



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 maintenance of this unit.
- Contact the installer for installation of this unit.
- The appliance 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 appliance.

**Prior to installation, this air-conditioning unit must be submitted for approval by the utility service which provides electricity (EN 60555-3 Norm).
LB-B(E)608... (EN 60555-2, 60555-3 Norm).**

Safety Precautions

Safety Precautions

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Operating Instructions

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Care and Maintenance

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Troubleshooting tips

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FOR YOUR RECORDS

Write the model and serial numbers here for the indoor and outdoor units:

Indoor model #	Serial #
Outdoor model #	Serial #

You can find them on a label on the side of each unit.

Dealer's Name _____

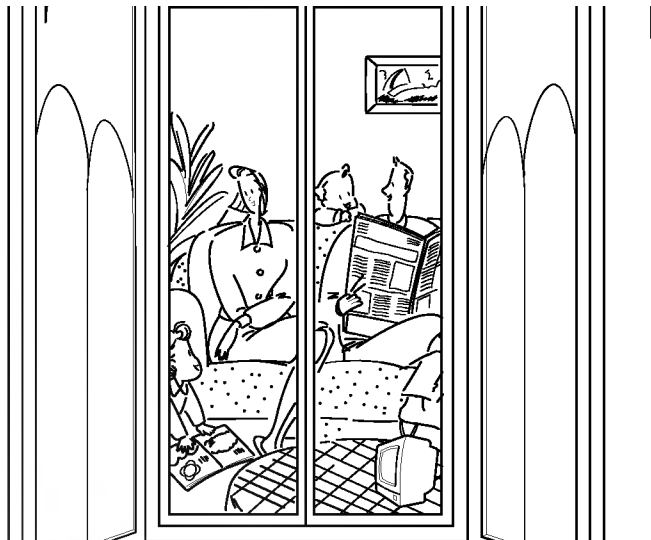
Date Purchased _____

READ THIS MANUAL

- Inside you will find many helpful hints on how to use and maintain your air conditioner properly. Just a little preventive care on your part can save you a great deal of time and money over the life of your air conditioner.
- You'll find many answers to common problems in the chart of troubleshooting tips. If you review our chart of **Troubleshooting Tips** first, you may not need to call for service at all.

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.**



Important safety precautions

Read all instructions before using.

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.

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



Be sure not to do.



Be sure to follow the instruction.



WARNING

- **Do not install, remove and re-install the unit by yourself.**

Improper installation will cause water leakage, electrical shock, or fire. Please consult authorized dealer or specialist for the installation work.



CAUTION

Please confirm the following important points during installing.

- **This room air conditioner must be grounded.**



It may cause electrical shock if grounding is not perfect.

- **Do not install the unit at place where leakage of gas may occur and/or in an explosive atmosphere.**



In case of gas leaks and the gas may accumulate the unit, it may cause fire ignition.

- **Confirm drainage piping is connected properly.**



If it is not connected perfectly, it may cause water leakage and dampen the furniture.

- The reverse cycle system of the air conditioner is based on the air cooling type heat pump which absorbs heated air from the outdoor unit and discharges it indoor.

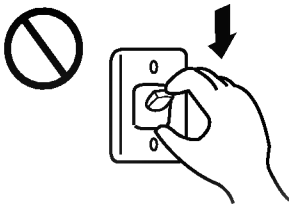
Therefore if the outdoor unit is exposed to very low temperature, specifically below 0°C, the heating capacity drops off rapidly. In this case, we recommend customers don't operate the air conditioner.

OPERATING TEMPERATURE(°C)

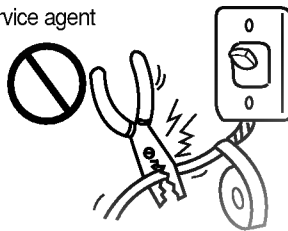
COOLING MODE			
INDOOR		OUTDOOR	
MAX.	MIN.	MAX.	MIN.
32°C	21°C	43°C	21°C
HEATING MODE			
INDOOR		OUTDOOR	
MAX.	MIN.	MAX.	MIN.
27°C	20°C	24°C	1°C

⚠ WARNING

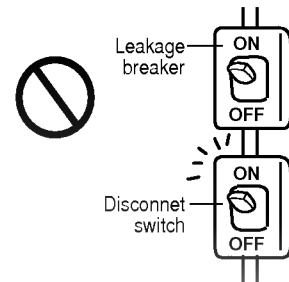
- It will cause electrical shock or fire due to heat generation.



- It will cause electrical shock or fire.
- If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent



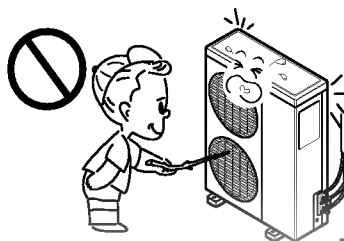
- It will cause electrical shock or fire due to heat generation.



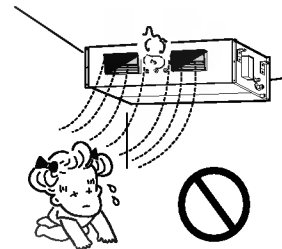
- It will cause electrical shock.



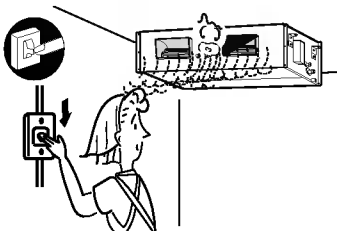
- Since the fan rotates at high speed, this may cause an injury or damage the unit.



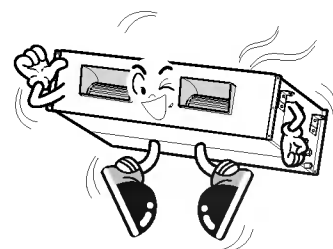
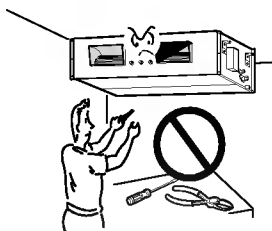
- This could damage your health.



- If the unit continues to operate in an abnormal condition, it may cause fire, damage, etc. In this case, consult your dealer.

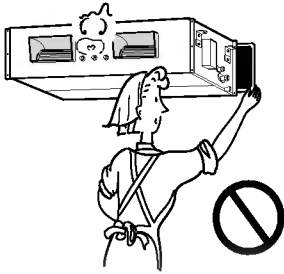


- If this is done incorrectly, it may cause a fire, electric shock, injury by dropping of the unit, water leakage, etc. Consult your dealer.



CAUTION

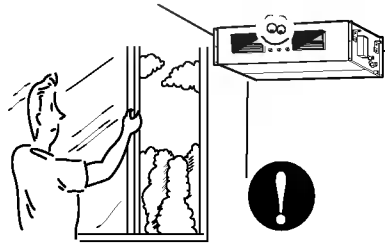
- It may cause an injury.
- Should be disconnected from supply



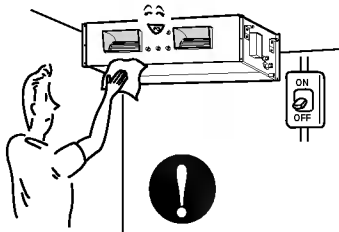
- Water may enter the unit and degrade the insulation. It may cause an electric shock.



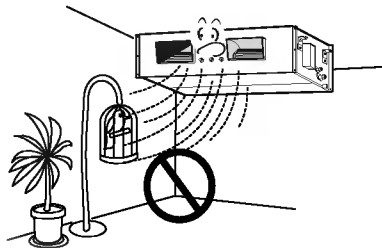
- An oxygen shortage may occur.



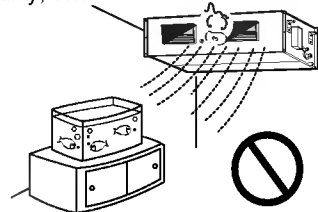
- Since the fan rotates at high speed during operation, it may cause an injury.



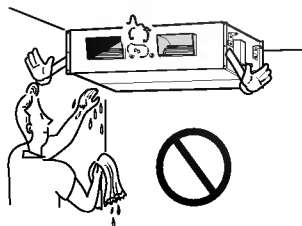
- This could injure the pet or plant.



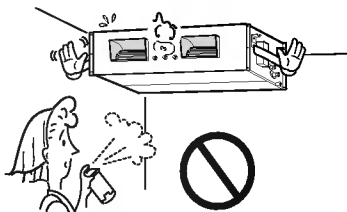
- Do not use this air conditioner to preserve precision devices, food, animal, plants, and art objects. It may cause deterioration of quality, etc.



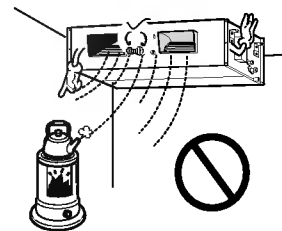
- It may cause an electric shock.



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



- It may affect combustion.



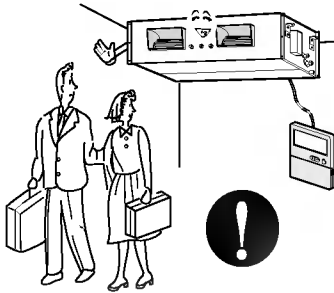
CAUTION

When the unit is not going to be used for a long time, turn off the circuit breaker.

Do not operate for a long time in high humidity, e.g. leaving a door or window open.

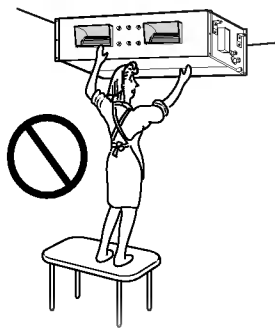
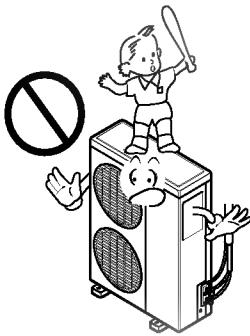
- If not, dirt may collect and cause a fire.

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



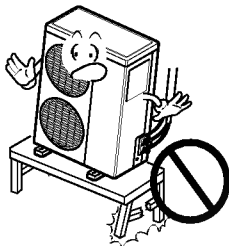
- It may cause an injury through dropping or falling down.

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



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

- It will cause an injury by the heat exchanger.



For installation

WARNING

- Consult your dealer for installing the air conditioner.

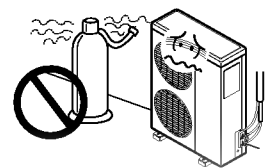
CAUTION

Install a ground fault interrupter depending on the place where the air conditioner is to be installed. (humid place, etc.)

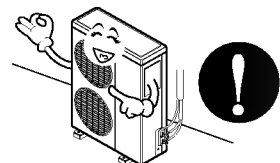
- If the ground fault interrupter is not installed, it may cause an electric shock.



- If gas leaks and collects around the unit, it may cause an explosion.



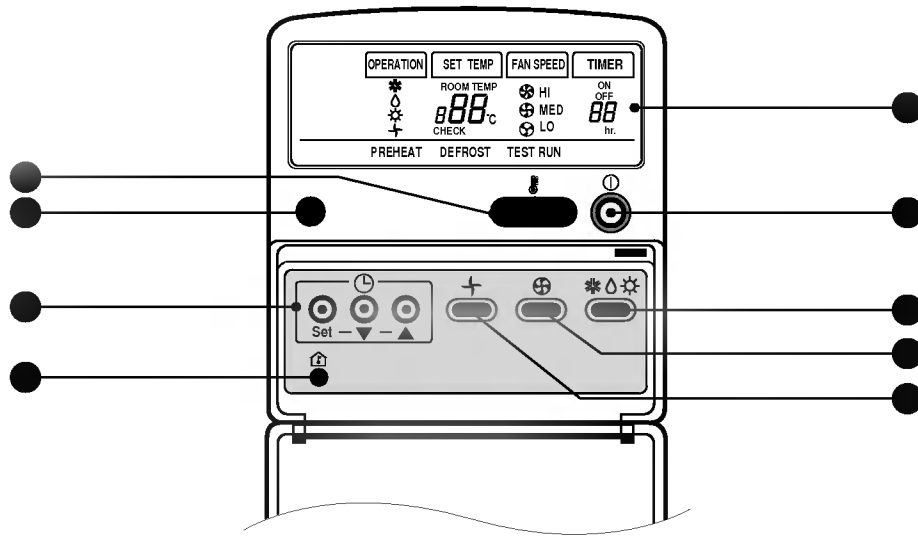
- If the drainage route is incomplete, water may drop from the unit. It may wet and spoil furniture.



About the remote control on the system

The remote control transmits the signals to the system.

Features of the Remote Control- Door Open



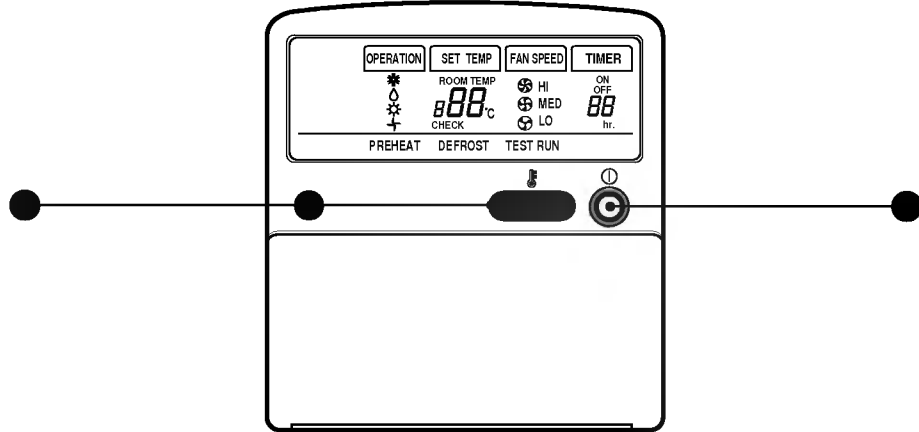
- Operation display**
Displays the operation conditions.
- On/Off Button**
Operation starts when this button is pressed, and stops when the button is pressed again.
- Set Temperature Button**
Used to set the temperature when the desired temperature is obtained.
- FAN Operation Button**
Used to circulate room air without cooling or heating.
- Fan Speed Button**
Used to set the desired fan speed.
- Operation Mode Selection Button**
Used to select the operation mode.
 - Cooling Operation Mode.
 - Soft Dry Operation Mode.
 - Heating Operation Mode.(except cooling model)
- Timer Set Button**
Used to set the timer when the desired time is obtained.
- Room Temperature Checking Button**
Used to check the room temperature.
- Signal Receptor**
Receives the signals from the wireless remote controller.

Safety Precautions

Care and Maintenance

Troubleshooting Tips

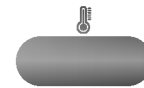
Features of the Remote Control- Door Closed



ON/OFF BUTTON
 Operation starts when this button is pressed and stops when the button is pressed again.

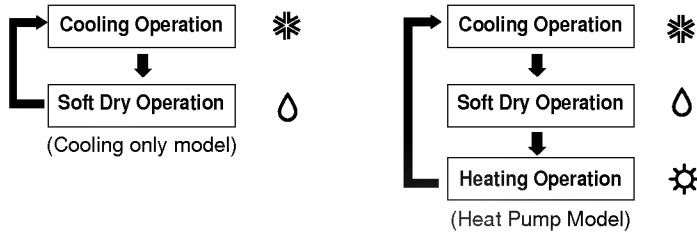


ROOM TEMPERATURE SETTING BUTTONS
 Used to select the room temperature.



Although the air conditioner is turned off by a power failure, it is restarted automatically after a power is supplied again.

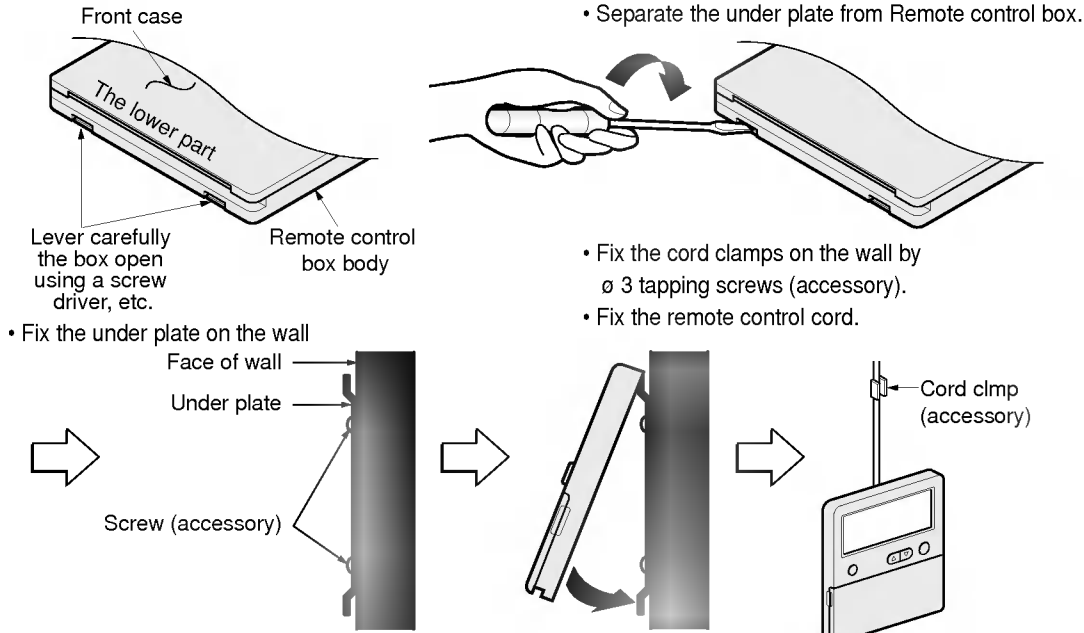
Operation Mode



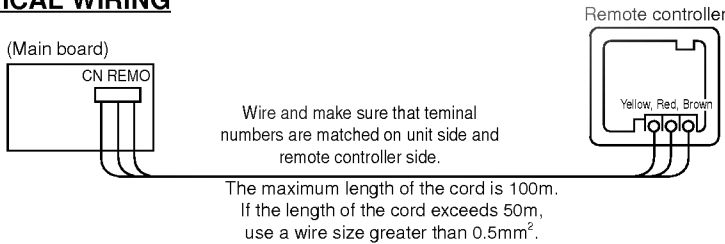
About the remote control on the system

WIRED REMOTE CONTROL INSTALLATION

DISASSEMBLING

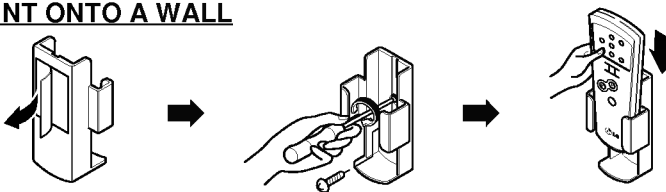


ELECTRICAL WIRING



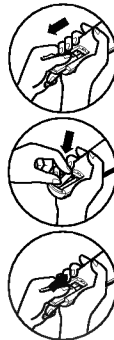
REMOTE CONTROL PREPARATION(OPTION)

HOW TO MOUNT ONTO A WALL



HOW TO INSERT BATTERIES

- Remove the battery cover from the remote controller.
- Slide the cover according to the arrow direction.
- Insert the two batteries.
- Be sure that the (+) and (-) directions are correct.
 - Be sure that both batteries are new.
- Re-attach the cover.
- Slide it back into position.



- Do not use rechargeable batteries, such batteries differ from standard dry cells in shape, dimensions, and performance.
- Remove the batteries from the remote controller if the air conditioner is not going to be used for some long time.

Safety Precautions

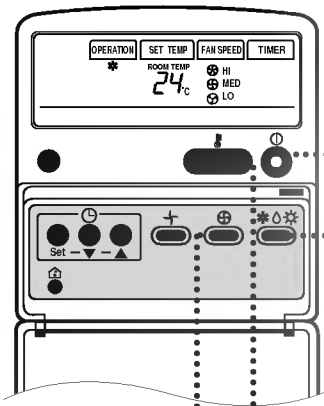
Care and Maintenance

Troubleshooting Tips

How to use the Operation Mode Selection button



Cooling Operation

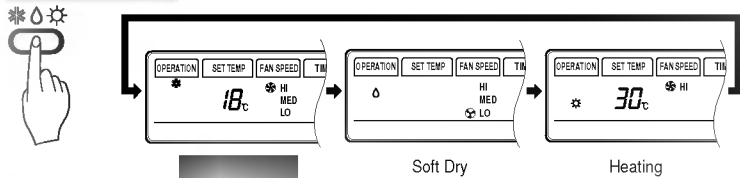


1 Press the ON/OFF button.

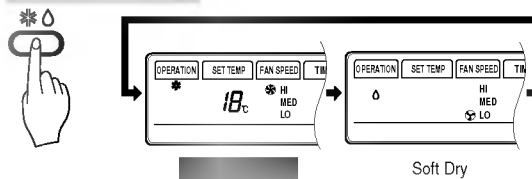


2 Open the door on the remote control. To select **Cooling** operation, press the Operation Mode Selection button. Each time the button is pressed, the operation mode is shifted in the direction of the arrow.

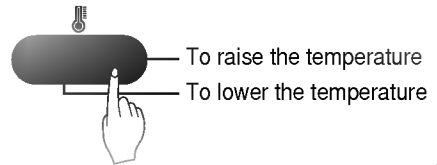
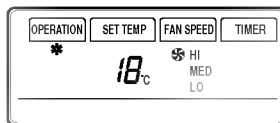
HEAT PUMP MODEL



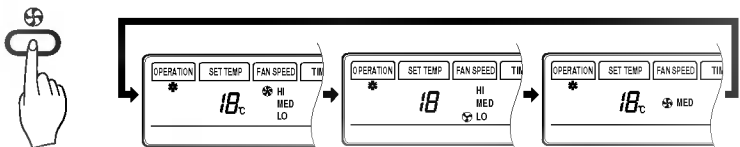
COOLING ONLY MODEL



3 Set the temperature lower than the room temperature. The temperature can be set within a range of 18°C~30°C in 1°C increments.



4 You can select the fan speed in three steps-HI(High), LO(Low), MED(Medium). Each time the button is pressed, the fan speed mode is shifted.





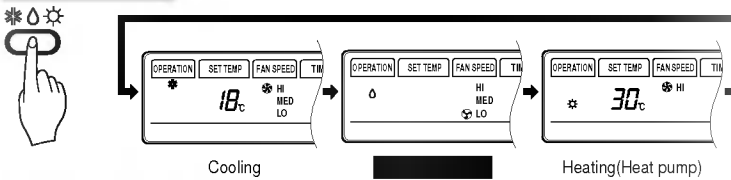
Soft Dry Operation

1 Press the ON/OFF button.

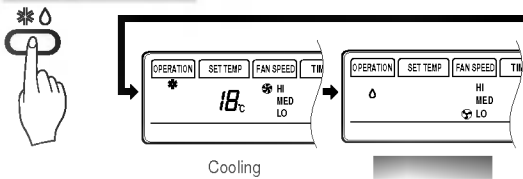


2 Open the door on the remote control. To select **Soft Dry** operation, press the Operation Mode Selection button. Each time the button is pressed, the operation mode is shifted in the direction of the arrow.

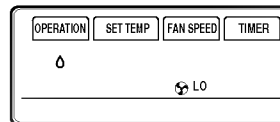
HEAT PUMP MODEL



COOLING ONLY MODEL

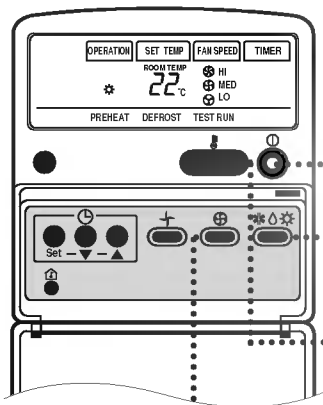


3 The indoor fan speed is automatically set to the low, so the shift of the indoor fan speed is impossible because of already being set to the best speed for Dry operation by Micom Control.





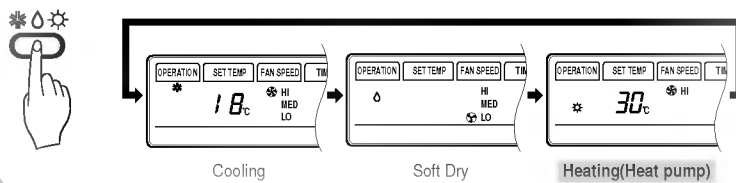
Heating Operation(Heat pump model only)



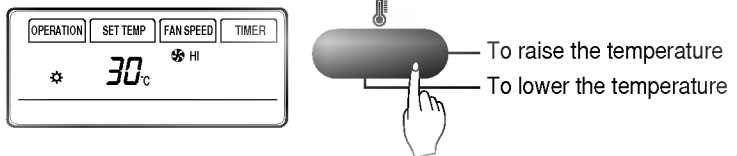
1 Press the ON/OFF button.



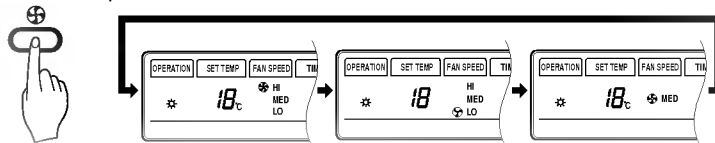
2 Open the door on the remote control. To select **Heating** operation, press the Operation Mode Selection button. Each time the button is pressed, the operation mode is shifted in the direction of the arrow.



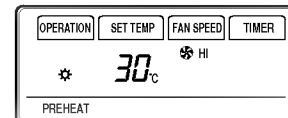
3 Set the temperature higher than the room temperature. The temperature can be set within a range of 16°C~30°C in 1°C increments.



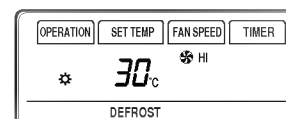
4 You can select the fan speed in three steps—HI(High), LO(Low), MED(Medium). Each time the button is pressed, the fan speed mode is shifted.



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'.



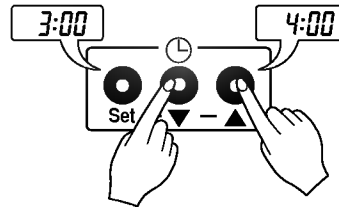
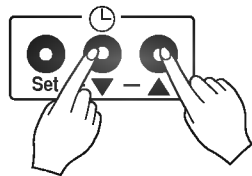
6 If the outdoor temperature is too low during the heating operation, this air-conditioner is set to the defrosting operation and the remote controller indicates 'DEFROST'.



Additional features

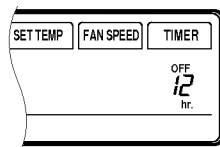
Delay Start/Pre-Set Stop

- Make sure the time is set correctly on the remote control display.
- Press the Time Setting buttons until the desired time is set.
- Press the Set. Timer buttons to turn Timer on or off.

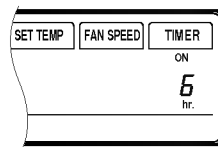


To cancel the setting the timer.
If you want to cancel the timer Set mode, press again the Set button.

NOTE: Select one of the following two types of operation.



Delay OFF Timer



Delay ON Timer

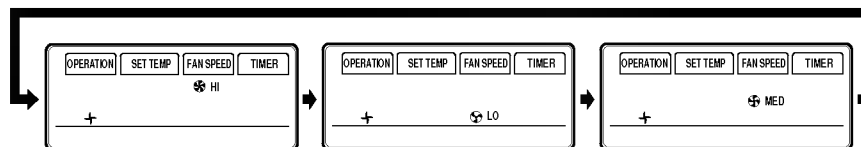
If the settings are cancelled by a power failure.

Press the On/Off Button, and then set the timer again as desired time according to Timer Setting Procedure.

Air Circulation Mode

Circulates the room air without cooling or heating.

- Press the ON/OFF button. the unit will respond.
- Open the door on the remote control. Press the Fan button. Now each time that you press the Fan Speed Selector, the fan speed is shifted from High to Low and shifted from Low to Medium and back to High again.



Fan speed is on high.

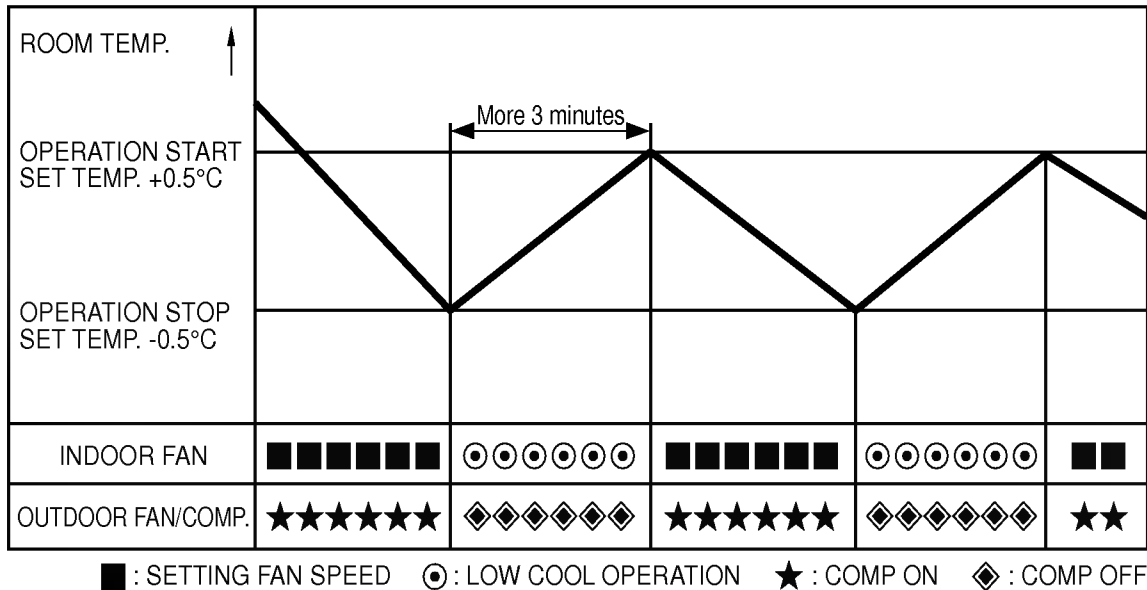
Fan speed is on low.

Fan speed is on medium.

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°C.

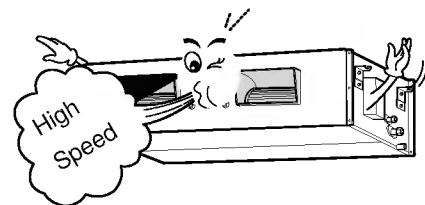


Helpful information

Fan 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-Diagnoses Function

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

Optional Function

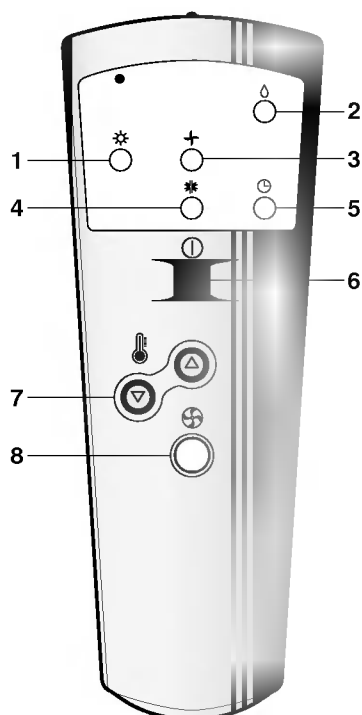
• Wireless Remote Controller

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 room air conditioner.



- ∠A **Heating Operation Button**
(Heat pump model only)
- ∠B **Soft Dry Operation Button**
Used to dehumidify without overcooling.
- ∠C **FAN Operation Button**
Used to circulate room air without cooling or heating.
- ∠D **Cooling Operation Button**
- ∠E **Timer Set Button**
Used to set the timer when the desired time is obtained.
Then the wired remote controller is set to 24 hours by an hour but the wireless remote controller is set to 7 hours by an hour. Therefore, if you want to set over 7 hours, use the wired remote controller.
- ∠F **On/Off Button**
Operation starts when this button is pressed, and stops when the button is pressed again.
- ∠G **Set Temperature Button**
Used to set the temperature when the desired temperature is obtained.
- ∠H **Fan Speed Button**
Used to set the desired fan speed.

CAUTION

of handling the Remote Controller

- Aim at the signal receptor on the room air conditioner 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)

• Air-filter Checking Function

'FILTER' will display in the remote controller display when an air filter is polluted. Then clean the air-filter for reference to Owner's Manual.(page 16)

Care and maintenance

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

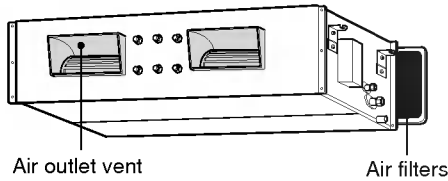
Indoor Unit

Grille, Case, and Remote Control

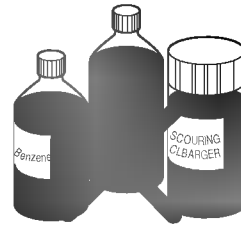
- Turn the system off before cleaning. To clean, wipe with a soft, dry cloth. Do not use bleach or abrasives.

NOTE:

Supply power must be disconnected before cleaning the indoor unit.

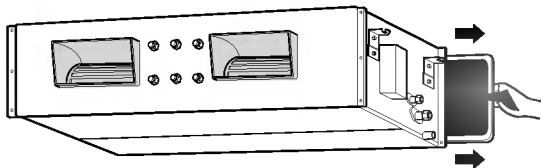


- Never use any of the followings:
 - Water hotter than 40 °C
Could cause deformation and/or discoloration.
 - Volatile substances
Could damage the surfaces of the air conditioner.



Air Filters

The air filters behind Indoor unit (the suction side) should be checked and cleaned once every 2 weeks or more often if necessary.



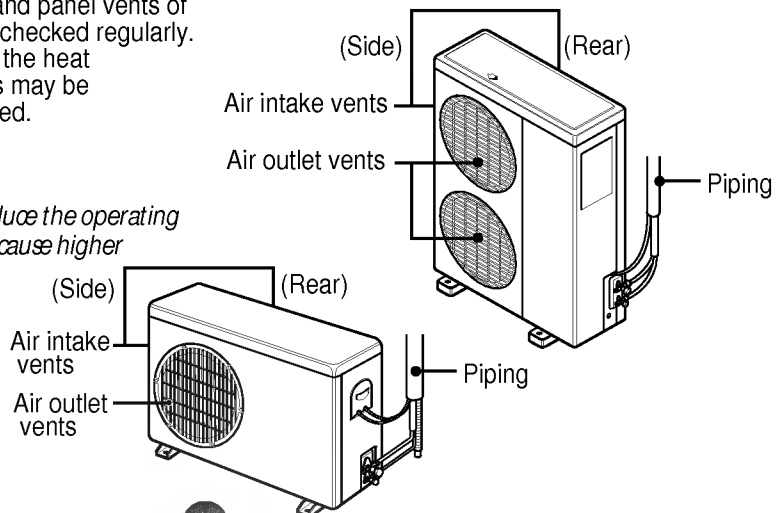
- Open the front grille and pull the filter tab slightly upward to remove the filter.
- Clean the filter with a vacuum or warm, soapy water.
 - If very dirty, wash with a solution of detergent in lukewarm water.
 - If hot water (50 °C or more) is used, filter may be deformed.
- After washing with water, dry well in the shade.
- Re-install the air filter.

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.

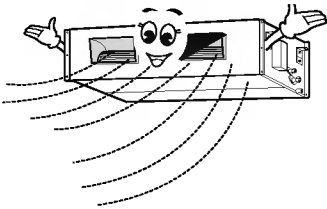
NOTE:

Dirty or dogged 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 13) for 2 to 3 hours.



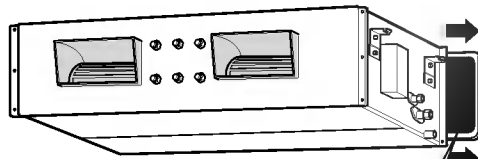
- This will dry out the internal parts.

- 2 Turn off the circuit breaker.



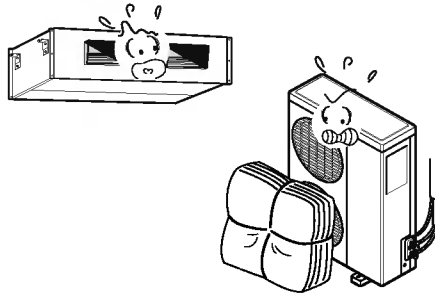
Turn off the circuit breaker when the air conditioner is not going to be used for a long time. Dirt may collect and may cause a fire.

- 1 Clean the air filter and re-install it in the indoor unit. (Refer to page 16 for cleaning filters.)



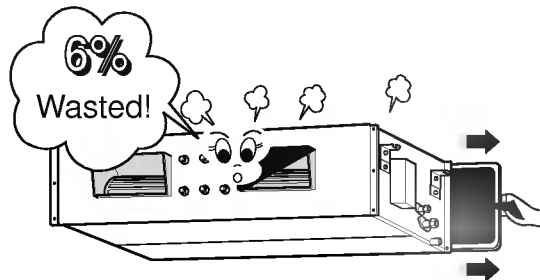
Clean it before installing.

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



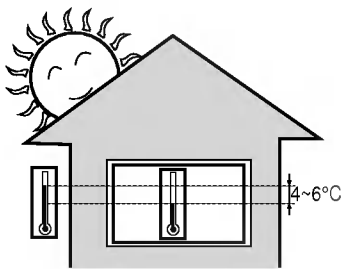
Helpful information

The air filters and your electric 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.

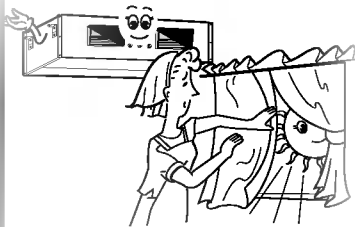


Operation Tips

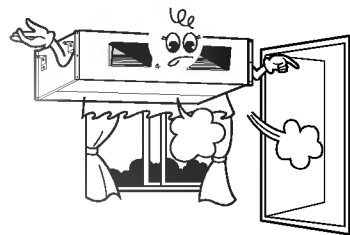
This is not good for your health and wastes electricity.



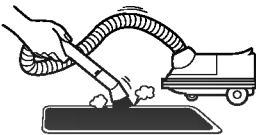
Do not let direct sunshine enter the room when the air conditioner is in operation.



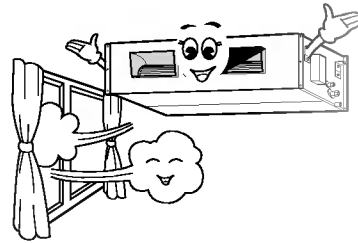
Avoid opening doors and windows as much as possible to keep the cool air in the room..



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




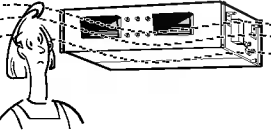


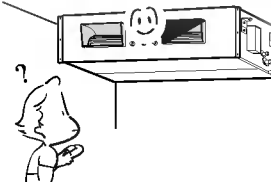



Since windows are kept closed, it is a good idea to open them and ventilate the room now and then.



Before you call for service...

Troubleshooting Tips! Save time and money!

Check the following points before requesting repairs or service.... If the fault persists, please contact your dealer or service center.

 <ul style="list-style-type: none"> • Have you made a mistake in timer operation? • Has the fuse blown or has the circuit breaker been tripped? 	 <ul style="list-style-type: none"> • Check that this is not a damp smell exuded by the walls, carpet, furniture, or cloth items in the room. 	 <ul style="list-style-type: none"> • Condensation occurs when the airflow from the air conditioner cools the warm air of the room. 	 <ul style="list-style-type: none"> • This is the Protection device of the air conditioner . • Wait about three minutes and operation will begin.
 <ul style="list-style-type: none"> • Is the air filter dirty? See air filter cleaning instructions. (Refer to page 16) • The room may have been very hot when the room air conditioner was first turned on. Allow time for it to cool down. • Has the setting temperature been set incorrectly? • Are the indoor unit's air inlet or outlet vents obstructed? 	 <ul style="list-style-type: none"> • For a noise that sounds like water flowing. -This is the sound of freon flowing inside the air conditioner unit. • For a noise that sounds like the compressed air releasing into atmosphere. -This is the sound of the dehumidifying water being processed inside the air conditioner unit. 	 <ul style="list-style-type: none"> • Has the circuit breaker been tripped? 	 <ul style="list-style-type: none"> • This sound is generated by the expansion/contraction of the inlet grille, etc. due to changes of temperature.

NOTE

WATER RESISTANT: The outdoor side of this appliance is WATER RESISTANT. The indoor side is not water resistant and should not be exposed to excess water.

Safety Precautions

Operating Instructions

Care and Maintenance

Troubleshooting Tips



