LG

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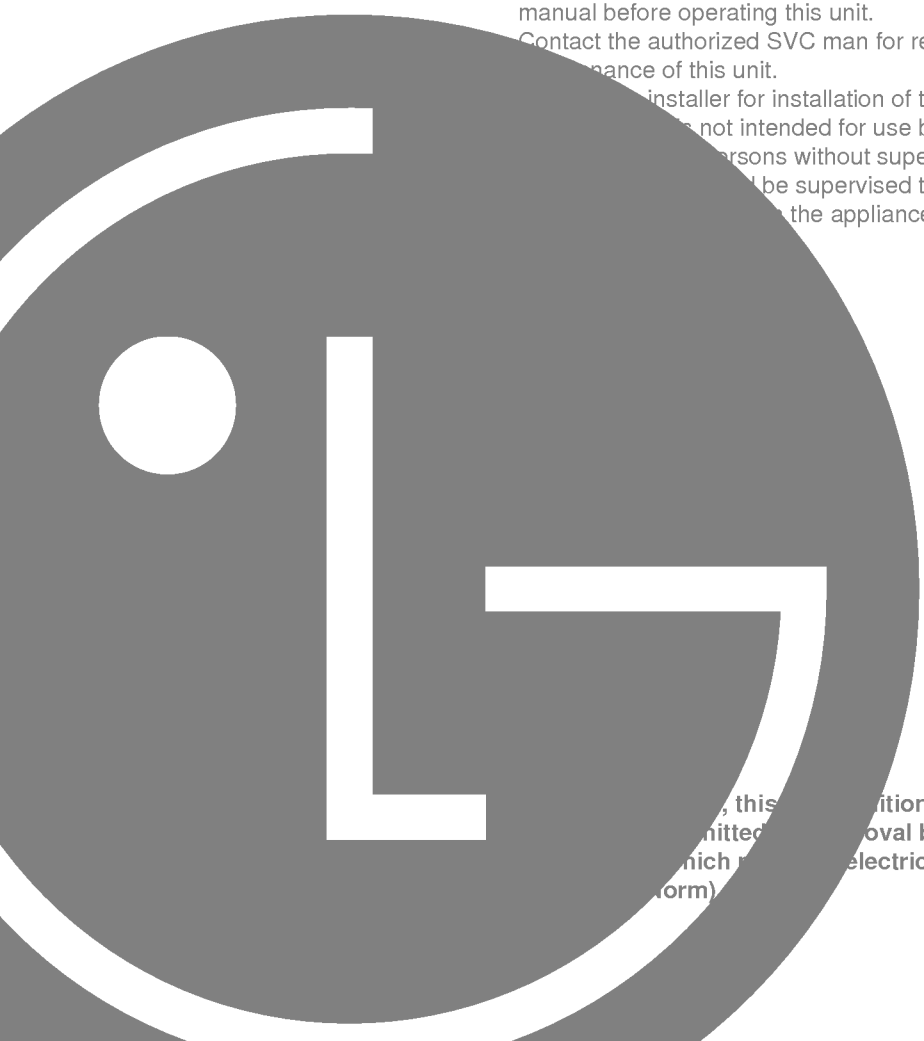
ENGLISH

# Ceiling Duct Type Air Conditioner
# OWNER'S MANUAL

- Please read carefully and thoroughly this manual before operating this unit.
- Contact the authorized SVC man for repair or
  nance of this unit.
  installer for installation of this unit.
  not intended for use by young
  rsons without supervision.
  be supervised to ensure
  the appliance.



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# 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 instruction will 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 properties only.

**⚠ WARNING**

■ **Do not install, remove and reinstall the unit by yourself.**
- Improper installation will cause water leakage, electrical shock, or fire. Please consult authorized dealer or specialist for the installation work. Please note fault caused by improper installation is not covered by warranty.
- Unit must be installed in an easily accessible area. Any additional cost required to hire a special equipment to service the unit will be the responsibility of the customer.

**⚠ WARNING**

[redacted]
- It will cause electrical shock or fire.
- If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

[redacted]
- It may cause electrical shock.

[redacted]
- Otherwise, it will cause electrical shock or fire due to heat generation.

[redacted]
- It will cause electrical shock or fire due to heat generation.

[redacted]
- Since the fan rotates at high speed, this may cause an injury or damage the unit.

[redacted]
- This could damage your health.

[redacted]
- If the unit continues to be operated in an abnormal condition, it may cause a fire, trouble, etc. In this case, consult your dealer.

[redacted]
- If this is done in correctly, it may cause a fire, electric shock, injury by dropping of the unit, water leakage, etc. Consult your dealer.

## CAUTION

- Contact the authorized 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 infirm persons without supervision.
- Young children should be supervised to ensure that they do not play with the air conditioner.

### ⚠ CAUTION



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



- An oxygen shortage may occur.



- Since the fan rotates at high speed during operation, it may cause an injury.



- This could injure the pet or plant.



- It may cause a fire or deformation of the cabinet.



- The unit may drop or fall down and cause an injury.



- It may cause imperfect combustion.



- It may cause an injury.



- It may cause an injury through dropping or falling down.



- In the cooling mode, if it is operated in a room with high humidity (80%r.h. or more) for a long time, water condensed in the air conditioner may drop and may wet and spoil furniture, etc.



- It may case an injury, etc. by falling down.



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



- If will cause electrical shock or fire.



- It may cause an injury.

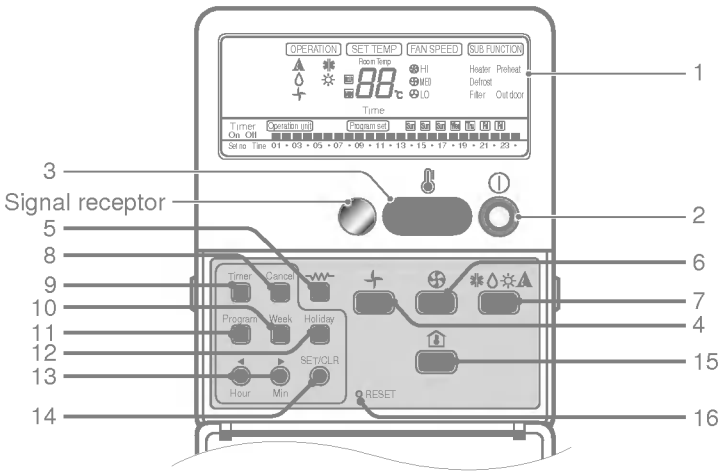


- It will cause an injury by the rotating blower.

# Operating Instructions

## Name and Function of Remote Controller

**Remote Controller**




**1 Operation display**
Displays the operation conditions.

**2 On/Off Button**
Operation starts when this button is pressed, and stops when the button is pressed again.

**3 Set Temperature Button**
Used to set the temperature when the desired temperature is obtained.

**4 FAN Operation Button**
Used to circulate room air without cooling or heating.

**5 Electric Heater Button(optional)**
Used to set the Electric Heater.

**6 Fan Speed Button**
Used to set desired fan speed.

**7 Operation Mode Selection Button**
Used to select the operation mode.
- Auto Operation Mode.
- Cooling Operation Mode.
- Soft Dry Operation Mode.
- Heating Operation Mode.(except cooling model)

**8 Timer Cancel Button**
Used to cancel the timer.

**9 Timer Set Button**
Used to set the timer when the desired time is obtained.

**10 Week Button**
Used to set a day of the week.

**11 Program Button**
Used to set the weekly timer.

**12 Holiday Button**
Used to set a holiday of the week.

**13 Time Set Button**
Used to set the time of the day and change the time in the weekly timer Function.

**14 Set and Clear Button**
Used to set and clear the weekly timer.

**15 Room Temperature Checking Button**
Used to check the room temperature.

**16 Reset Button**
Used to set the current time and clear the setting time.

# Optional Function

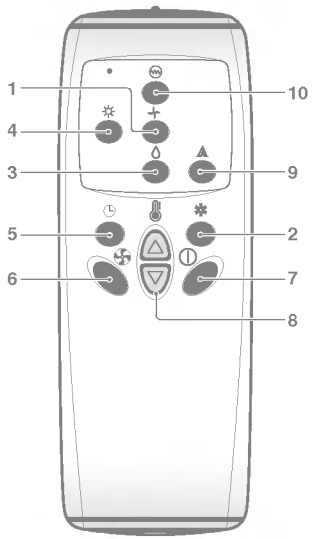
## • WIRELESS REMOTE CONTROLLER

This air-conditioner is equipped with wired remote controller basically. But if you want to be available with wireless remote controller, you pay for it.

**Remote Controller**

**Signal transmitter**

Transmits the signals to the signal receptor.




**[1] FAN Operation Button**
Used to circulate room air without cooling or heating.

**[2] Cooling Operation Button**

**[3] Soft Dry Operation Button**
Used to dehumidify without overcooling.

**[4] Heating Operation Button**
(Heat pump model only)

**[5] Timer Set Button**
Used to set the timer when the desired time is obtained.
Then the wired remote controller is set up to 24 hours by an hour but the wireless remote controller is set up to 7 hours by an hour. Therefore, if you want to set over 7 hours, use the wired remote controller.

**[6] Fan Speed Button**
Used to set the desired fan speed.

**[7] On/Off Button**
Operation starts when this button is pressed, and stops when the button is pressed again.

**[8] Set Temperature Button**
Used to set the temperature when the desired temperature is obtained

**[9] Auto Operation Button**

**[10] Electric Heater Button(optional)**
Used to set the Electric Heater.

**CAUTION**

**of handling the Remote Controller**

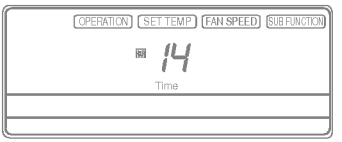
- Aim at the signal receptor on the wired remote controller so as to operate.
- The remote control signal can be received at a distance of up to about 7m.
- Be sure that there are no obstructions between the remote controller and the signal receptor.
- Do not drop or throw the remote controller.
- Do not place the remote controller in a location exposed to direct sunlight, or near the heating unit, or any other heat source.
- Block a strong light over the signal receptor with a curtain or etc. so as to prevent the abnormal operation. (ex:electronic quick start, ELBA, inverter type fluorescent lamp)

# Set the Current Time and a day of the Week

**1** Press the ' Hour ' button.

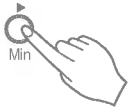
Each time the button is pressed, the number is changed from 00 to 23.
You can set the number of the current hour.

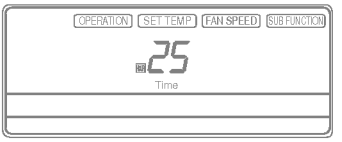



**2** Press the ' Min ' button.

Each time the button is pressed, the number is increased from 00 to 59.
You can set the number of the current minute.




**3** Press ' Week ' button.

Each time the button is pressed, a day of the week is shifted from sunday to saturday.
You can set the day of the week.



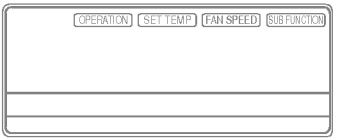




**4** Press the ' ● RESET ' button.

If you want to reset the current time and a day of the week, click the Reset button.



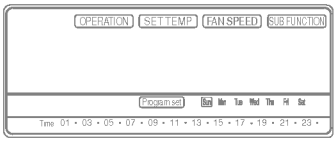



# Weekly Programming

**1** Press the Program button.

The remote controller is displayed like a picture. Then ' Program set ', ' Sun ' and '01' is blinked.



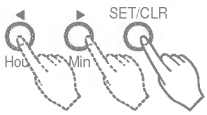




**2** Press the ' Week ' button.

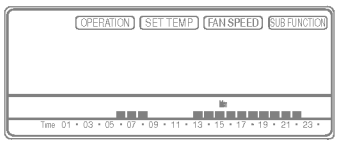
Select Monday.




**3** Change the timer setting until the desired time is set.
After you select a time, push the SET/CLR button once or one more time.




For Example if the air-conditioner is turned on from 6 to 8 and from 13 to 22 and turned off at other time monday, display is as follows. (black bar indicates turn-on, white bar indicates turn-off.)




**4** You can set turn on and turn off time by the day in a week as above.

## Holiday Setting

*If Tuesday is a holiday in this week, you may set a holiday.*

1. Press the Program button.



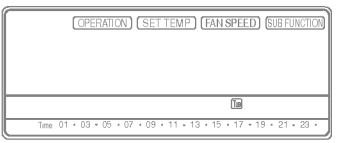

2. Press the Week button.
Select the Tuesday.




3. Press the Holiday button.




Then the remote controller will be displayed ' Tue '.
The outside rectangular means holiday.




## Timer Setting(Delay start/Pre-set stop)

This function is used to turn on or turn off in several hours.

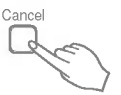
1. Press the Timer button
to turn Timer on or off.



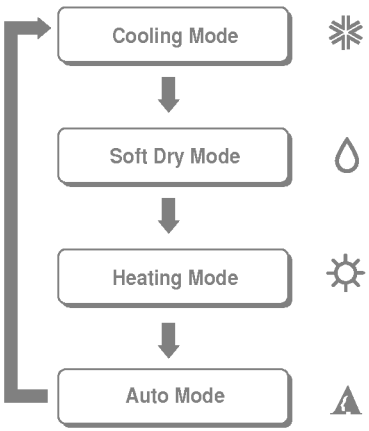

2. Change the timer setting until the desired time is set.



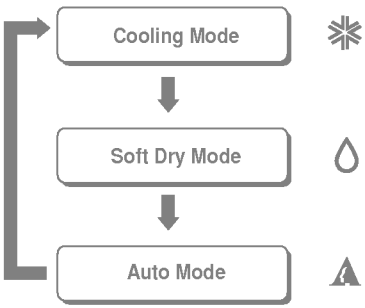

3. If you want to cancel the timer setting, press the Cancel button.



## Operation Mode




(Heat Pump Model)




(Cooling Model)

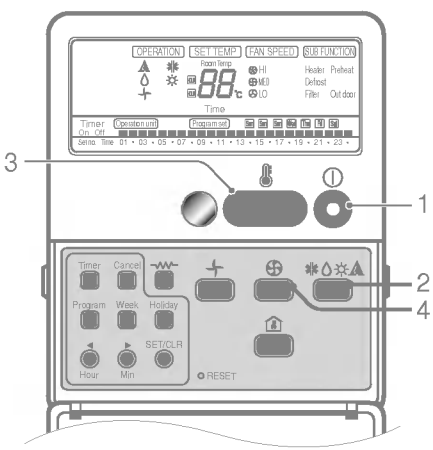
## Operation Procedure

**1st** On/Off Button

**2nd** Operation Mode Selection Button

**3rd** Room Temperature Setting Button

**4th** Indoor Fan Speed Selection Button



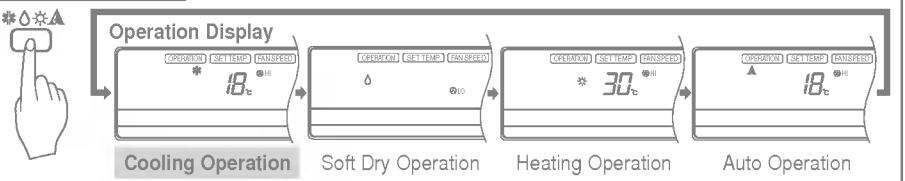
## Cooling Operation Mode

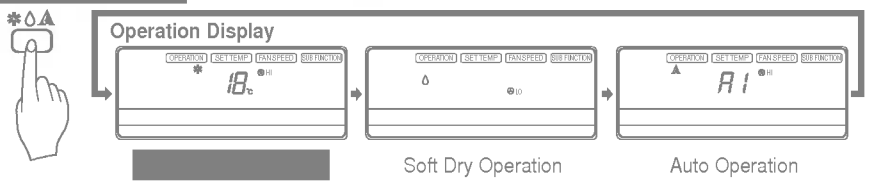
**1** Press the On/Off Button.



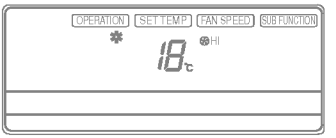
**2** Select Cooling Operation.

Press the Operation Mode Selection Button.
Each time the button is pressed, the operation mode is shifted in the arrow direction.

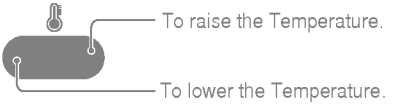


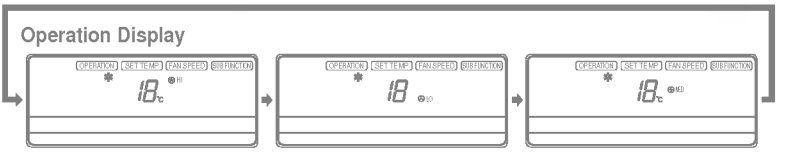

**3** Set the temperature lower than the room temperature.



- The temperature can be set within a range of 18℃ ~ 30℃ by 1℃ .




**4** Set the fan speed.




- Select the fan speed in three steps
  - high, low, medium.
- The display shows high fan speed.
- Each time the button is pressed, the fan speed mode is shifted.

## 2 Soft Dry Operation Mode

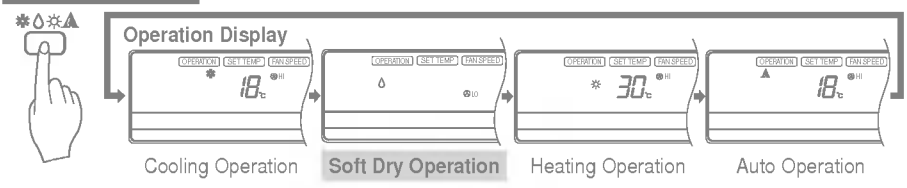
This mode dehumidifies without overcooling.

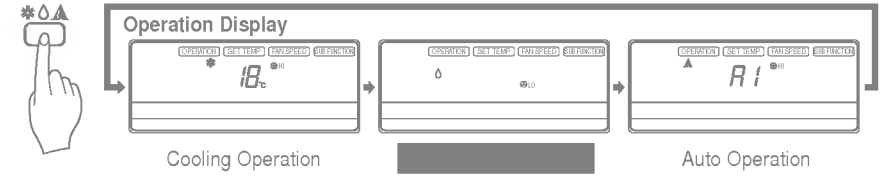
**1** Press the On/Off Button.



**2** Select Soft Dry Operation.

Press the operation Mode Selection Button.
Each time the button is pressed, the operation mode is shifted in the arrow direction.




**3** During Dry Operation.

- The indoor fan speed is automatically set to the low, so the shift of the indoor fan speed is impossible because of already being set to the best speed for Dry Operation by Micom Control.

## 3 Heating Operation Mode (Heat pump model only)

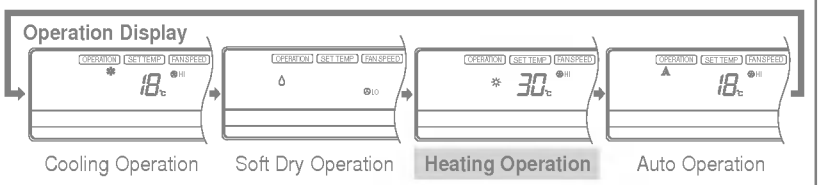
**1** Press the On/Off Button.



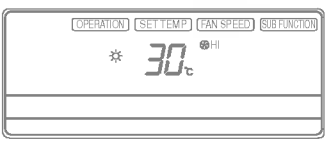
**2** Select Heating Operation.

Press the Operation Mode Selection Button.
Each time the button is pressed, the operation mode is shifted in the arrow direction.

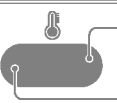





**3** Set the temperature.




- The temperature can be set within a range of 16℃~30℃ by 1℃.



To raise the Temperature.

To lower the Temperature.

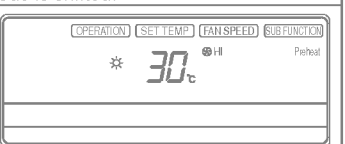
**4** Set the fan speed.



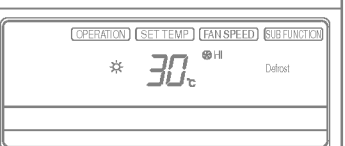



- Select the fan speed in three steps
  - high, low, medium.
- The display shows high fan speed
- Each time the button is pressed, the fan speed mode is shifted.

**5** This air-conditioner is set to the hot start control in order not to discharge the cold air during the heating operation. This time, the remote controller indicates 'Preheat'.

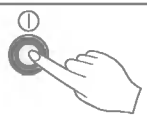



**6** If the outdoor temperature is too low during the heating operation, this air-conditioner is set to the defrosting operation and the remote controller indicates 'Defrost'.



## 4 Auto Operation Mode

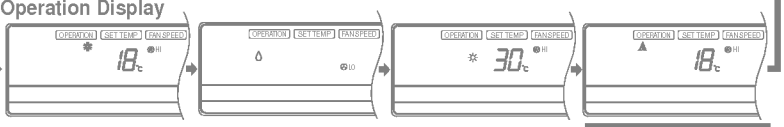
**1** Press the On/Off Button.



**2** To select **Auto Operation**, press the Operation Mode Selection button.
Each time the button is pressed, the operation mode is shifted in the direction of the arrow.



Operation Display




Cooling Operation | Soft Dry Operation | Heating Operation



Operation Display

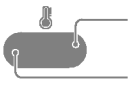



Cooling Operation | Soft Dry Operation

**3**

Set the temperature lower than the room themperature.
The temperature can be set within a range of 18˚C ~ 30˚C by 1˚C.

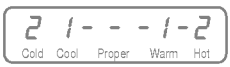


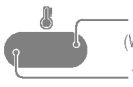




Set the temperature upper or lower than the standard temperature.
The temperature can be set within a range of –2 ~ 2 by 1 level.




(This indication will be shifted to the initial Auto Mode Display state after 4 seconds.)




***During Auto Operation:***

- ❑ You can switch the indoor fan speed.
- ❑ The system will automatically switch from the cooling mode to the heating mode as the room temperature and set temperature.(Heat pump model only)

## 5 FAN Operation

**1** Press the On/Off Button.



**2** Press FAN Operation Button.



**3** Each time Indoor Fan Speed button is pressed, the fan speed mode is shifted in the arrow direction.




• Fan speed is high. • Fan speed is low. • Fan speed is medium.

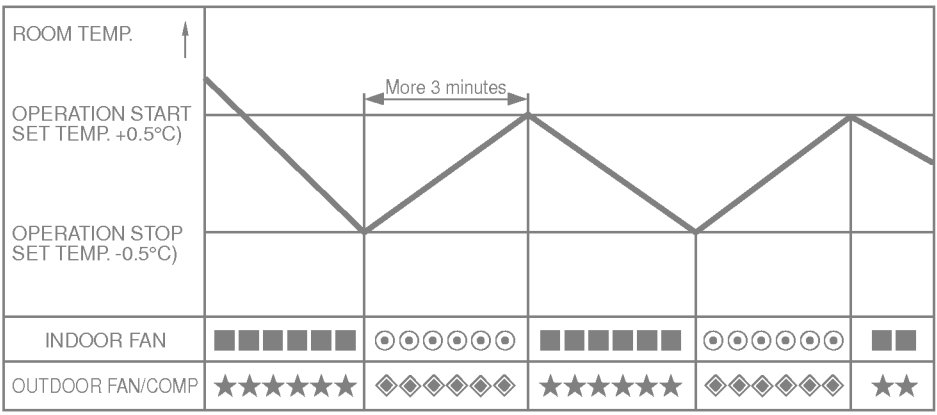
## 6 Electric Heater (ZL Model only)

- On heating mode, Electric Heater is on automatically and pressing Electric Heater Button, Heater is off.
- Mal-functional on Cooling and fan operation mode.
- If Electric Heater is off during Electric Heater running, indoor fan still runs to purge hot air about 1 minute more.
- This is designed to Cool Electric Heater.
- If mode is changed to deice mode during heating mode Electric Heater is off automatically, and run automatically when Heating mode is on again.
- On heating mode, Heater is off in case room temperature is higher than set temperature by 1℃, and run again in case room temperature is lower than set temperature by 2℃.

## Operation Details

### • Cooling Operation Mode

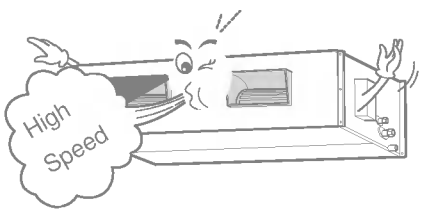
When the room temperature is higher than the set temperature, it operates in cooling mode at the set temperature, the set fan speed, and then it will be in automatically turn off when the room temperature reaches the set temperature +0.5℃.




■ : SETTING FAN SPEED ⦿ : LOW COOL OPERATION ★ : COMP ON ◈ : COMP OFF

### Helpful information

Airflow speed and cooling capacity.
The cooling capacity indicated in the specification is the value when the fan speed is set to high, and the capacity will be lower at low or medium fan speed.
High fan speed is recommended when you wish to cool the room quickly.




## Self-Diagnosis Function

*'CHECK' will flash in the remote controller display when a problem occurs. Then please contact your dealer.*

# Care and maintenance

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

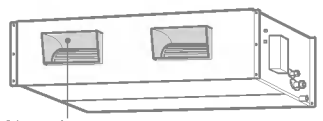
## Indoor Unit

***Grille, Case, and Remote Control***

❑ 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 disconnected before cleaning the indoor unit.*



Air outlet vent

❑ Never use any of the followings:

- Water hotter than 40°C
  Could cause deformation and/or discoloration.
- Volatile substances
  Could damage the surfaces of the air conditioner.

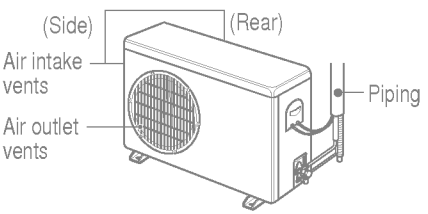


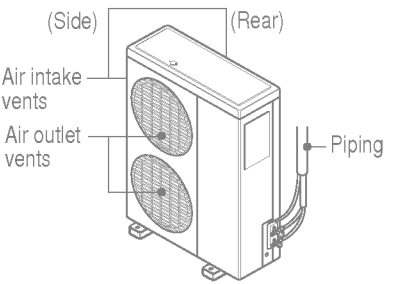

## Outdoor Unit

The heat exchanger coils and panel vents of the outdoor unit should be checked regularly. If clogged with dirt or soot, the heat exchanger and panel vents may be professionally steam cleaned.

***Note:***

*Dirty or clogged coils will reduce the operating efficiency of the system and cause higher operating costs.*



## When the air conditioner is not going to be used for a long time.

1. Operate the air conditioner on Air circulation mode (Refer to page 14) for 2 to 3 hours.
   - This will dry out the internal parts.
2. Turn off the circuit breaker.

**⚠ CAUTION**

**Turn off the circuit breaker when the air conditioner is not going to be used for a long time.**
Dirt may collect and may cause a fire.

■ **Check that the air inlet and outlet of the indoor/outdoor unit are not blocked.**

### Helpful information

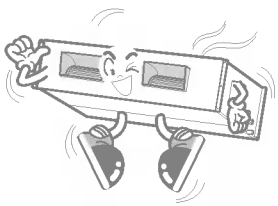
The air filters and your electiric bill.
If the air filters become clogged with dust, the cooling capacity will drop, and 6% of the electricity used to operate the air conditioner will be wasted.

## Operation Tips

**This is not good for the health and wastes electricity.**

**Do not let direct sunshine enter the room when the air conditioner is in operation.**

**Avoid opening doors and windows as much as possible to keep the cool air in the room.**



**Blockages in the air filter reduce the airflow and lower cooling and dehumidifying effects. Clean at least once every two weeks.**

**Since windows are kept closed, it is a good idea to open them and ventilate the room now and then.**

# Before you call for service...

## Troubleshooting Tips! Save time and money!

Check the following points before requesting repairs or service.... If the malfunction persist, please contact your dealer.

| The air conditioner does not operate. | The room has a peculiar odor. | It seems that condensation is occurring. | Air conditioner does not operate for about 3 minutes. |
|---|---|---|---|
| • Have you made a mistake in timer operation?<br>• Has the fuse blown or has the circuit breaker been tripped? | • Check that this is not a damp smell exuded by the walls, carpet, furniture or cloth items in the room. | • Condensation occurs when the airflow from the air conditioner cools the warm room air. | • This is the protector of the mechanism.<br>• Wait about three minutes and operation will begin. |
| **Does not cool or heat effectively.** | **The air conditioner operation is noisy.** | **A click sound is heard.** | **The remote control display is faint or nothing.** |
| • Is the air filter dirty? See air filter cleaning instructions.<br>• The room may have been very hot when the room air conditioner was first turned on. Allow time for it to cool down.<br>• Has the setting temperature been set incorrectly?<br>• Are the indoor unit's air inlet or outlet vents obstructed? | • For a noise that sounds like water flowing.<br>-This is the sound of freon flowing inside the air conditioner unit.<br>• For a noise that sounds like the compressed air releasing into atmosphere.<br>-This is the sound of the dehumidifying water being processed inside the air conditioning unit. | • This sound is generated by the expansion/contraction of the inlet grille, etc. due to changes of temperature. | • Has the circuit breaker been tripped? |



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