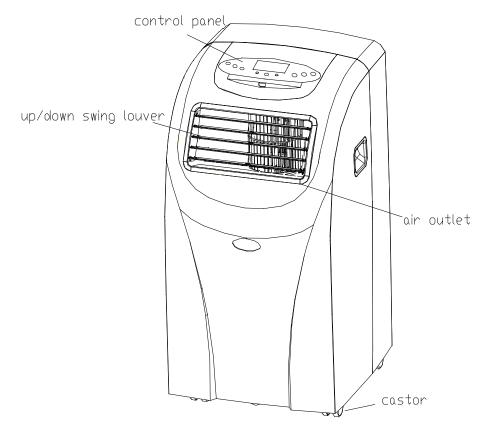
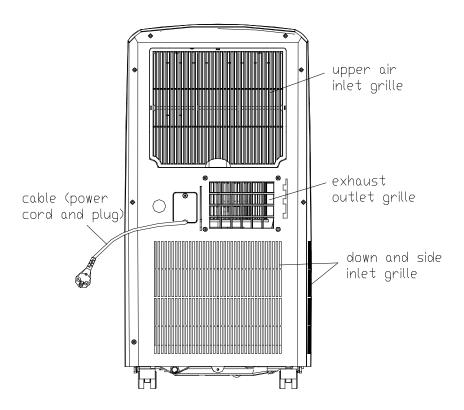
### Portable Air-conditioner Service Manual

For Model: RM-F52CN-E

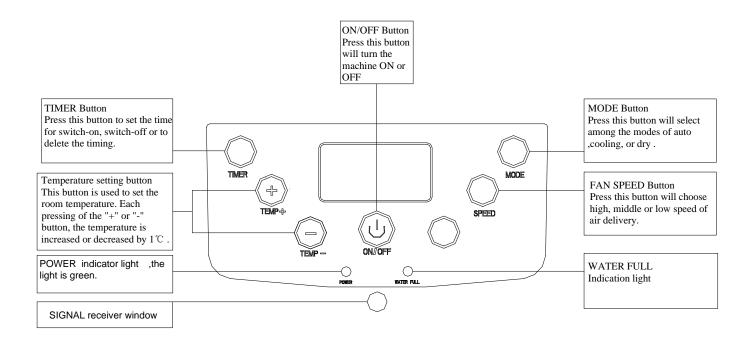
Please read this user's manual carefully to ensure proper use, maintenance and installation

# THE NAME OF EACH PART AND ITS FUNCTION FRONT

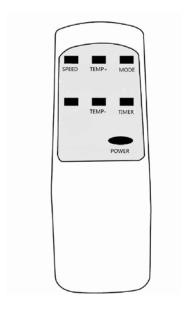




### THE NAME OF EACH PART AND ITS FUNCTION



### **Appearance and Function of Remote Controller**



1. POWER

2. MODE

3. TIMER

4. SPEED

5. TEMP+

6. TEMP-

On/Off switch

**MODE** selector

**Hourly programming** 

Fan speed selector

Temperature selector up

Temperature selector down

### **USE OF CONTROL PANEL**

### **POWER SOURCE**

The AC socket must be firm and reliable.

Don't connect the portable air-conditioner to a multiply socket outlet which is also being used for other electrical appliances.

Inset the AC power plug securely into the AC socket using the unit, when it beeps after two seconds, press "POWER" button, the unit begins to run.

### **AUTO MODE**

- According to the current room temperature ,automatically select the mode: cooling, dehumidifying or fan (see table 1).

### Table 1

-	14010 1			
Rooom	Temperature	Tr<23 °C	23°C≤Tr <26°C	Tr ≥26°C
(Tr)				

Mode	Fan	Dehumidify	Cooling
Set Temperature	/	23℃	25℃

### **COOLING OPERATION**

- Repeatedly press "MODE" button to choose the cooling mode, LED window will show " ".
  During the cooling operation, always place the duct through an open window to exhaust warm air from the room.
- 2. Repeatedly press "TEMP+" or "TEMP-" button to set a proper room TEMP. at 16<sup>o</sup>C-31<sup>o</sup>C.
- 3. Press "SPEED" button to choose a proper fan speed, high, middle, low speed.

#### NOTE:

In order to improve the cooling efficiency, be careful that:

- a) If your room is directly exposed to the sun, draw the curtains please.
- b) Do no place near other heat source.

#### **DEHUMIDIFYING OPERATION**

- 1. Keep the windows and the doors closed to aid in effectively dehumidifying the room.
- 2. Repeatedly press the "MODE" button to choose the dehumidifying mode, LED window will show " $^{^{^{\circ}}}$ ", the fan speed cannot be adjusted.
- 3. When used as dehumidifier only, do not use the air exhaust dust.

### TIME SET FUNCTION

To set time to start the machine with the unit off (but power supplied), press "TIMER" button, the LED window will show "[]", press the "TIME" button, set the time to start as you like. The setting range is 1-24 hours.

If have set switch on/off after 24 hours, press this key again there could cancel the timing.

#### FAN SPEED FUNCTION

Press the "SPEED" button, you can choose high, middle or low-speed of air delivery.

### **DRAINGE**

#### **Internal Tank Water Full Alarm Function**

The inner water tank in the air-conditioner has one water level safety switches, it controls water level. When water level reaches an anticipated height, the water full indicator lamp lights up. (If water pump is damaged, when the water is full, please remove the rubber blockage at the bottom of unit, and all water will drain outside.)

### **CONTINUOUS DRAINGE**

- When you plan to leave this unit unused for a long time, please remove the rubber blockage from the drainage hole at the bottom of unit, and connect a drain hose to the lower fixing clip. All the water in the water tank will drain outside.
- If water pump is damaged, continuous drainage can be used, and under this condition, the water pump is not activated. The unit can also work well.
- If water pump is damaged, intermittent drainage can also be used. Under

this condition, when the water full indicator lamp lights up, please connect a drain hose to the lower fixing clip, then all the water in the water tank will drain outside. The unit can also work well.

### MAINTENANCE/SERVICE

### MAINTENANCE METHODS

Pull the plug out of the socket before cleaning.

Make sure there is no power to the unit before beginning to maintain or repair, prevent accident caused by elec. Shock.

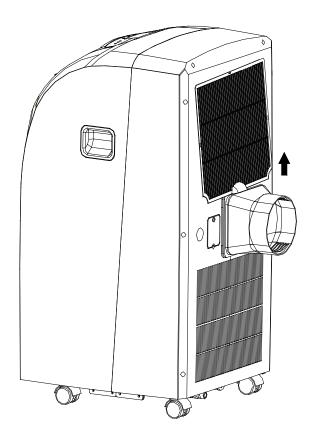
Do not use chemical solvent (like benzene, alcohol glazer) to clean the surface of the unit. If you do so, the surface will be scratched, damaged, even the whole casing could become deformed.

### **AIR FILTER**

If the air filter is blocked with a lot of dust, the air flow volume will reduce. Clean the filter once every two weeks.

### Open the air filter

- 1. Open the air filter cover downwards, then take off the air filter.
- 2. Take the air filter and active carbon filter out of filter cover.



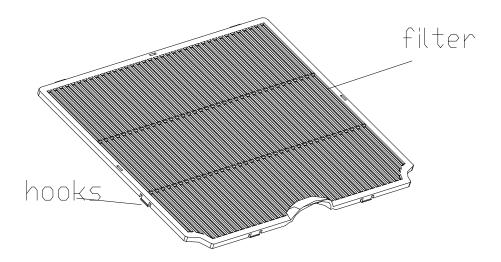
#### Clean

1. Wash the air filter by immersing it gently into warm (about 40°C or 104°F) water with a neutral detergent, rinse the filter of detergent and dry it thoroughly in a shaded place.

### Mounting

- 1. Attach the filters to the filter cover with the attachment hooks on the inside surface of the cover.
- 2. Place the hooks at the bottom of the filter cover into the holes in the case, push it back into its original position.

### MAINTENANCE/SERVICE



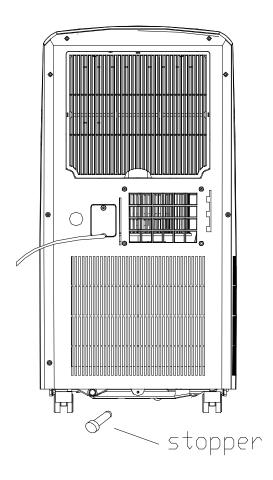
### KEEP SURFACE CLEAN

Clean the surface of the unit with a damp cloth, then dry using a duster or similar.

### RESERVATION METHODS

### END OF SEASON OPERATIONS

- 1. To remove the stopper of continuous water drainage. Then operate the unit in fan mode for half a day until the pipe dry.
- 2. Switch off the unit and disconnect the plug from the power supply.
- 3. Tie the cable with the string.
- 4. Wrap the machine with the plastic bag, and keep it in the dry.



### **SAFETYCAUTIONS**

Do not use the unit in a very narrow room with obstacle so as to avoid breakdown.

Do not use the unit where the sunlight is shining directly onto it so as to avoid surface color changing

Do not use the unit in water not near water, avoiding leakage of electricity.

Do not use the unit in water or near water, avoiding leakage of electricity.

Do not use near gas appliances, fires or in the vicinity of flammable liquids.

### **POWER SORCES**

Do not use a damaged or improper A/C socket.

When unplugging the unit, hold the power plug securely and pull it out carefully.

### **OTHERS**

Keep the unit one meters away form TV sets or radios to avoid the risk of electromagnetic interference.

Do not use wit the air outlet close to walls or cover the outlet to avoid overheating.

### **SERIOUS CAUTION**

Do not toggle over or incline, if the unit does toggle please unplug at once and seek advice from your reseller.

Do not spray with insecticide or other chemicals as the plastic case may be deformed.

### FEATURES OF HEATING OPERATION MODE

When the air conditioner heats the room air, the compressor does not work, PTC electric tube works.

### **TROUBLESHOOTING**

Before seeking repair or service, please firstly check the following.

Trouble	Check	Action			
Air conditioner does not	Is there power?	It is normal			
operate at all	Is it plugged in?	Push the plug into the wall socket.			
	Did the fuse or circuit breaker break off?	Change the fuse.			
	If SET TIME suitable?	Change SET TIME.			
Cooling efficiency is not	Is air inlet or outlet locking?	Clear the locking			
good	Is there any other heat source in room?	Move the heat source			
	Are air filters very dirty?	Clean the air filter			
	Is SET TEMP. suitable?	Set temperature suitable			
	Is indoor fan speed set at low?	Set suitable fan speed.			
Too noise and vibration	It is the inner liquid (refrigerant-gyration)	It is normal			
	Flowing inside.	Place it in a horizontal floor			
	Is unit leveled?				
The machine start and stop	It the voltage of the power source normal?	Keep the power source in rated			
frequently	Is the air exhaust fixed rightly or be	Try to keep the air exhaust			
	bended?	horizontal not permit enlarge			
	Are you adding air exhaust yourself?	Don't add air exhaust yourself and			

### **CAUTION**

In case of major malfunction as below, pull plug out immediately and call for service.

The fuse and switch often break.

The power cord is superheat or the sleeve of the cord broken.

Something abnormal.

### Self-diagnosis function

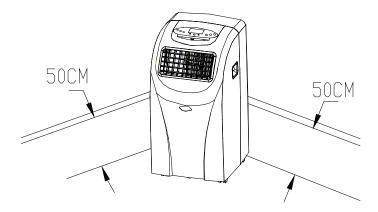
Our company provides the end-users with thoughtful services by installing various Diagnostic system to indicate the following irregular performances.

CHECK CODE	DIAGNOSIS OF MALFUNCTION		
FAULT <b>E0</b>	Open circuit or short circuit in room temperature sensor.		
FAULT E2	Indicates waterfull		

### **INSTALLTION**

Selection of installation location

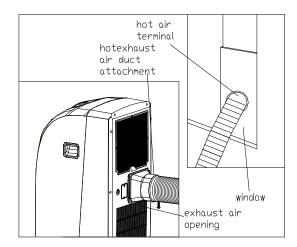
Put the portable air condition in a flat location where the air outlets cannot Be covered up, place the unit no less than 50cm(20 inch) away from a wall or Other obstacle.



The air exhaust duct mounting method

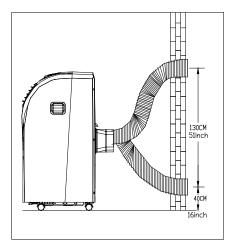
- 1) Fix the square end of the exhaust dust to the exhaust terminal of the unit
- 2) Put the other end (discharge) to the nearest window Attention: The length Of the air exhaust between 500mm-1500mm, use the Min Length when working, we suggested

When mounting, try to keep the air exhaust horizontal not permit enlarge or Connect the other discharge or will cause malfunction.

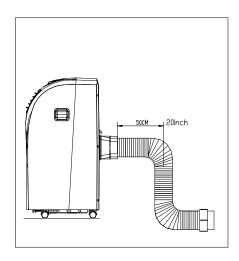


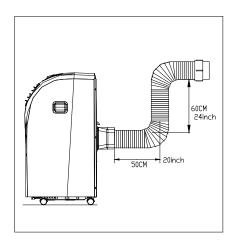
### **INSTALLATION**

Correct mounting shown below (if mounting in the wall, the height of the hole Should be 40cm-130cm(16inch-51inch)



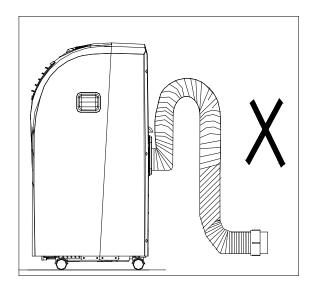
If the air exhaust requires bending, see below.





### **INSTALLATION**

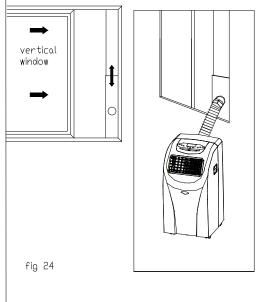
Incorrect hose mounting (air exhaust bend too large, easily cause malfunction.)



### Window Kit Installation

Your window kit has been designed to fit most standard "vertical" and "horizontal" window application. However, it may be necessary for you to improvise/modify some aspects of the installation procedures for certain types of windows. Please refer to below figs for minimum and maximum window openings.

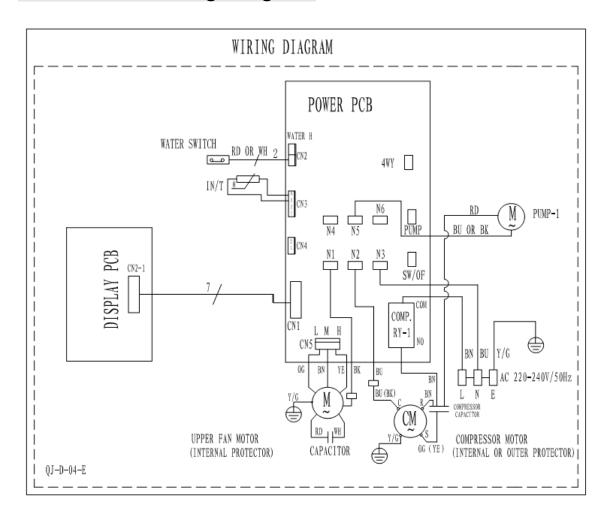




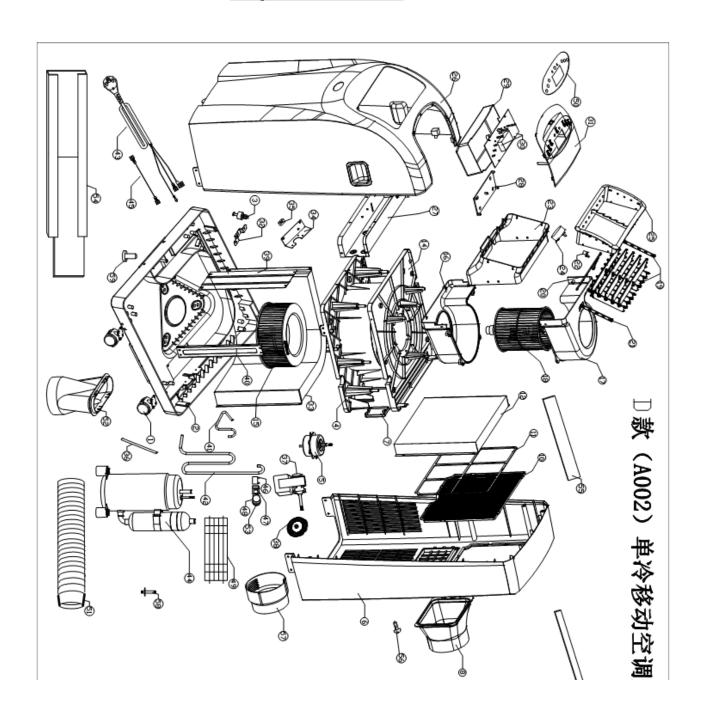
### **INSTALLATION**

Installation Accessories
Description
Installation accessories
Flexible exhaust hose1/set
Flexible exhaust hose connector1/set
Cycle exhaust adapter1/set

## Wiring Diagram



# **Explosive View**



_					·		
15	Confensor Contrifu	<b>e</b> 0	Controller	45	Vire	60	
14	Cover of Container	29	Cover of Electrical Control Box	44	Compressor	59	Nut of Drainage
13	Sponge	28	Control Board Seso	43	Eletrical Wire	58	Compressor Bolt
12	Evaporator	27	Control Box	42	Low-Pressure Duct	57	Exhausting Fan Outlet
11	Bust Proof Nesh	26	Front Panel	41	High pressure Duct	56	Tube Clip
10	Dust Proof Lattice	25	Venting Frame	40	Bracket	55	Foem
9	Front Punel Assy.	24	Synchronous Motor	39	Protection Plate Under Machine Body	54	Mounting Board
8	Exhausting Fun Outlet	23	Venting Frame	38	Pump Wheel	53	Capacitor Setscrew
7	Here Cover of Power Line	22	Crank Draft	37	Water Pump	52	Flat Fixing Clin(X)
6	Back Panel	21	Yentical Comecting Pole	36	Water Hose	51	Exhausting Hose
5	Fan Motor	20	Right Connecting Pole	35	Shock-Proof Robber	50	Exhausting France
4	Exhausting Pan Noter Valvo	19	Quido Louver Anny.	34	Pump Bracket	49	Venting From
3	Floating Form	18	Evaporator	33	Condensor	48	Compressor Motor Commentar
2	Under Pan	17	Supplying Pan Noter Valvo(E)	32	Floating Form Bracket	47	Transformer
1	Caster	16	Supplying Fen. Noter Valvo(1)	31	PVC Decorative Film	46	Fan Noter Capaciter