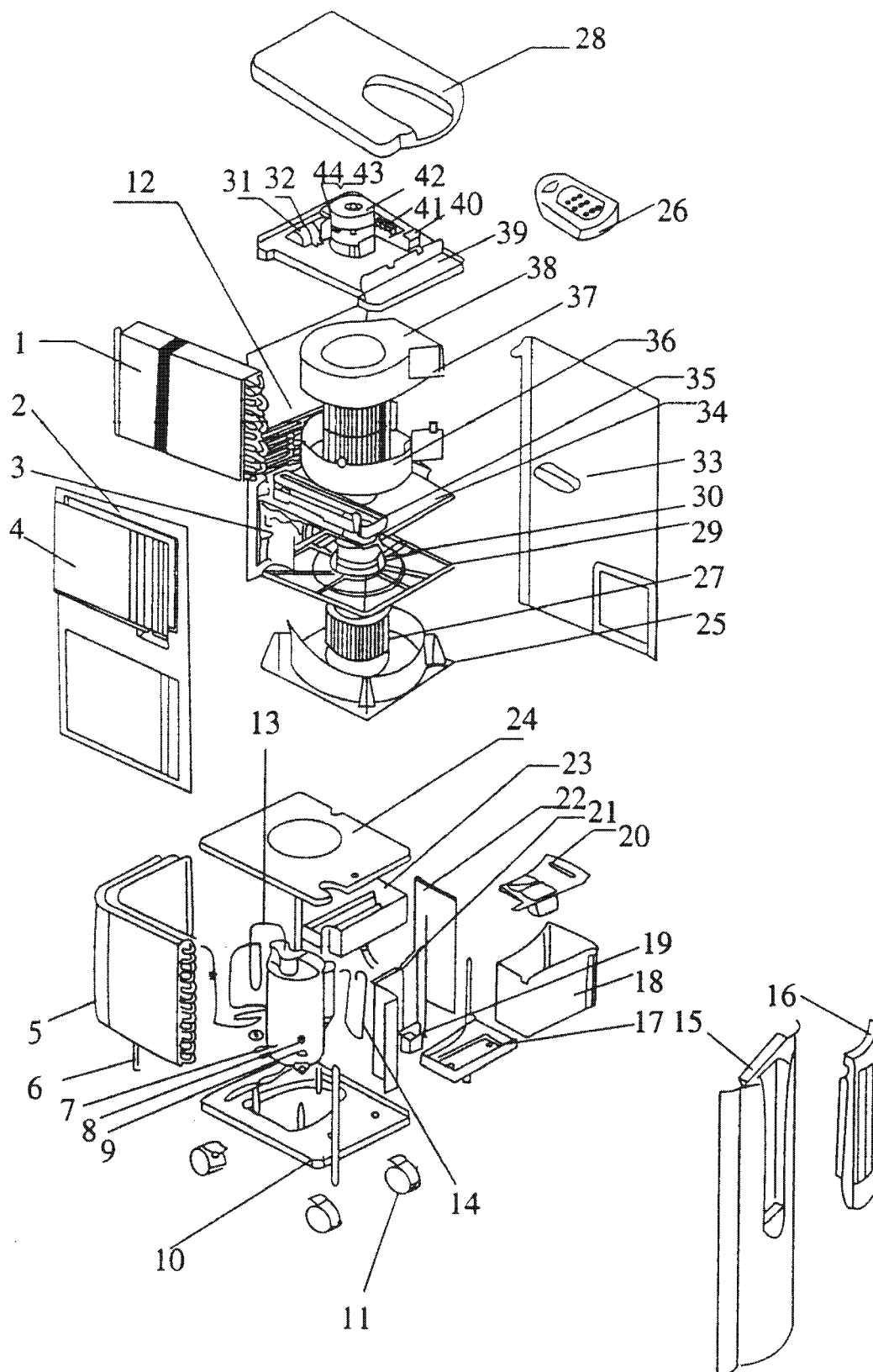
No.	Phenomenon	Reason	Remedy
1	The complete machine does not start without any reflection after the power is switched on	☐ No power supply or abnormal power supply ☐ The fuse is broken ☐ The corrugated copper plate is burnt ☐ The L end and compressor end of the compressor relay are mixed up ☐ The plug between the high electrolite and the weak electrolite, or between the transformer and transformer and the circuit board is loose.	● Check if the power line and plugs are well ● Replace the fuse ● Check out the reason of burning, and welding the copper plate after debugging ● Change the terminals ● Insert the plug firmly
2	The LCD displays, but the complete machine can not start.	☐ The indoor temperature sensor pack is with open circuit ☐ The water tank is full or the water level seitch is with short circuit	● Check the circuit of the temperature sensor pack ● Discharge the water or check the circuit of the water level switch.
3	The refrigerating works with bad effect	☐ The refrigerating medium is leaking. ☐ The refrigerating system is blocked. ☐ The compressor is broken down. ☐ The air circulation is bad ☐ The fan setting is not reasonable.	● Detect the leakage and fill the refrigerating medium. ● Clean the pipeline system. and fill again. ● Replace the compressor. ● Clean the filter screen. ● Set reasonable fan speed.
4	The noise is large.	☐ The components are loosen. ☐ The fan is off-center. ☐ The compressor is broken down.	● Find out the loosen part and fasten it ● Replace the fan ● Replace the compressor.
5	Th machine does not stop after the water is full	The water level switch is with open circuit.	Check and repair the water level switch circuit.
6	The sweep fins do not move or move abnormally.	☐ The connector of the sweep motor is loosen. ☐ The spot weld of the sweep motor is with rosin joint. ☐ The sweep motor is broken down. ☐ There's mechanical resistance with the sweep mechanism.	● Repair or replace the connector. ● Weld the spot to be under good condition. ● Replace the sweep motor. ● Repair or replace the sweep spindle, pitman, pins.
7	The LCD is not complete or not clear	☐ The LCD foot is with rosin joint ☐ The LCD is broken down.	● Check the spot weld. ● Replace the LCD or major control board.

Wiring diagram

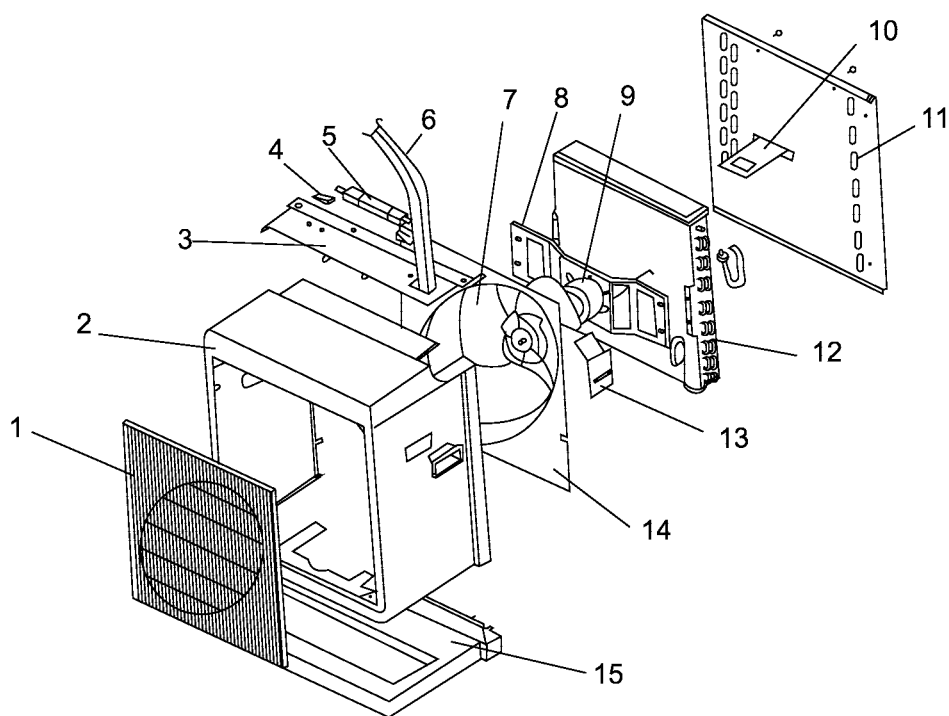


Exploded view and parts lists (Indoors unit and Outdoor unit)

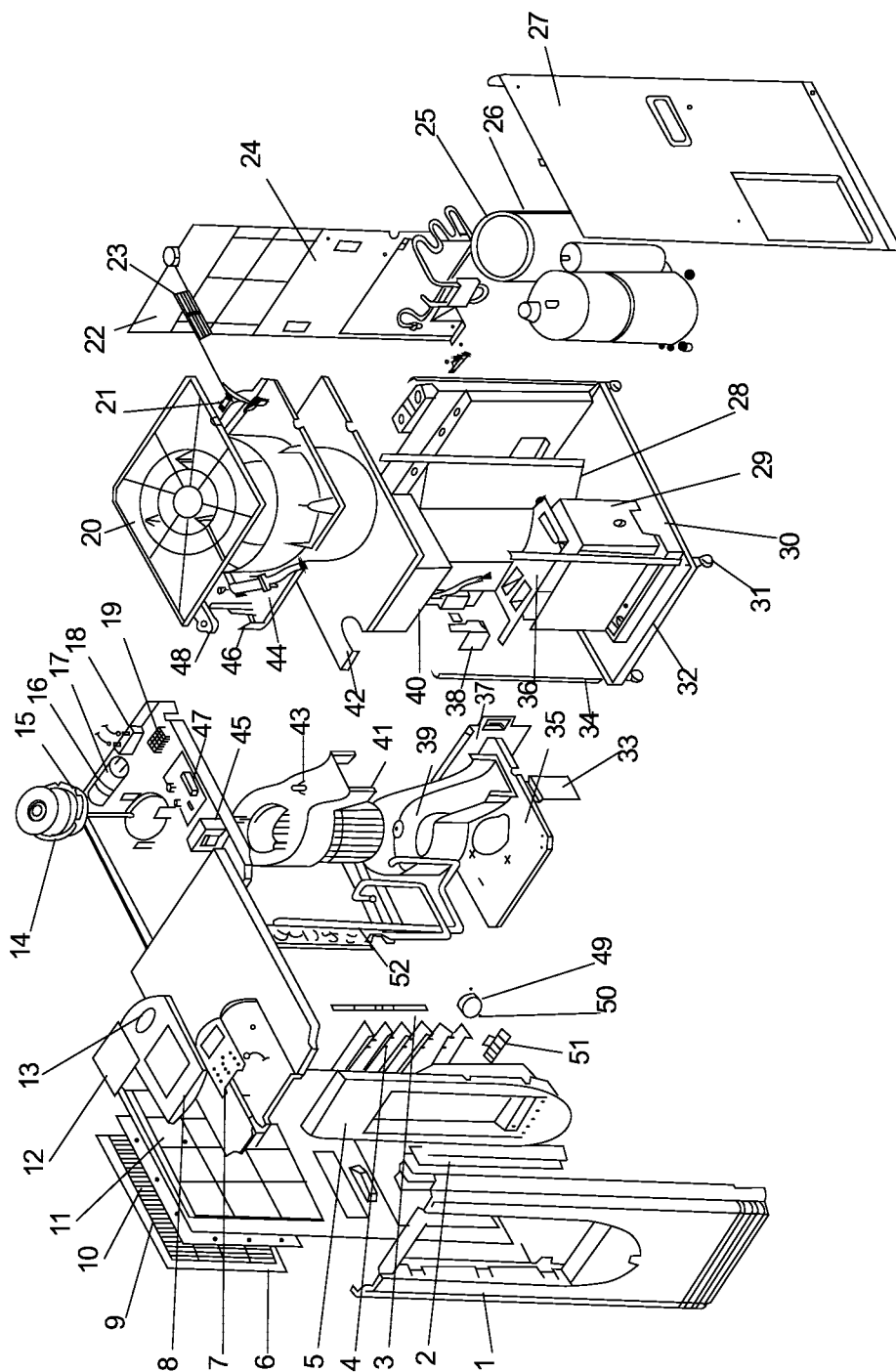
Model: HM-09CC03/R1 HM07CC03/R1 HM-05CC03/R1



Model:HSM-08CC03/R1 (Outdoor)



Model:HSM-08CC03/R1(indoor)



Model:HM-05CC03/R1

No. in exploded view	Spare parts description in english	Spare parts number	Qty
1	evaporator	0010701838	1
2	side plate .left	001A1231144	1
3	draw board	001A1301332	2
4	Indoor intake bar	001A1231149	1
5	Condenser assembly	001A0400081	1
6	Support bar	001A1301331	4
7	Compressor	0010701835	1
8	Nut special	001A5102050	3
9	cushion rubber	001A1754742	3
10	bottom plate	001A1101090	1
11	Wheel	001A1431503	4
12	Rear panel	001A1231148	1
13	Discharge pipe	001B2111740	1
14	Suction pipe	0010703836	1
15	Front plate	001A1231142	1
16	Front panel	001A0100286	1
17	Storage tank base bord	001A1431507	1
18	Storage tank	001A1231145	1
19	Micro switch	001A3400063	1
20	Storage tank cover	001A1436506	1
21	Partituion plate assy	001A1101086	1
22	Protective plate	001A1101088	1
23	Drain pan	001A1231158	1
24	Cover	001A1101089	1
25	Vendiuct(outdoor)	001A1231157	1
26	Cover panel	001A1231147	1
27	Outside fan	001A1231160	1
28	Cover	001A1231146	1
29	Vendiuct cover(outdoor)	001A1231153	1
30	Motor(down)	001A3000079	1
31	Compressor capacitor	001A3600008	1
32	Capacitor clamp	0010100001	1
33	Side plate right	001A1231145	1
34	Support plate	001A1301338	1
35	Drain pan	001A1436499	1

36	Vendiduct(indoor .down)	001A1231152	1
37	Inside fan	001A1231159	1
38	Vendiduct(indoor .up)	001A3800063	1
39	Electric board	001A1231154	1
40	Transformer	001A3800063	1
41	Control board	001A3300092	1
42	Motor(up)	0010403615	1
43	Fan capacitor(up)	001A3600007	1
44	Motor capacitor(down)	001A3600098	1

Model:HM-07CC03/R1

No. in exploded view	Spare parts description in english	Spare parts number	Qty
1	evaporator	001A0400080	1
2	side plate .left	001A1231144	1
2-1	Air filter	0010201974	1
3	draw board	001A1301332	2
4	Indoor intake bar	001A1231149	1
5	Condenser assembly	001A0400081	1
6	Support bar	001A1301331	4
7	Compressor	0010701945	1
8	Nut special	001A5102050	1
9	cushion rubber	included in compressor	1
10	bottom plate	001A1101090	1
11	Wheel	001A1431503	4
12	Rear panel	001A1231148	1
13	Discharge pipe	001B21111146	1
14	Suction pipe	0010703836	1
15	Front plate	001A1231142	1
16	Front panel	001A0100286	1
16-1	Motor lamellas	001A3000080	1
17	Storage tank base bord	001A1431507	1
18	Storage tank base bord	001A1231145	1
19	Micro switch	001A3400063	1
20	Strong tank cover	001A1436506	1
21	Partituion plate assy	001A1101086	1
22	Protective tube	001A1101088	1
23	Drain pan	001A1231158	1
24	Cover	001A1101089	1
25	Vendiuct(outdoor)	001A1231157	1
26	Cover panel	001A1231147	1
27	Outside fan	001A1231160	1
28	Cover	001A1231146	1
29	Vendiuct(outdoor)	001A1231153	1
30	Motor(down)	001A3000079	1
31	Compressor capacitor	001A3600008	1
32	Capacitor clamp	0010100001	1

33	Side plate right	001A1231145	1
34	Support plate	001A1301338	1
35	Drain pan	001A1436499	1
36	Venduct(inddor .down)	001A1231152	1
37	Centrifugal fan	001A1231159	1
38	Venduct(inddor .down)	001A1231151	1
39	Electric board	001A1231154	1
40	Transformer	001A3800063	1
41	Control board	001A3300092	1
41-1	PCB	001A3300177	1
42	Motor(up)	0010403614	1
43	Fan capacitor	001A3600098	1
44	Motor capacitor	001A3600007	1

Model:HM-09CC03/R1

No. in exploded view	Spare parts description in english	Spare parts number	Qty
1	evaporator	0010703652	1
2	side plate .left	001A1231144	1
3	draw board	001A1301332	2
4	Indoor intake bar	001A1231149	1
5	Condenser assembly	001A0400081	1
6	Support bar	001A1301331	4
7	Compressor	0010702090	1
8	Nut special	001A5102050	3
9	cushion rubber	001A1754742	3
10	bottom plate	001A1101090	1
11	Wheel	001A1431503	4
12	Rear panel	001A1231148	1
13	Discharge pipe	001B2111740	1
14	Suction pipe	0010703836	1
15	Front plate	001A1231142	1
16	Front panel	001A0100287	1
17	Storage tank base bord	001A1431507	1
18	Storage tank	001A1231145	1
19	Micro switch	001A3400063	1
20	Storage tank cover	001A1436506	1
21	Partituion plate assy	001A1101086	1
22	Protective plate	001A1101088	1
23	Drain pan	001A1231158	1
24	Cover	001A1101089	1
25	Vendiuct(outdoor)	001A1231157	1
26	Cover panel	001A1231147	1
27	Outside fan	001A1231160	1
28	Cover	001A1231146	1
29	Vendiuct cover(outdoor)	001A1231153	1
30	Motor(down)	001A3000079	1
31	Compressor capacitor	001A3600008	1
32	Capacitor clamp	0010100001	1
33	Side plate right	001A1231145	1
34	Support plate	001A1301338	1

35	Drain pan	001A1436499	1
36	Vendiduct(indoor .down)	001A1231152	1
37	Inside fan	001A1231159	1
38	Vendiduct(indoor .up)	001A3800063	1
39	Electric board	001A1231154	1
40	Transformer	001A3800063	1
41	Control board	001A3300092	1
42	Motor(up)	0010403614	1
43	Fan capacitor(up)	001A3600007	1
44	Motor capacitor(down)	001A3600098	1
42	Motor(up)	0010403614	1
43	Fan capacitor	001A3600098	1
44	Motor capacitor	001A3600007	1

Model:HSM-08CC03/R1

No. in exploded view	Spare parts description in english	Spare parts number	Qty
1	Front panel	001A1231142	1
2	verrical flap	001A1436498	1
3	connection rod	001A1436498	1
4	Horizontal flap	001A1436497	1
5	Front panel inlay	001A4311348	1
6	Top panel inlay	001A1231146	1
7	Control panel	001A3300177	1
8	Top panel	001A1231146	1
9	Indoor intake bar	001A1231149	1
10	filter	0010201974	1
11	Left side board	001A1231144	1
12	Press key membrane	001A1434516	1
13	Display board	001A1235168	1
14	Upper motor	001A3000078	1
15	electronic	001A1231154	1
16	Capacitor clip	0010100001	1
17	Compressor capacitor	001A3600008	1
18	Fan motor capacitor	001A3600007	1
19	line contact bank	001A4000004	1
20	scroll case cover(outdoor unit)	001A1231153	1
21	Power cord clip	001A1445520	1
22	Rear cover	001A1431738	1
23	Power cord	001A4200065	1
24	Connecting pipe bracker	001A1431751	1
25	Sound absorbtion cushion	001A1762207	1
26	copmpressor	0010702090	1
27	right side board	001A1231145	1
28	Partition panel	001A1301926	1
29	Water storage box	001A1231155	1
30	Base board of Water storage box	001A1431507	1
31	Foot whell	001A1431503	1
32	chassis	001A1101218	1
33	Pulling board	001A1301332	1

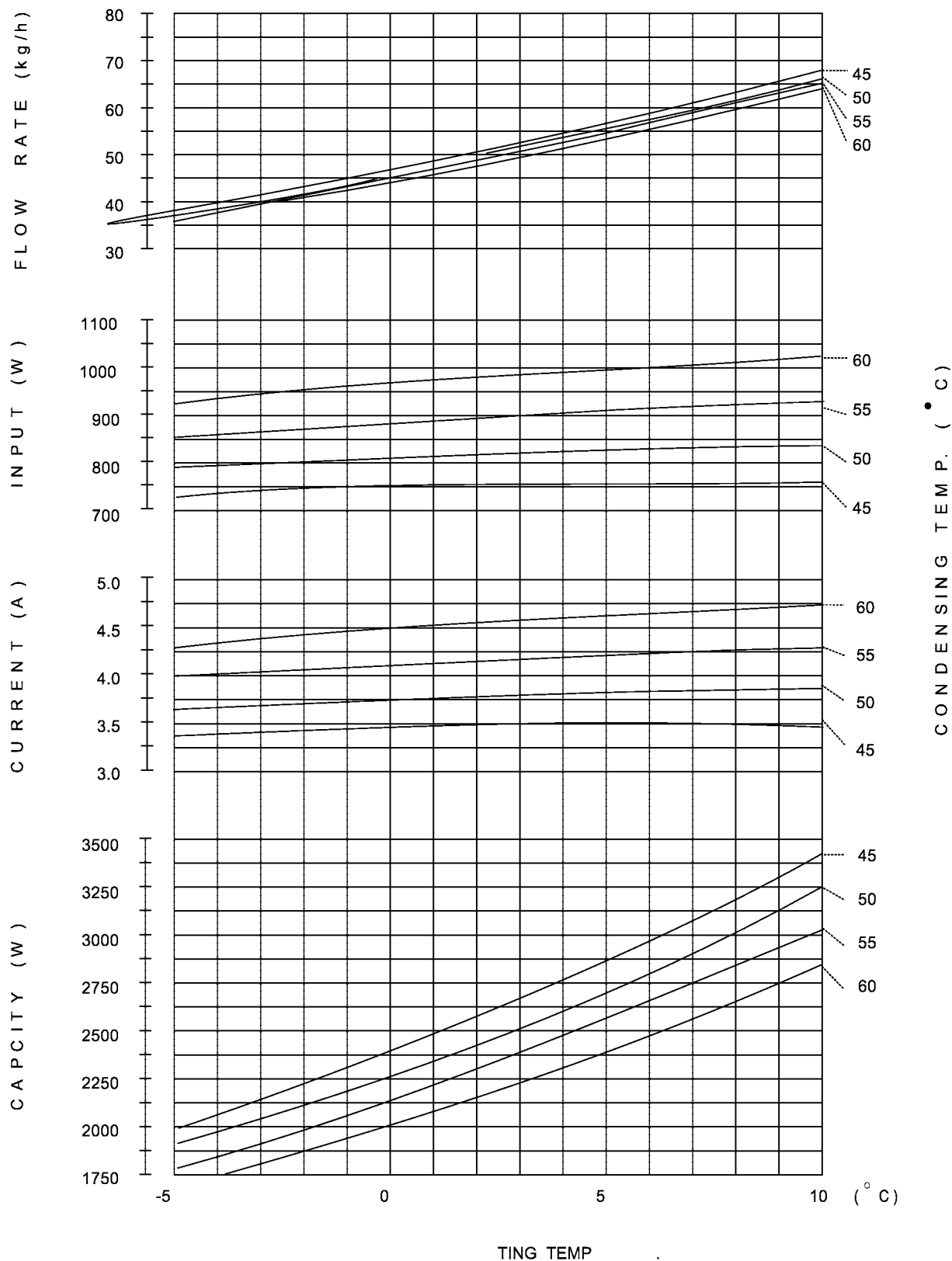
34	Support bar	001A1301331	1
35	baffle	001A1101219	1
36	Water storage box cover	0010201154	1
37	Machine hanging board	001A0100878	1
38	Full water switch	001A3400063	1
39	Scroll cover(indoor unit)	001A1231152	1
40	Cooled water box	001A1231158	1
41	Fan (indoor unit)	001A1231159	1
42	cover	001A1231153	1
43	Upper scroll cover(indoor unit)	001A1231151	1
44	Water meeting pipe clip	001A1445519	1
45	transformer	001A3800063	1
46	Water meeting pipe	001A1439445	1
47	Control panel	001A3300092	1
48	Water meeting tray	001A1436499	1
49	Synchronous motor	001A3000080	1
50	Brace of Symchronotus motor	001A1431500	1
51	flat board of flap	001A1431513	1
52	Evaporator	001A0400196	1
1	Inlet bars	001A1231149	1
2	Case	001A1436730	1
3	Handle holder	001A1436733	1
4	Handle abutment	001A1436732	1
5	Handle	001A1452737	1
6	Connecting pipe group	0010701784	1
7	Axial fan	001A2336052	1
8	Motor holder	001A1301473	1
9	Outdoor fan	001A3000268	1
10	Side board	001A1301474	1
11	Condenser	001A0400172	1
12	Cord board	001A1301474	1
13	Wind circle	001A1436734	1
14	Outdoor chassis	001A1436735	1

Curves of performance

Compressor model: PH165X1C-8DTC2

Machine model: HM-09CC03/R1

220V-- 50Hz-- 1PHASE
 SUCTION GAS TEMP-- 35 (°C)
 UNDER COOL ----- 8.3 (°K)
 AMBIENT TEMP. ---- 35 (°C)
 RUNNING CAPACITOR--25MFD

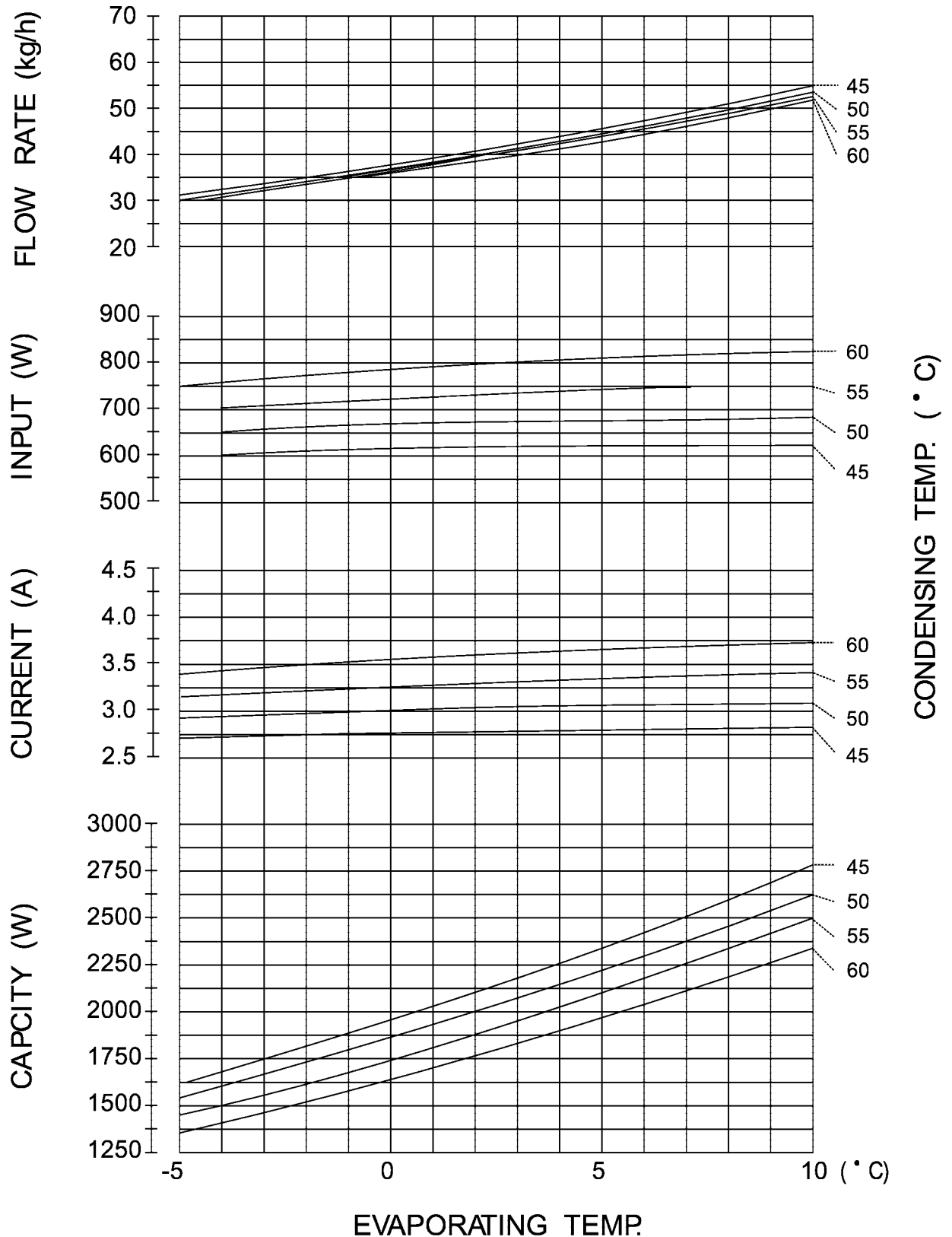


Curves of performance

Compressor model: PH135X1C

Machine model: HM-07CC03/R1

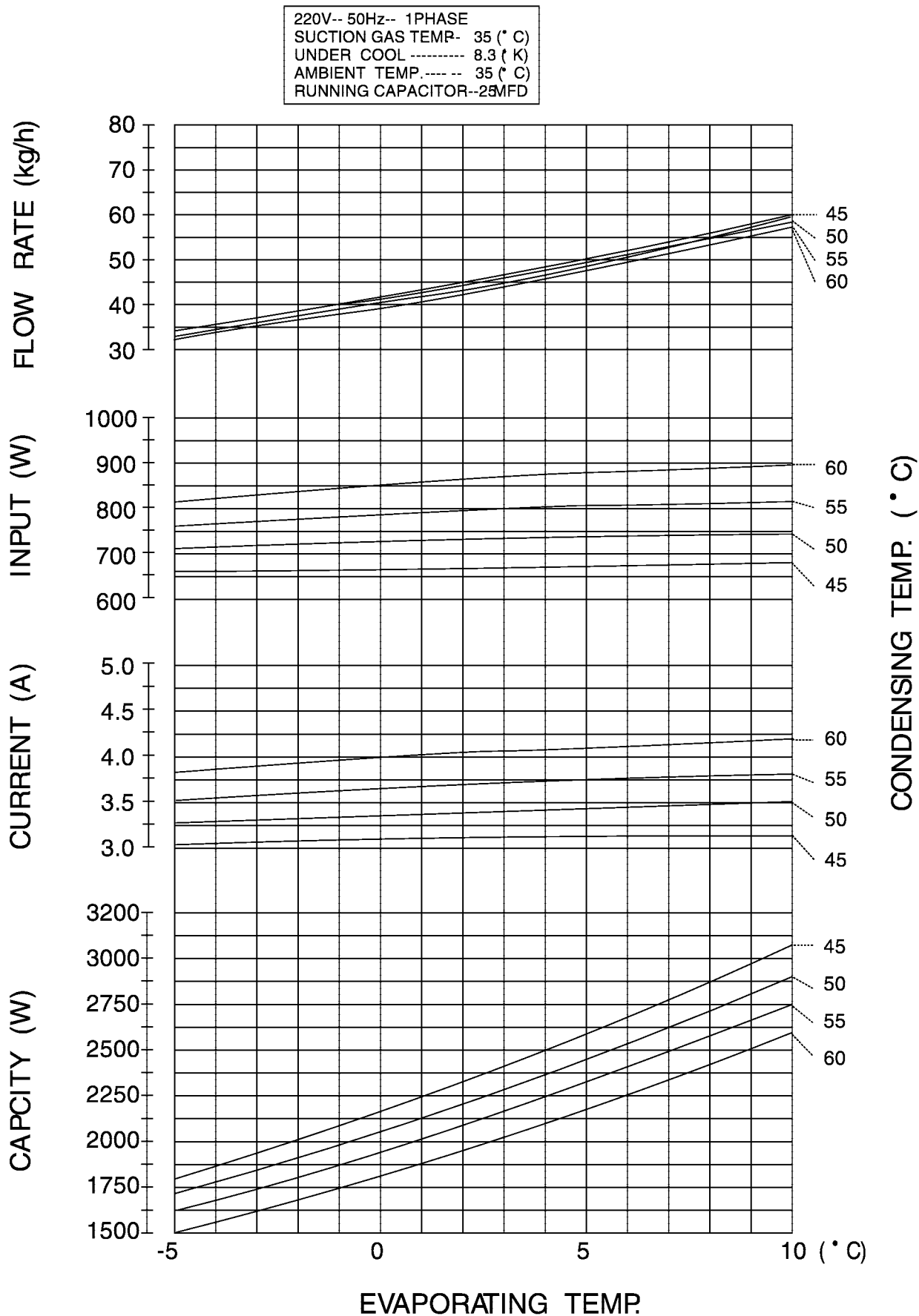
220V-- 50Hz-- 1PHASE
 SUCTION GAS TEMP- 35 (° C)
 UNDER COOL ----- 8.3 (K)
 AMBIENT TEMP.---- 35 (° C)
 RUNNING CAPACITOR--25MFD

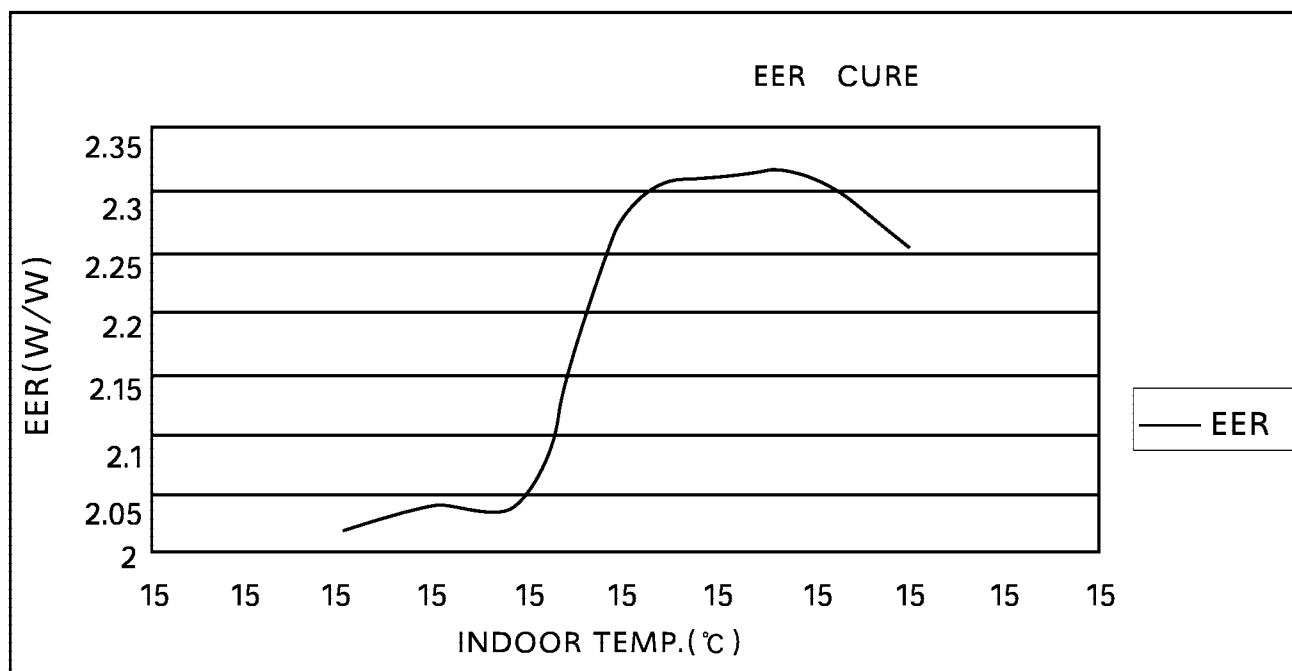
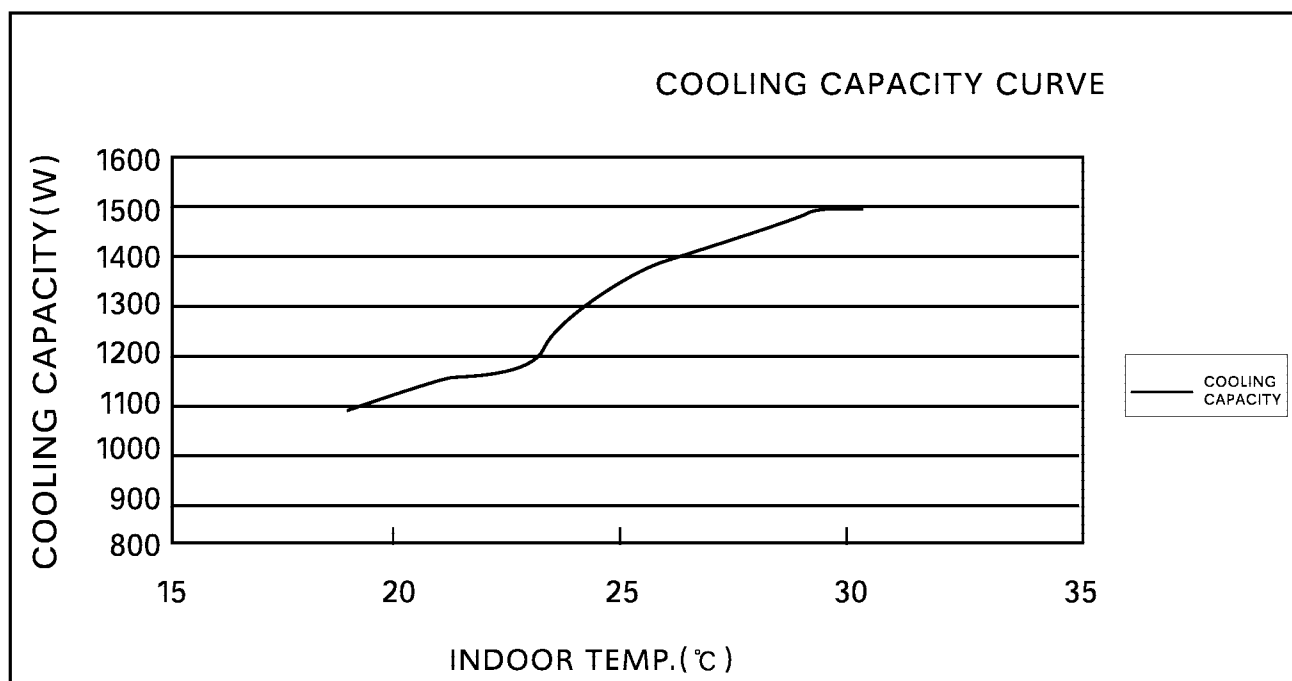


Curves of performance

Compressor model: PH150X1C-8DTC2

Machine model: HSM-08CC03/R1

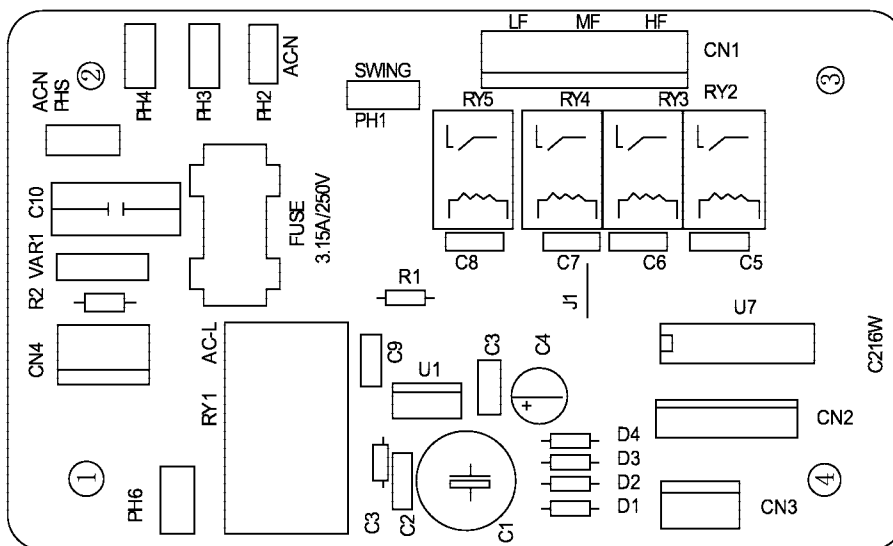




List of main material for PCB

12.1 main PCB

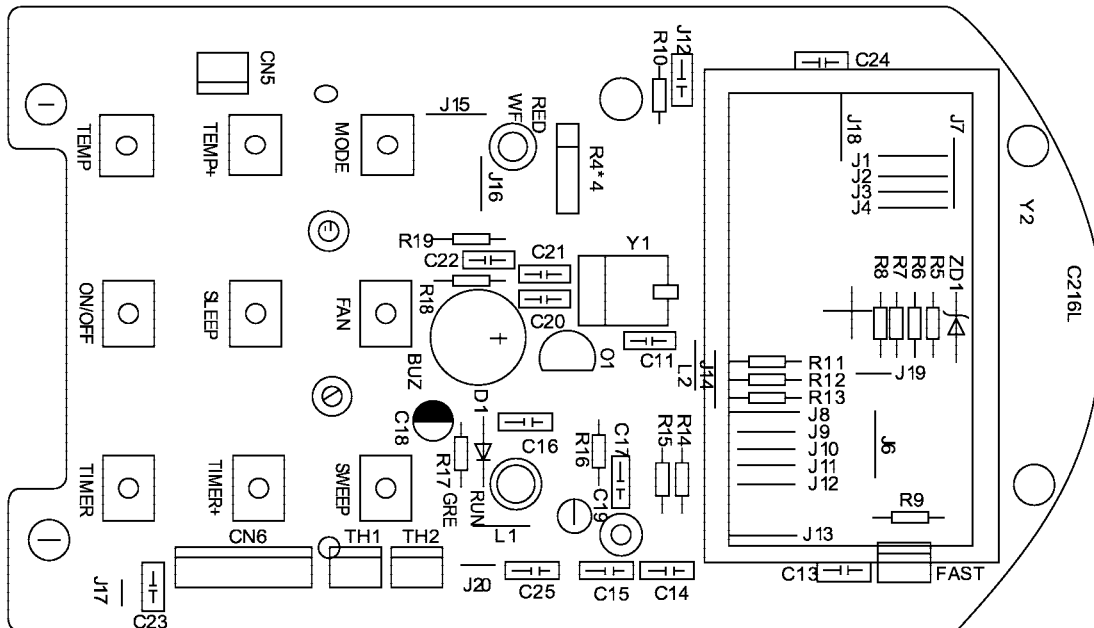
Machine model: HM-05CC03/R1 HM-07CC03/R1 HM-09CC03/R1



No.	Name	Model&Spec.	Single machine
1	Carbon-film resistor	47Ω 1/4W	1
2	Carbon-film resistor	100Ω 1/4W	3
3	Carbon-film resistor	510Ω 1/4W	2
4	Carbon-film resistor	1K 1/4W	3
5	Carbon-film resistor	10K 1/4W	3
6	Carbon-film resistor	100K 1/4W	3
7	Carbon-film resistor	1M 1/4W	1
8	Precision resistance	4.3K 1/4W	2
9	Exclusion	A103 10K 5P	1
10	Electrolytic capacitor	47μ F/16V	1
11	Electrolytic capacitor	100μ F/16V	1
12	Electrolytic capacitor	470μ F/16V	1
13	Electrolytic capacitor	1000μ F/25V	1
14	Ceramic capacitor	104	18
15	Ceramic capacitor	30P	2
16	Diode	IN4148	1
17	Diode	IN4001	4
18	Triode	9013EBC	1
19	Voltage-regulator diode	3V	1
20	Light-emitting diode	φ 3 Red, green	1 each
21	Crystal oscillator	4.19MHz	1
22	Integrated package	7805	1
23	IC	uPD75P3036	1
24	IC	2003	1
25	Inductance	330μ H	2
26	Buzzer	HDK	1
27	Piezoresistor	500NR-10D	1
28	High-voltage capacitor	0.1μ F250V	1
29	Protective tube	3.15A/250V	1
30	Protective tube seat		2
31	Pin	6.3X0.8	6
32	Needle file	VH-7	1
33	Needle file	XH-7	1

List of main material for PCB

12.2 PCB of panel



No.	Name	Model&Spec.	Single machine	Remarks
1	Carbon-film resistor	100Ω 1/4W ±5%	1	
2	Carbon-film resistor	200Ω 1/4W ±5%	3	
3	Carbon-film resistor	510Ω 1/4W ±5%	2	
4	Carbon-film resistor	1K 1/4W ±5%	3	
5	Carbon-film resistor	10K 1/4W ±5%	3	
6	Carbon-film resistor	100K 1/4W ±5%	3	
7	Carbon-film resistor	1M 1/4W ±5%	1	
8	Precision resistance	4.3K 1/4W ±5%	2	
9	Exclusion	A103 10K 5P	1	
10	Electrolytic capacitor	47μ F/16V	1	
11	Electrolytic capacitor	100μ F/16V	1	
12	Electrolytic capacitor	470μ F/16V	1	
13	Electrolytic capacitor	1000μ F/25V	1	
14	Ceramic capacitor	104 ±20%	18	
15	Ceramic capacitor	30P ±20%	2	
16	Diode	IN4148	1	
17	Diode	IN4001	4	
18	Triode	9013EBC	1	
19	Voltage-regulator diode	3V	1	
20	Light-emitting diode	φ 3 Red, green	1 each	
21	Crystal oscillator	4.19MHz	1	
22	Integrated package	7805	1	
23	IC	uPD75P3036	1	
24	IC	2003	1	
25	Inductance	330μ H	2	
26	Buzzer	HDK	1	
27	Piezoresistor	500NR-10D	1	Heatshrinkable tube

List of main material for PCB

12.2 PCB of panel

No.	Name	Model&Spec.	Single machine	Remarks
28	High-voltage capacitor	0.1 μ F250V	1	
29	Protective tube	3.15A/250V	1	Sheathing
30	Protective tube seat		2	
31	Pin	6.3X0.8	6	
32	Needle file	VH-7	1	
33	Needle file	XH-7	1	
34	Needle file	XH-3	1	
35	Needle file	VH-3	1	
36	Needle file	S-EH-2	3	
37	Needle file	S-EH-7	1	
38	Needle file	S-XH-2	1	Row needle
39	Press key	6×6×5 mm	9	
40	Relay	AJM12113	1	
41	Relay	OJE-SH-112DM	4	
42	LCD		1	
43	PCB	C216L	1	
44	PCB	C226W	1	
45	Temperature response head	Length of the glass tube 55cm	1	ϕ 4 sheathing, heat-shrinkable tube
46	Temperature response head	Length of the copper tube 68cm	11	ϕ 4 sheathing
47	Wire bundle	YD-7	21	
48	Jumper	10mm	1	
49	Jumper	5mm	1	



Domestic Air Conditioner

Model: HM-05CC03/R1

HM-07CC03/R1 HSM-08CC03/R1 HM-09CC03/R1

Haier Group

Haier Industrial Park, No.1, Haier Road

266101, Qingdao, China

<http://www.haier.com>

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