



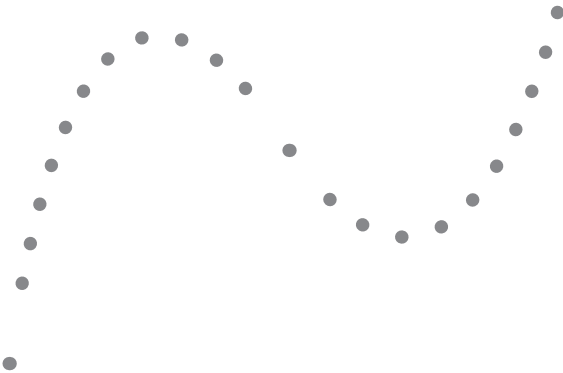
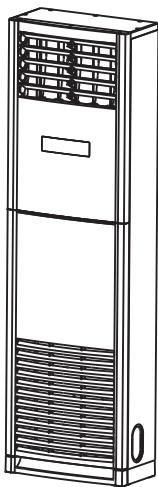
USER'S MANUAL

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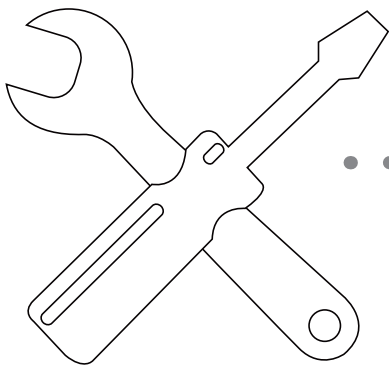
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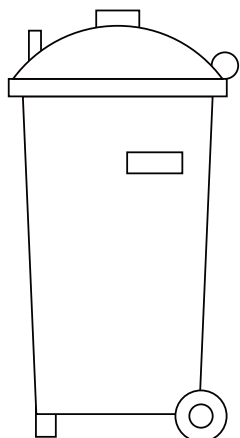
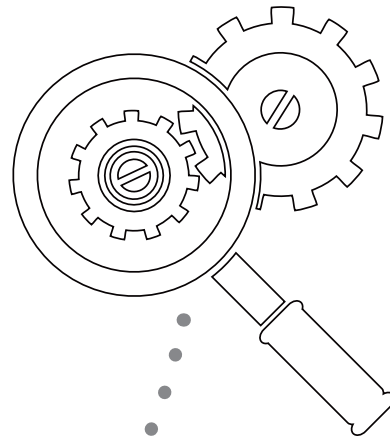


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Safety Precautions

1

Thank you for purchasing this air conditioner. This manual will provide you with information on how to operate, maintain, and troubleshoot your air conditioner. Following the instructions will ensure the proper function and extended lifespan of your unit.

Please pay attention to the following signs:



WARNING

Failure to observe a warning may result in death. The appliance must be installed in accordance with national regulations.



CAUTION

Failure to observe a caution may result in injury or equipment damage.

WARNING

1. Ask an authorized dealer to install this air conditioner. Inappropriate installation may cause water leakage, electric shock, or fire.
2. The warranty will be voided if the unit is not installed by professionals.
3. If abnormal situation arises (like burning smell), turn off the power supply and call your dealer for instructions to avoid electric shock, fire or injury.
4. DO NOT let the indoor unit or the remote control get wet. It may cause electric shock or fire.
5. DO NOT insert fingers, rods or other objects into the air inlet or outlet. This may cause injury, since the fan may be rotating at high speeds.
6. DO NOT use a flammable spray such as hair spray, lacquer or paint near the unit. This may cause fire or combustion.
7. The appliance shall be stored so as to prevent mechanical damage from occurring.
8. Compliance with national gas regulations shall be observed.
9. Keep ventilation openings clear of obstruction.
10. Any person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorises their competence to handle refrigerants safely in accordance with an industry recognised assessment specification.
11. Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.
12. 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(IEC Standard requirements).
13. 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.

14. The appliance shall be installed in accordance with national wiring regulations.
5. An all-pole disconnection device which has at least 3mm clearances in all poles, and have a leakage current that may exceed 10mA, the residual current device (RCD) having a rated residual operating current not exceeding 30mA, and disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.

CLEANING AND MAINTENANCE WARNINGS

1. Turn off the device and pull the plug before cleaning. Failure to do so can cause electrical shock.
2. Do not clean the air conditioner with excessive amounts of water.
3. Do not clean the air conditioner with combustible cleaning agents. Combustible cleaning agents can cause fire or deformation. Turn off the device and pull the plug before cleaning. Failure to do so can cause electrical shock.

ELECTRICAL WARNINGS

1. Only use the specified power cord. If the power cord is damaged, it must be replaced by the manufacturer or certified service agent.
2. Keep power plug clean. Remove any dust or grime that accumulates on or around the plug. Dirty plugs can cause fire or electric shock.
3. Do not pull power cord to unplug unit. Hold the plug firmly and pull it from the outlet. Pulling directly on the cord can damage it, which can lead to fire or electric shock.

4. Do not use an extension cord, manually extend the power cord, or connect other appliances to the same outlet as the air conditioner. Poor electrical connections, poor insulation, and insufficient voltage can cause fire.

CAUTION

1. **DO NOT** touch the air outlet while the swing flap is in motion. Fingers might get caught or the unit may break down.
2. **DO NOT** inspect the unit by yourself. Ask an authorized dealer to perform the inspection.
3. To prevent product deterioration, do not use the air conditioner for preservation purposes (storage of food, plants, animals, works of art, etc.).
4. **DO NOT** touch the evaporator coils inside the indoor unit. The evaporator coils are sharp and may cause injury.
5. **DO NOT** operate the air conditioner with wet hands. It may cause electric shock.
6. **DO NOT** place items that might be affected by moisture damage under the indoor unit. Condensation can occur at a relative humidity of 80%.
7. **DO NOT** expose heat-producing appliances to cold air or place them under the indoor unit. This may cause incomplete combustion or deformation of the unit due to the heat.
8. After long periods of usage, check the indoor unit to see if anything is damaged. If the indoor unit is damaged, it may fall and cause injury.
9. If the air conditioner is used together with other heating devices, thoroughly ventilate the room to avoid oxygen deficiency.
10. **DO NOT** climb onto or place objects on top of the outdoor unit.

**CAUTION**

11. **DO NOT** operate the air conditioner when using fumigant insecticides. The chemicals may become layered with the unit and endanger those who are hypersensitive to chemicals.
12. **DO NOT** let children play with the air conditioner.
13. **DO NOT** operate the air conditioner in a wet room (e.g. bathroom or laundry room). This can cause electrical shock and cause the product to deteriorate.
14. 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 (EN Standard requirements).

Indoor Unit Parts And Major Functions

2

Indoor Unit
Parts And Major
Functions

Unit Parts

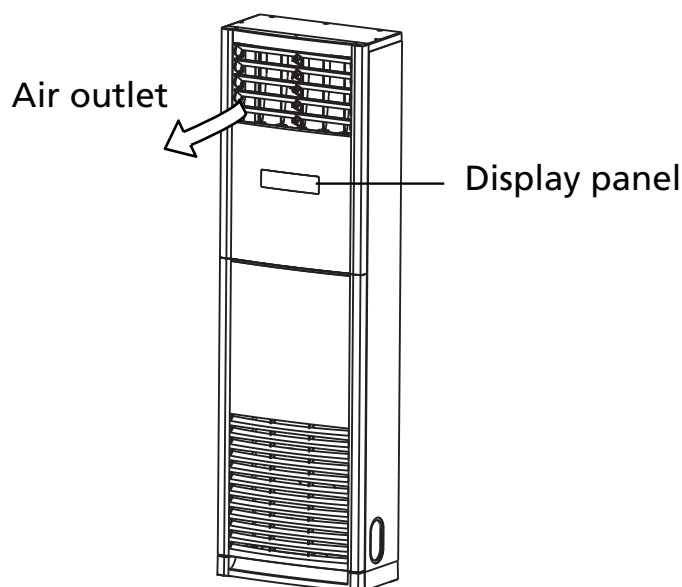


Fig. 2.1

Operating Conditions

Use the system under the following temperatures for safe and effective operation. If the air conditioner is used under different conditions, it may malfunction or become less efficient.

• Inverter Split Type

	COOL mode	HEAT mode	DRY mode
Room Temperature	17°C - 32°C (63°F - 90°F)	0°C - 30°C (32°F - 86°F)	10°C - 32°C (50°F - 90°F)
Outdoor Temperature	0°C - 50°C (32°F - 122°F)	-15°C - 30°C (5°F - 86°F)	0°C - 50°C (32°F - 122°F)
	-15°C - 50°C (5°F - 122°F) (For models with low temp. cooling systems.)		
	0°C - 52°C (32°F - 126°F) (For special tropical models)		0°C - 52°C (32°F - 126°F) (For special tropical models)

FOR OUTDOOR UNITS WITH AUXILIARY ELECTRIC HEATER
When outside temperature is below 0°C (32°F), we strongly recommend keeping the unit plugged in at all time to ensure smooth ongoing performance.

• Fixed-speed Type

	COOL Mode	HEAT mode	DRY mode
Indoor Temperature	17°-32°C (63°-90°F)	0°-30°C (32°-86°F)	10°-32°C (50°-90°F)
Outdoor Temperature	18°-43°C (64°-109°F)	-7°-24°C (19°-75°F)	11°-43°C (52°-109°F)
	-7°-43°C (19°-109°F) (low temperature cooling models)		18°-43°C (64°-109°F)
	18°-52°C (64°-126°F) (For special tropical models)		18°-52°C (64°-126°F) (For special tropical models)

Features

Default Setting

When the air conditioner restarts after a power failure, it will default to the factory settings (AUTO mode, AUTO fan, 24°C (76°F)). This may cause inconsistencies on the remote control and unit panel. Use your remote control to update the status.

Refrigerant Leak Detection System (some models)

In the event of a refrigerant leak, the LCD screen will display "EC".

For a detailed explanation of each function, refer to the **Remote Control Manual**.

Auto-Restart (some models)

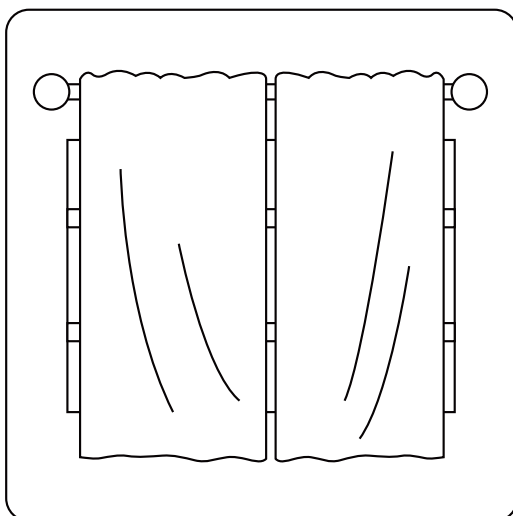
If the unit loses power, it will automatically restart with the prior settings once power has been restored.

Louver Angle Memory Function (some models)

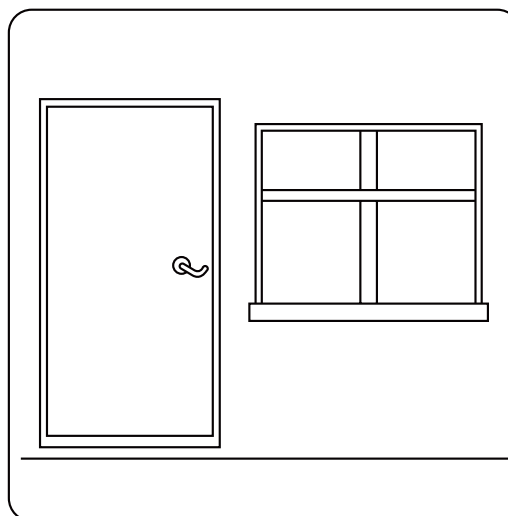
Some models are designed with a louver angle memory function. When the unit restarts after a power failure, the angle of the horizontal louvers will automatically return to the previous position. The angle of the horizontal louver should not be set too small as condensation may form and drip into the machine. To reset the louver, press the "AUXILIARY FUNCTION" button, which will reset the horizontal louver settings.

Energy Saving Tips

- **DO NOT** set the unit to excessive temperature levels.
- While cooling, close the curtains to avoid direct sunlight.
- Doors and windows should be kept closed to keep cool or warm air in the room.
- **DO NOT** place objects near the air inlet and outlet of the unit.
- Set a timer and use the built-in SLEEP/ECONOMY mode if applicable.
- If you don't plan to use the unit for a long time, remove the batteries from the remote control.
- Clean the air filter every two weeks.
- Adjust louvers properly and avoid direct airflow.



Closing curtains during heating also helps keep the heat in



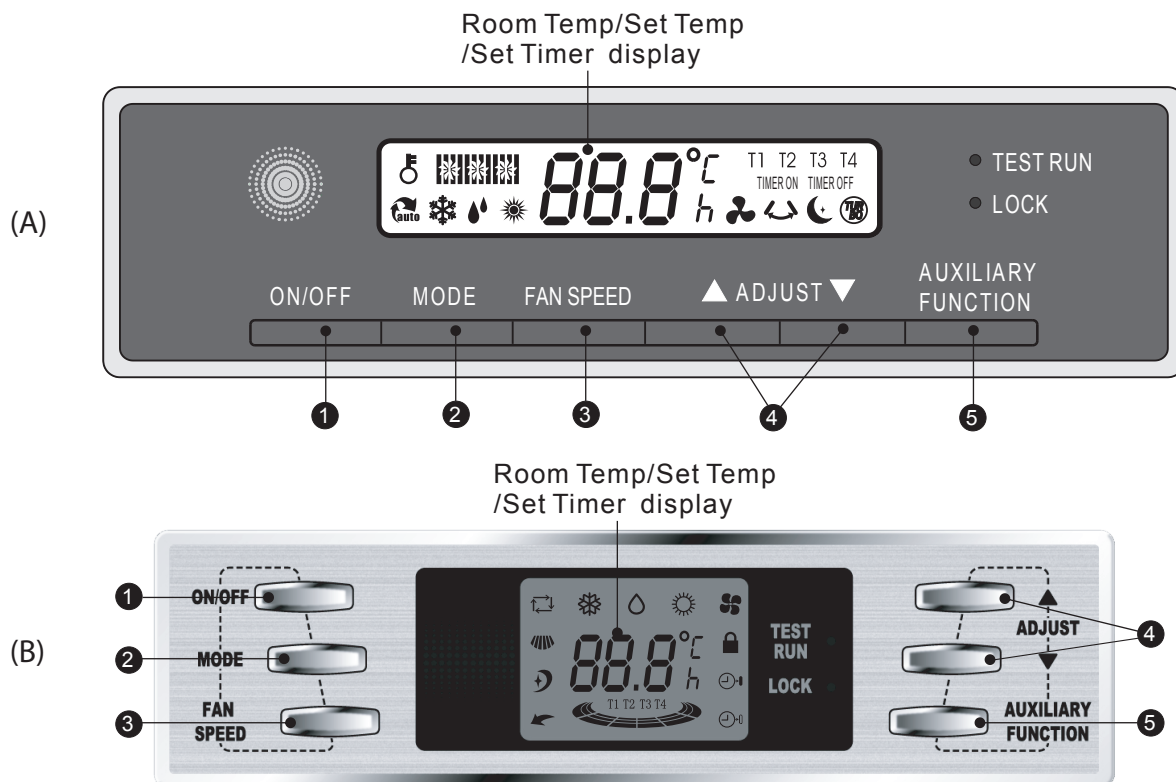
Doors and windows should be kept closed

Manual Operations

NOTE: Different models have different display panel. Not all the indicators describing below are available for the air conditioner you purchased. Please check the indoor display panel of the unit you purchased.

Illustrations in this manual are for explanatory purposes. The actual shape of your indoor unit may be slightly different. The actual shape shall prevail.

The display panel on the indoor unit can be used to operate the unit in cases when the remote control has been misplaced or is out of batteries.

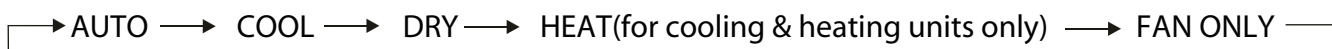


(A)	(B)	(A)	(B)
Auto operation display		Swing operation display	
Cooling operation display		Sleep operation display	
Dry operation display		Turbo operation display	
		TIMER ON	
Heating operation display		On timer operation display	
		TIMER OFF	
Fan operation display		Off timer operation display	
Lock operation display		Fan speed display	

Operation buttons

- ① **ON/OFF** button : Operation starts when this button is pressed and stops when you press the button again.

- ② **MODE** button: 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:



Mode indicators light up to signal the following mode settings.

Auto: Automatically chooses 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 .

Dry: Enables you to set the desired temperature at low fan speed which provides you with the dehumidifying surroundings . In Dry mode, you can not select Fan speed.

Heat: Permits heating operation (For cooling & heating models only).

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

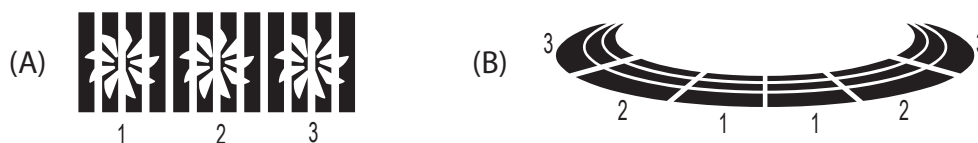
- ③ **Fan speed** button: This button is used to select the desired fan speed. Each time you push the button, the fan speed is shifted in the following sequence:



NOTE: You 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 display:

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 ~3 will illuminate;

Select HIGH fan speed and the third zone will illuminate.

Once selected, after 2 seconds the zones will illuminate gradually based on the speed selected.

NOTE: when the indoor fan is stopped, nothing will display.

- ④ **ADJUST** button :

1. **Temperature adjust:** Press the "▲" and "▼" to adjust the temperature .
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 "▲" "▼" to be able to check view indoor, outdoor, fault code.
5. Under malfunction condition: Press the "▲" "▼" to check the malfunction code.

- ⑤ **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 : Some functions is disabled When the unit is turned off or under certain mode, the operation mode shifts to the next automatically.

- ⑥ **Test Run** 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 (some models).

- ⑦ **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.

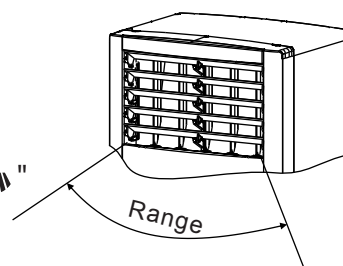
Airflow Direction Control

Horizontal Airflow Direction(AUTO)

The Left/Right(Horizontal Airflow) can be adjusted by using the remote control or unit control.

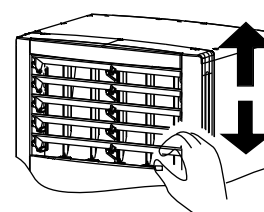
Press the"AUXILIARY FUNCTION" button on the unit control panel, then press the ADJUST "▲" and "▼" button to select the " " or " " feature and the louvers will swing left and right. Repeat the above procedures to stop the swing operation.

Never touch the vertical louvers by hand.



Vertical Airflow Direction(MANUAL)

The Up/Down(Vertical 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.



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.

Safety Precautions

- Contact an authorized service technician for repair or maintenance. Improper repair and maintenance may cause water leakage, electrical shock, or fire, and may void your warranty.
- **DO NOT** substitute a blown fuse with a fuse that has a higher or lower amperage rating, as this may damage the circuit or cause an electrical fire.
- Make sure the drain hose is set up according to the instructions. Failure to do so could cause leakage and result in personal property damage, fire and electric shock.
- Make sure that all wires are connected properly. Failure to connect wires according to instructions can result in electrical shock or fire.

Unit Maintenance

BEFORE CLEANING OR MAINTENANCE

- Always turn off your air conditioning system and disconnect its power supply before cleaning or maintenance.
- **DO NOT** use chemicals or chemically treated cloths to clean the unit.
- **DO NOT** use benzene, paint thinner, polishing powder or other solvents to clean the unit. They can cause the plastic surface to crack or deform.
- **DO NOT** wash the unit under running water. Doing so causes electrical danger.
- **DO NOT** use water hotter than 40°C (104°F) to clean the front panel. This can cause the panel to deform or become discolored.
- Clean the unit using a damp, lint-free cloth and neutral detergent. Dry the unit with a dry, lint-free cloth.

How To Clean The Air Filter

The filter prevents dust and other particles from entering the indoor unit. Dust buildup can reduce the efficiency of the air conditioner. For optimum efficiency, clean the air filter every two weeks or more frequently if you live in a dusty area. Replace the filter with a new one if it's heavily clogged and cannot be cleaned.

WARNING: DO NOT REMOVE OR CLEAN THE FILTER BY YOURSELF

Removing and cleaning the filter can be dangerous. Removal and maintenance must be performed by a certified technician.

NOTE: In households with animals, you will have to periodically wipe down the grille to prevent animal hair blocking airflow.

Cleaning the Air inlet grille and Air Filter

If the air filter becomes clogged, the performance will decrease and electricity will be wasted.

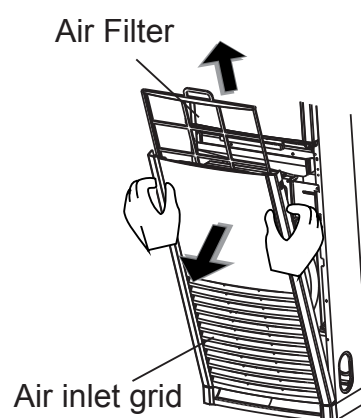


Fig. 4.1

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.

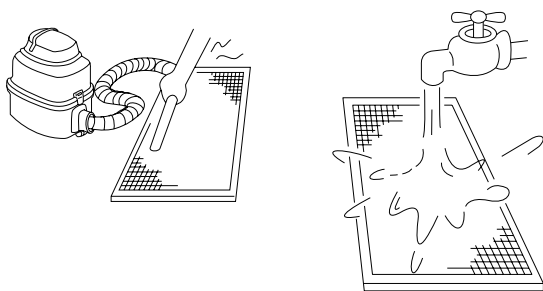


Fig. 4.2

7. Installation process of the air filter and air inlet grid is the reverse of the removal process.

! CAUTIONS

Make sure nothing has been forgotten or fallen into the fan before installing the air inlet grille. Restart the unit after the air inlet grid is correctly installed and the loop is fastened.

Repairing Refrigerant Leaks

! WARNING

- If the refrigerant leaks, turn off the air conditioner and any combustible heating devices, ventilate the room and call your dealer immediately. Refrigerant is both toxic and flammable. **DO NOT** use the air conditioner until the leak is repaired.
- When the air conditioner is installed in a small room, measures must be taken to prevent the refrigerant concentration from exceeding the safety limit in the event of refrigerant leakage. Concentrated refrigerant causes a severe health and safety threat.

Refrigerant Leak Detection System (some models)

In the event of a refrigerant leak, the LCD screen will display "EC".

Preparation For Periods Of Non-Use

Maintenance after Extended Non-Use

1. Remove any obstacles blocking the vents of both the indoor and outdoor units.
2. Clean the air filter and the front grille of the indoor unit. Reinstall the clean, dry air filter in its original position.
3. Turn on the main power switch at least 12 hours prior to operating the unit.

Storing the Unit While Not In Use

1. Run the appliance on FAN mode for 12 hours in a warm room to dry it and prevent mold.
2. Turn off the appliance and unplug it.
3. Clean the air filter according to the instructions in the previous section. Reinstall the clean, dry filter before storing.
4. Remove the batteries from the remote control.

CAUTIONS

If one of the following conditions occurs, switch off the power supply immediately and contact your dealer for further assistance.

- The operation light continues to flash rapidly after the unit has been restarted.
- The remote control buttons do not work.
- The unit continually trips fuses or circuit breakers.
- A foreign object or water enters the air conditioner.
- Other abnormal situations.

Common Problems

The following symptoms are not a malfunction and in most situations will not require repairs.

Problem	Possible Causes
Unit does not turn on when pressing ON/OFF button	The unit has a 3-minute protection feature that prevents the unit from overloading. The unit cannot be restarted within three minutes of being turned off.
	Cooling and Heating Models: If the Operation light and PRE-DEF (Pre-heating/Defrost) indicators are lit up, the outdoor temperature is too cold and the unit's anti-cold wind is activated in order to defrost the unit.
	In Cooling-only Models: If the "Fan Only" indicator is lit up, the outdoor temperature is too cold and the unit's anti-freeze protection is activated in order to defrost the unit.
The unit changes from COOL mode to FAN mode	The unit changes its setting to prevent frost from forming on the unit. Once the temperature increases, the unit will start operating again.
	The set temperature has been reached, at which point the unit turns off the compressor. The unit will resume operating when the temperature fluctuates again.
The indoor unit emits white mist	In humid regions, a large temperature difference between the room's air and the conditioned air can cause white mist.
Both the indoor and outdoor units emit white mist	When the unit restarts in HEAT mode after defrosting, white mist may be emitted due to moisture generated from the defrosting process.
The indoor unit makes noises	A squeaking sound is heard when the system is OFF or in COOL mode. The noise is also heard when the drain pump (optional) is in operation.
	A squeaking sound may occur after running the unit in HEAT mode due to expansion and contraction of the unit's plastic parts.

Problem	Possible Causes
Both the indoor unit and outdoor unit make noises	A low hissing sound may occur during operation. This is normal and is caused by refrigerant gas flowing through both the indoor and outdoor units.
	A low hissing sound may be heard when the system starts, has just stopped running or is defrosting. This noise is normal and is caused by the refrigerant gas stopping or changing direction.
The outdoor unit makes noises	The unit will make different sounds based on its current operating mode.
Dust is emitted from either the indoor or outdoor unit	The unit may accumulate dust during extended periods of non-use, which will be emitted when the unit is turned on. This can be mitigated by covering the unit during long periods of inactivity.
The unit emits a bad odor	The unit may absorb odors from the environment (such as furniture, cooking, cigarettes, etc.) which will be emitted during operations.
	The unit's filters have become moldy and should be cleaned.
The fan of the outdoor unit does not operate	During operation, the fan speed is controlled to optimize product operation.

Troubleshooting Tips

When troubles occur, please check the following points before contacting a repair company.

Problem	Possible Causes	Solution
The unit is not working	Power failure	Wait for the power to be restored
	The power switch is off	Turn on the power
	The fuse is burned out	Replace the fuse
	Remote control batteries are dead	Replace the remote control batteries
	The unit's 3-minute protection has been activated	Wait three minutes after restarting the unit
Poor cooling performance	Temperature setting may be higher than the ambient room temperature	Lower the temperature setting
	The heat exchanger on the indoor or outdoor unit is dirty	Clean the affected heat exchanger
	The air filter is dirty	Remove the filter and clean it according to instructions
	The air inlet or outlet of either unit is blocked	Turn the unit off, remove the obstruction and turn it back on
	Doors and windows are open	Make sure that all doors and windows are closed while operating the unit
	Excessive heat is generated by sunlight	Close windows and curtains during periods of high heat or bright sunshine
	Low refrigerant due to leak or long-term use	Check for leaks, re-seal if necessary and top off refrigerant

Problem	Possible Causes	Solution
The unit starts and stops frequently	There's too much or too little refrigerant in the system	Check for leaks and recharge the system with refrigerant
	There is air, incompressible gas or foreign material in the refrigeration system.	Evacuate and recharge the system with refrigerant
	System circuit is blocked	Determine which circuit is blocked and replace the malfunctioning piece of equipment
	The compressor is broken	Replace the compressor
	The voltage is too high or too low	Install a manostat to regulate the voltage
Poor heating performance	The outdoor temperature is lower than 7°C (44.5°F)	Check for leaks and recharge the system with refrigerant
	Cold air is entering through doors and windows	Make sure that all doors and windows are closed during use
	Low refrigerant due to leak or long-term use	Check for leaks, re-seal if necessary and top off refrigerant
Error code appears and begins with the letters as the following in the window display of indoor unit: EH(xx), EL(xx), EC(xx), PH(xx), PL(xx), PC(xx)	<p>The unit may stop operation or continue to run safely. If the indicator lamps continue to flash or error codes appear, wait for about 10 minutes. The problem may resolve itself.</p> <p>If not, disconnect the power, then connect it again. Turn the unit on.</p> <p>If the problem persists, disconnect the power and contact your nearest customer service center.</p>	

Users in European Countries may be required to properly dispose of this unit. This appliance contains refrigerant and other potentially hazardous materials. When disposing of this appliance, the law requires special collection and treatment. **DO NOT** dispose of this product as household waste or unsorted municipal waste.

When disposing of this appliance, you have the following options:

- Dispose of the appliance at designated municipal electronic waste collection facility.
- When buying a new appliance, the retailer will take back the old appliance free of charge.
- The manufacturer will also take back the old appliance free of charge.
- Sell the appliance to certified scrap metal dealers.

NOTE: Disposing of this appliance in the forest or other natural surroundings endangers your health and is bad for the environment. Hazardous substances may leak into the ground water and enter the food chain.





The design and specifications are subject to change without prior notice for product improvement. Consult with the sales agency or manufacturer for details. Any updates to the manual will be uploaded to the service website, please check for the latest version.