MUND CLIMA®

WINDOW AIR CONDITIONER Service manual

MUVR-09-C9 COOLING ONLY







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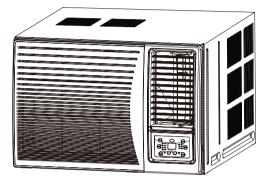
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Part | : Technical Information

1.Summary

Models:



Remote Controller:

YX1F



Technical Information

2.Specifications

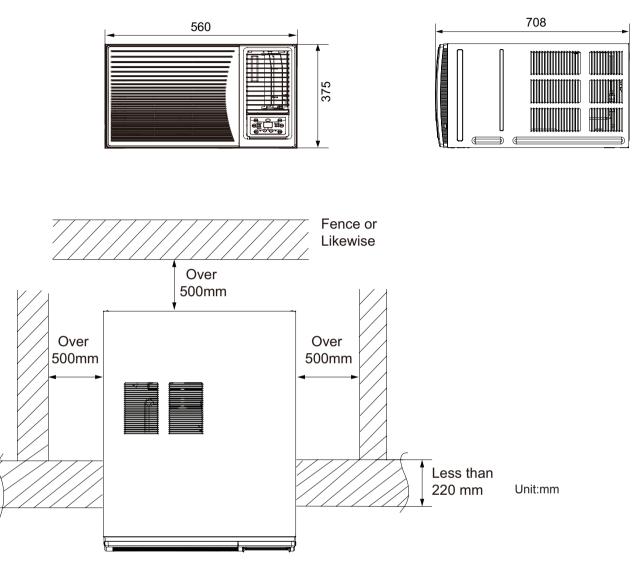
Model			MUVR-09-C9
Product Cod	le		CC055024300 CC055026500 CC055009900 CC055034100
_	Rated Voltage	V~	220~240
Power	Rated Frequency	Hz	50
Supply	Phases		1
Cooling Cap	pacity	W	2700
Heating Cap	· · ·	kJ/h	1
Cooling Pow	ver Input	W	782
Heating Pow	-	W	1
Cooling Cur	rent Input	A	3.5
Heating Cur	rent Input	A	1
Rated Input		W	1100
Rated Curre	nt	A	5.5
Air Flow Vol	ume(H/M/L)	m³/h	400/350/310
Dehumidifyii		L/h	1
EER		W/W	3.45
COP		W/W	1
Application A	Area	m²	12-18
Climate Type	e		T1
Isolation			l
Moisture Pro	otection		IPX4
Design Pres	sure Hi. Side	MPa	4.3
Design Pres	sure Low Side	MPa	2.5
Dimension (WXHXD)	mm	560X375X708
Dimension c	of Carton Box (LXWXH)	mm	803X620X410
Dimension c	of Package (LXWXH)	mm	806X623X425
Net Weight		kg	43
Gross Weigh	ht	kg	47
Refrigerant			R32
Refrigerant (Charge	kg	0.51
	Fan Type		Centrifugal
	Fan Diameter Length(DXL)	mm	Ф193.1Х80.9
	Cooling Speed	r/min	910/850/780
	Heating Speed	r/min	1
	Fan Motor Power Output	W	60
	Fan Motor RLA	A	0.5
	Fan Motor Capacitor	μF	4
	Electric Heating Power Input	W	1
Indoor Side	Evaporator Form		Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ7
	Evaporator Row-fin Gap	mm	3-1.3
	Evaporator Coil Length (LXDXW)	mm	330X323.9X38.1
	Swing Motor Model		MP24VA
	Swing Motor Power Output	W	2.5
	Fuse Current	А	3.15
	Sound Pressure Level (H/M/L)	dB (A)	50/48/46
	Sound Power Level (H/M/L)	dB (A)	59/57/55

	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO., LTD
	Compressor Model		QXF-A086zT190
	Compressor Oil		FW68DA or equivalent
	Compressor Type		Rotary
	Compressor LRA.	А	1
	Compressor RLA	А	4.1
	Compressor Power Input	W	860
	Compressor Overload Protector		1NT11L-6233/KSD115°C/HPC115/95U1
	Throttling Method		Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	16~43
Quitale en	Heating Operation Ambient Temperature Range	°C	1
Outdoor Side	Condenser Form		Aluminum Fin-copper Tube
Clac	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	2-1.4
	Condenser Coil Length (LXDXW)	mm	602.2X25.4X342.9
	Fan Motor Speed (H/M/L)	rpm	910/850/780
	Fan Motor Power Output	W	60
	Fan Motor RLA	А	0.5
	Fan Motor Capacitor	μF	4
	Outdoor Unit Air Flow Volume	CFM	800
	Fan Type		Axial-flow
	Fan Diameter	mm	Ф353
	Sound Pressure Level (H/M/L)	dB (A)	56/54/52
	Sound Power Level (H/M/L)	dB (A)	65/63/61
	Defrosting Method		1

The above data is subject to change without notice; please refer to the nameplate of the unit.

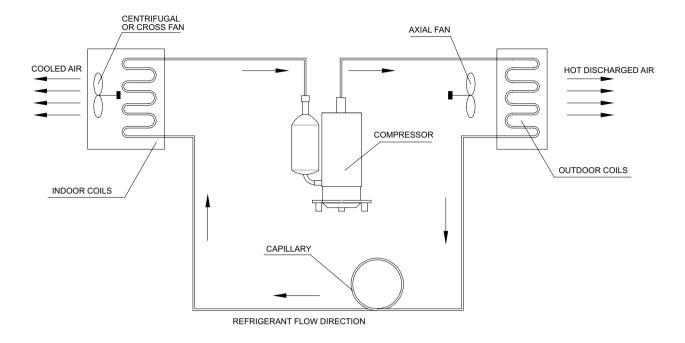
3.Outline Dimension Diagram

Note:Take B3 Panel for example.





4.Refrigerant System Diagram



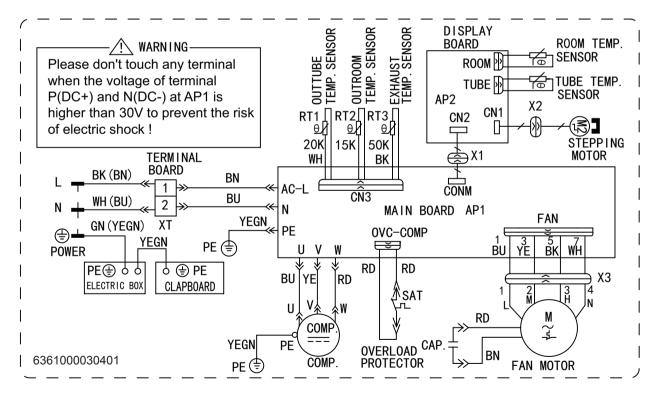
5.Electrical Part

5.1 Wiring Diagram

Instruction

Symbol	Symbol Color	Symbol	Symbol Color	Symbol	Name
WH	White	GN	Green	CAP.	Capacitor
YE	Yellow	BN	Brown	COMP	Compressor
RD	Red	BU	Blue		Grounding wire
YEGN	Yellow-Green	BK	Black	1	/

•Electric Diagram

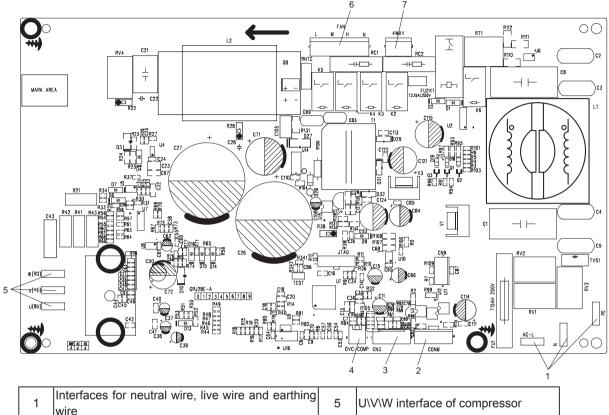


These wiring diagrams are subject to change without notice; please refer to the one supplied with the unit.

5.2 PCB Printed Diagram

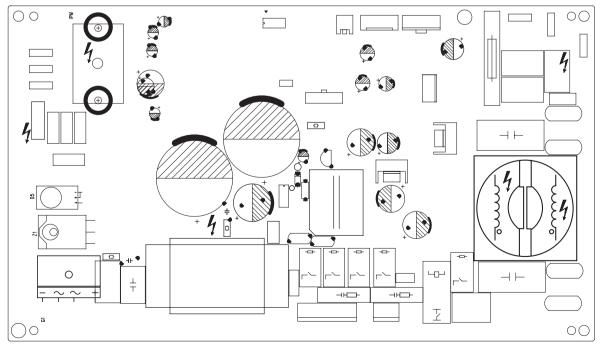
5.2.1 Silk screen on main board

•Top view



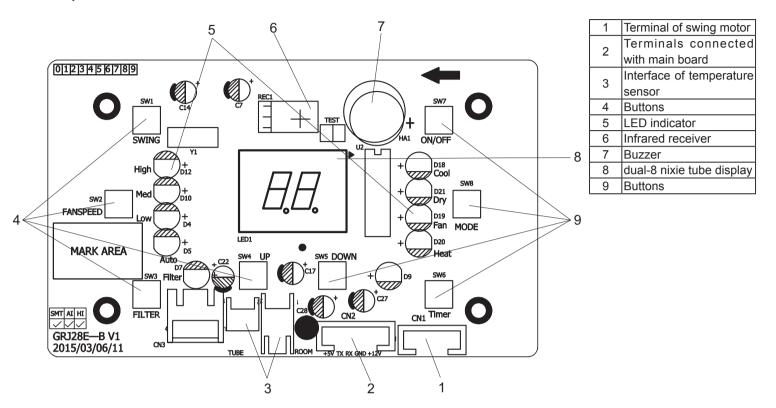
	lwite		
2	Communication interface	6	Interface of AC fan
3	Interface of temperature sensor	7	Interface of 4-way valve (reserved)
4	Interface of overload protection of compressor		

Bottom view

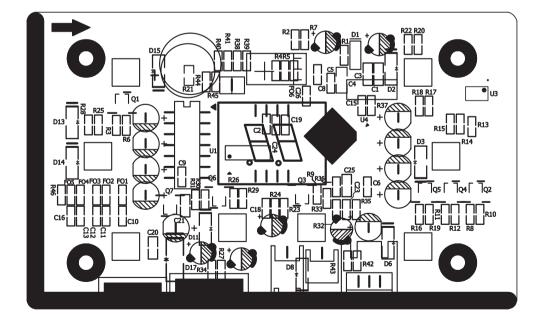


5.2.2 Silk screen on display board

•Top view



•Bottom view

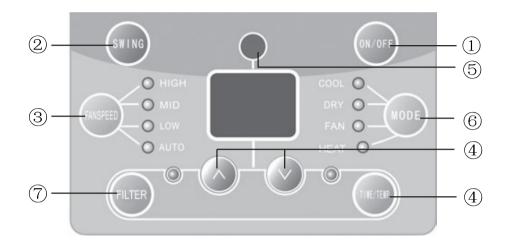


6.Function and Control

After putting through the power, air conditioner will give out a sound and indicators on control panel will be on. After that, you operate the air conditioner through remote controller or control panel.

6.1 Introduction of Control Panel

Note: If wireless remote controller is lost, open the surface panel and operate manually.



1.POWER BUTTON

Operation starts when pressing this button, and stops when pressing this button again.

2.SWING BUTTON

Activate the automatic air swing function.

3.FAN SPEED BUTTON

Select the fan speed HIGH, MID, LOW and AUTO in sequence.

4.TEMP/TIMER BUTTON

① Press the ▲ keypad to increase the set (operating) temperature of the unit.and Press the ▼ keypad to decrease the set (operating) temperature of the unit.The temperature seting range is from 16~30°C.

② Press the ▲ keypad also to increase the selected time in 0.5h(1h) hour increments, and Press the ▼ keypad to decrease the selected time in 0.5h(1h) hour decrements, Timer setting range is 0.5~24 hours.

Note:When operating the unit with control panel:when the timer range is 0~10h, the timer scale is 0.5h; when the timer range is 10~24h, the timer scale is 1h. When operating the unit with remote controller, the timer scale is 0.5h.

③ Under on status, timer function can let the complete unit operate at COOL mode for a while and then switch to fan mode. The fan mode is AUTO fan speed.

5.SIGNAL RECEIVER

6.MODE BUTTON

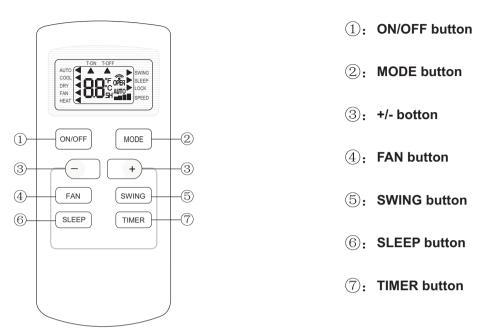
Select the operation mode, AUTO, HEAT, COOL, FAN, DRY (for reverse cycle model) or COOL, FAN, DRY(for cooling only model).

7.FILTER BUTTON

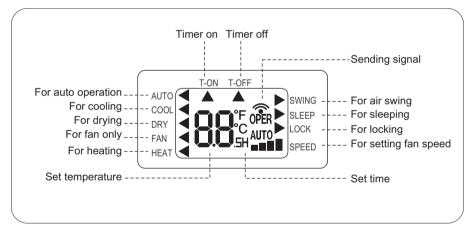
This feature is a reminder to clean the Air Filter (See Care and Cleaning) for more efficient operation and cooling. The LED (light) will illuminate after 250 hours of operation. To reset after cleaning the filter, press the "Check Filter" button and the light will go off.

6.2 Introduction of Remote Controller

Buttons on Remote Controller



Icon Display on Remote Controller



Operation introduction of remote controller

Note:

- When power is connected(stand by condition), you can operate the air conditioner through the remote controller.
- ◆ When unit is on, each time you press the button on remote controller, the sending signal icon <a>? on the display of remote controller will blink once. If the air conditioner gives out a beep sound, it means the signal has been sent.
- When unit is off, set temperature will be displayed on the remote controller(If the light of indoor unit display is turned on, the corresponding icon will be displayed); When unit is on, it will display the icon of the on-going function.

1. ON/OFF Button

Press this button to turn unit on/off.

2. MODE Button

Pressing this button once can select your required mode circularly as below(the corresponding icon **>** will be lit up after the mode is selected):

AUTO COOL DRY FAN HEAT(For cooling and heating model)

◆ When selecting auto mode, air conditioner will operate automatically according to ex-factory setting. Set temperature can't be adjusted and won't be displayed either. Press FAN button to adjust fan speed.

• When selecting cool mode, air conditioner will operate under cool mode. Then press + or -- button to adjust set temperature. Press FAN button to adjust fan speed.

- When selecting dry mode, air conditioner will operate at low fan speed under dry mode. In dry mode, fan speed can't be adjusted.
- When selecting fan mode, air conditioner will operate in fan mode only. Then press FAN button to adjust fan speed.

• When selecting heat mode, air conditioner will operate under heat mode. Then press + or -- button to adjust set temperature. Press FAN button to adjust fan speed. (This function is not available in this air conditioner.)

3. +/- button

◆ Pressing + or - button once will increase or decrease set temperature by 1 °F(°C). Hold + or -- button for 2s, set temperature on remote controller will change guickly. Release the button after your required set temperature is reached.

• When setting Timer On, Timer Off or Clock, press + or -- button to adjust the time (See TIMER Button for setting details).

4. FAN Button

Pressing this button can select fan speed circularly as: AUTO, SPEED 1(4), SPEED 2(41), SPEED 3(41), SPEED 4(411) (unavailable in this air conditioner. Speed 4 is the same with speed 3).

_►AUTO► ſ		
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■SPEED 1 (equals to low fan speed)

SPEED 3 (equals to high fan speed)

SPEED 2 (equals to medium fan speed)

SPEED 4 (equals to high fan speed)

Note:

- ◆ Under Auto mode, air conditioner will select proper fan speed automatically according to ex-factory setting.
- ◆ Fan speed can't be adjusted under Dry mode.

5. SWING Button

Press this button to turn on left & right air swing.

6. SLEEP Button

Under Cool, Heat, Dry mode, press this button to turn on Sleep function. Press this button to cancel Sleep function. Under Fan and Auto mode, this function is unavailable.

7. TIMER Button

♦ When unit is on, press this button to set Timer Off. T-OFF and H icon will be blinking. Within 5s, press + or - button to adjust the time for Timer Off. Pressing + or - button once will increase or decrease the time by 0.5h. Hold + or - button for 2s, time will change quickly. Release the button after your required set time is reached. Then press TIMER button to confirm it. T-OFF and H icon will stop blinking.

♦ When unit is off, press this button to set Timer On. T-ON and H icon will be blinking. Within 5s, press + or - button to adjust the time for Timer On. Pressing + or - button once will increase or decrease the time by 0.5h. Hold + or - button for 2s, time will change quickly. Release the button after your required set time is reached. Then press TIMER button to confirm it. T-ON and H icon will stop blinking.

Note:

- ◆ Range of time setting is: 0.5~24h.
- ◆ The interval between two motions can't exceed 5s, otherwise the remote controller will exit setting status.

Simple operationfirst

1.After putting through power "[0N/0FF]" button on remote controller to turn on the air conditioner.

2.Press "[MODE] " button to select your required operation mode: AUTO, COOL, DRY, FAN.

3.Press "+" or "-" button to set your required temperature.(temperature can't adjusted under AUTO mode)

4.Press " FAN " button to select your required fan speed: auto, first notch, second notch, third notch, fourth notch (fourthnotch is same as third notch for this air conditioner.)

Replacement of Batteries in Remote Controller

1. Press the back side of remote controller on the spot marked with \cancel{P} , and then push out the cover of battery box along the arrow direction.

2. Replace two No.7 (AAA 1.5V) dry batteries and make sure the positions of + and -- polar are correct.

3. Reinstall the cover of battery box.

Note:

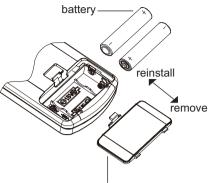
• During operation, point the signal sender of the remote controller at the receiving window of the indoor unit;

◆ The distance between signal sender and receiving window should be within 8m. There should be no obstacle between them.

◆ Signal may be interfered easily in the room where there is fluorescent lamp or wireless telephone; Remote controller should be close to indoor unit during operation.

• Replace new batteries of the same model when replacement is required.

If you don't use remote controller for a long time, please take out the batteries.
If the display on remote controller is fuzzy or if there's no display, please replace batteries.



cover of battery box

6.3 Function Introduction

I Basic functions:

- Cooling mode
- 1. Working condition and process for cooling:

a.When Tinner amb. ≥Tpreset, the unit operates under cooling mode. Meanwhile, the fan and the compressor operate, and the fan operates at set fan speed;

b. When Tinner amb. ≤Tpreset-2°C , the compressor stops operation, and the fan operates at set fan speed;

c. When Tpreset-2 $^\circ\!\!\mathbb{C}\!<\!$ Tinner amb. $<\!$ Tpreset, the unit keeps previous operation status.

d. When turning off the unit, the compressor stops operation. The fan will stop operation after operating at low fan speed for another 30s.

2. Under cooling mode, the temperature setting range is $16^{\circ}C \sim 30^{\circ}C$. When compressor stops operation due to malfunction, the fan and the swing fan operate at original status.

$\Box_{\mathcal{N}}$ Drying mode

1. Working condition and process for drying:

a. When Tinner amb. > Tpreset, the unit operates at drying mode. Meanwhile, the fan and the compressor operate, and the fan is defaulted to operate at low fan speed;

b. When Tpreset-2°C ≤Tinner amb.≤Tpreset, the unit keeps the original operation status;

c. When Tinner amb. < Tpreset-2 $^{\circ}$ C , compressor stops operation, and the fan is defaulted to operate at low fan speed.

d. When turning off the unit, the compressor stops operation. The fan will stop operation after operating at low fan speed for another 30s.

 $2\,{\rm s}$. In this mode, the temperature setting range is $16\,{\rm ^\circ\!C}\,{\sim}\,\,30\,{\rm ^\circ\!C}$.

$\Xi_{\mathbf{x}}$ Auto mode

Working condition and process for auto operation

a. When Tinner amb.≥26 $^\circ\! C$, the unit operates at cooling mode and Tpreset=25 $^\circ\! C$;

b. When T inner amb.≤ 22 $^\circ\!\mathrm{C}$, the unit operate at fan mode and Tpreset=20 $^\circ\!\mathrm{C}$;

c. When 22°C < Tinner amb. < 26°C, the unit keeps the original operation status; If it's the first time to enter into auto mode, the unit

will operate at fan mode.

四、Fan mode

Under the fan mode, compressor stops operation and the fan operates at set fan speed. Temperature can't be set by buttons on the control panel, while it can be set by remote controller.

II Buttons' function

1. ON/OFF:

It used to turn on or turn off the unit.

2. Mode:

It used to switch among cooling mode, drying mode and fan mode.

3. Fan speed:

It used to set high, medium, low or auto fan speed. The corresponding LED indicator is on (under drying mode, this button can't be adjusted. The fan speed is the low speed).

4.+/- button:

4.1 The temperature setting range is 0~24 hours. The timer can be set in 0.5 hour increments between 1 and 10 hours; or in 1 hour increments for 10 hours above.

4.2 Under temperature setting range, each push on +/- button will increase or decrease 1° C.

5. Swing:

Press this button to turn on swing function; press this button again to cancel swing function.

6. Timer function

6.1 Timer ON: Timer ON can be set under OFF status, and then Timer ON setting range is 0.5 \sim 24 hours. When the set time is reached, the system will operate at the preset mode.

6.2 Timer OFF: Timer OFF can be set under ON status, and then Timer OFF setting range is 0.5 \sim 24 hours. When the set time is reached, the system will stop operation.

7. The dual-8 nixie tube is defaulted to display $^{\circ}$ C . The displays can switch among $^{\circ}$ C and $^{\circ}$ F . Press "+"and"-"buttons simultaneously for 3s to switch them.

8. FILTER

When the fan has operated for 250hour in all, the filter indicator will be on to remind user to clean the filter. When the filter indicator is on, press filter button to clear the accumulated operation time and the filter indicator will be off.

9. Sleeping mode;

9.1 When the initial temperature is set at $16 \sim 23^{\circ}$ C, after turning on the sleeping function, the temperature will increase by 1° C every two hours. When the temperature is increased by 3° C, the temperature will not change any more. When the unit has operated for 7 hours, the temperature will decreased by 1° C. After that, the unit will operate at this time all the time.

9.2 When the initial temperature is set at $24 \sim 27^{\circ}$ C, after turning on the sleeping function, the temperature will increase by 1° C every two hours. When the temperature is increased by 2° C, the temperature will not change any more. When the unit has operated for 7 hours, the temperature will decreased by 1° C. After that, the unit will operate at this time all the time.

9.3 When the initial temperature is set at $28 \sim 29^{\circ}$ C, after turning on the sleeping function, the temperature will increase by 1° C every two hours. When the temperature is increased by 1° C, the temperature will not change any more. When the unit has operated for 7 hours, the temperature will decreased by 1° C. After that, the unit will operate at this time all the time.

9.4 When the initial temperature is set at 30 $^{\circ}$ C, after turning on the sleeping function, the unit will operate at this temperature. When the unit has operated for 7 hours, the temperature will decreased by 1 $^{\circ}$ C. After that, the unit will operate at this time all the time.

10. Fan

The fan can operate at high, medium, low or auto fan speed. The auto fan speed will automatically adjust the current operation status of the fan.

a. Auto fan speed under cooling mode:

Tinner amb. \geq Tpreset+2°C high fan speed

 ${\sf Tpreset} < {\sf T} \text{ inner amb.} < {\sf Tpreset} + 2\,{^\circ\!\!{\rm C}} \ \ \text{medium fan speed}$

T inner amb.≤Tpreset low fan speed

b. The fan speed under fan mode is same as that for cooling mode.

c. The auto fan under auto mode is controlled by the auto fan under its actual mode;

d. Only low fan speed under drying mode. When adjusting the fan speed button, only the low fan indicator is ON and the buzzer will give out a sound.

11. Power-off memory

The system will memorize the setting operation status (mode, set temperature, fan speed, timer) before power failure. Once power recovered, the unit will automatically operate at the set status before power failure.

Part || :Installation and Maintenance

7.Notes for Installation and Maintenance

Safety Precautions: Important!

Please read the safety precautions carefully before installation and maintenance.

The following contents are very important for installation and maintenance.

Please follow the instructions below.

•The installation or maintenance must accord with the instructions.

•Comply with all national electrical codes and local electrical codes.

•Pay attention to the warnings and cautions in this manual.

•All electric work must be performed by a licensed technician according to local regulations and the instructions given in this manual.

•Be caution during installation and maintenance. Prohibit incorrect operation to prevent electric shock, casualty and other accidents.



Electrical Safety Precautions:

1. Cut off the power supply of air conditioner before checking and maintenance.

 The air condition must apply specialized circuit and prohibit share the same circuit with other appliances.
 The air conditioner should be installed in suitable location and ensure the power plug is touchable.

4. Make sure each wiring terminal is connected firmly during installation and maintenance.

5. Have the unit adequately grounded. The grounding wire can't be used for other purposes.

6. Must apply protective accessories such as cablecross loop and wire clip.

7. The live wire, neutral wire and grounding wire of power supply must be corresponding to the live wire, neutral wire and grounding wire of the air conditioner.

 8. If power cord is broken, please get the specialized power cord from the manufacture or distributor.
 9. If the power cord is not long enough, please get the

specialized power cord from the manufacture or distributor. Prohibit prolong the wire by yourself.

10. Make sure all wires and pipes are connected properly.

11. Check if there is electric leakage on the unit body. If yes, please eliminate the electric leakage.

12. Replace the fuse with a new one of the same specification if it is burnt down; don't replace it with a cooper wire or conducting wire.

13. If the unit is to be installed in a humid place, the circuit breaker must be installed.

Installation Safety Precautions:

1. Select the installation location according to the requirement of this manual.(See the requirements in installation part)

2. Handle unit transportation with care; the unit should not be carried by only one person if it is more than 20kg.

3. When installing the unit, a suffi-cient fixing bolt must be installed; make sure the installation support is firm.

4. Ware safety belt if the height of working is above 2m.

5. Use equipped components or appointed components during installation.

6. Make sure no foreign objects are left in the unit after finishing installation.

Refrigerant Safety Precautions:

1. Avoid contact between refrigerant and fire as it generates poisonous gas; Prohibit prolong the connection pipe by welding.

2. Apply specified refrigerant only. Never have it mixed with any other refrigerant. Never have air remain in the refrigerant line as it may lead to rupture or other hazards.

3. Make sure no refrigerant gas is leaking out when installation is completed.

4. If there is refrigerant leakage, please take sufficient measure to minimize the density of refrigerant.

5. Never touch the refrigerant piping or compressor without wearing glove to avoid scald or frostbite.

Improper installation may lead to fire hazard, explosion, electric shock or injury.

Safety Precautions for Refrigerant

1. To realize the function of the air conditioner unit, a special refrigerant circulates in the system. The used refrigerant is the fluoride R32, which is specially cleaned. The refrigerant is flammable and inodorous. Furthermore, it can leads to explosion under certain conditions. But the flammability of the refrigerant is very low. It can be ignited only by fire.

2. Compared to common refrigerants, R32 is a nonpolluting refrigerant with no harm to the ozonosphere. The influence upon the greenhouse effect is also lower. R32 has got very good thermodynamic features which lead to a really high energy efficiency. The units therefore need a less filling.

WARNING:

1. Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacture. Should repair be necessary, contact your nearest authorized Service Centre. Any repairs carried out by unqualified personnel may be dangerous. The appliance shall be stored in a room without continuously operating ignition sources. (for example:open flames, an operating gas appliance or an operating electric heater.)

- 2. Do not pierce or burn.
- 3. Appliance shall be installed, operated and stored in a room with a floor area larger than 4m².
- 4. Appliance filled with flammable gas R32. For repairs, strictly follow manufacturer's instructions only.Be aware that
- refrigrants not contain odour.
- 5. Read specialist's manual.



Appliance filled with flammable gas R32.

Before use the appliance, read the owner's manual first.

1 Before install the appliance, read the installation manual first.

Before repair the appliance,read the service manual first.

Safety Operation of Flammable Refrigerant

Qualification requirement for installation and maintenance man

1. All the work men who are engaging in the refrigeration system should bear the valid certification awarded by the authoritative organization and the qualification for dealing with the refrigeration system recognized by this industry. If it needs other technician to maintain and repair the appliance, they should be supervised by the person who bears the qualification for using the flammable refrigerant.

2. It can only be repaired by the method suggested by the equipment's manufacturer.

Installation notes

1. The air conditioner is not allowed to use in a room that has running fire (such as fire source, working coal gas ware, operating heater).

2. The air conditioner must be installed in a room that is larger than the minimum room area.

The minimum room area is shown on the nameplate or following table.

3. Leak test is a must after installation.

	Charge amount (kg)	≤1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2	2.1	2.2	2.3	2.4	2.5
	floor location	/	14.5	16.8	19.3	22	24.8	27.8	31	34.3	37.8	41.5	45.4	49.4	53.6
Minimum room	window mounted	/	5.2	6.1	7	7.9	8.9	10	11.2	12.4	13.6	15	16.3	17.8	19.3
area(m ²)	wall mounted	/	1.6	1.9	2.1	2.4	2.8	3.1	3.4	3.8	4.2	4.6	5	5.5	6
	ceiling mounted	/	1.1	1.3	1.4	1.6	1.8	2.1	2.3	2.6	2.8	3.1	3.4	3.7	4

Table- Minimum room area (m²)

Maintenance notes

- 1. Check whether the maintenance area or the room area meet the requirement of the nameplate. It's only allowed to be operated in the rooms that meet the requirement of the nameplate.
- 2. Check whether the maintenance area is well-ventilated.
- The continuous ventilation status should be kept during the operation process.
- 3. Check whether there is fire source or potential fire source in the maintenance area. The naked flame is prohibited in the maintenance area; and the "no smoking" warning board should be hanged.
- 4. Check whether the appliance mark is in good condition. Replace the vague or damaged warning mark.

Welding

- 1. If you should cut or weld the refrigerant system pipes in the process of maintaining, please follow the steps as below:
- a. Shut down the unit and cut power supply
- b. Eliminate the refrigerant
- c. Vacuuming
- d. Clean it with N2 gas
- e. Cutting or welding
- f. Carry back to the service spot for welding
- 2. Make sure that there isn't any naked flame near the outlet of the vacuum pump and it's well-ventilated.
- 3. The refrigerant should be recycled into the specialized storage tank.

Filling the refrigerant

1. Use the refrigerant filling appliances specialized for R32. Make sure that different kinds of refrigerant won't contaminate with each other.

- 2. The refrigerant tank should be kept upright at the time of filling refrigerant.
- 3. Stick the label on the system after filling is finished (or haven't finished).
- 4. Don't overfilling.

5. After filling is finished, please do the leakage detection before test running; another time of leak detection should be done when it's removed.

Safety instructions for transportation and storage

1. Please use the flammable gas detector to check before unload and open the container.

- 2. No fire source and smoking.
- 3. According to the local rules and laws.

8.Installation

8.1 Installation Precaution

Window type conditioner is so valuable and the improper installation of it will cause a lot of damage! Please associate the professional technician to install the unit and don't install it by yourself. Otherwise, we are not responsible for the damage like this.

8.2 Location

- The condensation water must be drained away conveniently.
- Install air conditioner unit far away from TV set or radioetc. to avoid disturbing video or voice.

• In salt and coastal area or place where is near thermal springs and polluted by sulphurous gas, or other special areas, please contact the seller before use.

- Avoid a place where is possible for inflammable gas to leak out.
- Avoid other heat sources or direct sun light.
- Avoid a place where is easy for children to touch.
- Don't use the unit in the immediate surrondings of a laundry, a bath, a shower or a swimming pool.

• For window type air conditioner with remote control, install in a location where is strong electromagnetic disturbance, you should contact the seller in advance to avoid the malfunction in use.

8.3 How to Install

- Choose a location where there are no any obstacle surrounding the unit, and the plug is accessible.
- Prepare the installation hole slightly bigger than unit size.
- Choose the installation space according to outline dimension diagram.(Please refer to the chapter 3)

8.4 Installation Procedure

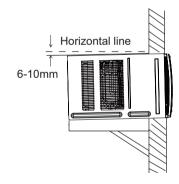
1) Remove the sticker from the front panel.

2) Put the unit into the installation hole.

• When installing, make sure the unit is slanted downward to the back to minimize the nosie and vibration of operation. (Slant by 6-10mm.) (See the right figure)

• Make sure the installation place is strong enough to minimize the noise and vibration of operation.

3) Fill the gaps in the cabinet with sponge or foam.



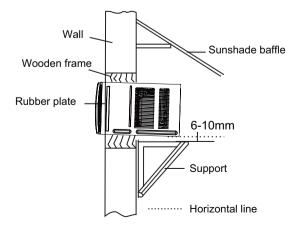
8.5 Installation Assistance

1) Use iron support

The installation hole should be strong enough to support the air conditioner. If it cannot, iron support has to be used outdoors. Iron support should be fixed on the building (Shown at right figure.)

2) Use sunshade board

Air conditioner should avoid anything to be dropped into it and avoid direct sunshine. If there is no cover on it, you should contact the seller for installing the sunshade board. When installing the sunshade board, don't let it block the air inlet at the side grille.



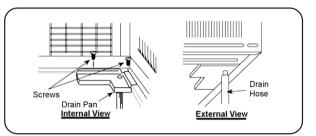
8.6 Drain Water

TDrain pan and drain hose need to be installed before using. Drain hose is not included in the products, you need to purchase it locally to satisfy your particular needs. Use the following procedure to install drain pan and drain hose.

- 1. Slide out the chassis from the cabinet.
- 2. Install the drain pan to the corner of the cabinet with 2 screws.
- 3. Connect the drain hose to the outlet on the drain pan bottom.
- 4. Slide the chassis into its original place in the cabinet.

Note:

To get the maximum cooling efficiency , the air conditioner is designed to splash the condensation water on the condenser coil . If the splashing sound annoy you , you can remove the rubber plug from the chassis to lower the noise, which also cause a bit loss of performance.



8.7 Notes for Installation

1) Remove

Before removing air conditioner to the other place, you should contact the seller firstly. Then it must be done under the direction of the professional technician. In addition, the charge of this must be paid.

2) Noise

- Install in a location where is firm enough to avoid the enlargement of noise and vibration.
- Don't put anything in front of the outlet of outdoor unit to avoid increasing noise.
- Be sure that hot air or noise will not inconvenience r neighbors.
- Please contact the seller as soon as there is strange noise during operation.
- Please use the safety support.

3) Electric wiring

- Must connect with ground reliably.
- The exclusive circuit must be used. But removable socket can't be used because poor contact of it can cause over heat or fire.
- Don't pull the power cord strongly.
- In fixed circuit, there must be electricity leakage protection switch and leakage current is less than 30mA.

• Connecting method between air conditioners and power cord and interconnecting method of each individual element with one another should accord with wiring diagram on the unit.

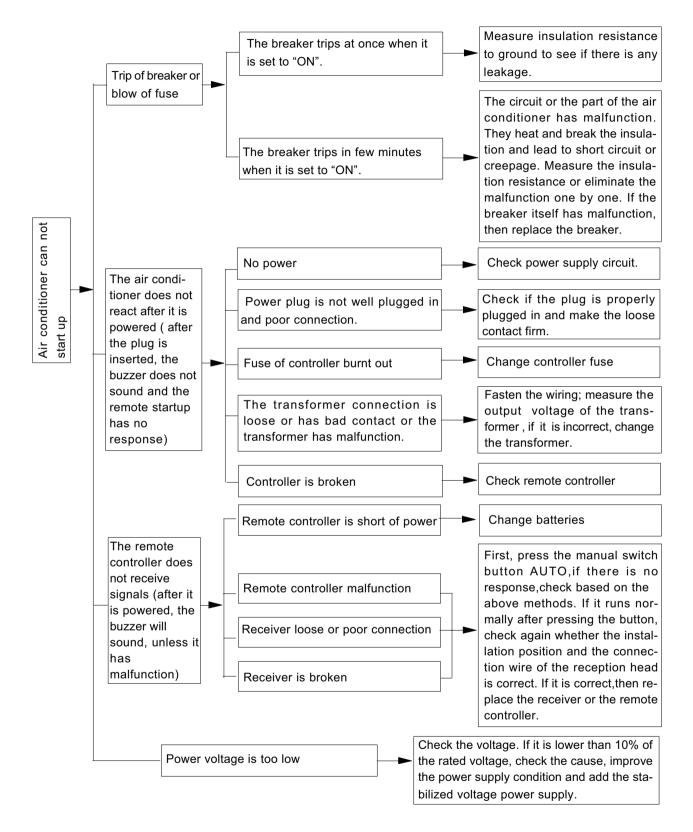
- The air conditioner should be installed in accordance with national wiring regulation.
- An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.

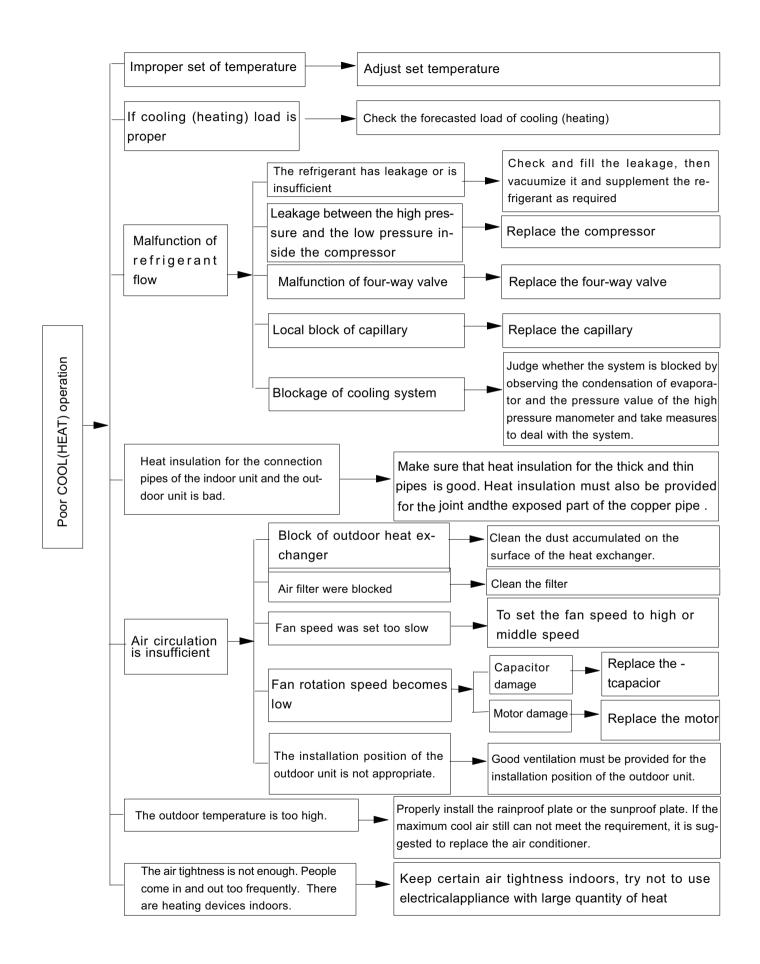
• Air switch (thermal-magnetic breaker) should be installed in the circuit If the supply cord is damaged, it must be replaced by the manufacturer or your dealer or a qualified person to avoid a hazard.

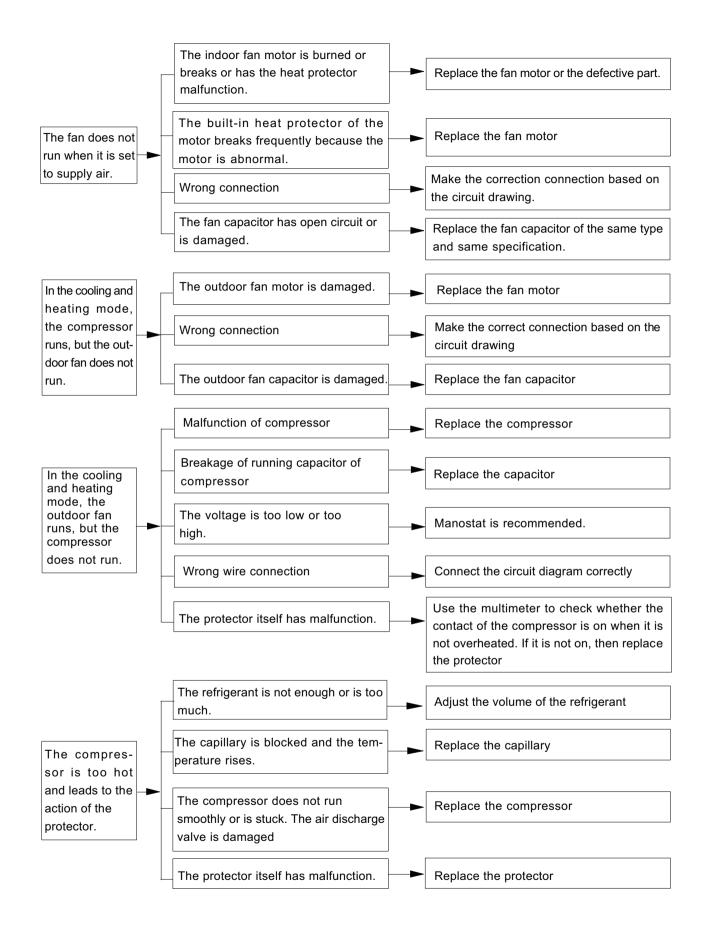
• All The dectrical work must be done according to the local wiring regulations.

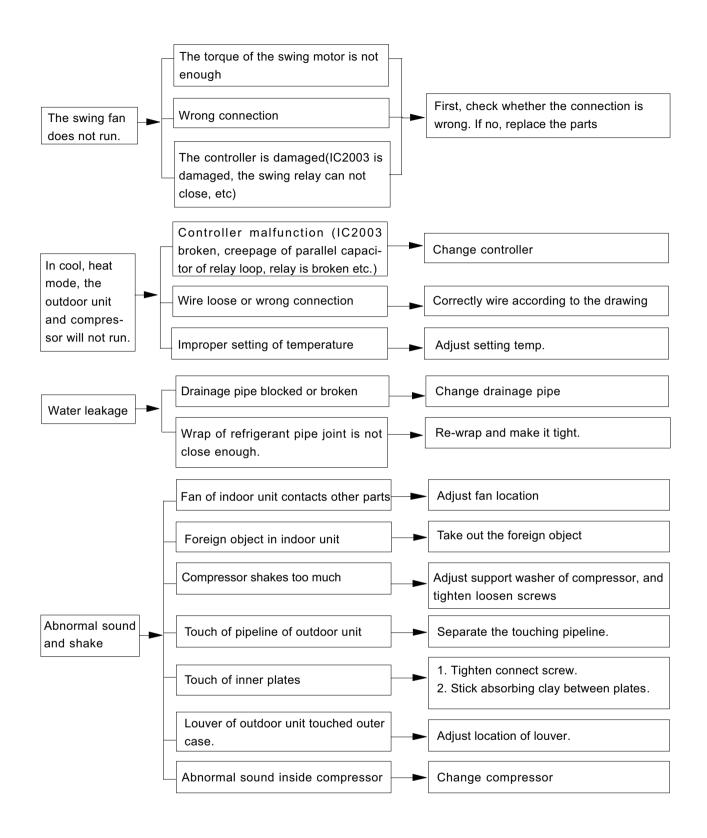
9.Maintenance

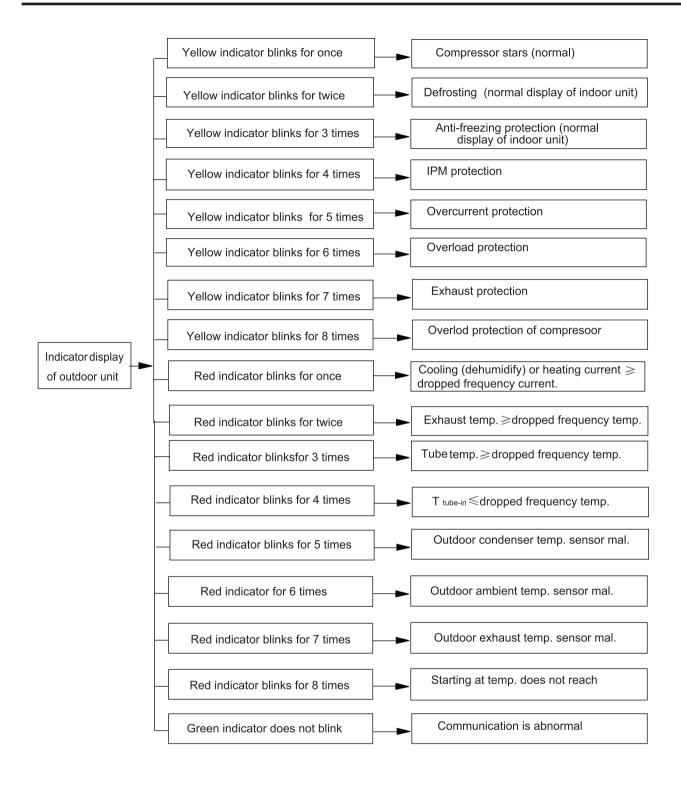
9.1 Malfunction Analysis











9.2 Flashing LED of Indoor/Outdoor Unit and Primary Judgement

		Die	play Metho	d of Indoo	r I Init	Display M	athod of O	utdoor Unit		
		DIS		r Display (tor has 3 k		-	
	Malfunction	Dual-8		ON 0.5s a	-		status and			
No.	Name	Code	biinking,	0.5s)				d OFF 0.5s	A/C Status	Possible Causes
	Name	Display	Operation	<u> </u>	Heat	Yellow	Red	Green	4	
		Display	Indicator	Indicator		Indicator	Indicator	Indicator		
			Indicator	Indicator	Indicator	Indicator	Indicator	Indicator	During coaling and	Possible reasons: 1. Refrigerant was
1	High pressure protection of system	E1	OFF 3s and blink once						stop operation. During heating operation, the complete unit stops.	and bad radiating environment); Ambient temperature is too high.
2	Antifreezing protection	E2	OFF 3S and blink twice			OFF 1S and blink 3 times			During cooling and drying operation, compressor and outdoor fan stop while indoor fan operates.	3. Evaporator is dirty.
3	System block or refrigerant leakage	E3	OFF 3S and blink 3 times				OFF 1S and blink 9 times		The Dual-8 Code Display will show E3 until the low pressure switch stop operation.	1.Low-pressure protection 2.Low-pressure protection of system 3.Low-pressure protection of compressor
4	High discharge temperature protection of compressor	E4	OFF 3S and blink 4 times			OFF 1S and blink 7 times			During cooling and drying operation, compressor and outdoor fan stop while indoor fan operates. During heating operation, all loads stop.	Please refer to the malfunction analysis (discharge protection, overload).
5	Overcurrent protection	E5	OFF 3S and blink 5 times			OFF 1S and blink 5 times			During cooling and drying operation, compressor and outdoor fan stop while indoor fan operates. During heating operation, all loads stop.	 Supply voltage is unstable; Supply voltage is too low and load is too high; Evaporator is dirty.
6	Communication Malfunction	E6	OFF 3S and blink 6 times					OFF	During cooling operation,compressor stops while indoor fan motor operates. During heating operation, the complete unit stops.	Refer to the corresponding malfunction analysis.

		Dis	play Metho	d of Indoo	r Unit	Display	Method of Unit	Outdoor			
No.	Malfunction Name	Dual-8 Code	Indicator Display (during blinking, ON 0.5s and OFF 0.5s)			display	tor has 3 k status an , ON 0.5s 0.5s	d during	A/C Status	Possible Causes	
		Display	Operation Indicator	Cool Indicator	Heat Indicator	Yellow Indicator	Red Indicator	Green Indicator			
7	Normal communication							continously			
8	High temperature resistant protection	E8	OFF 3S and blink 8 times			OFF 1S and blink 6 times			During cooling operation: compressor will stop while indoor fan will operate.During heating operation, the complete unit stops.	Refer to the malfunction analysis (overload, high temperature resistant).	
9	EEPROM malfunction	EE			OFF 3S and blink 15 times	OFF 1S and blink 11 times			During cooling and drying operation, compressor will stop while indoor fan will operate;During heating operation, the complete unit will stop	Replace outdoor control panel AP1	
10	Limit/ decrease frequency due to high temperature of module	EU		OFF 3S and blink 6 times	OFF 3S and blink 6 times				All loads operate normally,while operation frequency for compressor is decreased	Discharging after the complete unit is de-energized for 20mins, check whether the thermal grease on IPM Module of outdoor control panel AP1 is sufficient and whether the radiator is inserted tightly. If its no use, please replace control panel AP1.	
11	Malfunction protection of jumper cap	C5	OFF 3S and blink 15 times						Wireless remote receiver and button are effective, but can not dispose the related command	 No jumper cap insert on mainboard. Incorrect insert of jumper cap. Jumper cap damaged. Abnormal detecting circuit of mainboard. 	
12	Gathering refrigerant	Fo		OFF 3S and blink 1 times					When the outdoor unit receive signal of Gathering refrigerant ,the system will be forced to run under cooling mode for gathering refrigerant	Nominal cooling mode	

		Dis	play Metho	d of Indoo	r Unit	Display	Method of Unit	Outdoor		
No.	Malfunction Name	Dual-8 Code Display	Indicator Display (during blinking, ON 0.5s and OFF 0.5s)			display blinking	tor has 3 k status and ON 0.5s 0.5s	d during	A/C Status	Possible Causes
		Display	Operation Indicator	Cool Indicator	Heat Indicator	Yellow Indicator	Red Indicator	Green Indicator		
13	Indoor ambient temperature sensor is open/short circuited	F1		OFF 3S and blink once					During cooling and drying operation, indoor unit operates while other loads will stop; during heating operation, the complete unit will stop operation.	mainboard fell down leads short circuit. 3. Indoor ambient temp. sensor damaged.(check with sensor resistance value chart) 4. Mainboard damaged.
14	Indoor evaporator temperature sensor is open/short circuited	F2		OFF 3S and blink twice					AC stops operation once reaches the setting temperature. Cooling, drying: internal fan motor stops operation while other loads stop operation; heating: AC stop operation	 Loosening or bad contact of Indoor evaporator temp. sensor and mainboard terminal. Components on the mainboard fall down leads short circuit. Indoor evaporator temp. sensor damaged.(check temp. sensor value chart for testing) Mainboard damaged.
15	Outdoor ambient temperature sensor is open/short circuited	F3		OFF 3S and blink 3 times			OFF 1S and blink 6 times		During cooling and drying operating, compressor stops while indoor fan operates; During heating operation, the complete unit will stop operation	Outdoor temperature sensor hasnt been connected well or is damaged. Please check it by referring to the resistance table for temperature sensor)

		Dis	play Metho	d of Indoo	r Unit	Display	Method of Unit	Outdoor		
No.	Malfunction Name	Dual-8 Code Display	Indicator Display (during blinking, ON 0.5s and OFF 0.5s)			display	tor has 3 k status and , ON 0.5s 0.5s	d during	A/C Status	Possible Causes
		Display	Operation Indicator	Cool Indicator	Heat Indicator	Yellow Indicator	Red Indicator	Green Indicator		
16	Outdoor condenser temperature sensor is open/short circuited	F4		OFF 3S and blink 4 times			OFF 1S and blink 5 times		compressor stops while indoor fan will operate;During heating operation, the complete unit will	Outdoor temperature sensor hasnt been connected well or is damaged. Please check it by referring to the resistance table for temperature sensor)
17	Outdoor discharge temperature sensor is open/short circuited	F5		OFF 3S and blink 5 times			OFF 1S and blink 7 times		drying operation, compressor will sop after operating for about 3 mins, while indoor fan will operate;During heating operation, the complete unit will stop after operating for about 3 mins.	
18	Limit/ decrease frequency due to overload	F6		OFF 3S and blink for 6 times			OFF 1S and blink 3 times		All loads operate normally,while operation frequency	Refer to the malfunction analysis (overload, high temperature resistant)
19	Decrease frequency due to overcurrent	F8		OFF 3S and blink 8 times			OFF 1S and blink once		All loads operate normally,while operation frequency for compressor is decreased	The input supply voltage is too low; System pressure is too high and overload
20	Decrease frequency due to high air discharge	F9		OFF 3S and blink 9 times			OFF 1S and blink twice		normally, while operation frequency for compressor is	Overload or temperature is too high;Refrigerant is insufficient; Malfunction of electric expansion valve (EKV)
21	Limit/ decrease frequency due to antifreezing	FH		OFF 3S and blink 2 times	OFF 3S and blink 2 times		OFF 1S and blink 4 times		operation frequency	Poor air-return in indoor unit or fan speed is too low

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	Malfunction Name	Dis	play Metho	d of Indoo	r Unit		Method of Unit tor has 3 k		-	
No.		Dual-8 Code	Indicator Display (during blinking, ON 0.5s and OFF 0.5s)			display	status and ON 0.5s 0.5s	d during	A/C Status	Possible Causes
		Display	Operation Indicator		Heat Indicator	Yellow Indicator	Red Indicator	Green Indicator		
22	Voltage for DC bus-bar is too high	PH		OFF 3S and blink 11 times		OFF 1S and blink 13 times			During cooling and drying operation, compressor will stop while indoor fan will operate;During heating operation, the complete unit will stop operation.	voltage of electrolytic capacitor C on control panel (AP1), if its normal, theres malfunction for the circuit, please replace the control panel (AP1)
23	Voltage of DC bus-bar is too low	PL			OFF 3S and blink 21 times	OFF 1S and blink 12 times			During cooling and drying operation, compressor will stop	
24	Compressor Min frequence in test state	P0		(during blinking, ON 0.25s and OFF 0.25s)	(during blinking, ON 0.25s and OFF 0.25s)					Showing during min. cooling or min. heating test

	Malfunction Name	Di	splay Metho	od of Indoo	r Unit		Method of Unit		-	
No.		Dual-8 Code	Indicator Display (during blinking, ON 0.5s and OFF 0.5s)			Indicator has 3 kinds of display status and during blinking, ON 0.5s and OFF 0.5s			A/C Status	Possible Causes
		Display	Operation Indicator	Cool Indicator	Heat Indicator	Yellow Indicator	Red Indicator	Green Indicator		
25	Compressor rated frequence in test state	P1		(during blinking, ON 0.25s and OFF 0.25s)	(during blinking, ON 0.25s and OFF 0.25s)					Showing during nominal cooling or nominal heating test
26	Compressor maximum frequence in test state	P2		(during blinking, ON 0.25s and OFF 0.25s)	(during blinking, ON 0.25s and OFF 0.25s)					Showing during max. cooling or max. heating test
27	Compressor intermediate frequence in test state	P3		(during blinking, ON 0.25s and OFF 0.25s)	(during blinking, ON 0.25s and OFF 0.25s)					Showing during middle cooling or middle heating test
28	Overcurrent protection of phase current for compressor	P5		OFF 3S and blink 15 times					During cooling and drying operation, compressor will stop while indoor fan will operate;During heating operation, the complete unit will stop operation.	
29	Charging malfunction of capacitor	PU		OFF 3S and blink 17 times					During cooling and drying operation, compressor will stop while indoor fan will operate:During	Refer to the part three—charging malfunction analysis of capacitor
30	Malfunction of module temperature sensor circuit	P7			OFF 3S and blink 18 times				During cooling and drying operation, compressor will stop while indoor fan will operate;During heating operation, the complete unit will stop	Replace outdoor control panel AP1

		Di	splay Metho	od of Indoo	r Unit		Method of Unit			
No.	Malfunction Name	Dual-8 Code	Indicator Display (during blinking, ON 0.5s and OFF 0.5s)			Indicator has 3 kinds of display status and during blinking, ON 0.5s and OFF 0.5s			A/C Status	Possible Causes
		Display	Operation Indicator	Cool Indicator	Heat Indicator	Yellow Indicator	Red Indicator	Green Indicator		
	Module high temperature protection	P8			OFF 3S and blink 19 times				During cooling operation,compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop	After the complete unit is deenergized for 20mins, check whether the thermal grease on IPM Module of outdoor control panel AP1 is sufficient and whether the radiator is inserted tightly. If its no use, please replace control panel AP1.
32	Decrease frequency due to high temperature resistant during heating operation	НО			OFF 3S and blink 10 times				All loads operate normally, while operation frequency for compressor is decreased	Refer to the malfunction analysis (overload, high temperature resistant)
33	Static dedusting protection	H2			OFF 3S and blink twice					
34	Overload protection for compressor	НЗ			OFF 3S and blink 3 times	OFF 1S and blink 8 times			During cooling and drying operation, compressor will stop while indoor fan will operate;During heating operation, the complete unit will stop operation.	1. Wiring terminal OVC-COMP is loosened. In normal state, the resistance for this terminal should be less than 10hm. 2.Refer to the malfunction analysis (discharge protection, overload)
35	System is abnormal	H4			OFF 3S and blink 4 times	OFF 1S and blink 6 times			During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation	Refer to the malfunction analysis (overload, high temperature resistant)

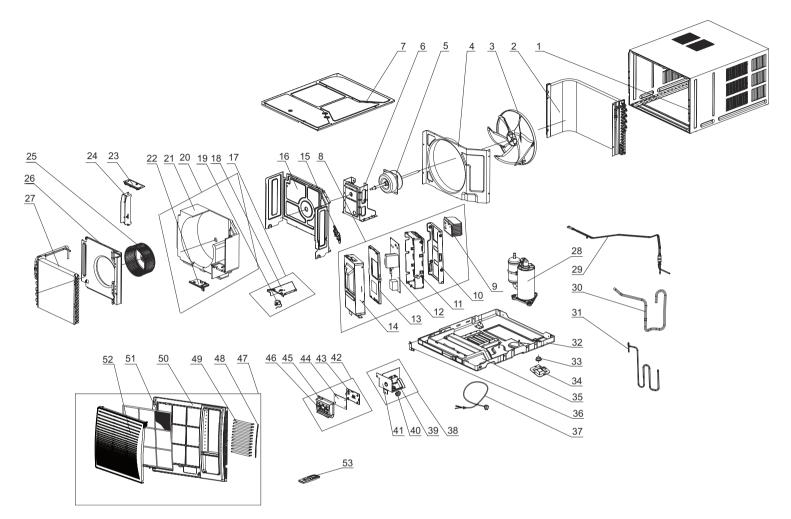
		Di	splay Metho	od of Indoo	r Unit	Display	Method of Unit	Outdoor		
No.	Malfunction Name	Dual-8 Code	Indicator Display (during blinking, ON 0.5s and OFF 0.5s)			Indicator has 3 kinds of display status and during blinking, ON 0.5s and OFF 0.5s			A/C Status	Possible Causes
		Display	Operation Indicator	Cool Indicator	Heat Indicator	Yellow Indicator	Red Indicator	Green Indicator		
36	IPM protection	H5			OFF 3S and blink 5 times	OFF 1S and blink 4 times			During cooling and drying operation, compressor will stop while indoor fan will operate;During heating operation, the complete unit will stop operation.	
37	Module temperature is too high	H5			OFF 3S and blink 5 times	OFF 1S and blink 10 times				
38	Internal motor (fan motor) do not operate	H6	OFF 3S and blink 11 times						external fan motor, compressor and	 Bad contact of DC motor feedback terminal. Bad contact of DC motor control end. Fan motor is stalling. Motor malfunction. Malfunction of mainboard rev detecting circuit.
39	Desynchronizing of compressor	H7			OFF 3S and blink 7 times				During cooling and drying operation, compressor will stop while indoor fan will operate;During heating operation, the complete unit will stop operation.	
40	PFC protection	HC			OFF 3S and blink 6 times	OFF 1S and blink 14 times			During cooling and drying operation, compressor will stop while indoor fan will operate;During heating operation, the complete unit will stop operation.	Refer to the malfunction analysis

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	Malfunction Name	Di	splay Metho	od of Indoo	r Unit	Display	Method of Unit	Outdoor		
No.		Dual-8 Code				Indicator has 3 kinds of display status and during blinking, ON 0.5s and OFF 0.5s			A/C Status	Possible Causes
		Display	Operation Indicator	Cool Indicator	Heat Indicator	Yellow Indicator	Red Indicator	Green Indicator		
41	Outdoor DC fan motor malfunction	L3	OFF 3S and blink 23 times				OFF 1S and blink 14 times		Outdoor DC fan motor malfunction lead to compressor stop operation,	DC fan motor malfunction or system blocked or the connector loosed
42	power protection	L9	OFF 3S and blink 20 times			OFF 1S and blink 9 times			compressor stop operation and Outdoor fan motor will stop 30s latter , 3 minutes latter fan motor and compressor will restart	To protect the electronical components when detect high power
43	Indoor unit and outdoor unit doesn't match	LP	OFF 3S and blink 19 times			OFF 1S and blink 16 times			compressor and Outdoor fan motor can't work	Indoor unit and outdoor unit doesn't match
44	Failure startup	LC			OFF 3S and blink 11 times				During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	Refer to the malfunction analysis
45	Malfunction of phase current detection circuit for compressor	U1			OFF 3S and blink 13 times				During cooling and drying operation, compressor will stop while indoor fan will operate;During heating operation, the complete unit will stop	Replace outdoor control panel AP1
46	Malfunction of voltage dropping for DC bus-bar	U3			OFF 3S and blink 20 times				During cooling and drying operation, compressor will stop while indoor fan will operate;During heating operation, the complete unit will stop	Supply voltage is unstable
47	Malfunction of complete units current detection	U5		OFF 3S and blink 13 times					During cooling and drying operation, the compressor will stop while indoor fan willoperate;During heating operating, thecomplete unit will stop operation.	Theres circuit malfunction on outdoor units control panel AP1, please replace the outdoor units control panel AP1.

	Malfunction Name	Di	splay Metho	od of Indoo	r Unit	Display	Method of Unit	Outdoor		
No.		Dual-8 Code	Indicator Display (during blinking, ON 0.5s and OFF 0.5s)			Indicator has 3 kinds of display status and during blinking, ON 0.5s and OFF 0.5s			A/C Status	Possible Causes
		Display	Operation Indicator	Cool Indicator	Heat Indicator	Yellow Indicator	Red Indicator	Green Indicator		
	The four-way valve is abnormal	U7	OFF 3S and blink 20 times						If this malfunction occurs during heating operation, the complete unit will stop operation.	 Supply voltage is lower than AC175V; Wiring terminal V is loosened or broken; 4V is damaged, please replace 4V.
49	Zerocrossing malfunction of outdoor unit	U9	OFF 3S and blink 18 times						During cooling operation,compressor will stop while indoor fan will operate; during heating,the complete unit will stop operation.	Replace outdoor control panel AP1
50	Frequency limiting (power)						OFF 1S and blink 13 times			
51	Compressor is opencircuited					OFF 1S and blink once				
	The temperature for turning on the unit is reached						OFF 1S and blink 8 times			
53	Frequency limiting (module temperature)						OFF 1S and blink 11 times			
54	Defrosting				OFF 3S and blink once (during blinking, ON 10s and OFF 0.5s)	OFF 1S and blink twice			Defrosting will occur in heating mode. Compressor will operate while indoor fan will stopoperation.	Its the normal state

10.Exploded View and Parts List



The component is only for reference; please refer to the actual product.

	Description		Part Code		
NO.	Dradvat Oada	GJC09AF-E6RNB3A	GJC09AF-E6DRNB9A	GJC09AF-E6DRNC9A	Qty
4	Product Code	CC055009900	CC055024300	CC055026500	
1	Cabinet Assy	00000600002	00000600002	00000600002	1
2	Condenser Assy	01100200516	01100200516	01100200516	1
3	Axial Flow Fan	10331365	10331365	10331365	1
4	Clapboard Sub-Assy	01702100005	01702100005	01702100005	1
5	Fan Motor	1501106108	1501106108	1501106108	1
6	Motor Support	01204800022	01204800022	01204800022	1
7	Top Cover Board Sub-assy	01701100003	01701100003	01701100003	1
8	Electric Box Assy 1	10000100727	10000100727	10000100727	1
9	Radiator	49010074	49010252	49010074	1
10	ShieldBox (Electric Box)	01227900001	01227900001	01227900001	1
11	Electric Box	20001300002	20001300002	20001300002	1
12	Main Board	30132213	30132213	30132213	1
13	Electric Box Cover	20008200002	20008200002	20008200002	1
14	Electric Box Cover Sub-Assy	01705300005	01705300005	01705300005	1
15	Wire Clamp	20001400001	71010102	20001400001	1
16	Front Clapboard Sub-Assy	01700200001	01700200001	01700200001	1
17	Base Plate Assy	00016300019	00016300019	00016300019	1
18	Base Plate	01223400002	01223400002	01223400002	1
19	Stepping Motor	1521100802	1521100802	1521100802	1
20	Propeller housing Assy	00001200001	00001200001	00001200001	1
20	Foam(Propeller Housing)	12311051	12311051	12311051	1
21		10521362	10521362	10521362	1
	Base of Swing Louver				
23	Cross Beam	24241364	24241364	24241364	1
24	Air Louver	10511127	10511127	10511127	1
25	Centrifugal Fan	10311016	10311016	10311016	1
26	Front Clapboard of Propeller Housing	01711900001	01711900001	01711900001	1
27	Evaporator Assy	01100100278	01100100278	01100100278	1
28	Compressor and Fittings	00101411	00101411	00101411	1
29	Capillary Sub-Assy	03000600491	03000600491	03000600491	1
30	Inhalation Tube Sub-Assy	03001000371	03001000371	03001000371	1
31	Discharge Tube Sub-assy	03001300342	03001300342	03001300342	1
32	Chassis Sub-assy	01700000157P	01700000157P	01700000157P	1
33	Drainage Hole Cap	76711012	76711012	76711012	1
34	Drainage Box	20181125	20181125	20181125	1
35	Foam (Water Tray)	12311052	12311052	12311052	1
36	Chassis Clamp	01211307	01211307	01211307	1
37	Power Cord	4002046442	4002046442	4002046442	1
38	Electric Box Assy 2	10000202702	10000202702	10000202702	1
39	Capacitor CBB61	3301074714	3301074714	3301074714	1
40	Sleeving	42032402	4203240201	42032402	1
41	Electric Box 2	01201700099	01201700099	01201700099	1
42	LCD Cover Sub-assy	00018900009	00018900009	00018900009	1
43	Baffle Plate(Display Board)	20001200002	20001200002	20001200002	1
44	Display Board	30562092	30562092	30562092	1
44	LCD Board(Remote Control)	20120036	20120036	20120036	1
45	Membrane	22431132	22431132	22431132	1
			+		
47	Front Panel Assy	2000142602	2000144203	2000173401	1
48	Guide Blade Lever	10581305	10581305	10581305	1
49	Air Louver	10511033	10511033	10511033	12
50	Front Case	20001419	20001419	20001419	1
51	Filter Sub-Assy	11121304	11121304	11121304	1
52	Air Intake Panel	20001418S	20001435S	20001489S	1
53	Remote Controller	30510065	30510065	30510065	1

Above data is subject to change without notice.

	Description	Part Code	
NO.	Description	GJC09AF-E6DRNC2A	Qty
	Product Code	CC055034100	
1	Cabinet Assy	00000600002	1
2	Condenser Assy	01100200516	1
3	Axial Flow Fan	10331365	1
4	Clapboard Sub-Assy	01702100005	1
5	Fan Motor	1501106108	1
6	Motor Support	01204800022	1
7	Top Cover Board Sub-assy	01701100003	1
8	Electric Box Assy 1	10000100727	1
9	Radiator	49010074	1
10	ShieldBox (Electric Box)	01227900001	1
11	Electric Box	20001300002	1
12	Main Board	30132213	1
13	Electric Box Cover	20008200002	1
14	Electric Box Cover Sub-Assy	01705300005	1
15	Wire Clamp	20001400001	1
15	Front Clapboard Sub-Assy	01700200001	1
10	Base Plate Assy	00016300019	1
18	Base Plate	01223400002	1
19	Stepping Motor	1521100802	1
20	Propeller housing Assy	00001200001	1
21	Foam(Propeller Housing)	12311051	1
22	Base of Swing Louver	10521362	1
23	Cross Beam	24241364	1
24	Air Louver	10511127	1
25	Centrifugal Fan	10311016	1
26	Front Clapboard of Propeller Housing	01711900001	1
27	Evaporator Assy	01100100278	1
28	Compressor and Fittings	00101411	1
29	Capillary Sub-Assy	03000600491	1
30	Inhalation Tube Sub-Assy	03001000371	1
31	Discharge Tube Sub-assy	03001300342	1
32	Chassis Sub-assy	01700000157P	1
33	Drainage Hole Cap	76711012	1
34	Drainage Box	20181125	1
35	Foam (Water Tray)	12311052	1
36	Chassis Clamp	01211307	1
37	Power Cord	4002046442	1
38	Electric Box Assy 2	1000202702	1
39	Capacitor CBB61	3301074714	1
40	Sleeving	42032402	1
	Electric Box 2	01201700099	
41			1
42	LCD Cover Sub-assy	00018900009	1
43	Baffle Plate(Display Board)	20001200002	1
44	Display Board	30562092	1
45	LCD Board(Remote Control)	20120036	1
46	Membrane	22431132	1
47	Front Panel Assy	2000143902	1
48	Guide Blade Lever	10581305	1
49	Air Louver	10511033	12
50	Front Case	20001419	1
51	Filter Sub-Assy	11121304	1
52	Air Intake Panel	20001436S	1
53	Remote Controller	30510065	1

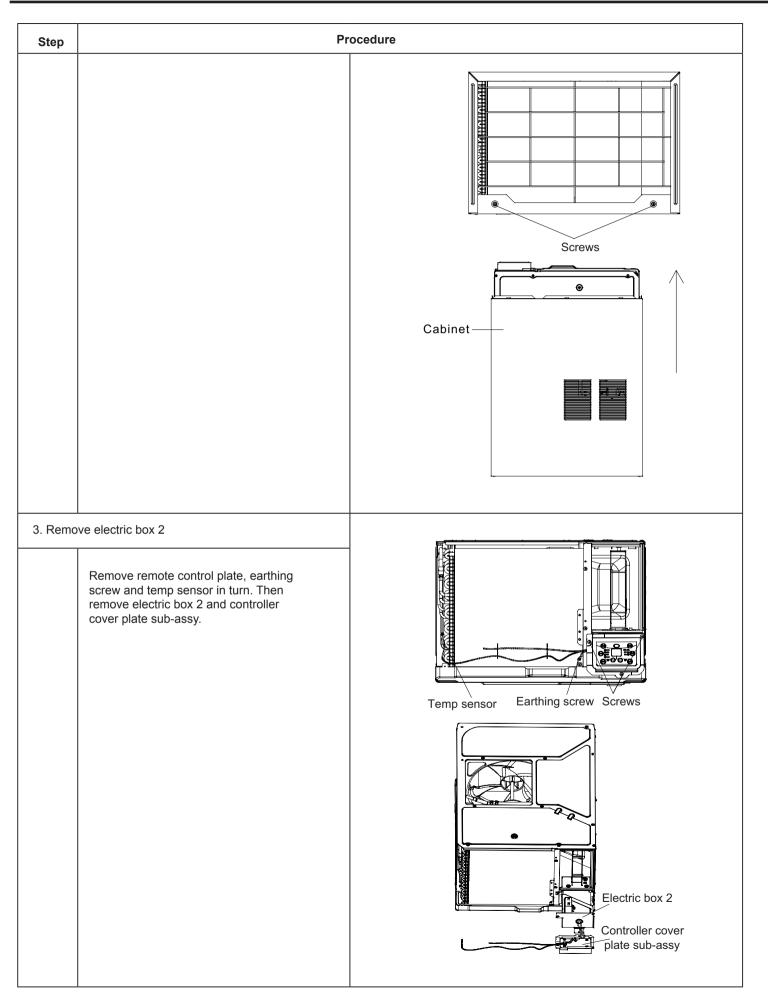
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11.Removal Procedure



Caution: pull out the power,discharge the refrigerant completely before removal.

Step		Procedure
1. Rem	ove panel assy	
	Open the air-inlet panel; remove the filter; remove the screws in the middle, at the left side and right side of the panel; beat the clasp of cabinet slightly and then remove the panel.	Air-inlet panel
		Filter
		Screw
2. Rem	ove cabinet	
	Loosen the clasp fixing chassis;remove the screws fixing the rear part of cabinet and then pull out the unit.	Chassis Clamp



Step		Procedure
4. Rem	ove top cover	Top cover sub-assy
	Remove the screws fixing top cover and then remove the top cover.	
5. Rem	ove electric box 1	
	Twist off screws fixing the electric box, pull out compressor wires and overload wires, remove wires of ambient temperature sensor, external tube temperature sensor and discharge temperature sensor, and then pull the electric upwards to remove it.	Electric box 1 Screws
6. Rem	ove Cross Beam and Air Louver	
		Cross Beam Air Louver

Step		Procedure
7. Remo	Unsolder each connection pipe (Note:discharge the refrigerant completely before unsoldering). Remove the screws fixing evaporator and then remove the evaporator.	The second secon
8. Remo	Unsolder each connection pipe (Note:discharge the refrigerant completely before unsoldering). Remove the screws fixing condenser and then remove the condenser.	Screws Screws
9. Remo	Remove the nuts of axial flow blade; remove the washer and then remove the axial flow blade.	Image: With the second seco

Step		Procedure
10. Rer	nove centrifugal blade	
	Remove the nuts of centrifugal blade and then remove the centrifugal blade.	Centrifugal blade Nut
11. Ren	nove motor	
	Remove the screws of motor support; take out the motor support; remove the screws of motor and then remove the motor.	Screws Motor
12. Rem	ove compressor	
	Unsolder each connection pipe (Note: discharge the refrigerant completely before unsoldering). Remove the foot nuts of Soundproofing Cotton compressor and then remove the compressor.	Welding joints Compressor Foot nuts Soundproofing Cotton

Appendix:

Appendix 1: Reference Sheet of Celsius and Fahrenheit

Conversion formula for Fahrenheit degree and Celsius degree: Tf=Tcx1.8+32

Set temperature

Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius(°C)	Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius (°C)		Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius (°C)
61	60.8	16	69/70	69.8	21]	78/79	78.8	26
62/63	62.6	17	71/72	71.6	22]	80/81	80.6	27
64/65	64.4	18	73/74	73.4	23]	82/83	82.4	28
66/67	66.2	19	75/76	75.2	24]	84/85	84.2	29
68	68	20	77	77	25		86	86	30

Ambient temperature

Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius(°C)	Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius(°C)	Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius(°C)
32/33	32	0	55/56	55.4	13	79/80	78.8	26
34/35	33.8	1	57/58	57.2	14	81	80.6	27
36	35.6	2	59/60	59	15	82/83	82.4	28
37/38	37.4	3	61/62	60.8	16	84/85	84.2	29
39/40	39.2	4	63	62.6	17	86/87	86	30
41/42	41	5	64/65	64.4	18	88/89	87.8	31
43/44	42.8	6	66/67	66.2	19	90	89.6	32
45	44.6	7	68/69	68	20	91/92	91.4	33
46/47	46.4	8	70/71	69.8	21	93/94	93.2	34
48/49	48.2	9	72	71.6	22	95/96	95	35
50/51	50	10	73/74	73.4	23	97/98	96.8	36
52/53	51.8	11	75/76	75.2	24	99	98.6	37
54	53.6	12	77/78	77	25			

Appendix 2: List of Resistance for Ambient Temperature Sensor

Resistance Table of Ambient Temperature Sensor (15K)

Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)
-19	138.1	20	18.75	59	3.848	98	1.071
-18	128.6	21	17.93	60	3.711	99	1.039
-17	121.6	22	17.14	61	3.579	100	1.009
-16	115	23	16.39	62	3.454	101	0.98
-15	108.7	24	15.68	63	3.333	102	0.952
-14	102.9	25	15	64	3.217	103	0.925
-13	97.4	26	14.36	65	3.105	104	0.898
-12	92.22	27	13.74	66	2.998	105	0.873
-11	87.35	28	13.16	67	2.896	106	0.848
-10	82.75	29	12.6	68	2.797	107	0.825
-9	78.43	30	12.07	69	2.702	108	0.802
-8	74.35	31	11.57	70	2.611	109	0.779
-7	70.5	32	11.09	71	2.523	 110	0.758
-6	66.88	33	10.63	72	2.439	111	0.737
-5	63.46	34	10.2	73	2.358	112	0.717
-4	60.23	35	9.779	74	2.28	113	0.697
-3	57.18	36	9.382	75	2.206	114	0.678
-2	54.31	37	9.003	76	2.133	115	0.66
-1	51.59	38	8.642	77	2.064	116	0.642
0	49.02	39	8.297	78	1.997	117	0.625
1	46.6	40	7.967	79	1.933	118	0.608
2	44.31	41	7.653	80	1.871	119	0.592
3	42.14	42	7.352	81	1.811	120	0.577
4	40.09	43	7.065	82	1.754	121	0.561
5	38.15	44	6.791	83	1.699	122	0.547
6	36.32	45	6.529	84	1.645	123	0.532
7	34.58	46	6.278	85	1.594	124	0.519
8	32.94	47	6.038	86	1.544	125	0.505
9	31.38	48	5.809	87	1.497	126	0.492
10	29.9	49	5.589	88	1.451	127	0.48
11	28.51	50	5.379	89	1.408	 128	0.467
12	27.18	51	5.197	90	1.363	 129	0.456
13	25.92	52	4.986	91	1.322	 130	0.444
14	24.73	53	4.802	92	1.282	 131	0.433
15	23.6	54	4.625	93	1.244	 132	0.422
16	22.53	55	4.456	 94	1.207	 133	0.412
17	21.51	56	4.294	95	1.171	 134	0.401
18	20.54	57	4.139	96	1.136	135	0.391
19	19.63	58	3.99	97	1.103	136	0.382

Resistance Table of Ambient Temperature Sensor (20K)

Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)	Temp(°C) Resistance(kΩ)
-19	181.4	20	25.01	59	5.13	98	1.427
-18	171.4	21	23.9	60	4.948	99	1.386
-17	162.1	22	22.85	61	4.773	100	1.346
-16	153.3	23	21.85	62	4.605	101	1.307
-15	145	24	20.9	63	4.443	102	1.269
-14	137.2	25	20	64	4.289	103	1.233
-13	129.9	26	19.14	65	4.14	104	1.198
-12	123	27	18.13	66	3.998	105	1.164
-11	116.5	28	17.55	67	3.861	106	1.131
-10	110.3	29	16.8	68	3.729	107	1.099
-9	104.6	30	16.1	69	3.603	108	1.069
-8	99.13	31	15.43	70	3.481	109	1.039
-7	94	32	14.79	71	3.364	110	1.01
-6	89.17	33	14.18	72	3.252	111	0.983
-5	84.61	34	13.59	73	3.144	112	0.956
-4	80.31	35	13.04	74	3.04	113	0.93
-3	76.24	36	12.51	75	2.94	114	0.904
-2	72.41	37	12	76	2.844	115	0.88
-1	68.79	38	11.52	77	2.752	116	0.856
0	65.37	39	11.06	78	2.663	117	0.833
1	62.13	40	10.62	79	2.577	118	0.811
2	59.08	41	10.2	80	2.495	119	0.77
3	56.19	42	9.803	81	2.415	120	0.769
4	53.46	43	9.42	82	2.339	121	0.746
5	50.87	44	9.054	83	2.265	122	0.729
6	48.42	45	8.705	84	2.194	123	0.71
7	46.11	46	8.37	85	2.125	124	0.692
8	43.92	47	8.051	86	2.059	125	0.674
9	41.84	48	7.745	87	1.996	126	0.658
10	39.87	49	7.453	88	1.934	127	0.64
11	38.01	50	7.173	89	1.875	128	0.623
12	36.24	51	6.905	90	1.818	129	0.607
13	34.57	52	6.648	91	1.736	130	0.592
14	32.98	53	6.403	92	1.71	131	0.577
15	31.47	54	6.167	93	1.658	132	0.563
16	30.04	55	5.942	94	1.609	133	0.549
17	28.68	56	5.726	95	1.561	134	0.535
18	27.39	57	5.519	96	1.515	135	0.521
19	26.17	58	5.32	97	1.47	136	0.509

Resistance Table of Ambient Temperature Sensor (50K)

Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)
-29	853.5	10	98	49	18.34	88	4.75
-28	799.8	11	93.42	50	17.65	89	4.61
-27	750	12	89.07	51	16.99	90	4.47
-26	703.8	13	84.95	52	16.36	91	4.33
-25	660.8	14	81.05	53	15.75	92	4.20
-24	620.8	15	77.35	54	15.17	93	4.08
-23	580.6	16	73.83	55	14.62	94	3.96
-22	548.9	17	70.5	56	14.09	95	3.84
-21	516.6	18	67.34	57	13.58	96	3.73
-20	486.5	19	64.33	58	13.09	97	3.62
-19	458.3	20	61.48	59	12.62	98	3.51
-18	432	21	58.77	60	12.17	99	3.41
-17	407.4	22	56.19	61	11.74	100	3.32
-16	384.5	23	53.74	62	11.32	101	3.22
-15	362.9	24	51.41	63	10.93	102	3.13
-14	342.8	25	49.19	64	10.54	103	3.04
-13	323.9	26	47.08	65	10.18	104	2.96
-12	306.2	27	45.07	66	9.83	105	2.87
-11	289.6	28	43.16	67	9.49	106	2.79
-10	274	29	41.34	68	9.17	107	2.72
-9	259.3	30	39.61	69	8.85	108	2.64
-8	245.6	31	37.96	70	8.56	109	2.57
-7	232.6	32	36.38	71	8.27	110	2.50
-6	220.5	33	34.88	72	7.99	111	2.43
-5	209	34	33.45	73	7.73	112	2.37
-4	198.3	35	32.09	74	7.47	113	2.30
-3	199.1	36	30.79	75	7.22	114	2.24
-2	178.5	37	29.54	76	7.00	115	2.18
-1	169.5	38	28.36	77	6.76	116	2.12
0	161	39	27.23	78	6.54	117	2.07
1	153	40	26.15	79	6.33	118	2.02
2	145.4	41	25.11	80	6.13	119	1.96
3	138.3	42	24.13	81	5.93	120	1.91
4	131.5	43	23.19	82	5.75	121	1.86
5	125.1	44	22.29	83	5.57	122	1.82
6	119.1	45	21.43	84	5.39	123	1.77
7	113.4	46	20.6	85	5.22	124	1.73
8	108	47	19.81	86	5.06	125	1.68
9	102.8	48	19.06	87	4.90	126	1.64

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