website http://www.lgservice.com
e-mail http://www.lgeservice.com/techsup.html

LG

LG Ceiling Duct-Type Air Conditioner

OWNER'S MANUAL

IMPORTANT

- **Please read this owner's manual carefully and thoroughly before installing and operating your room air conditioner.**
- **Please retain this owner's manual for future reference after reading it thoroughly.**

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FOR YOUR RECORDS

Write the model and serial numbers here:

Model #

Serial #

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

Dealer's Name

Date Purchased

■ Staple your receipt to this page in the event you need it to prove date of purchase or for warranty issues.

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.

PRECAUTION

- **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 invalids without supervision.**
- **Young children should be supervised to ensure that they do not play with the air conditioner.**
- **When the power cord is to be replaced, replacement work shall be performed by authorized personnel only using only genuine replacement parts.**
- **Installation work must be performed in accordance with the National Electric Code by qualified and authorized personnel only.**



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 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.

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

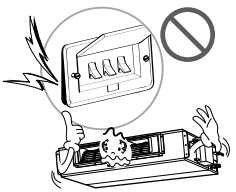
⚠	**Be sure not to do.**
❗	**Be sure to follow the instruction.**

⚠WARNING

■ Installation

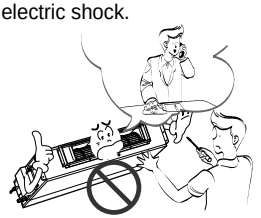
Do not use a defective or underrated circuit breaker. Use this appliance on a dedicated circuit.

• There is risk of fire or electric shock.



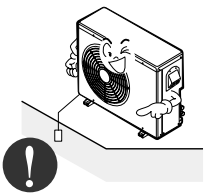
For electrical work, contact the dealer, seller, a qualified electrician, or an Authorized Service Center.

• Do not disassemble or repair the product. There is risk of fire or electric shock.



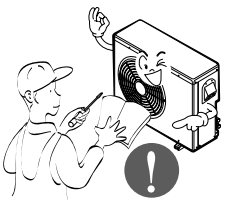
Always ground the product.

• There is risk of fire or electric shock.



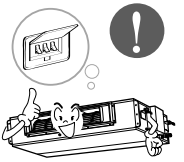
Install the panel and the cover of control box securely.

• There is risk of fire or electric shock.



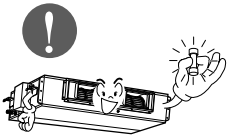
Always install a dedicated circuit and breaker.

• Improper wiring or installation may cause fire or electric shock



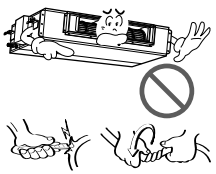
Use the correctly rated breaker or fuse.

• There is risk of fire or electric shock.



Do not modify or extend the power cable.

- There is risk of fire or electric shock.



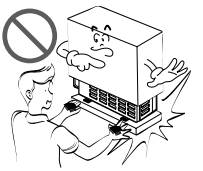
Do not install, remove, or re-install the unit by yourself (customer).

- There is risk of fire, electric shock, explosion, or injury.



Be cautious when unpacking and installing the product.

- Sharp edges could cause injury. Be especially careful of the case edges and the fins on the condenser and evaporator.



For installation, always contact the dealer or an Authorized Service Center.

- There is risk of fire, electric shock, explosion, or injury.



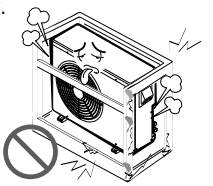
Do not install the product on a defective installation stand.

- It may cause injury, accident, or damage to the product.



Be sure the installation area does not deteriorate with age.

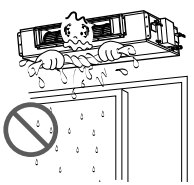
- If the base collapses, the air conditioner could fall with it, causing property damage, product failure, and personal injury.



■ Operation

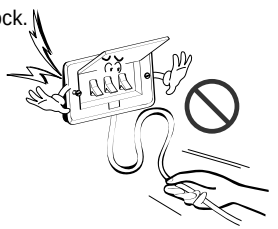
Do not let the air conditioner run for a long time when the humidity is very high and a door or a window is left open.

- Moisture may condense and wet or damage furniture.



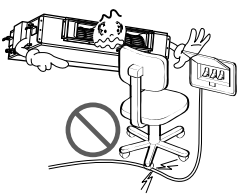
Take care to ensure that power cable could not be pulled out or damaged during operation.

- There is risk of fire or electric shock.



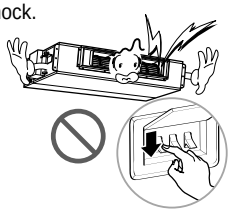
Do not place anything on the power cable.

- There is risk of fire or electric shock.



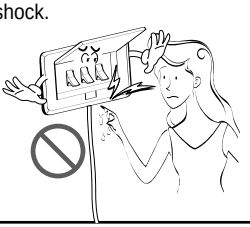
Do not plug or unplug the power supply plug during operation.

- There is risk of fire or electric shock.



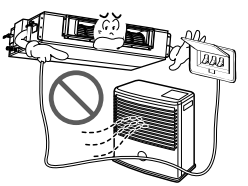
Do not touch(operate) the product with wet hands.

- There is risk of fire or electrical shock.



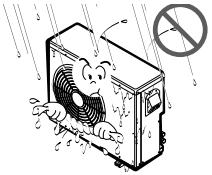
Do not place a heater or other appliances near the power cable.

- There is risk of fire and electric shock.



Do not allow water to run into electric parts.

- It may cause There is risk of fire, failure of the product, or electric shock.



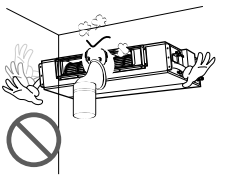
Do not store or use flammable gas or combustibles near the product.

- There is risk of fire or failure of product.



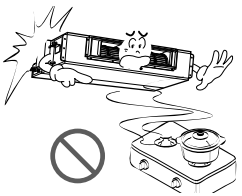
Do not use the product in a tightly closed space for a long time.

- Oxygen deficiency could occur.



When flammable gas leaks, turn off the gas and open a window for ventilation before turn the product on.

- Do not use the telephone or turn switches on or off.
  There is risk of explosion or fire



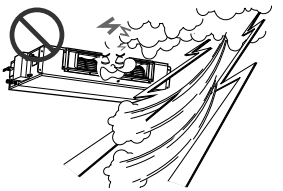
If strange sounds, or small or smoke comes from product. Turn the breaker off or disconnect the power supply cable.

- There is risk of electric shock or fire.



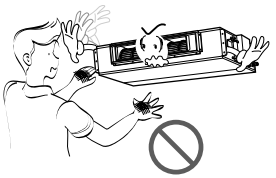
Stop operation and close the window in storm or hurricane. If possible, remove the product from the window before the hurricane arrives.

- There is risk of property damage, failure of product, or electric shock.



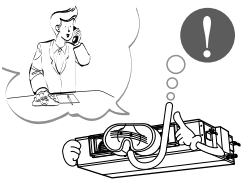
Do not open the inlet grill of the product during operation. (Do not touch the electrostatic filter, if the unit is so equipped.)

- There is risk of physical injury, electric shock, or product failure.



When the product is soaked (flooded or submerged), contact an Authorized Service Center.

- There is risk of fire or electric shock.



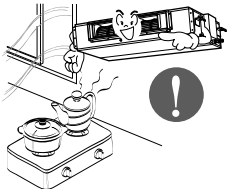
Be cautious that water could not enter the product.

- There is risk of fire, electric shock, or product damage.



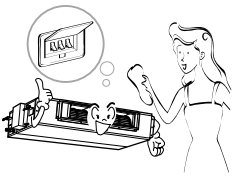
Ventilate the product from time to time when operating it together with a stove, etc.

- There is risk of fire or electric shock.



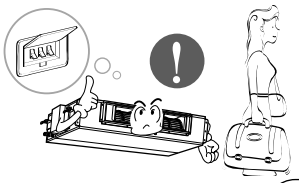
Turn the main power off when cleaning or maintaining the product.

- There is risk of electric shock.



When the product is not be used for a long time, disconnect the power supply plug or turn off the breaker.

- There is risk of product damage or failure, or unintended operation.



Take care to ensure that nobody could step on or fall onto the outdoor unit.

- This could result in personal injury and product damage.

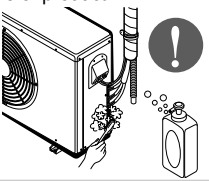


⚠CAUTION

■ Installation

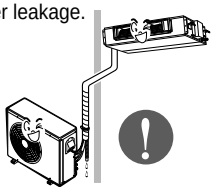
Always check for gas (refrigerant) leakage after installation or repair of product.

- Low refrigerant levels may cause failure of product.



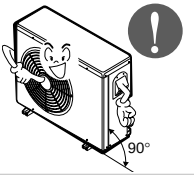
Install the drain hose to ensure that water is drained away properly.

- A bad connection may cause water leakage.



Keep level even when installing the product.

- To avoid vibration or water leakage.



Do not install the product where the noise or hot air from the outdoor unit could damage the neighborhoods.

- It may cause a problem for your neighbors.



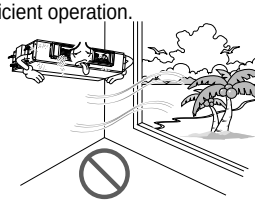
Use two or more people to lift and transport the product.

- Avoid personal injury.



Do not install the product where it will be exposed to sea wind (salt spray) directly.

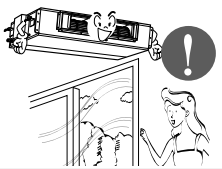
- It may cause corrosion on the product. Corrosion, particularly on the condenser and evaporator fins, could cause product malfunction or inefficient operation.



■ Operation

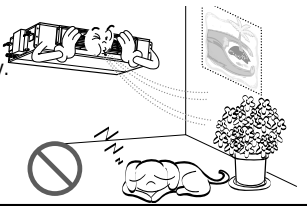
Do not expose the skin directly to cool air for long periods of time. (Don't sit in the draft.)

- This could harm to your health.



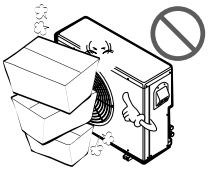
Do not use the product for special purposes, such as preserving foods, works of art, etc. It is a consumer air conditioner, not a precision refrigeration system.

- There is risk of damage or loss of property.



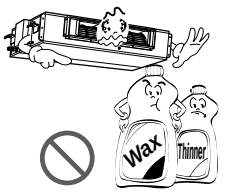
Do not block the inlet or outlet of air flow.

• It may cause product failure.



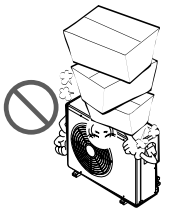
Use a soft cloth to clean. Do not use harsh detergents, solvents, etc.

• There is risk of fire, electric shock, or damage to the plastic parts of the product.



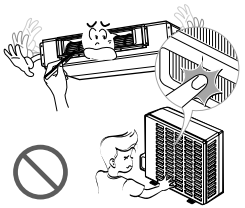
Do not step on or put anyting on the product. (outdoor units)

• There is risk of personal injury and failure of product.



Do not insert hands or other objects through the air inlet or outlet while the product is operated.

• There are sharp and moving parts that could cause personal injury.



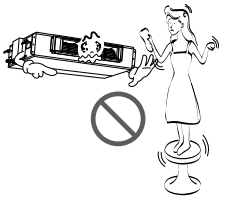
Do not drink the water drained from the product.

• It is not sanitary and could cause serious health issues.



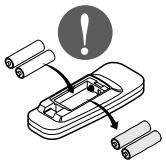
Use a firm stool or ladder when cleaning or maintaining the product.

• Be careful and avoid personal injury.



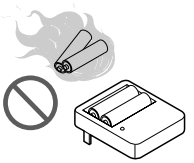
Replace the all batteries in the remote control with new ones of the same type. Do not mix old and new batteries or different types of batteries.

• There is risk of fire or explosion



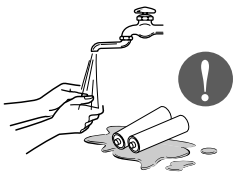
Do not recharge or disassemble the batteries. Do not dispose of batteries in a fire.

• They may burn or explode.



If the liquid from the batteries gets onto your skin or clothes, wash it well with clean water. Do not use the remote if the batteries have leaked.

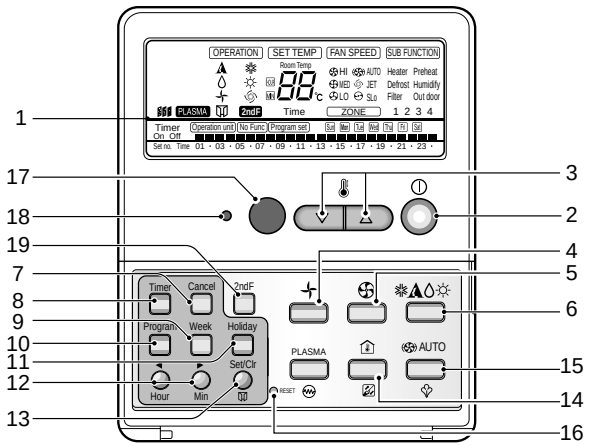
• The chemicals in batteries could cause burns or other health hazards.



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. Fan Speed Button
Used to set desired fan speed.

6. 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)

7. Timer Cancel Button
Used to cancel the timer.

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

9. Week Button
Used to set a day of the week.

10. Program Button
Used to set the weekly timer.

11. Holiday Button
Used to set a holiday of the week.

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

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

14. Room Temperature Checking Button
Used to check the room temperature.

15. Auto Function Button

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

17. Wireless Remote Controller Receiver

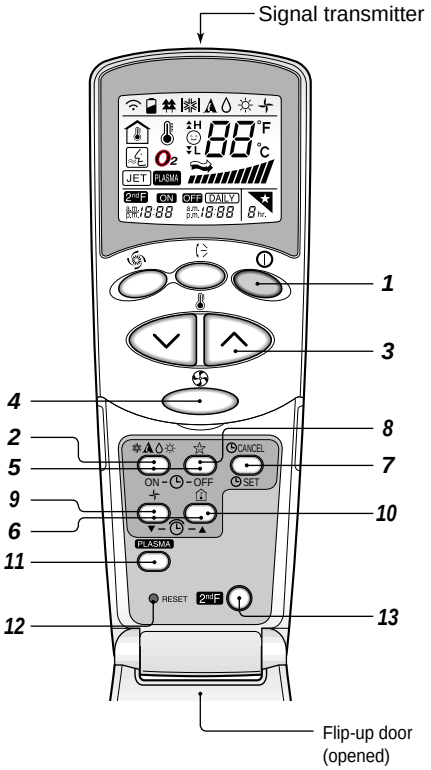
18. Oeration Indicator

19. 2nd Function Button

✺ Display temperature can be different from actual room temperature if the remote controller is installed at the place where sun-rays are falling directly or the place nearby heat source.

Wireless Remote Controller (optional)

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.



1. START/STOP BUTTON
Operation starts when this button is pressed and stops when the button is pressed again.

2. OPERATION MODE SELECTION BUTTON
Used to select the operation mode.

3. ROOM TEMPERATURE SETTING BUTTONS
Used to select the room temperature.

4. INDOOR FAN SPEED SELECTOR
Used to select fan speed in four steps low, medium, high and CHAOS.

5. ON/OFF TIMER BUTTONS
Used to set the time of starting and stopping operation.

6. TIME SETTING BUTTONS
Used to adjust the time.

7. TIMER SET/CANCEL BUTTON
Used to set the timer when the desired time is obtained and to cancel the Timer operation.

8. SLEEP MODE AUTO BUTTON
Used to set Sleep Mode Auto operation.

9. AIR CIRCULATION BUTTON
Used to circulate the room air without cooling or heating.

10. ROOM TEMPERATURE CHECKING BUTTON
Used to check the room temperature.

11. PLASMA(OPTIONAL)
Used to start or stop the plasma-purification function.

12. RESET BUTTON
Initialize remote controller.

13. 2nd F Button
Used prior to using modes printed in blue at the bottom of buttons.

✵ The wireless remote controller do not operate the swirl mode.

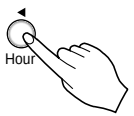
CAUTION:of handling the Remote Controller

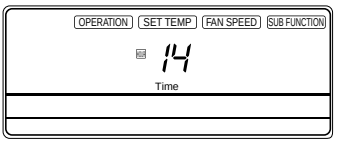
- **Aim at the signal receiver on the wired remote controller so as to operate.**
- **The remote control signal can be received at a distance of up to about 7m.**
- **Be sure that there are no obstructions between the remote controller and the signal receptor.**
- **Do not drop or throw the remote controller.**
- **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.

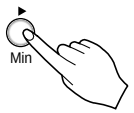
Each time the button is pressed, the number is changed from 00 to 23.
You can set the number of the current hour.

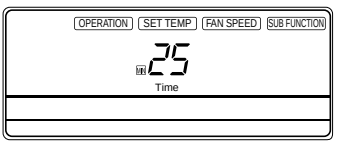




2 Press the ' Min ' button.

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

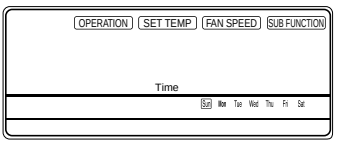




3 Press ' Week ' button.

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.

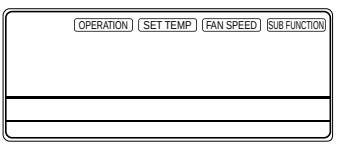




4 Press the ' RESET ' button.

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



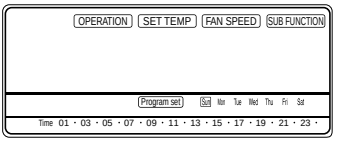


Weekly Programming

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.

Press Week button repeatedly until desired mode appears.



For example, if you want Thu, press Week button 4 times.

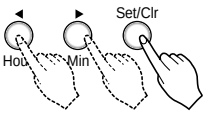
3 Select the time you want.

Press Hour or Min button, then blinking letter is shown.

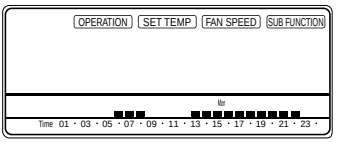
If you press Set/Clr button, then ' ▪ ' shape appears.

' ▪ 05 ' shape means that five o'clock is reserved.

Using below buttons, you can reserve time.



* For example, the air-conditioner is on 6,7,8 and 13~22 o'clock.

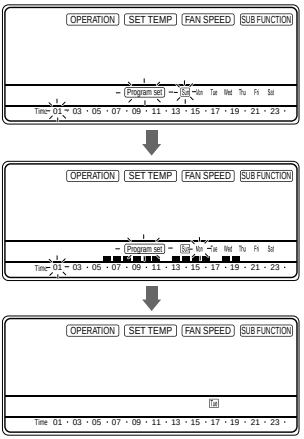


4 Press the Program button again to finish weekly programmining.



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 Tuesday.



3 Press the Holiday button.



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

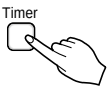
❋ You cannot set the weekly program for a holiday.

4 Press the Program button again to finish holiday setting.

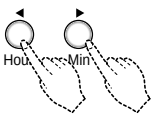
Timer Setting

This function is used to set either ON or Off interval once in 24 hrs since the setting was done.
The unit will automatically operate as per the settings.

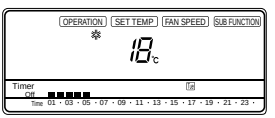
1 Press the Timer button.



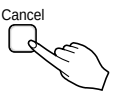
2 Using Hour & Min buttons, change the timer setting until the desired time is set.



e.g. The unit is turned off after 5 hrs



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



Auto Restart Function

In case the power comes on again after a power failure, Auto Restarting Operation function automatically operates the unit to the previous operating conditions.

Operation Cycle

(Heat Pump Model)

- Cooling Mode
- Soft Dry Mode
- Heating Mode
- Auto Mode

(Cooling Model)

- Cooling Mode
- Soft Dry Mode
- Auto Mode

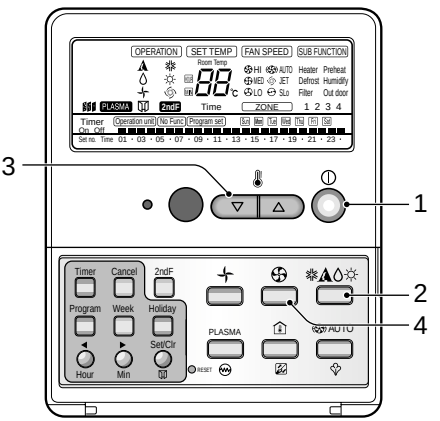
Operation Procedure

1st On/Off Button

2nd Operation Mode Selection Button

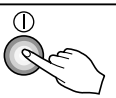
3rd Room Temperature Setting Button

4th Indoor Fan Speed Selection Button



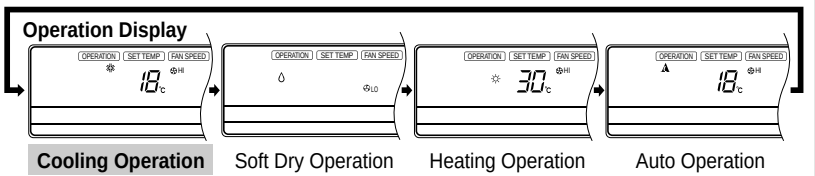
Operation Mode

1 Press the On/Off Button.



2 Select the desired Operation.
Press the Operation Mode Selection Button.
Each time the button is pressed, the operation mode is shifted as shown in the arrow direction.

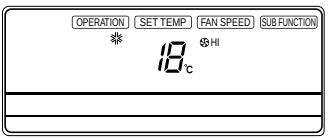




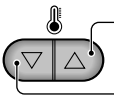
Auto Operation (Cooling Only Model)
Auto Changeover (Heat Pump Model)

Cooling/Heating Operation Mode

3 Set the desired temperature.

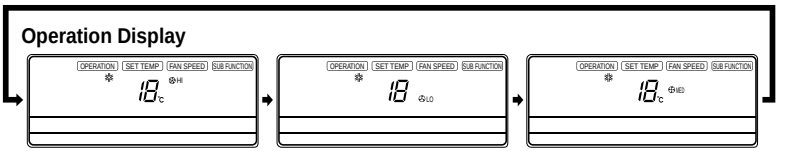


Cooling Mode
Setting temperature range is 18~30°C
Heating Mode
Setting temperature range is 16~30°C



4 Set the fan speed.

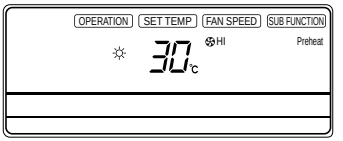




- Select the fan speed in three steps- high, low, medium.
- The display shows high fan speed.
- Each time the button is pressed, the fan speed mode is shifted.

For Heat Pump Models only

5 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'.



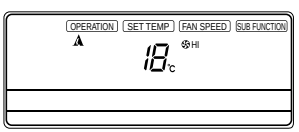
Soft Dry Operation Mode

6 Soft Dry Operation is used to remove the humidity softly without overcooling the room specially when the humidity is already low.
The indoor fan speed is automatically set to the low, so it can't be changed as it is already being set to the best speed for Soft Dry Operation by Micom Control.

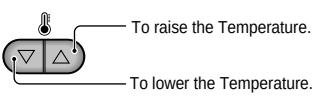
Auto Operation Mode(Heat Pump/Cooling Models)

7

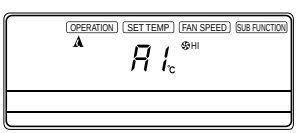
HEAT PUMP MODEL



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

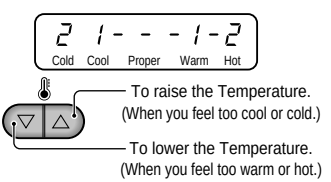


COOLING MODEL



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

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



During Auto Operation:

- ❑ You can switch the indoor fan speed.
- ❑ In case of heat Pump Models, the system will automatically switch from the cooling mode to the heating mode as the room temperature and set temperature.(Auto changeover)

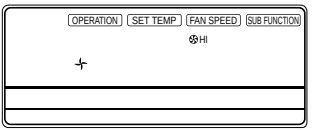
FAN Operation

1 Press the On/Off Button.



2 Press FAN Operation Button.

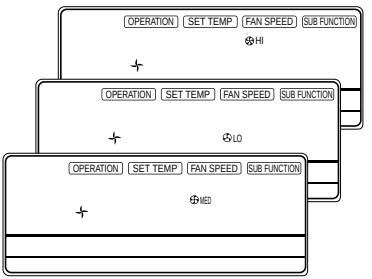




3 Each time Indoor Fan Speed button is pressed, the fan speed mode is shifted as shown below.



- **Fan speed is Hi**
- **Fan speed is Low**
- **Fan speed is Medium**



Self-diagnosis Function

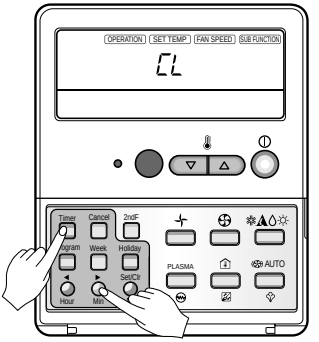
This unit has an inbuilt error diagnosis capability.
CH will flash in the wired remote controller display when any problem occurs.
Please contact your Serviceman/Dealer in such a situation

Remote controller LCD	Check Point
CH 01	Indoor room temperature thermistor error
CH 02	Indoor piping thermistor error
CH 03	Indoor main body / Remote controller unit communication error
CH 04(Optional)	Water level float switch error

Child Lock Function

This is the Function that any children cannot used to the air-conditioner.

Operation procedure



1 ***To set the Child-Lock Function***

Press the Timer button and Minute Set button for three seconds. Then the operation mode shift to child lock mode and it is displayed '**CL**' in the operation display.

When you press any button in this time, the remote controller is not converted to any selected mode and the '**CL**' is displayed in the remote controller for about three seconds. But the Room Temperature function is operated in spite of child lock mode.

2 ***To cancel the Child-Lock Function***

Press the Timer button and Minute Set button for three seconds. Then the child-lock mode is cancelled and the preselected mode is displayed in the remote controller.

Auto Function Setting(Way to set Fan Option)

1 Press the "Timer + Fan Speed" button more than 3 seconds at the same time.

2 Press the Fan Auto button, then choose "■" or "■ ■ ■".

3 Repeat the first step to keep the setting.

AIRFLOW SETTING IN WIRE REMOTE CONTROLLER	FAN OPTION CONDITION	COMP ON	COMP OFF
Low Airflow	■■■	Setting Airflow(Low Airflow)	Low Airflow
Medium Airflow	■■■	Setting Airflow(Medium Airflow)	Low Airflow
High Airflow	■■■	Setting Airflow(High Airflow)	Low Airflow
Low Airflow	■	Setting Airflow(Low Airflow)	Setting Airflow(Low Airflow)
Medium Airflow	■	Setting Airflow(Medium Airflow)	Setting Airflow(Medium Airflow)
High Airflow	■	Setting Airflow(High Airflow)	Setting Airflow(High Airflow)
Low Airflow(Choose to AUTO)	■■■	Setting Airflow(Low Airflow)	FAN OFF
Medium Airflow(Choose to AUTO)	■■■	Setting Airflow(Medium Airflow)	FAN OFF
High Airflow(Choose to AUTO)	■■■	Setting Airflow(High Airflow)	FAN OFF
Low Airflow(Choose to AUTO)	■	Setting Airflow(Low Airflow)	FAN OFF
Medium Airflow(Choose to AUTO)	■	Setting Airflow(Medium Airflow)	FAN OFF
High Airflow(Choose to AUTO)	■	Setting Airflow(High Airflow)	FAN OFF

Care and maintenance

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

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

When it is not going to be used for a long time.

1. Operate the air conditioner on Air circulation mode 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.

When the air conditioner is to be used again.

■ **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

Do not overcool the room.

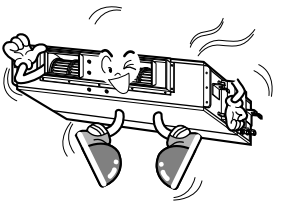
This is not good for the health and wastes electricity.

Keep blinds or curtains closed.

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

Make sure that the doors and windows are shut tight.

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



Clean the air filter regularly.

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

Ventilate the room occasionally.

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.

Case	Explanation	See page
The air conditioner does not operate.	• Have you made a mistake in timer operation?	12
	• On first starting, the indoor unit operates in fifteen seconds.	
	• Has the fuse blown or has the circuit breaker been tripped?	-
The room has a peculiar odor.	• Check that this is not a damp smell exuded by the walls, carpet, furniture or cloth items in the room.	-
It seems that condensate is leaking from the air Conditioner.	• Condensation occurs when the airflow from the air conditioner cools the warm room air.	-
Air conditioner does not operate for about 3 minutes when restart.	• This is the protector of the mechanism.	-
	• Wait about three minutes and operation will begin.	
Does not cool or heat effectively.	• Is the air filter dirty?	
	• 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?	14, 16
	• Are the indoor unit's air inlet or outlet vents obstructed?	-
The air conditioner operation is noisy.	• 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 conditioning unit.	-
Crack sound is heard.	• This sound is generated by the expansion/contraction of the inlet grille, etc. due to changes of temperature.	
Remote control display is faint, or no display at all.	• Has the circuit breaker been tripped?	-



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After reading this manual, keep it in a place easily accessible to the user for future reference.