Introduction

In this technical service manual, you will find rich references to KF(R)-70DW/NA1 model including photoes, technical specifications, explosive views, spare parts lists and circuit diagrams. Service people and engineers of Gree's customers and distributors would find it a very handy source of technical information of our products.

Technical Support Group Mar.2004

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1. Summary





2. Technical specifications

Model			ĸ	F-70DW/NA1	
Function			CC	OLING	
Power Supply (Phase-Frequency-Voltage)		1Ph – 2	30V – 50Hz		
Capacity		(W)		7000	
Rated Input		(W)		3100	
Rated Currer	nt	(A)		15.2	
Recycling Air	Volume	(m ³ /h)		1170	
Dehumidifyin	g Volume	(L/h)		2.3	
C.O.P /	EER	(W/W)		2.26	
	Model		KF-7	KF-70D/NA1	
	Motor Fan Spe	ed (r/min) (H/M/L)	1360/	1360/1280/1240	
	Output Power (w)		100	
	Fan Type-Piece	9	Centrifu	igal fan - 4	
	Diameter-Leng	th (mm)	1:	25X 134	
	Evaporator		Aluminum	fin-copper tube	
	Pipe Diameter			7	
	Row-Fin Gap (nm)	:	3-1.6	
Indoor unit	Working Area (m ²⁾		1.04	1.042X 0.19	
	Swing Motor		M	MP35CA	
	Input Power of Motor (W)			4	
	Fuse (A)		controllor5A	transformer0.2A	
	Working Capacitor (uF)			3	
	Noise dB (A)			48	
	Dimension (W/D/H)(mm)		1300	K188X600	
	Dimension of Package (W/D/H)(mm)		1414	x248x724	
	Net Weight /Gross Weight (kg)		3	32/36	
	Model		KF-7	0W/dNA1	
	Input Power (W)		3000		
	Running Current (A)			14.5	
	L.R.A. (A)			75	
	Throttling Method		Ca	apillary	
	Compressor M	odel	C-F	RN220H5B	
	Protector		Internal ove	rload protection	
Outdoor unit	Starting Method	ł	B	y capacitor	
	Working Temp Range		2	~ 43	
	Condenser		Alumin	um-copper	
	Pipe Diameter			9.52	
	Rows - Fin Gap (mm)		2	2- 1.8	
	Working Area (m ²⁾		725X813		
	Fan Motor Pow	er(W)/Speed (rpm)	6	0/780	
	Fan Type-Piece		Axial fan –1		
	Fan Diameter (mm)		450		

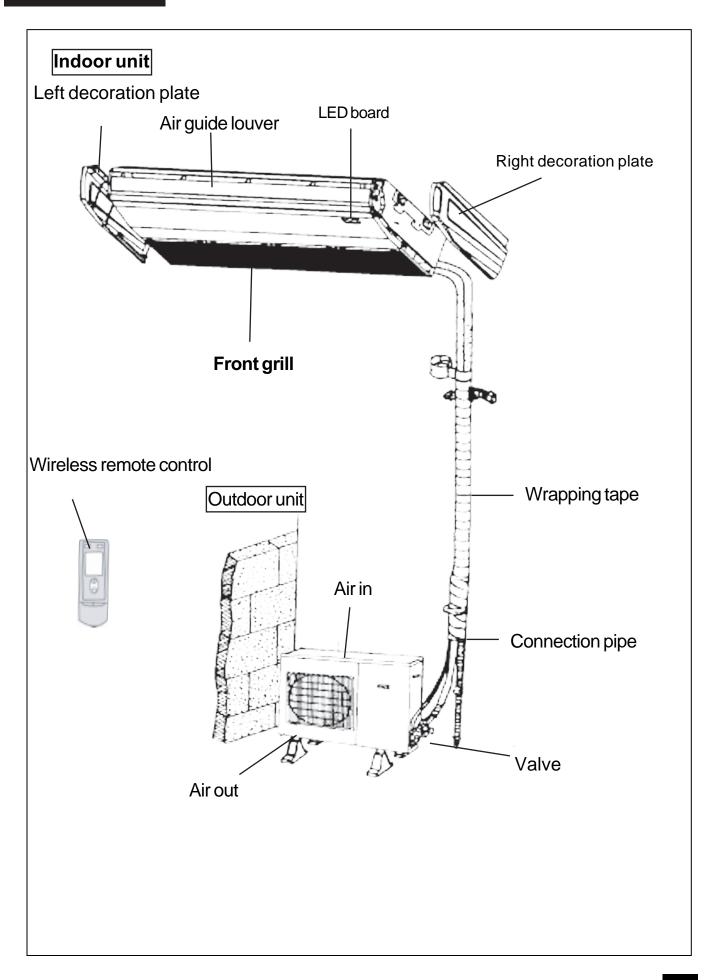
	Defrosting Method			Auto defrost	
Outdoor unit	Noise dB (A)			58	
	Dimension (W/D/H)(mm)			950x412x840	
	Dimension of Package (W/D/H)(mm)			1100x450x920	
Net Weight /0	Net Weight /Gross Weight (kg)			75/87	
Refrigerant C	efrigerant Charge (kg)			R407C/2.4	
	Length (m)		(m)	5	
Connecting Pip	e Outer	Liquid Pipe	(mm)	9.52(3/8")	
	Diameter	Gas Pipe	(mm)	16(5/8")	
	Max Height (m)		5		
	Distance	Length	(m)	10	

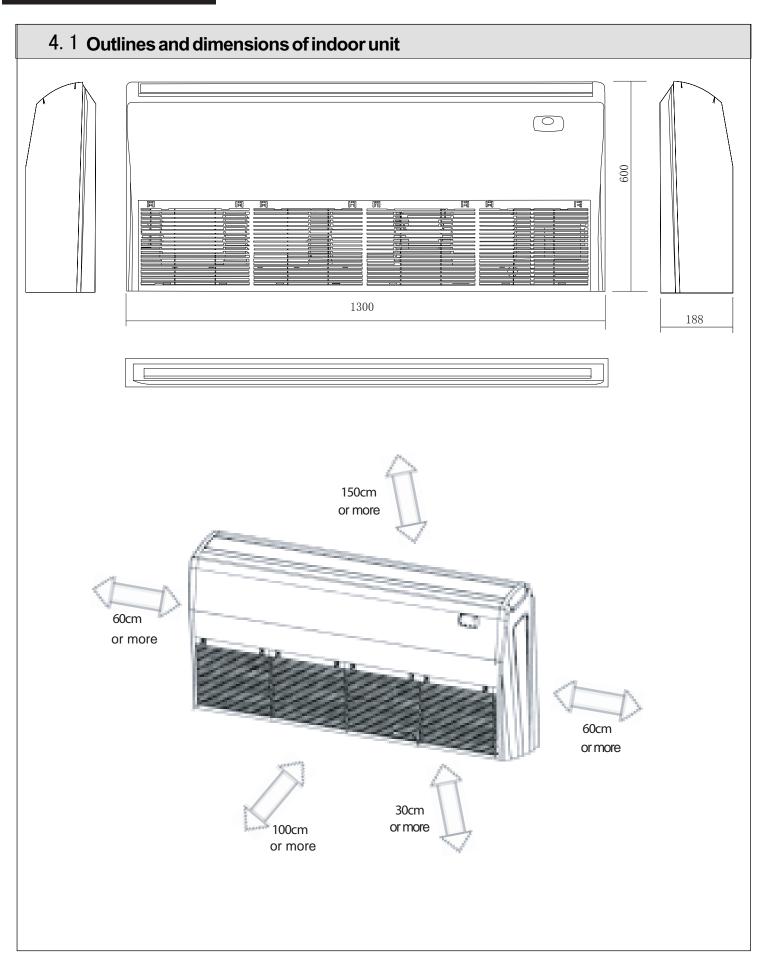
The data of above are subject to be changed, please refer to the nameplate for reference.

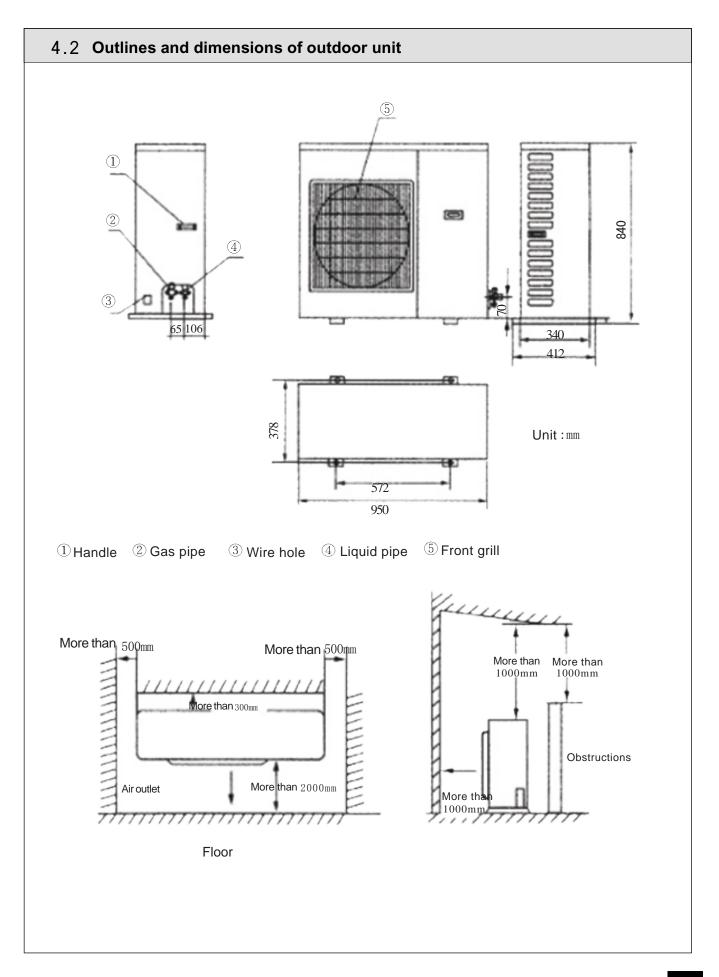
Model			KFR-	70DW/NA1
Function		COOLING	HEATING	
Power Supply	/ (Phase-Frequend	cy-Voltage)	1Ph – 2	230V – 50Hz
Capacity		(W)	7000	8500
Rated Input		(W)	3000	3050
Rated Curren	t	(A)	14.6	15.1
Recycling Air	Volume	(m ³ /h)	1	170
Dehumidifyin	g Volume	(L/h)	2.	3
C.O.P /	EER	(W/W)	2.3	2.79
	Model		KFR-	-70D/NA1
	Motor Fan Spee	d (r/min) (H/M/L)	1360/	1280/1240
	Output Power (w	v)		100
	Fan Type-Piece		Centrifu	ıgal fan - 4
	Diameter-Lengt	n (mm)	1:	25X 134
	Evaporator		Aluminum	fin-copper tube
	Pipe Diameter			7
	Row-Fin Gap (m	nm)	:	3-1.6
Indoor unit	Working Area (m ²⁾		1.042X 0.19	
	Swing Motor		MP35CA	
	Input Power of Motor (W)			4
	Fuse (A)		Controllor5A	transformer0.2A
	Working Capacitor (uF)			3
	Noise dB (A)			47
	Dimension (W/D/H)(mm)		1300	x188x600
	Dimension of Package (W/D/H)(mm)		1414	x248x724
	Net Weight /Gross Weight (kg)		:	32/36
	Model		KFR-7	70W/dNA1
	Input Power (W)	2900	2950
	Running Current (A)		14.2	14.7
	L.R.A. (A)		75	
	Throttling Method		Capillary	
	Compressor Model		C-RN220H5B	
• • • •	Protector		Internal overload protection	
Outdoor unit	Starting Method		By capacitor	
	Working Temp Range		2~43	
	Condenser		Aluminum-copper	
	Pipe Diameter		9.52	
	Rows - Fin Gap	(mm)	2- 1.8	
	Working Area (m ²⁾		725x813	
	Fan Motor Power(W)/Speed (rpm)		60/780	
	Fan Type-Piece		Axial fan -1	
	Fan Diameter (r	nm)		450

	Defrosting Me	thod		Auto defrost	
	Noise dB (A)			58	
Outdoor unit	Dimension (W/D/H)(mm)			950x412x840	
	Dimension of Package (W/D/H)(mm)			1100x450x920	
Net Weight /G	Gross Weight (kg) 75/87		75/87		
	Refrigerant Charge (kg)			R407C/2.5	
	Length (m)		(m)	5	
Connecting Pipe	Outer	Liquid Pipe	(mm)	9.52(3/8")	
	Diameter	Gas Pipe	(mm)	16(5/8")	
	Max	Height	(m)	5	
	Distance	Length	(m)	10	

The data of above are subject to be changed, please refer to the nameplate for reference.

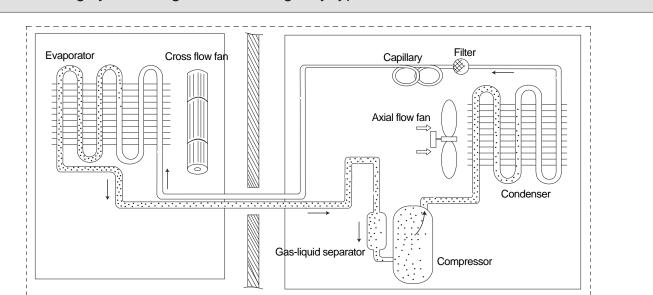




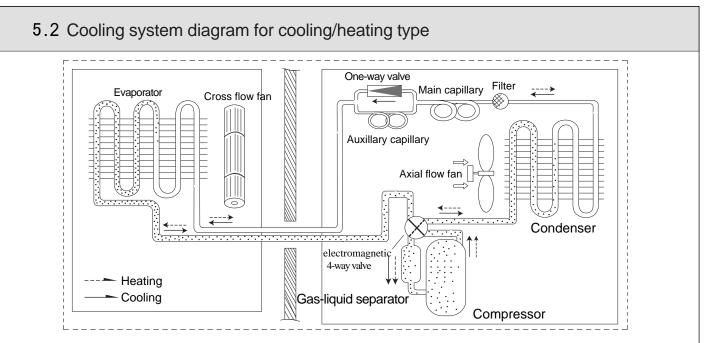


5. Working principle diagram

5.1 Cooling system diagram for cooling only type



When the power is on, indoor and outdoor units will start to run. The compressor sucks low-pressure refrigerant gas from the evaporator of indoor unit and then discharges high-temperature, high-pressure refrigerant gas into outdoor condenser. Then air exchanges the heat with outdoor air and becomes refrigerant liquid. The liquid is throttled by the capillary and changes into low-temperature and low-pressure liquid and then flows into indoor evaporator. Then liquid exchanges the heat with the required air and changes into low-temperature and low-pressure refrigerant gas. the cycle introduced above goes on and on, and the demanded low temperature environment is maintained.

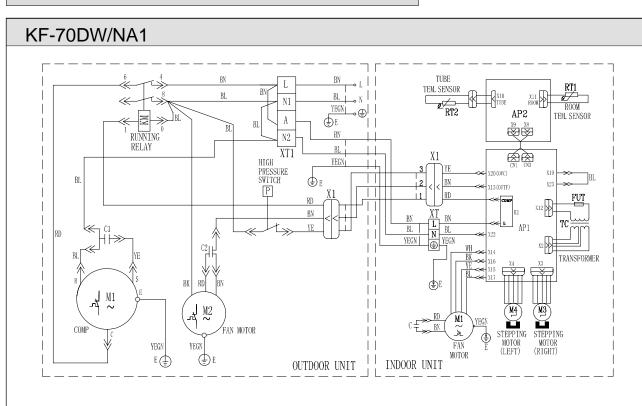


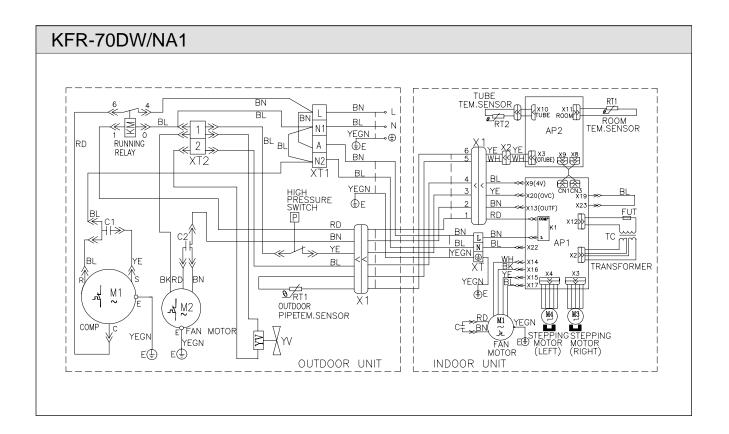
When the power is on, indoor and outdoor units will start to run. When the system operates in cool mode, the compressor sucks low-temperature, lowpressure refrigerant gas from indoor evaporator and then discharges high-temperature, high-pressure refrigerant gas into outdoor heat exchanger. With the help of axial flow fan, the gas transfers its latent heat into outdoor air and becomes high-pressure refrigerant liquid. The liquid is throttled by the capillary and changes into low-temperature and low-pressure liquid and then flows into indoor heat exchanger. With the help of centrifugal fan, the liquid evaporates into low-temperature refrigerant gas and indoor air is cooled down. The refrigerant gas is sucked into the compressor and the cycle introduced above goes on and on, and the demanded low temperature environment is maintained.

When the system operates in heat mode, 4-way valve changes its way and the refrigerant flows in the reversible cycle as the cool mode. The refrigerant discharges its latent heat in the indoor heat exchanger, and sucks heat from outdoor heat exchanger and forms the heat pump cycle. This cycle goes on and on, and the demanded high temperature environment is maintained.

6.Circuit diagram

The circuit diagram are subject to change , please refer to the ones on the machine.





7. PCB function manual

7.1 Temperature parameter

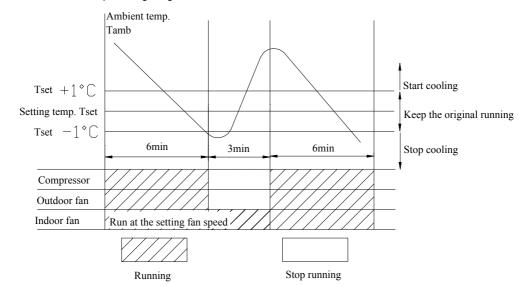
The room ambient temperature: (Tamb) The room evaporator temperature:(Tevaporator) The outdoor condenser temperature: (Tcondenser) The exhasut temperature:(Texhaust)

7.2 Foundamental functions

● In each mode, the compressor starts at once, it will not stop within 6min according to the changes of Tamb, when it stopped once, after 3mins delayed, can start it again.

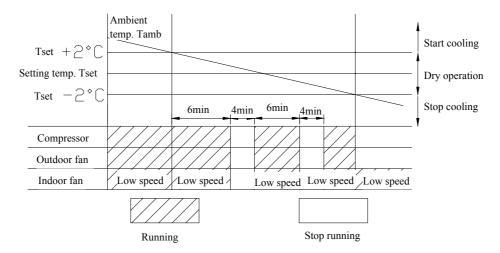
7.2.1 COOL mode

- ♦ When Tamb≥Tset+1°C, it will enter into COOL mode, the compressor, outdoor fan motor run. Indoor fanmotor and swing motor run at the setting fan speed and setting.
- When Tamb Tset-1°C, compressor, outdoor fan motor stop running. Indoor fan runs at set fan speed.
- When Tset-1°C < Tamb < Tset +1°C, keep the previous running mode.
- In COOL mode, temp. setting range is 16℃~30℃.



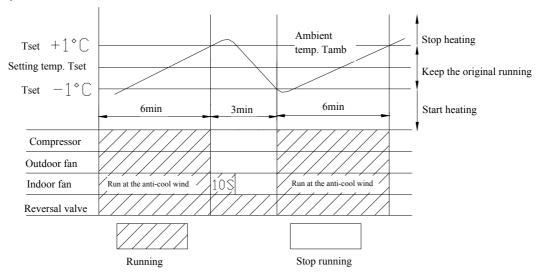
7.2.2 DRY Mode

- When Tamb>Tset+2°C, enter into COOL mode, the compressor, outdoor fan motor run, indoor fan motor runs at setting low fan speed.
- ♦ When Tset-2°C ≤ Tamb ≤ Tset+2°C, compressor, outdoor fan motor run 6min, stop for 4min, that goes round and round, indoor fan motor runs at low fan speed.
- ♦ When Tamb<Tset-2[°]C, the compressor and outdoor fan motor stop running, indoor fan motor runs at low fan speed.
- In DRY mode, the temp. setting range is $16^{\circ}C \sim 30^{\circ}C$.



7.2.3 HEAT Mode

- ♦ When Tamb≤Tset-1°C enter into HEAT mode, reversing valve, compressor, outdoor fan motor start to work. indoor fan motor runs at setting fan speed and anti-cool wind.
- ♦ When Tamb≥ Tset +1°C compressor, outdoor fan motor stop running, reversing valve is powered on, indoor fan motor runs at low speed and after blowing for 10s later, it will stop.
- ♦ When Tset-1℃<Tamb<Tset+1℃, it will keep the original status.
- In HEAT mode, the temp. setting range is $16^{\circ}C \sim 30^{\circ}C$.
- In HEAT mode, the unit is turned off or swtich to othermode, after compressor stopped for 2min, the 4-way valve is powered off.



7.2.3.1 Conditions for anti-cool wind

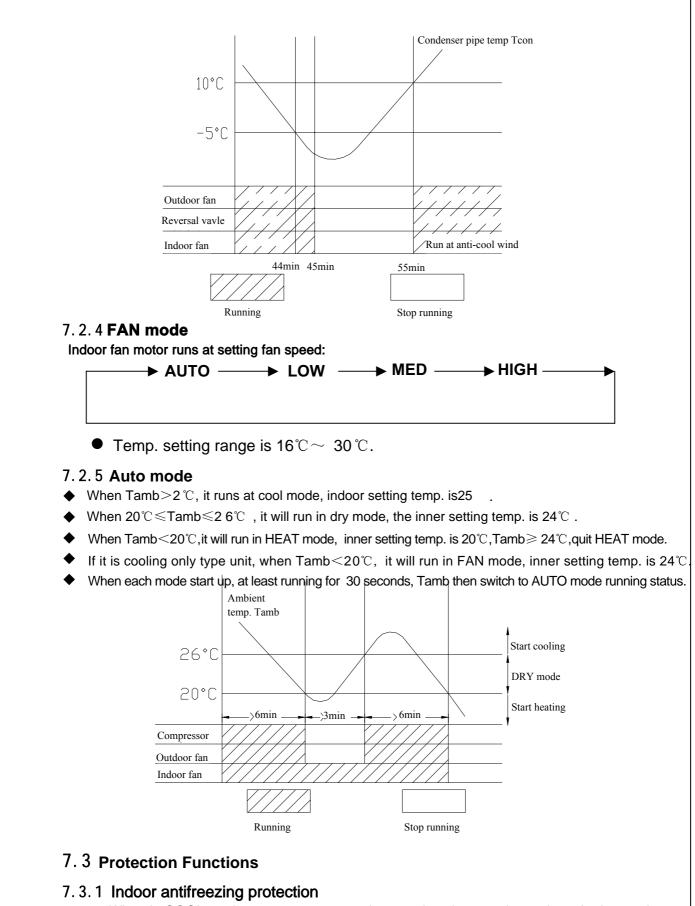
• When compressor start to run in HEAT mode, the indoor fan motor does not run, 3min later the indoor fan motor runs at the setting fan speed.

7.2.3.2 Conditions for defrosting

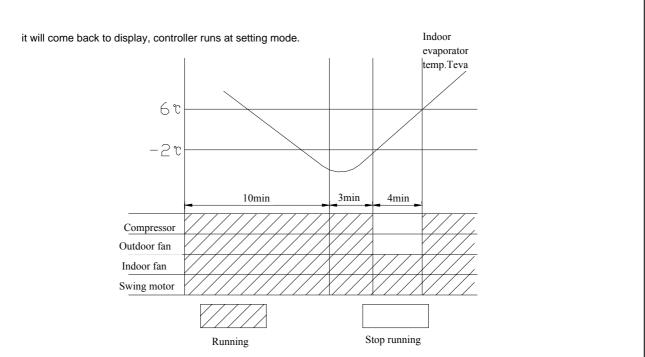
● When unit keeps running 44min in heat mode, and 1min continuously had detected Tcondenser≤ -5°C, the defrosting started, the reversal valve, indoor and outdoor fan will stop running.

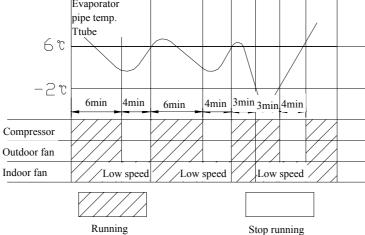
● When the defrosting started running for 10min or Tcondenser≥10°C, defrosting will stop running, the

reversal valve, outdoor fan will run at the same time, the indoor fan motor will run in anti-cool mode.



 When in COOL mode, compressor started up 10min, when continuously 3min detected Teva<-2°C, it shows E2, compressor stops running, outdoor and indoor fan motor, swing motor keep original running; when Teva>6°C, compressor has stopped 4min,





7.3.2 Compressor high pressure protection

- When detected high pressure protection, E1 will be displayed.
- When detected the compressor high pressure protection is released, E1 still display,E1 still display, that need to press ON/OFF button to clean E1 displaying, and repress ON/OFF button to resume to run.

7.3.3 Compressor low pressure protection

- When detected the low pressure switch tripped off, the unit will stop, after 3min it will resume to work automatically; If E3 displayed, that can not resume automatically, so need to press ON/OFF button to turn off the unit, and repress ON/OFF button for resuming.
- When compressor stopped, detected low pressure switch tripped off, the unit stop, and E3 displayed, that cannot resume automatically, need to press ON/OFF to turn off the unit, then repress ON/OFF button can resume to work.

7.3.4 Air exhaust pipe high temperature protection

• After compressor started up, when detected delivery temp. is too high or air exhaust sensor is short circuit (or open circuit), according to indoor ambient temp. if achieved the setting temp. the unit will stop.

After compressor stopped for 3min, when delivery temp. is get right, unit resume to run.

◆ If the above phenomenons existed, the unit cannot resume to run, E4 will be display. Press ON/OFF button to turn off the unit, repress ON/OFF button return to run at the original running mode.

7.3.5 Indoor ultra high temperature protection

 In HEAT mode, when detected the evaporator tube temp. is too high, outdoor fan motor stop running; when evaporator tube temp. get right, outdoor fan motor start up.

7.3.6 Low voltage protection

 Compressor is turned on, if the current had been detected exceed 22A, the room ambient temp. achieved the setting temp., the unit will stop. When compressor had stopped 3min, it will automatically return to the original setting mode. When displaying E5, can not automatically return to the original running mode, that need to press ON/OFF button to turn off the unit, then repress the ON/OFF button to resume to work.

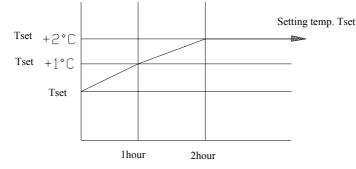
7.3.7 Error codes

E1: Compressor high pressure protection E2: Indoor anti-freezing protection E3: Compressor low pressure protection E4: Air exhaust pipe high temp. protection E5: Low pressure protection

7.4 Functions of Sleep and Timer:

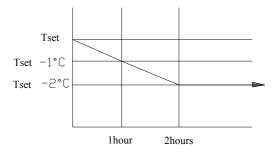
7.4.1 Sleep

◆ If controller is in COOL mode or DRY mode, after SLEEP operation run for 1 hour, the presetting Tset will be increased 1 °C, 2 hours later, it will be increased 1 °C, it has been decreased 2 °C within 2 hours in all, then it runs at the setting temp.



♦ If controller is in HEAT mode, after SLEEP operation run for 1 hour, the presetting Tset will be decreased 1°C

2 hours later it will be decreased 1°C, it has been decreased 2°C within 2hours in all, then it runs at the setting temp.



There is no SLEEP function in FAN mode and AUTO mode. 7.4.2 Timer on

• At powered on, the timer on could be set, when the time arrived, the controller runs at the original setting mode, the time interval is 0.5h, setting range is 0.5-24h.

7.4.3 Timer off

• At operating, the timer off could be set, if the time arrived, the unit will turned off, the time interval is 0.5h, setting range is 0.5-24h.

7.5 Other control

7.5.1 SWING Control

• Use SWING button to start or stop the control, only when indoor fan motor is running the SWING operation is available.

7.5.2 The buzzer control

♦ When controller is powered on or received the signals, the buzzer will sound.

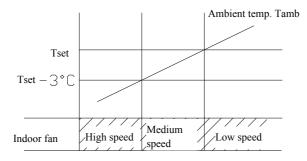
7.5.3 The auto fan speed control of the fan motor

In HEAT mode:

If Tamb Tset, is low speed

If Tset-3 Tamb < Tset, is medium speed

If Tamb < Tset-3 , is high speed

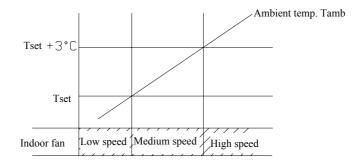


In COOL mode:

If Tamb Tset, that is low speed

If Tset < Tamb Tset+3 , is medium speed

If Tamb > T set+3 , is high speed



In FAN mode:

The auto fan speed is as the same as the cool mode.

7.6 Indicators:

- When power suply indicator is powered on, it will light, when powered off, it will extinguish. When it is indoor anti-freezing protection, compressor high pressure protection, low pressure protection as well as defrosting operations, the indicator flash.
- The COOL indicator is lighting in COOL mode, DRY mode, Auto COOL, Auto DRY, in the other modes will extinguish.
- The HEAT indicator is lighting in HEAT mode, and Auto HEAT mode, it will extinguish in other modes.

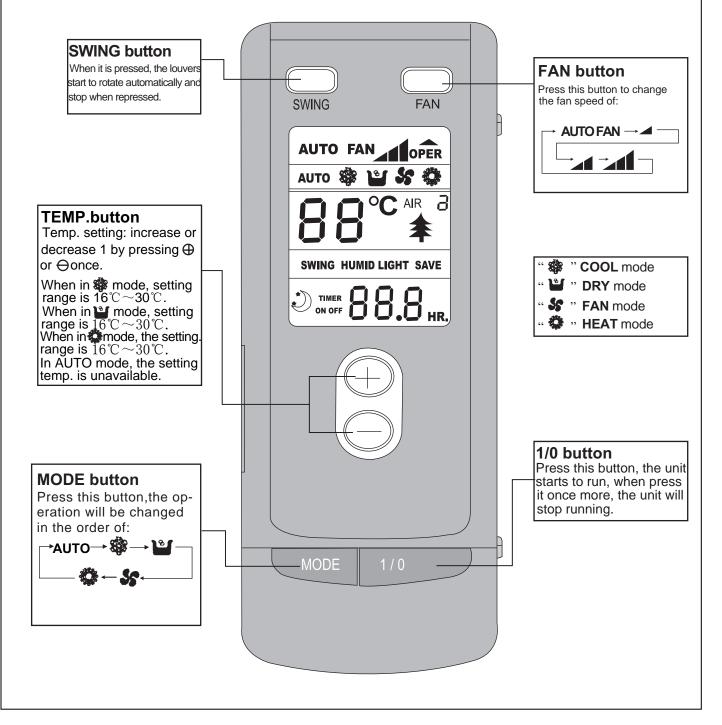
7.7 Memory function:

- Memory contents: when MODE, SWING, TEMP. Setting, FAN Setting, TIMER Setting (When the time hasn't arrived, and it powered off, the time will be recalculated; if the time had arrived and it is powered off, when powered on, it will run at the mode which is the time arrived.)
- After powered off, when powered on, the unit can automatically start up and run at the memory contents.

7.8 Names and functions of wireless remote control

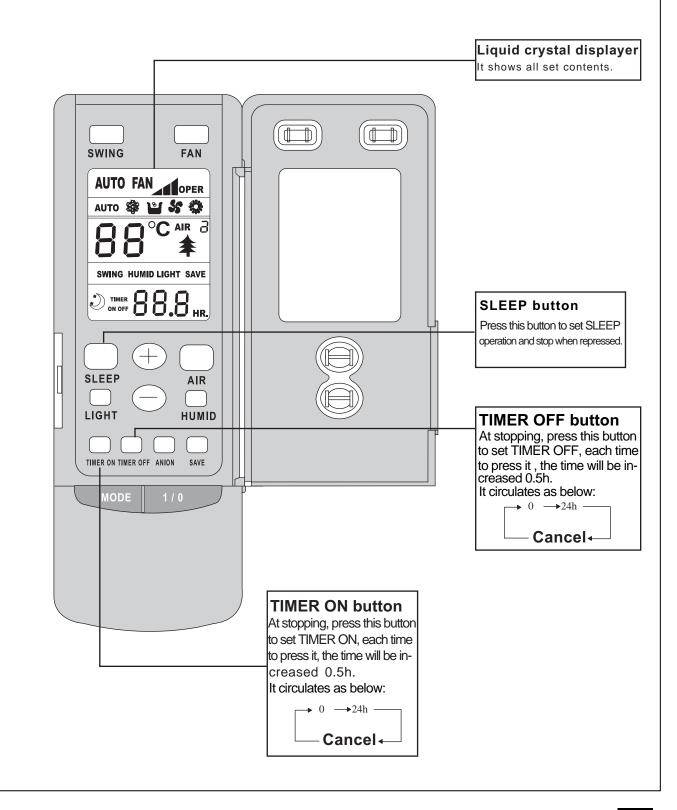
Note:

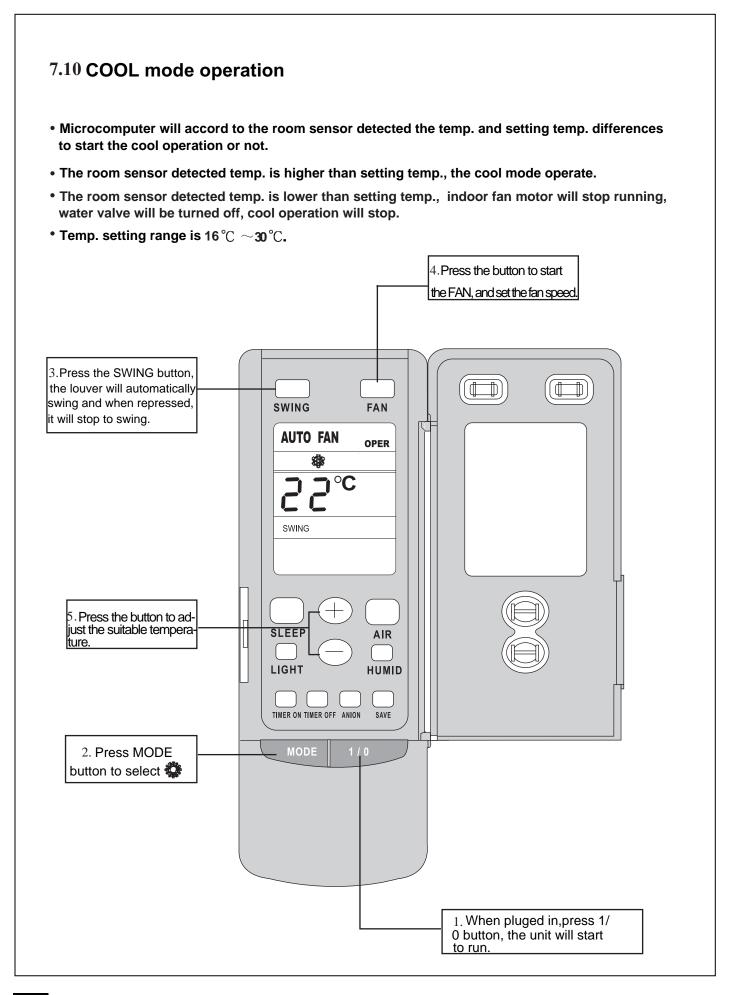
- Be sure that there are no obstructions between receiver and wireless remote control.
- The wireless remote control could receive the signal within 10 meters.
- Don't drop or throw the wireless remote control.
- Don't let any liquid in the wireless remote control and put it directly under the sunlight or any place where is very hot.

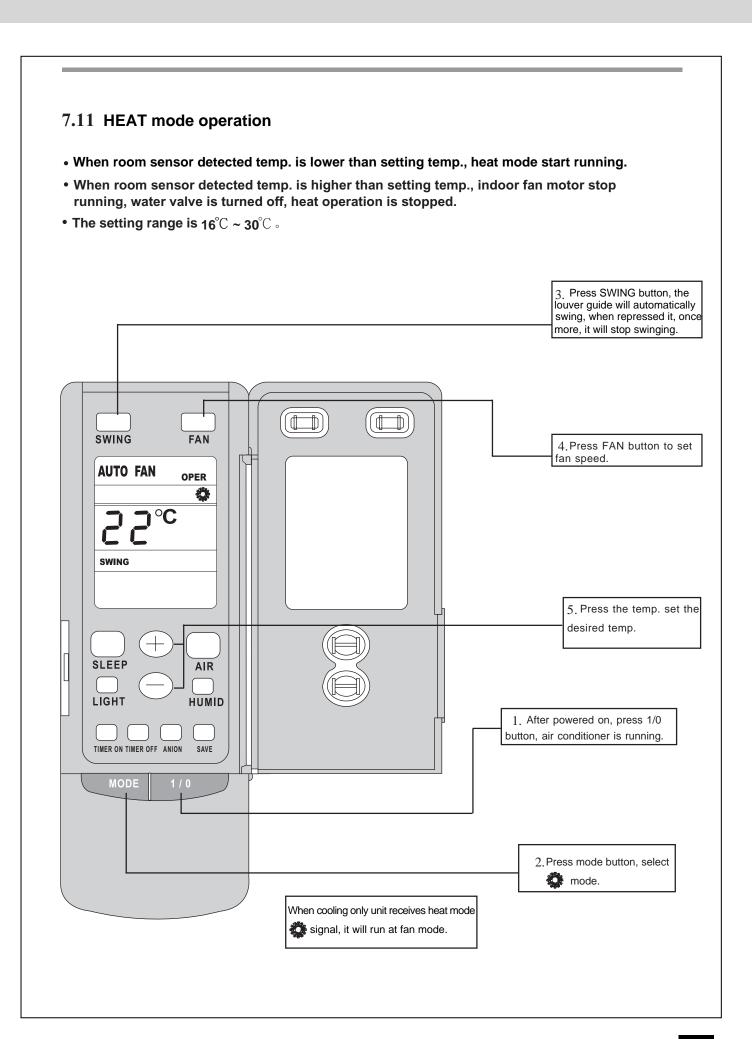


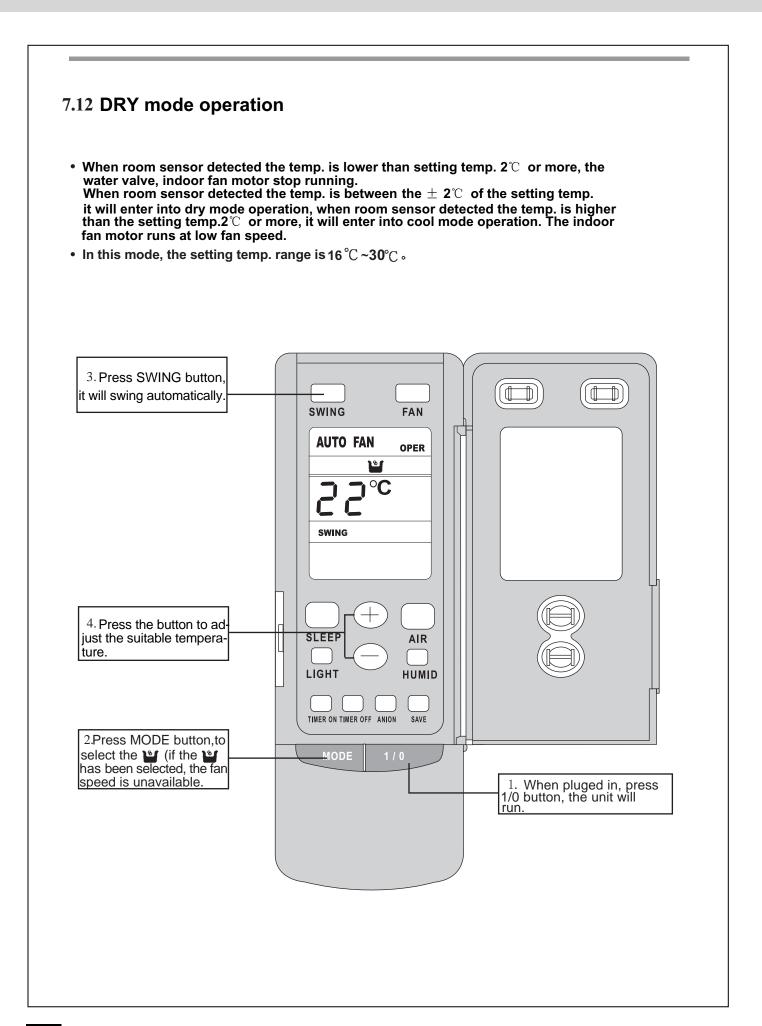
7.9 Names and functions of wireless remote control(Remove the cover)

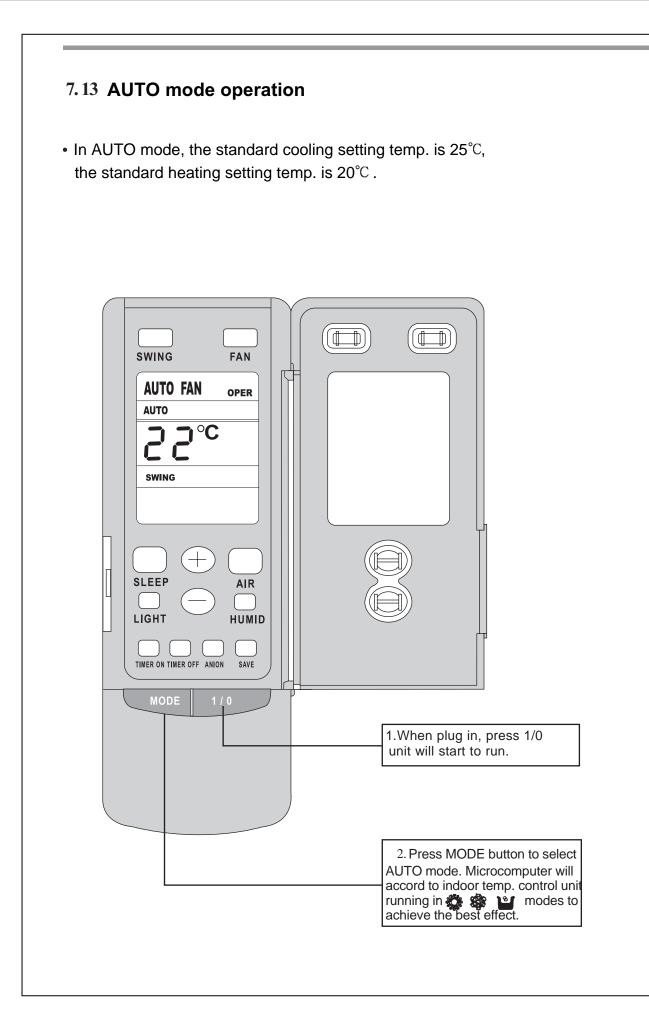
Note:This type of wireless remote control is a kind of new current control. Some buttons of the control which are not available to this air conditioner will not be described below.



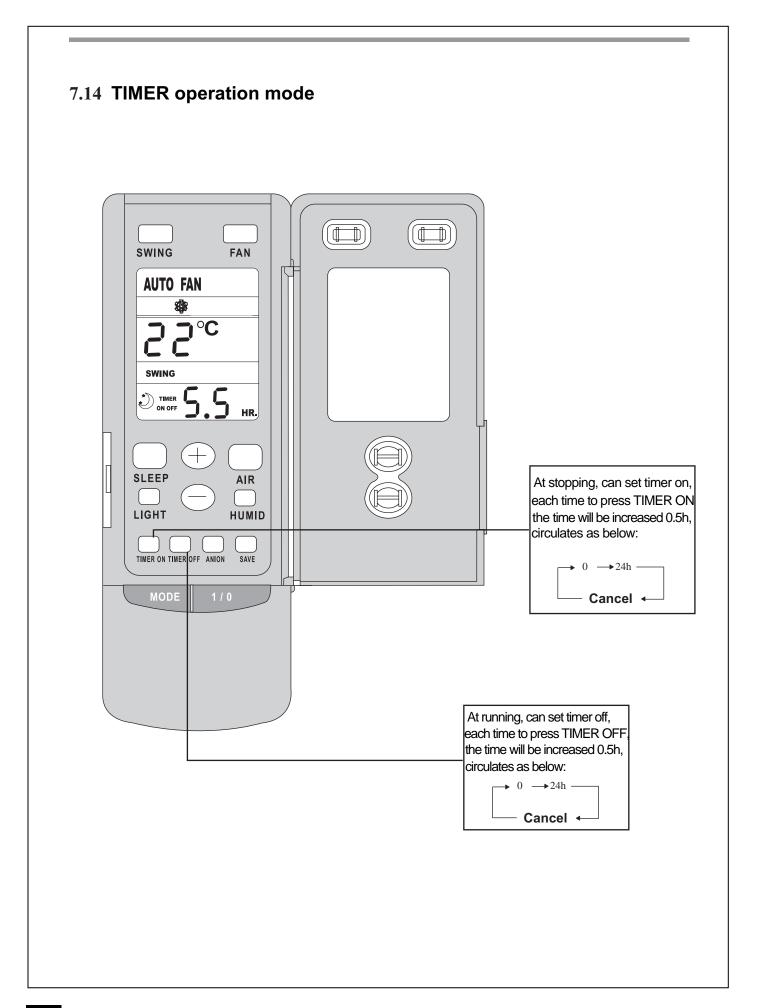




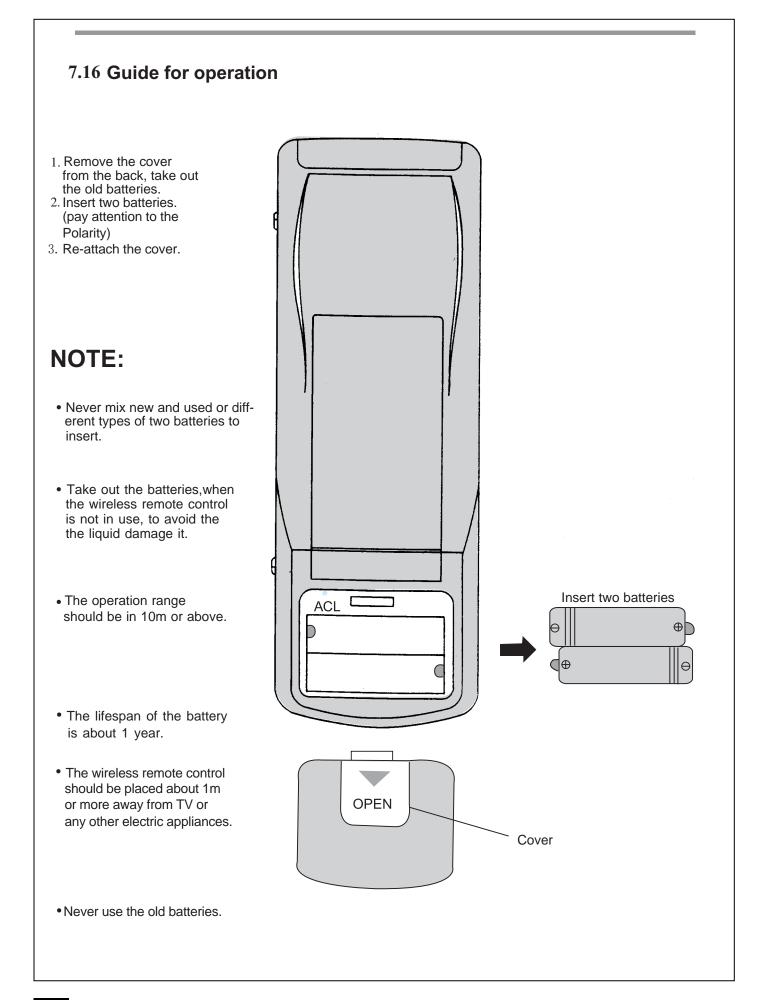




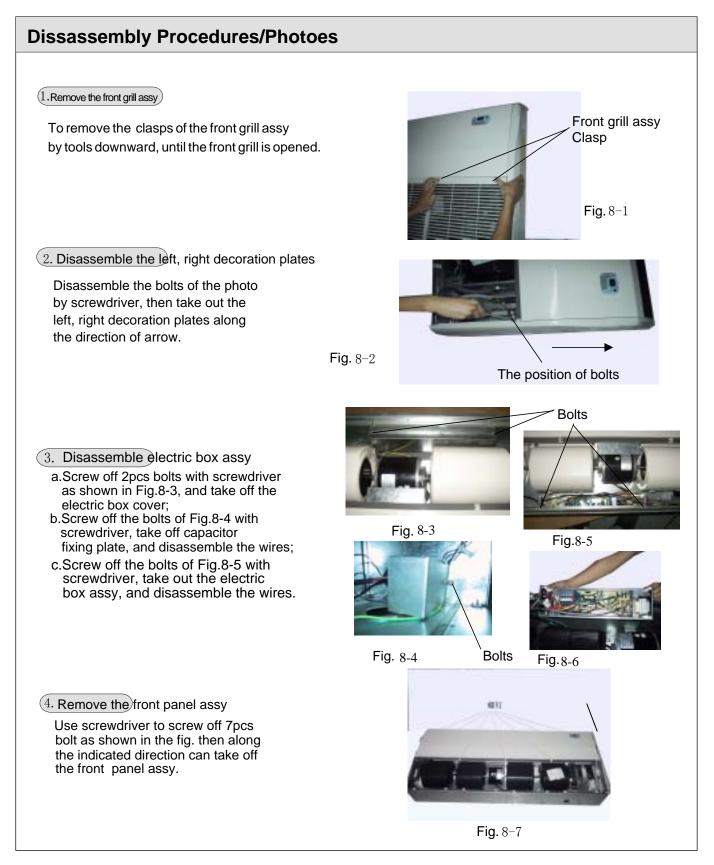




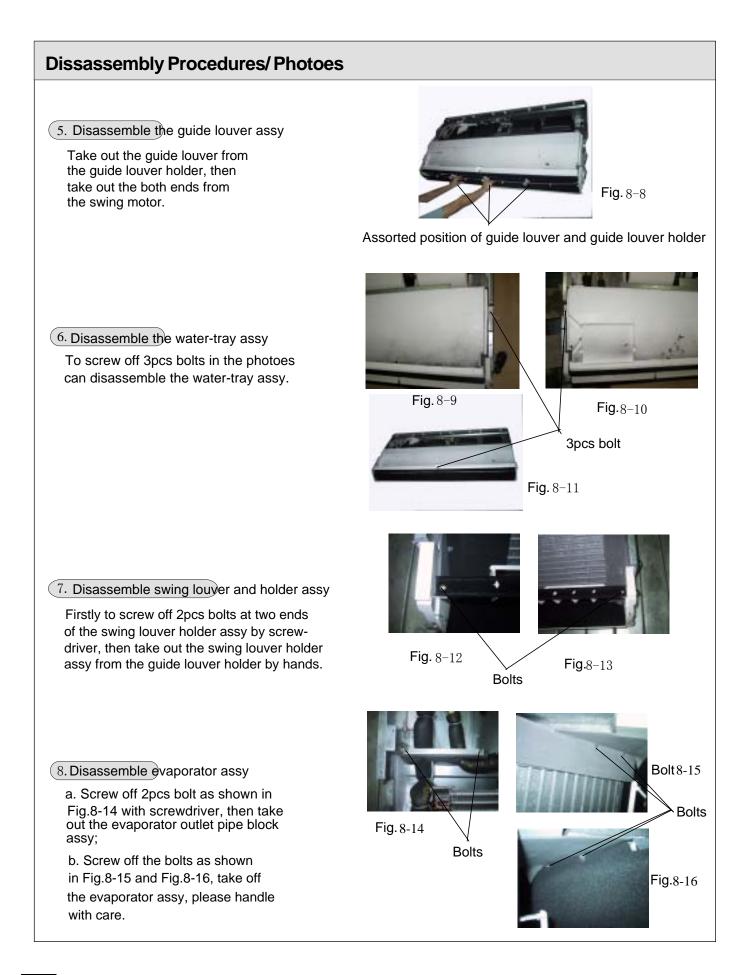
7.15 SLEEP mode operation • In cool and dry modes, set the sleep operation and run for 1 hour later, the setting temp. will be increased 1 $^\circ$ C, 2hours later, the setting temp. will be increased 2 $^\circ$ C, then it runs at the setting temp. In heat mode, set the sleep operation and run for 1hour later, the setting temp. will be decreased 1℃, 2hours later, the setting temp. will be decreased 2℃, then it runs at the setting temp. 4. Press the button to set the FAN speed. 3. Press the button, the guide louver will $(\blacksquare$ Þ) Ð đ automatically to swing. SWING FAN **AUTO FAN** OPER \$ °C 6 Press SLEEP button, enter into sleep mode, SWING when repressed the button, quit the mode. I) 5. Press the buttons to set desirable temper-SLEEP AIR ature. LIGHT HUMID TIMER ON TIMER OFF ANION SAVE 2 Press MODE button to select 🍪 0 modes. 1.When pluged in, press 1/0 the unit will start to run.



$8\mathchar`-1.$ Disassembly procedures for indoor unit







Dissassembly Procedures/ Photoes

9. Disassemble the aire outlet rear side plate assy

a. Firstly to remove the velveteen and the left and right sides ' of liners .;

b. To screw off the bolts as shown in the Fig. with screw driver.



-

Fig. 8–17

Fig. 8–18

10. Disassemble the left, right decoration plates assy of the swing motor

To screw off the bolts with screwdriver as shown in the fig.



Fig. 8-19 Bolt and the second

Fig. 8-20 Bolt

(11. Disassemble the left, right sides plates foam sub-assy

According to the direction,

to take out the left, right sides plates foam sub-assy.





Right side plate foam sub-assy Left side plate foam sub-assy

Bolts

Bolt 8-21

Bolt 8-22

(12. Disassemble motor assy

a.Pressing the clasp position where assorted with front, rear propeller housing(Fig.8-23), then lift up can take out the front propeller housing;

- b. Holding the clasp position of rear propeller housing (Fig.8-24) and lift it up, can take out the rear propeller housing;
- c.Then to loose the fixing bolts on the clutch with special tools(Fig.8-25), then move the clutch toward the louver, until can take out the clutch and rotating axial assy;
- d. To screw off the fixing screw on the louver with special tool, and take out the louvers.



Clasp

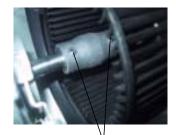
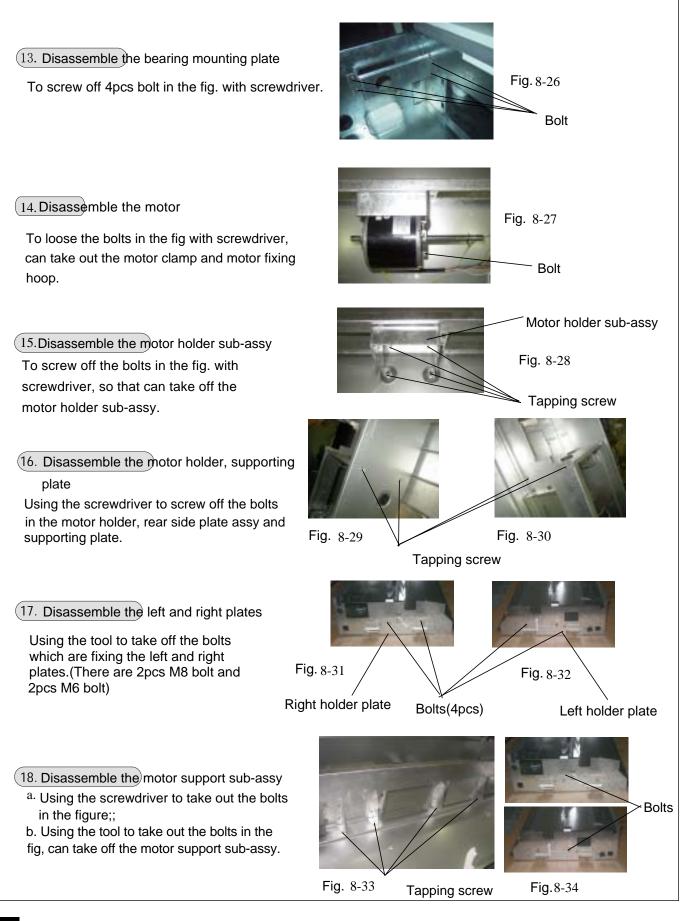


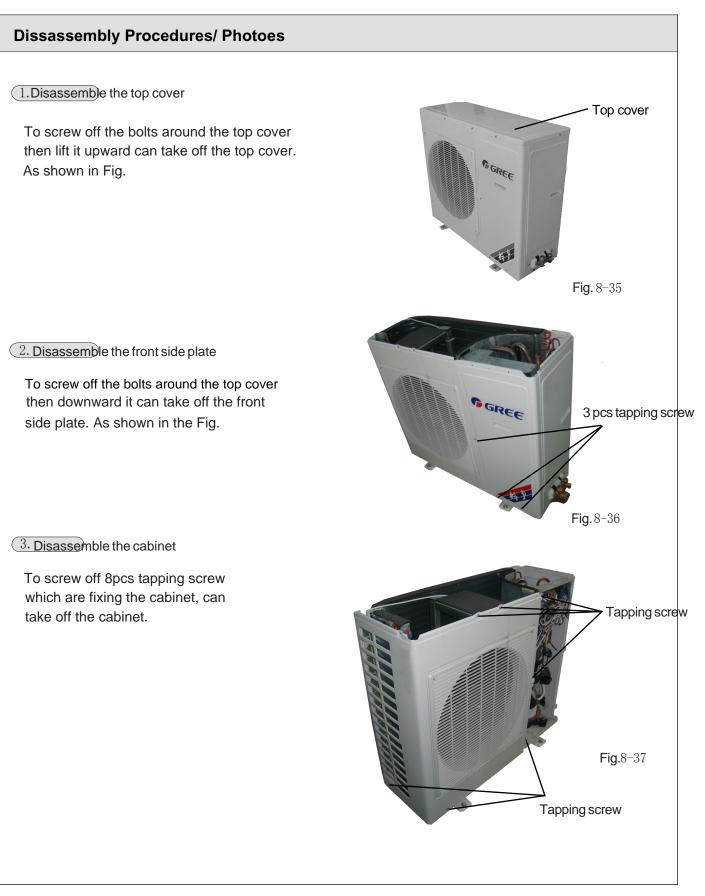
Fig. 8-25 Fixing screw

Fig. 8-24

Dissassembly Procedures/Photoes



8-2. The disassembly procedures for outdoor unit



Dissassembly Procedures/ Photoes

4. Disassemble the electrical appliances mounting plate

Disassemble 3pcs bolt which are fixing the electric mounting plate, pull out the lead wire insert of the compressor and fan motor, take out the electrical appliances mounting plate.

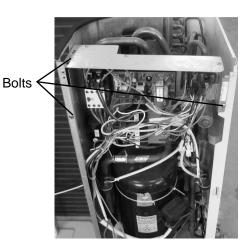


Fig. 8-38

(5. Disassemble the)rear side plate assy

Screw off 5pcs bolt of the rear side plate and 2pcs bolt of the rear grill, can disassemble the rear side plate assy. As shown in Fig.

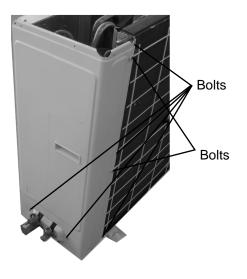
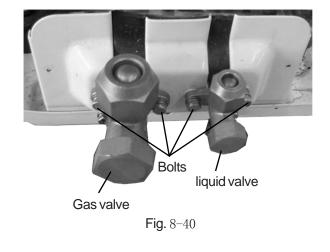


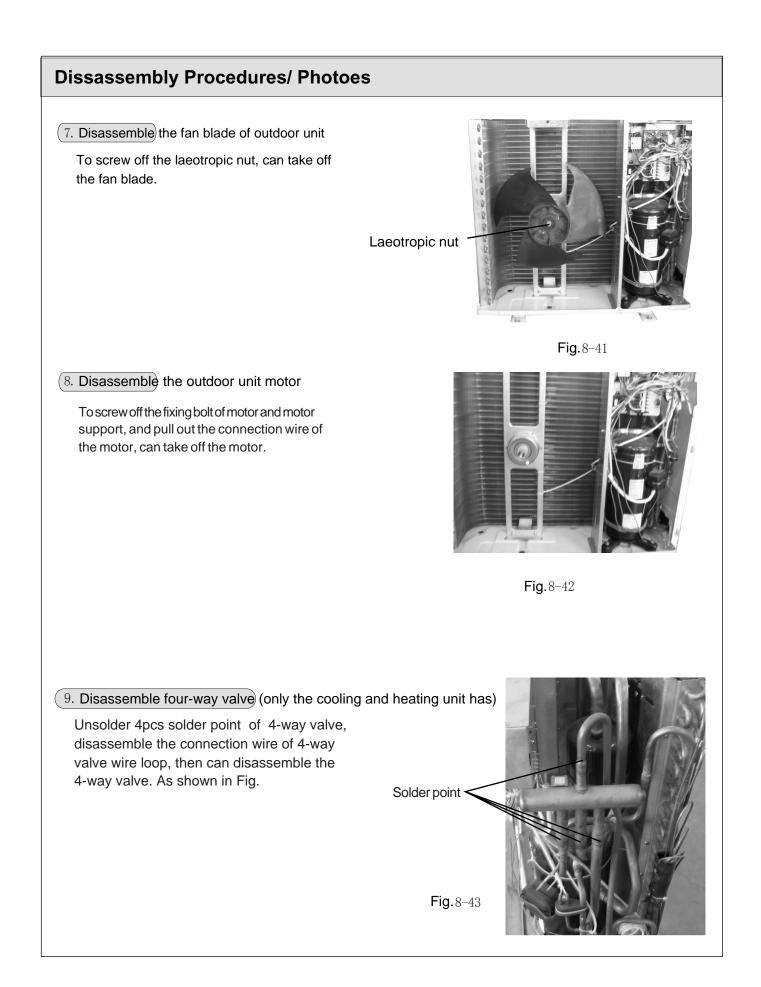
Fig. 8–39

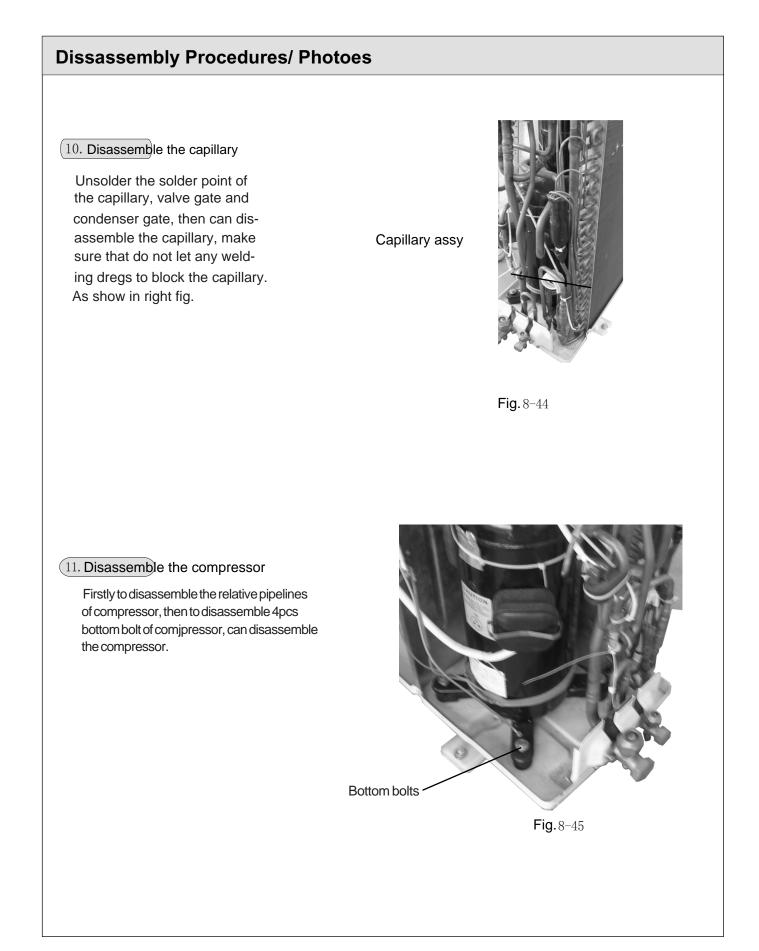
6. Disassemble the gas valve and liquid valve

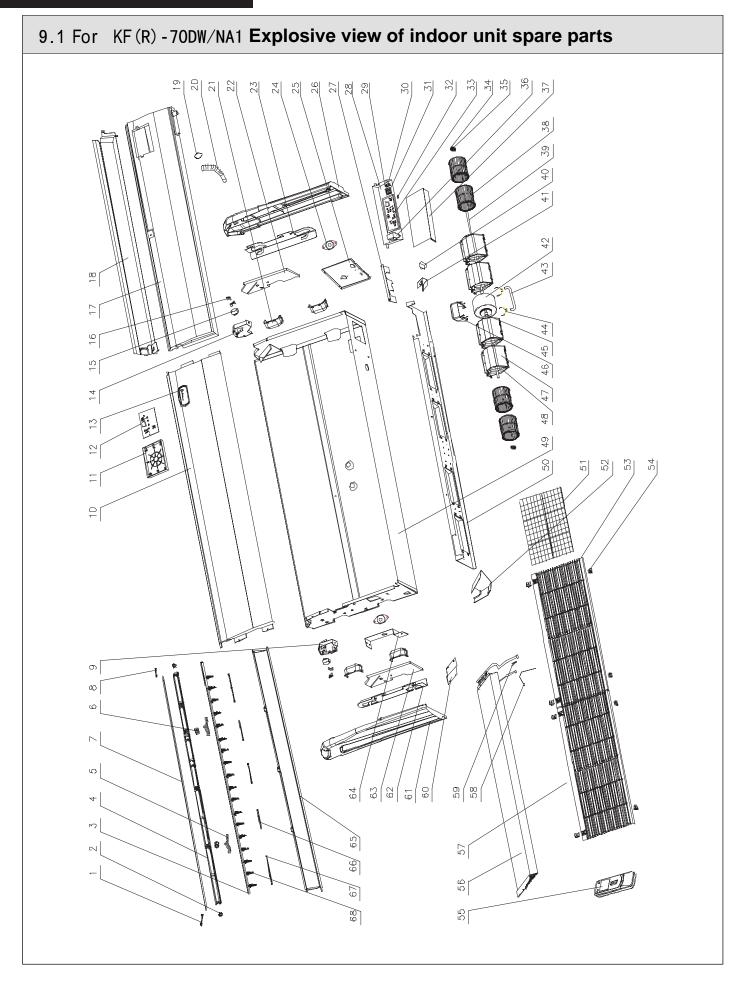
To screw off 2pcs bolt which fix the gas valve, then unsolder the gas valve.(Note: When unsolding the solder point, need to wrap the gas valve entirely with wet cloth, avoid the valve be damaged by high temperature), to screw off 2pcs bolt of the liquid valve, and unsolder the solder point of liquid valve and fork pipe, and take off the liquid valve.







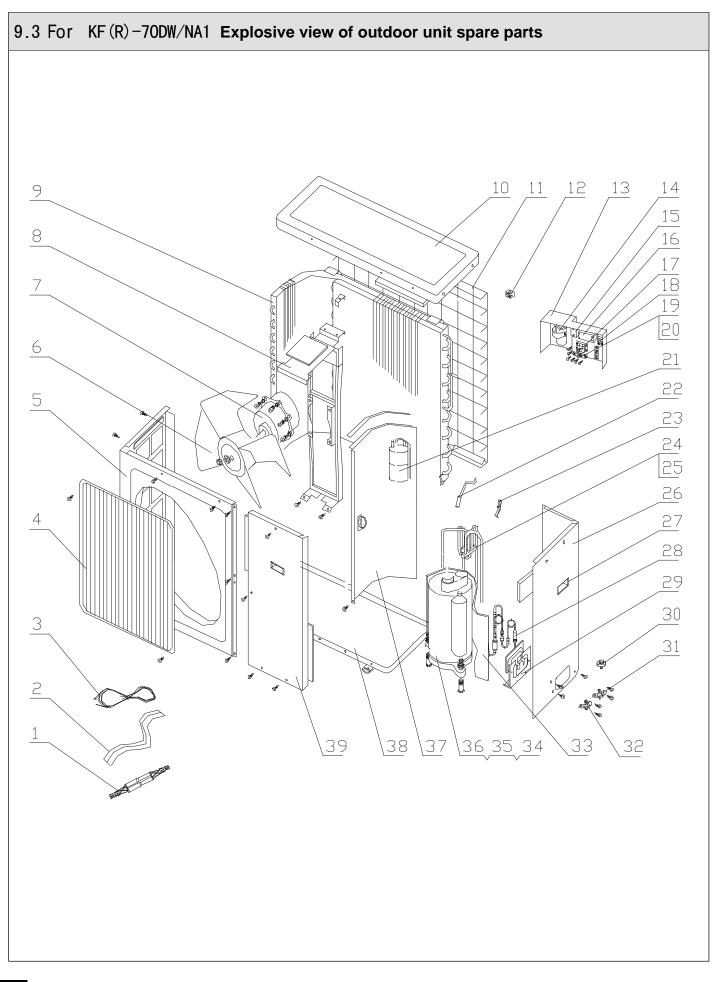




No	Description		Part	Part Code		
110		Discription	KFR-70D/NA1	KF-70D/NA1	Qty	
1	Left Decoration Plate	导板挤塑条左装饰板	26112417	26112417	1	
2	Shaft of Louver I	导风板转轴I	10512025	10512025	2	
3	Swing Louver Fixer	扫风叶片安装板	01332410	01332410	1	
4	Louver Support	导风板支架	24212020	24212020	3	
5	Louver Fixer	导风板固定架	24222016	24222016	2	
6	Louver	导风板	10512404	10512404	1	
7	Shaft of Louver II	导风板转轴II	10512026	10512026	2	
8	Right Decoration Plate	导板挤塑条右装饰板	26112421	26112421	1	
9	Left Swing Motor Fixer	扫风电机左安装板	26152007	26152007	1	
10	Front Panel	面板组件	01532414	01532414	1	
11	Display Box	电路板安装盒	20102138	20102138	1	
12	Display Board	显示板 6152BJ/6151BJ	30546106	30546105	1	
13	Buttons Panel	按键面板组件	20162004	20162004	1	
14	Right Swing Motor Fixer	扫风电机右安装板	26152008	26152008	1	
15	Step Motor MP35CA	步进电机(导风) MP35CA	15212402	15212402	2	
16	Motor Clamp	扫风电机压板	26112026	26112026	4	
17	Water Tray	接水盘	01272411	01272411	1	
18	Auxiliary Water Tray	辅助接水盘	01272413	01272413	1	
19	Pipe Clip	管箍	70812001	70812001	1	
20	Drainage Pipe	排水管组件	05235433	05235433	1	
21	Handle	提手	26232001	26232001	4	
22	Foam of Right Side Plate	右侧板泡沫	12312408	12312408	1	
23	Right Fixing Palte	右安装板	01332404	01332404	1	
24	Support of Motor Bearing	电机轴承座	01792408	01792408	2	
25	Fixer of Motor Support	电机支架支撑板	01792409	01792409	1	
26	Right Decoration Panel	右装饰板	26112033	26112033	1	
27	Pipe Clamp	蒸发器出管压板	01072424	01072424	1	
28	Electric Box	电器盒组件	01403242	01403242	1	
29	Wire Base	压线座	24253001	24253001	1	
30	Wire Clamp	压线板	24253002	24253002	1	
31	Terminal Board RS9413G	接线板 RS9413G	42010178	42010178	1	
32	Fuse 5A 250VAC	保险管5A 250VAC VDE	46010013	46010013	1	
33	Main PCB	主板6152J/6151J	30036052	30036051	1	
34	Ring of Bearing	· · · · · · · · · · · · · · · · · · ·	76512404	76512404	2	

No		Description	Part Code	Part Code	Qty
110		Description	KFR-70D/NA1	KF-70D/NA1	Qıy
35	Fan Bearing	风扇轴承	76512210	76512210	2
36	Transformer SC28D	电源变压器 SC28D	43110194	43110194	1
37	Cover of Electric Box	电器盒盖	01413008	01413008	1
38	Centrifugal Fan	离心风叶	10312401	10312401	4
39	Rotary Axis	转动轴组件	73012401	73012401	2
40	Capacitor CBB61 3uF/450	电容 CBB61 3uF/450V	33010027	33010027	1
41	Capacitor Fixer	电容固定板	01722408	01722408	1
42	Motor FN100A	电机 FN100A	15012406	15012406	1
43	Motor Fixer	电机固定箍	01722409	01722409	1
44	Motor Clamp	电机压板	01702405	01702405	4
45	Axes Connector	联轴器	73012403	73012403	2
46	Motor Fixing Plate	电机安装板组件	01332426	01332426	1
47	Front Snail Shell	前蜗壳	22202031	22202031	4
48	Rear Snail Shell	后蜗壳	22202032	22202032	4
49	Rear Side Plate	后侧板部件	01302419	01302419	1
50	Motor Support	电机支架组件	01702410	01702410	1
51	Filter	过滤网	11122012	11122012	2
52	Water Lead Plate	引水板组件	01362401	01362401	1
53	Front Grill	面板格栅	22412011	22412011	2
54	Front Grill Clip 2	面板格栅卡扣2	26252003	26252003	4
55	Remote Controller Y512	遥控器Y512(GREE)	30512506	30512506	1
56	Evaporator Assy	蒸发器部件	01002405	01002405	1
57	Front Grill Clip 1	面板格栅卡扣1	26252002	26252002	4
58	Temp Sensor	感温包	390001215	390001215	1
59	Temp Sensor Insert	感温包插片B	42020063	42020063	1
60	Cover of Evaporator	蒸发器盖板	01072417	01072417	1
61	Left Decoration Panel	左装饰板	26112032	26112032	1
62	Left Fixing Plate	左安装板	01332405	01332405	1
63	Left Side Foam	左侧板泡沫	12312405	12312405	1
64	Bearing Fixing Plate		01332407	01332407	1
65	Rear Side Plate of Air Outlet	出风口后侧板	01302405	01302405	1
66	Connecting Lever		10582008	10582008	3
67	Connecting Lever		10582009	10582009	2
68	Swing Louver		10512028	10512028	22

The above data are subject to change without notice.



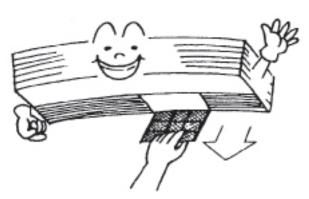
No	Description		Part Code	Part Code	Otv
110	Description		KF-70W/dNA1	KF-70W/dNA1	Qty
1	Signal Cable	信号控制线	400321531	40032140	1
2	Connecting Cable	电源连接线 #	40020454	40020454	1
3	Power Cord	电源线 #	400203181	400203181	1
4	Front grill	面罩	22265251	22265251	1
5	Front plate	外罩	01435254	01435254	1
6	Axial flow fan	轴流风叶	10335253	10335253	1
7	Motor FW60L	电机 FW60L	15013063	15013063	1
8	Motor support	电机支架	01705253	01705253	1
9	Condenser assy	冷凝器组件	011350302	01105039	1
10	Top cover	顶盖	01255262	01255262	1
11	Rear grill	网罩	01475251	01475251	1
12	Rear grill padding	网罩垫块	76315251	76315251	1
13	Electric box assy	电器盒组件	01405001	01405001	1
14	Capacitor 3uF	电容CBB61 3uF/450V	33010027	33010027	1
15	Capacitor 40uF	电容CBB65 40uF/450V	33000022	33000022	1
16	Ac contactor	双极交流接触器	44010221	44010221	1
17	Wiring terminal T480B	接线板 T480B	42011231	42011231	1
18	Wiring terminal 2-8	接线板 2-8	42011103		1
19	Wiring clamp	电线夹 #	71010102	71010102	2
20	Isolation Washer C	绝缘垫片C	70410523	70410523	1
21	Gas-liquid Separator	汽液分离器部件	07255251	07255251	1
22	Temp Sensor	热敏电阻	34030026	\	1
23	Temp Sensor Insert	感温包插片B	42020063	\	1
24	4-way Valve	四通阀(2匹)	430004031		1
25	4-way Valve Coil	四通阀配件	430004002	\	1
26	Rear Side Plate	后侧板组件	01303709	01303709	1
27	Handle	把手	26235252	26235252	3
28	Capillary Assy	毛细管组件	03003431	03003432	1
29	Valve Support	阀门支架组件	01715001	01715001	1
30	Drainage Connector	室外机排水接头	06123401	\	1
31	Liquid Valve Assy	小阀门组件	07105002	07105002	1
32	Gas Valve Assy	大阀门组件	07105007	07105007	1
33	Isolation cotton	压缩机吸音棉	75013118	75013118	1
34	Compressor C-RN220H5B	压缩机C-RN220H5B	00100063	00100063	1
35	Overload Protector	(过载内置)	Built in	Built in	1
36	Compressor Gasket	压缩机胶垫	76710210	76710210	3
37	Metal Base	底盘部件	01203059	01203059	1
38	Isolation Sheet Assy	隔板组件	01235253	01235253	1
39	Front Plate	前侧板	01305247	01305247	1

The above data are subject to change without notice.

Warning: Please turn power off before maintenance.

10.1 Cleaning the filter

Take out the filter, use the dust collector to clean, if it is too dirty could use the soap water to clean. Make sure to dry the filter then can reinsert it.



Advice:

▼ If the filter is too dirty that will affect the air in volume, so that make the system overloaded and consum more than 6% of electric energy. So it is very necessary to clean the filter.

10.2 Cleaning the equipment, spare parts

Use the dry, soft cloth or vacuum cleaner to clean the unit and wireless remote control. If the cloth is wet, please dry it after cleaned.



Warning:

- ▼ Never use the benzene, gasoline or something is hard to clean.
- ▼ Never use the hot water (40°C above) for cleaning, in order to avoid some spare part or part deformation.

10.3 Check in use

- Check that are there any obstructions block the air inlet or air outlet vents of indoor unit and outdoor unit.
- If there is not air filter when the unit is running, the dust will be accumulated and may cause the malfunction, usually it is necessary to install the filter.
- Check that the drainage pipe is bent or damaged.
- ▼ To check the equipment is normal or correct installaed.

10.4 Check after use

- ▼ Pull out the plug, cut off the power supply.
- Clean the filter and equipment, spare parts.
- ▼ Start fan motor for 2-3 hours in order to clean, dry the equipmenbt internal.

11. Trouble shooting

