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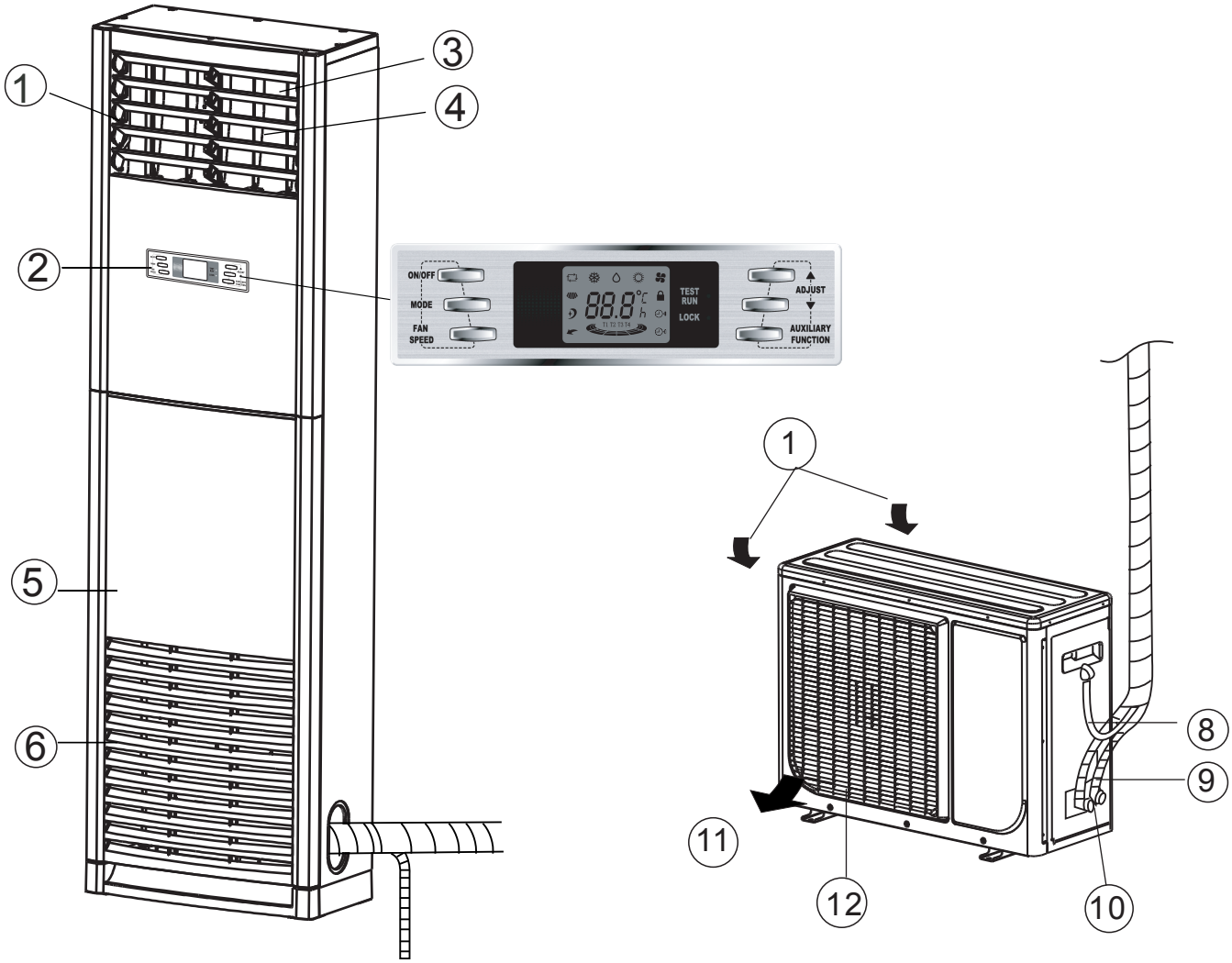
MIDEA MFGA-55FN1RD0 OWNER'S MANUAL

OWNER'S MANUAL

Floor-Standing Split Type

MFGA-55FN1RD0
MOU-55FN1-RD0

Thank you very much for purchasing our air conditioner,
Before using your air conditioner , please read this manual carefully and keep it for future reference.



Product Overview

Indoor unit	
1	Air outlet
2	Operation panel
3	Horizontal airflow control louver
4	Vertical airflow control louver
5	Front panel (upper and lower)
6	Air inlet
7	Drain pipe

Outdoor unit	
8	Connection cable
9	Connection pipe
10	Cut-off valve
11	Air outlet
12	Fan hood

NOTE

All the pictures in this manual are for explanation purpose only.
They may be slightly different from the air conditioner you purchased(depend on model). The actual shape shall prevail.

This manual does not include Remote Controller Operations, see the <<Remote Controller Instruction>> packed with the unit for details.

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CAUTION

Contact an authorised service technician for repair or maintenance of this unit.

Contact the installer for installation of this unit.

If the power cord is to be replaced, replacement work shall be performed by authorised personnel only.

Installation work must be performed in accordance with the national wiring standards by authorised personnel only.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance.Cleaning and user maintenance shall not be made by children without supervision.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

Do not operate your air conditioner in a wet room such as a bathroom or laundry room.

1. SOCIABLE REMARK

The follow contents apply only the countries of Europe.

DISPOSAL: Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.

It is prohibited to dispose of this appliance in domestic household waste.For disposal, there are several possibilities:

A) The municipality has established collection systems, where electronic waste can be disposed of at least free of charge to the user.

B) When buying a new product, the retailer will take back the old product at least free of charge.

C) The manufacture will take back the old appliance for disposal at least free of charge to the user.

D) As old products contain valuable resources, they can be sold to scrap metal dealers.

Wild disposal of waste in forests and landscapes endangers your health when hazardous substances leak into the ground-water and find their way into the food chain.

2. SAFETY PRECAUTIONS

To prevent injury to the user or other people and property damage, the following instructions must be followed. Incorrect operation due to ignoring of instructions may cause harm or damage. The seriousness is classified by the following indications.

WARNING

This symbol indicates the possibility of death or serious injury.

CAUTION

This symbol indicates the possibility of injury or damage to property.

Meanings of symbols used in this manual are as shown below.

⊘	**Never do this.**
!	**Always do this.**

WARNING

Connect with the power properly.

Otherwise, it may cause electric shock or fire due to excess heat generation.

Do not operate or stop the unit by switching on or off the power.

It may cause electric shock or fire due to heat generation.

Do not damage or use an unspecified power cord.

It may cause electric shock or fire.

Do not modify power cord length or share the outlet with other appliances.

It may cause electric shock or fire due to heat generation.

Do not operate with wet hands or in damp environment.

It may cause electric shock.

Do not direct airflow at room occupants only.

This could damage your health.

Always ensure effective earthing.

No earthing may cause electric shock.

Do not allow water to run into electric parts.

It may cause failure of machine or electric shock.

Always install circuit breaker and a dedicated power circuit.

No installation may cause fire and electric shock.

Disconnect the power if strange sounds, smell, or smoke comes from it.

It may cause fire and electric shock.

Do not drink water drained from air conditioner.

It contains contaminants and could make you sick.

Do not open the unit during operation.

It may cause electric shock.

Use the correctly rated breaker or fuse.

There is risk of fire or electric shock.

Do not use the power cord close to heating appliances.

It may cause fire and electric shock.

Do not use the power cord near flammable gas or combustibles, such as gasoline, benzene, thinner, etc.

It may cause an explosion or fire.

Ventilate room before operating air conditioner if there is a gas leakage from another appliance.

It may cause explosion, fire and, burns.

Do not disassemble or modify unit.

It may cause failure and electric shock.

CAUTION

When the air filter is to be removed, do not touch the metal parts of the unit.

It may cause an injury.

Do not clean the air conditioner with water.

Water may enter the unit and degrade the insulation. It may cause an electric shock.

Ventilate the room well when used together with a stove, etc.

An oxygen shortage may occur.

When the unit is to be cleaned, switch off, and turn off the circuit breaker.

Do not clean unit when power is on as it may cause fire and electric shock, it may cause an injury.

Do not put a pet or house plant where it will be exposed to direct air flow.

This could injure the pet or plant.

Do not use for special purposes.

Do not use this air conditioner to preserve precision devices, food, pets,plants, and art objects.It may cause deterioration of quality, etc.

Stop operation and close the window in storm or hurricane.

Operation with windows opened may cause wetting of indoor and soaking of household furniture.

Do not place obstacles around air-inlets or inside of air-outlet.

It may cause failure of appliance or accident.

Turn off the main power switch when notusing the unit for a long time.

It may cause failure of product or fire.

Do not use strong detergent such as wax or thinner. Use a soft cloth for cleaning.

Appearance may be deteriorated due to change of product color or scratching of its surface.

Ensure that the installation bracket of the outdoor appliance is not damaged due to prolonged exposure.

If bracket is damaged, there is concern of damage due to falling of unit.

Always insert the filters securely. Clean filter once every two weeks.

Operation without filters may cause failure.

Do not place heavy object on the power cord and take care so that the cord is not compressed.

There is danger of fire or electric shock.

Use caution when unpacking and installing. Sharp edges could cause injury.

If water enters the unit, turn the unit off and disconnect the power , contact a qualified service technician.

PRIORTO OPERATION

1. Contact an installation specialist for installation.
2. Make sure the unit is grounded efficiently.
3. Do not use a damaged or non-standard power cord.
4. Do not share the same outlet with other appliances.
5. Do not use an extension cord.
6. Do not start/stop operation by shutting off the power supply.

USAGE

1. Exposure to direct airflow for an extended period of time could be hazardous to your health.Do not expose occupants, pets, or plants to direct airflow for extended periods of time.

2. Due to the possibility of oxygen deficiency, ventilate the room when used together with stoves or other heating devices.

3. Do not use this air conditioner for non-specified special purposes (e.g.Preserving precision devices, food, pets, plants, and art objects). Usage in such a manner could harm such property.

CLEANING AND MAINTENANCE

1. Do not touch the metal parts of the unit when removing the filter. Injuries can occur when handling sharp metal edges.

2. Do not use water to clean inside the air conditioner. Exposure to water can destroy the insulation,leading to possible electric shock.

3. When cleaning the unit, first make sure that the power and circuit breaker are turned off.

SERVICE

For repair and maintenance, contact your authorised service dealer.

OPERATING TEMP ERATURE

■ **Table 2-1**

Mode \ Temperature	Outdoor temperature	Room temperature
Cooling operation	18°C ~ 43°C / 64 °F~109°F	17°C ~ 32°C (62 °F ~ 90°F)
	-7°C ~ 43°C / 19 °F~109°F (for the models with low temperature cooling system)	
	18°C ~ 54°C / 64 °F~129°F (for special tropical models)	
Heating operation (cooling only type without)	-7°C ~ 24°C / 19 °F ~ 75°F	0°C ~ 30°C / 32 °F~86°F
Drying operation	18°C ~ 43°C / 64 °F~109°F	17°C ~ 32°C (62 °F ~ 90°F)
	18°C ~ 54°C / 64 °F~129°F (for special tropical models)	

■ **Table 2-2(for invert type air conditioner)**

Mode \ Temperature	Outdoor temperature	Room temperature
Cooling operation	0°C ~ 50°C / 32 °F~122°F	17°C ~ 32°C (62 °F ~ 90°F)
	-15°C ~ 50°C / 5 °F~122°F (for the models with low temperature cooling system)	
Heating operation (cooling only type without)	-15°C ~ 24°C / 5 °F~75°F	0°C ~ 30°C / 32 °F~86°F
Drying operation	0°C ~ 50°C / 32 °F~122°F	17°C ~ 32°C (62 °F ~ 90°F)

CAUTION

1. If air conditioner is used outside of the above conditions, certain safety protection features may come into operation and cause the unit to function abnormally.

2. Room relative humidity less than 80%. If the air conditioner operates in excess of this figure, the surface of the air conditioner may attract condensation. Please sets the vertical air flow louver to its maximum angle (vertically to the floor), and set HIGH fan mode.

3. Optimum performance will be achieved within these operating temperature.

3. OPERATING INSTRUCTIONS

3.1 UNIT CONTROL PANEL

Fig.3-1

Indicators

■ **Table 3-1**

	Auto operation display
	Cooling operation display
	Dry operation display
	Heating operation display
	Fan operation display
	Swing operation display
	Sleep operation display
	Turbo operation display
	On timer operation display
	Off timer operation display
	Lock operation display
	Fan speed display

Operation buttons

❶ **ON/OFFbutton:** Operation starts when this button is pressed and stops when you press the button again.

❷ **MODEbutton:** Press this button to select the appropriate operating mode. Each time the button is pressed, the operation mode is shifted in the direction of the arrow:

→AUTO→COOL→DRY→HEAT(for cooling & heating models only)→FAN ONLY

Mode indicators illuminates under the different mode settings.

Auto: Automatically choose the operation mode by sensing the difference between the actual ambient room temperature and the set temperature on the remote controller. The fan speed is automatically controlled.

Cool: Enables you to enjoy the cooling effect at you preferred setting temperature.
(Temperature range:17℃~30℃)

Dry: Enables you to set the desired temperature at low fan speed which provides you with the dehumidifying surroundings (Temperature range:17OC~30OC). In Dry mode, you can not select Fan speed.

Heat: Permits heating operation(For cooling & heating models only)
(Temperature setting range:17℃~30℃)

Fan only: Permits fan operation without cooling or heating. In this case, however, the setting temperature is not displayed and you can not adjust the set temperature.

❸ **FAN SPEED button:** This button is used to select the desired fan speed. Each time you push the button, a fan speed is shifted in the direction of the arrow:

→ LOW → HIGH → AUTO

NOTE

ou can not select a fan speed under AUTO and DRY mode. The fan motor operates at pre-set AUTO speed under AUTO mode and at LOW speed under DRY mode.

Fan speed displaying: The display is separated into 3 zones. When setting the speed, the corresponding zone will illuminate.

Select LOW fan speed and the first zone will illuminate;
Select AUTO fan speed and zones 1~2 will illuminate;
Select HIGH fan speed and zones 1~3 will illuminate.
Once selected, after 2 seconds the zones will illuminate gradually based on the speed selected.
For example, HIGH fan speed will show the display illuminating quickly from zone to zone.

❹ **ADJUST button:**

1 Temperature adjust: Press the "▲"and"▼" to adjust the temperature in a range of 17℃~30℃.

2 Timer adjust: Adjust the timer on/off time under the Timer setting mode(0~24hs).

3 Auxiliary function selection: Select the desired auxiliary function by pressing "▲"and"▼" button.

4 Under the Test Running mode, press "▲"and"▼"to check information about T1, T2, T3, P4 , P5 and P9 (if no protection function occurs, the code is shifted).

5 Under malfunction condition: Press the "▲"and"▼" to check the malfunction code E1,E2, E3 ,E6 and E9(details refer to TROUBLESHOOT in page 12).

❺ **AUXILIARY FUNCTION button:** Use this button to select or cancel the auxiliary feature.Press this button, then press the ADJUST"▲"and"▼"button to select the desired feature. Each time the button is pressed, the mode is shifted in the direction of the arrow:
When press the "▲" button:

When press the "▼" button:

Once the desired feature is established, press the AUXILIARTY FUNCTION button again to register .

NOTE

The above illustration is for explanation purpose only.
The features are different depending on models.

Relative indicator lights up under the different mode settings:

Left/Right airflow: Enables you to set the desired horizontal airflow direction.

Sleep operation: Choose this feature to go into the energy-saving operation. It is only available on Cool, Heat or Auto mode. Under Sleep mode, the air conditioner will automatically increase(cooling) or decrease(heating) 1℃ per hour. The set temperature will be stable 2 hours later. The fan speed is forced AUTO.

Turbo operation: When select this function in heating mode, the auxiliary electric heater(PTC)is activated and brings faster and stronger heating.

NOTE

This function is only available for the units adopted PTC

TIMER ON operation: Use the ON timer to turn on the air conditioner at the desired time (between 0~24hrs). After selecting the Timer ON feature, press the"▲"and"▼"button to select the desired time, each press will increase/decrease the Auto-timed setting in 30 minute increments. Once the desired time is established, press the AUXILIARY FUNCTION button to register the Auto Timer-ON program.

TIMER OFF operation: Use the OFF timer to turn off the air conditioner at the desired time (between 0~24hrs). After selecting the Timer OFF feature, press the"▲"and"▼"button to select the desired time, each press will increase/decrease the Auto-timed setting in 30 minute increments. Once the desired time is established, press the AUXILIARY FUNCTION button to register the Auto Timer-OFF program.

NOTE

To cancel the timer settings, press the AUXILIARY FUNCTION button, then use the"▲"and"▼"buttons to select ON/OFF timer, press the AUXILIARY FUNCTION button again to cancel.

❻ **TEST RUNNING button:** This button is specially designed for maintenance technicians. Press this button to perform test running operation, press it again to stop the operation. The test running operation will last 30 minutes regardless of the setting temperature. Press the ADJUST button to check the protective code of T1,T2 and T3.

❼ **LOCK button:** When you press the LOCK button the first time, all the current settings are locked in but the remote controller operation is available. And the LOCK indicator (🔒) illuminates. Push it again to cancel the LOCK mode.

3.2 AIRFLOW DIRECTION CONTROL

Horizontal Airflow Direction(AUTO)

The Left/Right(Horizontal Airflow) can be adjusted by using the remote control or unit control. Press the"AUXILIARY FUNCTION" button on the unit control panel, then press the ADJUST"▲"and"▼"button to select the " ⫼ "feature and the ouvers will swing left and right. Repeat the above procedures to stop the swing operation.

NOTE

Never touch the vertical louvers by hand.

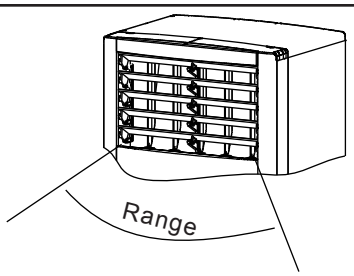

Fig.3-2

Vertical Airflow Direction(MANUAL)

The Up/Down(Verticall Airflow) air flow can be adjusted by horizontal louvers. Hold the edge of the horizontal louver and move it up or down to set the desired air flow direction.

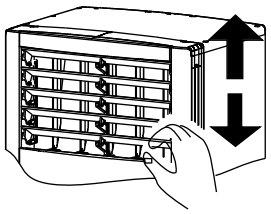

Fig.3-3

NOTE

- **The starting angle of the horizontal louver should not be too small, otherwise the narrow air outlet will affect cooling or heating efficiency.**
- **Do not set the starting angle of the louvers too small during cooling or drying operation.Otherwise, condensation may occur on the surface of the horizontal louver and cause dew dripping.**
- **During the operation, if the louvers can not swing normally, shut off the unit and unplug for several minutes, then plug it again and restart the operation.**
- **The horizontal louver may slightly vibrate during the operation. This is normal.**

3.3 OPERATION TIPS

The following events may occur during normal operation.

1. Protection of the air conditioner.

Compressor protection

- The compressor can't restart for 3 minutes after it stops.

Anti-cold air (Cooling and heating models only)

- The unit is designed not to blow cold air on HEAT mode, when the indoor heat exchanger is in one of the following three situations and the set temperature has not been reached.
  - A) When heating has just starting.
  - B) Defrosting.
  - C) Low temperature heating.
- The indoor or outdoor fan stop running when defrosting (Cooling and heating models only).

Defrosting (Cooling and heating models only)

- Frost may be generated on the outdoor unit during heat cycle when outdoor temperature is low and humidity is high resulting in lower heating efficiency of the air conditioner.
- During this condition air conditioner will stop heating operation and start defrosting automatically.
- The time to defrost may vary from 4 to 10 minutes according to the outdoor temperature and the amount of frost buildup on the outdoor unit.

2. A white mist coming out from the indoor unit

- A white mist may generate due to a large temperature difference between air inlet and air outlet on COOL mode in an indoor environment that has a high relative humidity.
- A white mist may generate due to moisture generated from defrosting process when the air conditioner restarts in HEAT mode operation after defrosting.

3. Low noise of the air conditioner

- You may hear a low hissing sound when the compressor is running or has just stopped running. This sound is the sound of the refrigerant flowing or coming to a stop.
- You can also hear a low "squeak" sound when the compressor is running or has just stopped running. This is caused by heat expansion and cold contraction of the plastic parts in the unit when the temperature is changing.
- A noise may be heard due to louver restoring to its original position when power is first turned on.

4. Dust is blown out from the indoor unit.

   This is a normal condition when the air conditioner has not been used for a long time or during first use of the unit.

5. A peculiar smell comes out from the indoor unit.

   This is caused by the indoor unit giving off smells permeated from building material, from furniture, or smoke.

6. The air conditioner turns to Fan Mode from COOL or HEAT (For cooling and heating models only)Mode.

   When indoor temperature reaches the temperature setting on air conditioner, the compressor will stop automatically, and the air conditioner turns to Health mode. The compressor will start again when the indoor temperature rises on COOL mode or falls on HEAT mode (For cooling and heating models only) to the set point.

7. Dripping water may generate on the surface of the indoor unit when cooling in a high relatively humidity (relative humidity higher than 80%). Adjust the horizontal louver to the maximum air outlet position and select HIGH fan speed.

8. Heating mode (For cooling and heating models only)

   The air conditioner draws in heat from the outdoor unit and releases it via the indoor unit during heating operation. When the outdoor temperature falls, heat drawn in by the air conditioner decreases accordingly. At the same time, heat loading of the air conditioner increases due to larger difference between indoor and outdoor temperature. If a comfortable temperature can't be achieved by the air conditioner, we suggest you use a supplementary heating device.

9. Auto-restart function

   Power failure during operation will stop the unit completely.
   For the unit without Auto-restart feature, when the power restores, the OPERATION indicator on the indoor unit starts flashing. To restart the operation, push the ON/OFF button on the remote controller. For the unit with Auto-restart feature, when the power restores, the unit restarts automatically with all the previous settings preserved by the memory function.

10. Lightning or a car wireless telephone operating nearby may cause the unit to malfunction.Disconnect the unit with power and then re-connect the unit with power again. Push the ON/OFF button on the remote controller to restart operation.

3.4 MAINTENANCE AND CLEANING

CAUTION

Before performing any maintenance, turn off the main power to the system.

Cleaning the indoor unit

NOTE

Turn the system off before cleaning. Supply power must be disconnected before cleaning the indoor unit.

1 Use a dry cloth to wipe the indoor unit and remote controller.
2 A cloth dampened with cold water may be used on the indoor unit if it is very dirty.
3 Do not splash water on unit. This may cause damage to the inner parts or an electric shock.

CAUTION

Do not use a chemical-treated duster for wiping or leave such material on the unit for long.

Do not use benzine, thinner, polishing powder, or similar solvents for cleaning. These may cause the plastic surface to crack or deform.

Cleaning the air outlet

After using for a period, the air outlet and louvers will become dirty. It is recommended to dip a soft cloth into warm water or a mild kitchen cleanser, ring it out, then wipe any soiling from the unit. After, wipe with a dry cloth.

4. CARE AND MAINTENANCE

Cleaning the Lower front panel and Air Filter

If the air filter becomes clogged, the performance will decrease and electricity will be wasted.
The air filter should be checked and cleaned about once every 2 weeks to maintain optimal performance of the air conditioner.

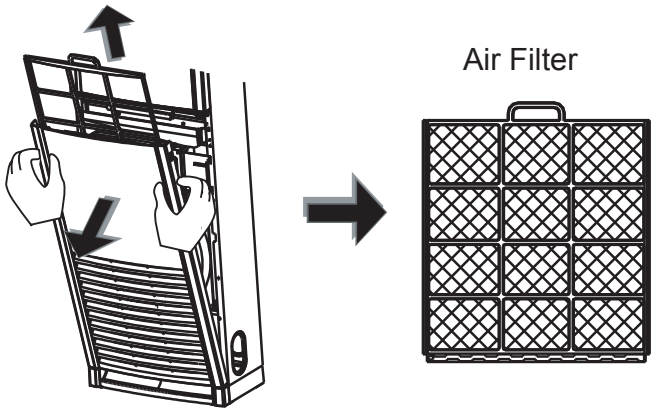

Fig.4-1

1 The air filter is located under the lower front panel (see figure above).

2 First take down the screw cover on both side of the panel, then remove the screws using the screwdriver.

3 Hold both side of the panel and pull it downwards, then take it down.

4 Take hold of the air filter holder and pull it up, and then take it out.

5 The lower front panel can be wiped with water or a cloth dipped water. Wash it with water and dry it in a cool place.

6 Use a vacuum cleaner to remove the dust or wash the air filter with water, and dry it in the shadow.

7 Installation process of the air filter and lower front panel is the reverse of the removal process.

CAUTION

Make sure nothing has been forgotten or fallen into the fan before installing the lower front panel.Restart the unit after the front panel and the air filter are correctly installed.

Before long time idleness

1 Clean the indoor unit and air filter.

2 Dry the inner parts by keeping the fan running for half a day.

3 Turn off the unit and switch off the power switch, remove the batteries from the remote control.

4 Periodically check and clean the inner parts of the outdoor unit. Our local dealer will help you handle this if you contact us.

After long time idleness

Before restarting, please check if the air inlet and air outlet of the indoor and outdoor units are blocked up. Clean it so.

Aftersales

If the air conditioner operate abnormally, turn off the unit and switch off the power supply, and contact the local dealer or service centre.

5. TROUBLESHOOTING TIPS

Before calling for service, please review the following list of common problems and solutions.

Table 5-1

Problem	Possible Cause	Solutions
Air conditioner does not operate at all	Power failure	Wait for power restoring
	The power supply is disconnected.	Switch on the main power switch
	The power fuse is blown.	Change the fuse
	The timer is set.	Wait or cancel timer setting
	The batteries of the remote control are exhausted	Change the batteries.
Air conditioner does not cool or heat well	The temperature setting is too high or too low.	Set a more comfortable temperature.
	The air filter is clogged with dust	Clean the filter
	The air inlet or outlet of the outdoor unit is blocked	Clear up the block
	Doors or windows are open	Close the doors or windows
Air conditioner does not cool or heat at all	The air inlet or outlet of the outdoor unit is blocked	Clear up the block first, then begin to operate.
	Three-minute protection feature	Wait for a while
	Unappropriated temperature setting	Set the temperature properly

If you still cannot solve the problem after trying the above, pull out the power plug and call the dealer.

The following displays indicate an error or problem:dealer.

■ Table 5-2

Number	Display code	Problems	What to do
1	E1	Communication between indoor and outdoor units failure	Contact service people
2	E2 E3 E4	Temperature sensor is off or short-circuit	Contact service people
3	E5 E6	Outdoor unit protection or malfunction	Contact service people
4	P0	The temperature of indoor unit evaporator is too low or too high,and a compressor protection feature is automatically activated.	Turn off the unit, clean the air filter,then restart the unit. If this operation does not work,please contact service people.
5	P9	Anti-cold air function happens/Defrosting starts.	When the temperature is warm enough, the function stops automatically. The unit will auto restart after finishing the defrosting and the temperature of indoor Heat Exchanger raises.

CP dF FC show on the LCD of the indoor unit when the unit is in the normal operation.The three icons imply the three function respectively.

The icon CP implies the remote control function.

The icon dF implies the defrosting function.

The icon FC implies the forced cooling function.

CAUTION

If the supply cord of this appliance is damaged, replacement work shall be performed by authorized personnel only.

For the unit adopts PTC, the PTC heating device is fixed in the middle of bottom plate of the cabinet. Do not attempt to remove or repair these components by yourself, it may cause a fire or other danger.

The design and specifications are subject to change without prior notice for product improvement. Consult with the sales agency or manufacturer for details. Please check the applicable models, F-GAS and manufacturer information from the Owner's Manual - Product Fiche in the packaging of the outdoor unit. (European Union products only)

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