

Applicable to SENL/12HD/MI SENL/18HD/MO

Split Type Wall-mounted Inverter Room Air Conditioner

USER'S MANUAL

Thank you for purchasing of SENVILLE air conditioner. To guarantee safety and best efficiency, please read this manual carefully and keep a suitable storage for reference.

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- Contact an authorised service technician for repair or maintenance of this unit.
- Contact the installer for installation of this unit.
- The air conditioner is not intended for use by young children or invalids without supervision.
- Young children should be supervised to ensure that they do not play with the air conditioner.
- 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.

SOCIABLE REMARK

When using this air conditioner in the European countries, the follow information must be followed:

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.



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.

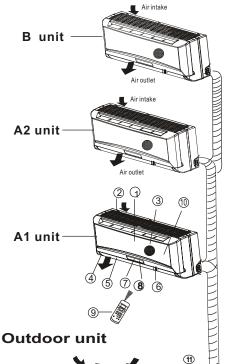
\bigcirc	Never do this.
	Always do this.
^① Connect with the poperly.	wer ⊗ Do not operate or stop the unit by switching on or off the power. ⊗ Do not damage or use an unspecified power cord.
 Otherwise, it may cause shock or fire due to exc generation. 	
♥ Do not modify powe length or share the with other appliance	outlet hands or in damp room occupants only.
 It may cause electric sh fire due to heat generation 	
① Always ensure effect earthing.	tive ⊗ Do not allow water to run into electric parts.
 No earthing may cause shock. 	electric • It may cause failure of machine or electric shock. • No installation may cause fire and electric shock.
① Disconnect the pow strange sounds, sm smoke comes from	ell, or from air conditioner. during operation.
 It may cause fire and elesshock. 	ectric It contains contaminants and It may cause electric shock. could make you sick.
^① Use the correctly ra breaker or fuse.	ted Solution Do not use the power cord close to heating appliances flammable gas or combustibles, such as gasoline, benzene, thinner, etc.
 There is risk of fire or el shock. 	 ectric It may cause fire and electric It may cause an explosion or fire shock.
① Ventilate room befo conditioner if there another appliance.	re operating air \odot Do not disassemble or modify unit. is a gas leakage from
• It may cause explosion,	fire and, burns. • It may cause failure and electric shock.

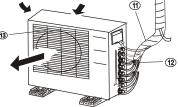
SAFETY PRECAUTIONS

When the air filter is to be removed, do not touch the metal parts of the unit.	O Do not clean the air conditioner with water.	 Ventilate the room well when used together with a stove, etc.
 It may cause an injury. 	• Water may enter the unit and degrade the insulation. It may cause an electric shock.	 An oxygen shortage may occur.
^① When the unit is to be cleaned, switch off, and turn off the circuit breaker.	Do not put a pet or house plant where it will be exposed to direct air flow.	O Do not use for special purposes.
 Do not clean unit when power is on as it may cause fire and electric shock, it may cause an injury. 	 This could injure the pet or plant. 	 Do not use this air cond- itioner to preserve preci- sion devices, food, pets, plants, and art objects. It may cause deterioration of quality, etc.
① Stop operation and close the window in storm or hurricane.	O Do not place obstacles around air-inlets or inside of air-outlet.	① Turn off the main power switch when not using the unit for a long time.
 Operation with windows opened may cause wetting of indoor and soaking of household furniture. 	 It may cause failure of appliance or accident. 	 It may cause failure of product or fire.
Do not use strong detergent such as wax or thinner. Use a soft cloth for cleaning.	D Ensure that the installation bracket of the outdoor appliance is not damaged due to prolonged exposure.	^① Always insert the filters securely. Clean filter once every two weeks.
 Appearance may be deteriorated due to change of product color or scratching of its surface. 	 If bracket is damaged, there is concern of damage due to falling of unit. 	 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. 	^① 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.

Identification of parts

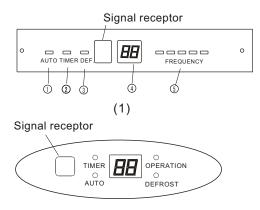
Indoor unit





One-two/three type

LED Display panel





OPERATING INSTRUCTIONS

IMPORTANT:

- For multi-split type air conditioner, one outdoor unit can match different types of indoor units. So all the pictures in this manual are for explanation purpose only. Your air conditioner may be slightly different. The actual shape shall prevail.
- The following pages introduce several kinds of indoor units matching with the outdoor units.

Indoor unit

- 1. Front panel
- 2. Top air intake
- 3. Air filter(Inside)
- 4. Air outlet
- 5. Horizontal air flow louver
- 6. Vertical air flow louver(Internal)
- 7. Display panel
- 8. LED display window
- 9. Remote controller
- 10. Manual control button(Behind the front panel)

Outdoor unit

- 11. Refrigerant connecting pipe, drain hose and electric wiring
- 12. Stop valve
- 13. Air outlet

<u>Display panel</u>

AUTO indication lamp

Lights up during the Auto operation.

TIMER indication lamp

Lights up during Timer operation.

DEFROST indication lamp

(For Cooling & Heating models only): Lights up when the air conditioner starts defrosting automatically or when the warm air control feature is activated in heating operation.

DIGITAL DISPLAY indication lamp

Displays the current setting temperature. Only when the air conditioner is in FAN operation, it displays the actual room temperature. And displays the malfunction code or protection code.

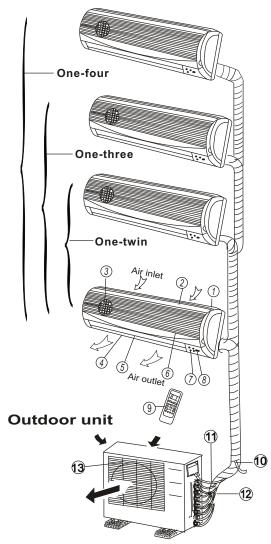
OPERATION indication lamp

5

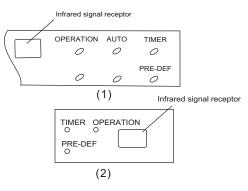
This indicator appears only when the compressor is in operation and indicates the current operating frequency.

Identification of parts

Indoor unit



DISPLAY PANEL



Indoor unit

- ① Front panel frame
- ② Front panel
- ③ Air filter
- ④ Horizontal air flow grille
- (5) Vertical air flow louver
- 6 Room temperature sensor
- ⑦ Display panel
- ⑧ Infrared signal receiver
- 9 Remote controller

Outdoor unit

- ${}^{(\!0\!)}$ Drain hose, refrigerant connecting pipe
- 1 Connective cable
- 12 Stop valve
- (1) Fan hood

DISPLAY PANEL

OPERATION indicator:

The indicator flashes once every second after power is on and illuminates when the air conditioner is in operation.

TIMER indicator:

The indicator illuminates when TIMER is set ON.

PRE-DEF. Indicator (For cooling& heating model only):

This indicator illuminates when the air conditioner starts defrosting automatically or when the Anticold air function is activated in heating operation.

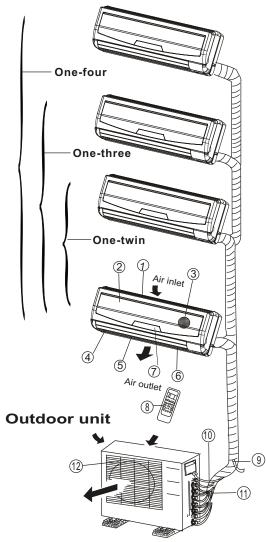
AUTO indicator:

6

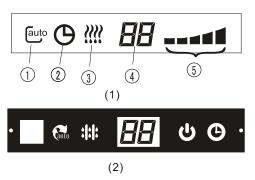
This indicator flashes when the air conditioner is in AUTO operation.

Identification of parts

Indoor unit



LED Display window



OPERATING INSTRUCTIONS

Indoor unit

- ① Front panel frame
- ② Front panel
- ③ Air filter
- ④ Horizontal air flow grille
- ⑤ Vertical air flow louver
- 6 Room temperature sensor
- ⑦ Display panel
- (8) Remote controller

Outdoor unit

- (9) Drain hose, refrigerant connecting pipe
- ① Connective cable
- 1 Stop valve
- 12 Fan hood

LED DISPLAY WINDOW

- (1) **AUTO indication lamp** Lights up during the Auto operation.
- TIMER indication lamp Lights up during Timer operation.

③ **DEFROST indication lamp** (For Cooling & Heating models only): Lights up when the air conditioner starts defrosting automatically or when the warm air control feature is activated in heating operation.

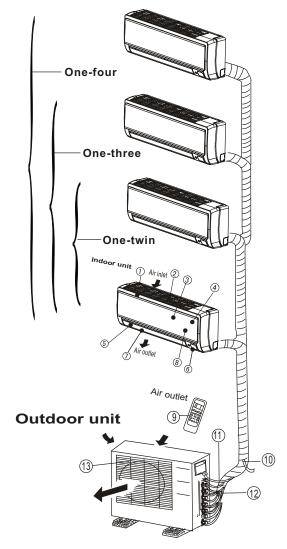
IGIGITAL DISPLAY indication lamp Displays the current setting temperature. Only when the air conditioner is in FAN operation, it displays the actual room temperature. And displays the malfunction code or protection code.

⑤ OPERATION indication lamp

This indicator appears only when the compressor is in operation and indicates the current operating frequency.

Identification of parts

Indoor unit



Indoor unit

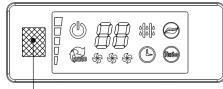
- 1. Panel frame
- 2. Rear air intake grille
- 3. Front panel
- 4. Air Purifying filter & Air filter(behind)
- 5. Horizontal louver
- 6. LCD display window
- 7. Vertical louver
- 8. Manual control button(behind)
- 9. Remote controller holder

Outdoor unit

- 10. Drain hose, refrigerant connecting pipe
- 11. Connective cable
- 12. Stop valve
- 13. Fan hood

Display window

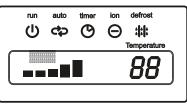
NOTE: The display window on the air conditioner you purchased may look like one of the following:



Signal receptor (1)



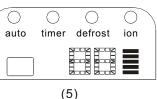














OPERATION display

Displayed when the air conditioner is in operation.



AUTO operation display

Displayed during Auto operation.



DEFROST operation display

(For Heating & Cooling model only): Displayed when the air conditioner starts defrosting automatically or when the warm air control feature is activated in heating operation.



TIMER display

Displayed during Timer operation.

CLEAN AIR display(optional)

Displayed when CLEAN AIR feature is activated.



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TURBO operation display

Displayed when select TURBO function on cooling operation or on heating operation.

DIGITAL DISPLAY 88

Displays the current setting temperature when the air conditioner is in operation.

ℜ ೫ **FAN SPEED display**

Displayed the selected fan speed: LOW(乐), MED(乐乐) and HIGH(\%%%%).

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9

Frequency indication lamp

This display is separated into five zones. The zones illuminate based on the compressor current frequency. For example, higher frequency will illuminate more zones.

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

Operating temperature

Cooling operation	Heating operation	Drying operation
≥17° C	<30° C	>10°C
0°C 50°C		
(-15°C _• 50°C:For the models with low temperature cooling system)	-15° C 24° C	0°C <u></u> 50°C
	>17°C 0°C 50°C	>17°C <30°C

CAUTION:

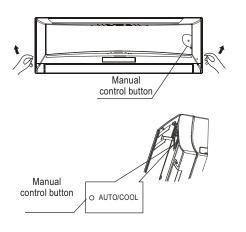
1. If air conditioner is used outside of the above conditions, certain safety protection features may come into operation and cause the unit to function abnormally.

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.

Manual operation

Manul operation can be used temporarily in case you can not find the remote controller or test running purpose or maintenance necessary.

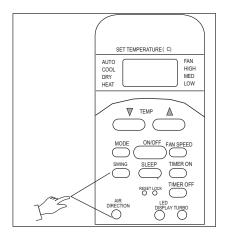


NOTE: The unit must be turned off before operating the manual control button. If the unit is operational, continue pressing the manual control button until the unit is off.

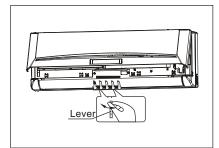
- ① Open and lift the front panel up to an angle until it remains fixed with a clicking sound.
- ② One press of the manual control button will lead to the forced AUTO operation. If press the button twice within five seconds, the unit will operate under forced COOL operation.
- ③ Close the panel firmly to its original position.

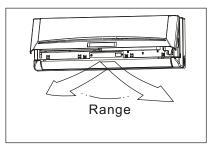
NOTE: For DUCT and CEILING type, CASSETTE type, CEILING and FLOOR type and FLOOR and STANDING type, please refer to the previous pages to operate the Manual button.

Airflow direction control



Range





NOTE: The remote controller is different types depending on the indoor units. Please refer to the <<REMOTE CONTROLLER ILLUSTRATION>> supplied with the unit to operate the unit properly if your remote controller is different with the following instructions.

- Adjust the air flow direction properly, otherwise it might cause discomfort or cause uneven room temperatures.
- Adjust the horizontal louver using the remote controller.
- Adjust the vertical louver manually.

To set the vertical air flow(Up--Down) direction

Perform this function while the unit is in operation. Keep pressing the AIR DIRECTION button on the remote controller to move the louver to the desired direction. The readjusting angle of the horizontal louver is 6_{\circ} for each press.

To set the horizontal air flow direction (left - right)

Adjust the vertical louver manually using the lever on the left or right side of the vertical louver arm (Depending on model). Take care not to catch fingers on the fan, horizontal louver or to damage vertical louvers. When the air conditioner is in operational and the horizontal louver is in a specific position, move the lever at left (or right, depending on model) end of the air outlet to the desired position.

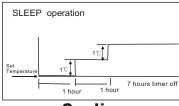
To automatically swing the air flow direction (up - down) Perform this function while the air conditioner is in operation.

- Keep pressing the AIR DIRECTION button without releasing for more than 2 seconds or press the SWING button on the remote controller, the horizontal louver will swing up and down automatically.
- To stop the function, press the SWING button again.

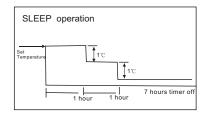
- The SWING and AIR DIRECITON button will be disabled when the air conditioner is not in operation(including when the TIMER ON is set).
- Do not operate the air conditioner for long periods with the air flow direction set downward in cooling or dry mode. Otherwise, condensation may occur on the surface of the horizontal louver causing moisture to drop on to the floor or on furnishings.
- Do not move the horizontal louver manually. Always use the SWING or AIR DIRECTION button.
- When the air conditioner is started immediately after it was stopped, the horizontal louver might not move for approximately 10 seconds.
- Open angle of the horizontal louver should not be set too small, as COOLING or HEATING performance may be impaired due to too restricted air flow area. Do not operate unit with horizontal louver in closed position.
- When the air conditioner is connected to power (initial power), the horizontal louver may generate a sound for 10 seconds, this is a normal operation.



How the air conditioner works



Cooling



Heating

AUTO operation

- When you set the air conditioner in AUTO mode, it will automatically select cooling, heating(cooling /heating models only), or fan only operation depending on what temperature you have selected and the room temperature.
- The air conditioner will control room temperature automatically round the temperature point set by you.
- If the AUTO mode is uncomfortable, you can select desired conditions manually.

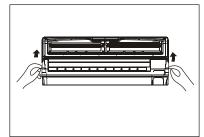
SLEEP operation

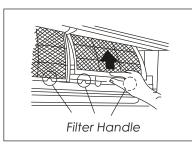
- When you push SLEEP button on remote controller during cooling, heating(cooling only type without), or AUTO operation, the air conditioner will automatically increase (cooling) or decrease (heating) 1°C per hour.
- The set temperature will be steady 2 hours later. And the air conditioner will be timer off in 7 hours.
- The fan speed will be automatically controlled.
- This feature can maintain the most comfortable temperature and save more energy for you.

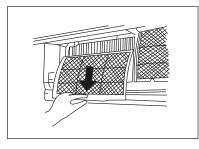
DRYING operation

- The fan speed will be automatically controlled under dry operation.
- During the dry operation, if the room temperature is lower than 10°C, the compressor stops operation and restarts until the room temperature is above 12°C.

Care and maintenance







Cleaning the Grille, Case and Remote Controller

• Turn the system off before cleaning. To clean, wipe with a soft, dry cloth. Do not use bleach or abrasives.

NOTE: Supply power must be disconnectd before cleaning the indoor unit.

- A cloth dampened with cold water may be used on the indoor unit if it is very dirty. Then wipe it with a dry cloth.
- Do not use a chemically treated cloth or duster to clean the unit.
- Do not use benzine, thinner, polishing powder, or similar solvents for cleaning. These may cause the plastic surface to crack or deform.
- Never use water hotter than 40 °C to clean the front panel, it could cause deformation of discoloration.

■ WALL-MOUNTED TYPE

Cleaning the air filter

A clogged air filter reduces the cooling efficiency of this unit. Please clean the filter once every 2 weeks.

- 1. Lift the indoor unit panel up to an angle until it stops with a clicking sound.
- 2. Take hold of the handle of the air filter and lift it up slightly to take it out from the filter holder, then pull it downwards.
- 3. Remove the **Active Carbon & Dust Filter** from the indoor unit.
 - Clean the it once two weeks.
 - Clean the it with a vacuum cleaner or water,

then dry it up in cool place.

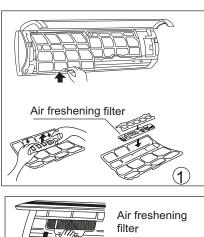
Operation mode selection

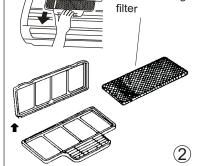
While simultaneously operating two indoor units or more, make sure the operation modes will not conflict with each other. The heat mode claims precedence over all other modes. If the unit intially started operates under heat mode, the other units can operate under heat mode only. For example: If the unit intially started operates under cool(or fan) mode, the other units can operate under any mode except heat. If one of the unit selects heat mode, the other operating units will stop operation and diplay "P5" (For the units with display window only) or the Auto and Operation indication light flash rapidly, the Defrost indication light turn off, the Timer indication light remain on(For the units without display window), or the Defrost and Alarm indication light(if applicable) illuminate, the Operation indication light flashes rapidly and the Timer indication light turns off (For the Floor and standing type).

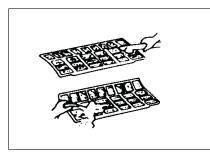
Optimal operation

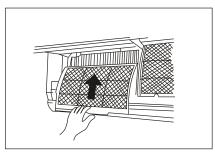
To achieve optimal performance, please note the following:

- Adjust the air flow direction correctly so that it is not directed on people.
- Adjust the temperature to achieve the highest comfort level. Do not adjust the unit to excessive temperature levels.
- Close doors and windows on COOL or HEAT modes, or performance may be reduced.
- Use TIMER ON button on the remote controller to select a time you want to start your air conditioner.
- Do not put any object near air inlet or air outlet, as the efficiency of the air conditioner may be reduced and the air conditioner may stop running.
- Clean the air filter periodically, otherwise cooling or heating per formance may be reduced.
- Do not operate unit with horizontal louvre in closed position.
 Suggestion: For the unit adopts an Electric Heater, when the outside ambient temperature is below 0°C, we strongly recommend you to keep the machine plugged in order to guarantee it running smoothly.









CARE AND MAINTENANCE

- 4. Remove the **Air Freshening Filter**(**Optional filter**: Plasma Dust collector/Silver Ion filter /Bio filter / Vitamin C filter) from its support frame.
 - (The installation and removing method of the air freshening filter is different depending on the models, see the pictures marked ① and ② on the left.
 - Clean the air freshening filter at least once a month, and replace it every 4-5 months.
- Clean it with vacuum cleaner, then dry it in cool place.
- 5. Install the air freshening filter back into position.
- Insert the upper portion of air filter back into the unit taking care that the left and right edges line up correctly and place filter into position.

Maintenance

If you plan to idle the unit for a long time, perform the following:

- (1) Operate the fan for about half a day to dry the inside of the unit.
- (2) Stop the air conditioner and disconnect power. Remove the batteries from the remote controller.
- (3) The outdoor unit requires periodic maintenance and cleaning. Do not attempt to do this yourself. Contact your dealer or servicer.

Checks before operation

- Check that the wiring is not broken off or disconnected.
- Check that the air filter is installed.
- Check if the air outlet or inlet is blocked after the air conditioner has not been used for a long time.

A Caution

- Do not touch the metal parts of the unit when removing the filter. Injuries can occur when handling sharp metal edges.
- Do not use water to clean inside the air conditioner. Exposure to water can destroy the insulation, leading to possible electric shock.
- When cleaning the unit, first make sure that the power and circuit breaker are turned off.

OPERATION TIPS

<u>Maintenance</u>

- If you plan to idle the unit for a long time, perform the following:
- 1. Clean the indoor unit and air filter.
- 2. Select FAN only mode, let the indoor fan run for a while to dry the inside of the unit.
- 3. Disconnect the power supply and remove battery from the remote control.
- 4. Check components of the outdoor unit periodically. Contact a local dealer or a customer service centre if the unit requires servicing.

When the air conditioner is to be used again:

- Use a dry cloth to wipe off the dust accumulated on rear air intake grille, in order to avoid the dust blowing out from the indoor unit.
- Check that the wiring is not broken off or disconnected.
- Check that the air filter is installed.
- Check if the air outlet or inlet is blocked after the air conditioner has not been used for a long time.

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 only 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 FAN only 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.

 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.

TROUBLESHOOTING TIPS

Stop the air conditioner immediately if one of the following faults occur. Disconnect the power and contact the nearest customer service center.

	If the E(0,1) or P(0, 1) code appears on the LED(LCD)window, disconnect the power and contact the service people.	
Trouble		
	Other objects or water penetrate the air conditioner.	
	The remote controller won't work or works abnormally.	
	Other abnormal situations.	

Malfunctions	Cause	What should be done?
Unit does not	Power cut	Wait for power to be restored.
start	Unit may have become unplugged.	Check that plug is securely in wall receptacle.
	Fuse may have blown.	Replace the fuse.
	Battery in Remote controller may have been exhausted.	Replace the battery.
	The time you have set with timer is incorrect.	Wait or cancel timer setting.
Unit not cooling or heating (Cooling/ heating models only) room very well	Inappropriate temperature setting.	Set temperature correctly. For detailed method please refer to "Remote controller instruction" section.
	Air filter is blocked.	Clean the air filter.
while air flowing	Doors or Windows are open.	Close the doors or windows.
out from the air conditioner	Air inlet or outlet of indoor or outdoor unit has been blocked.	Clear obstructions away first, then restart the unit.
	Compressor 3 minutes protection has been activated.	Wait.
If the trouble has r	lot been corrected, please contact a local o	lealer or the nearest customer

If the trouble has not been corrected, please contact a local dealer or the nearest customer service center. Be sure to inform them of the detailed malfunctions and unit model.

Notes: Do not attempt to repair the unit yourself. Always consult an authorised service provider.

The design and specifications are subject to change without prior notice for product improvement. Consult with the sales agency or manufacturer for details.