

APPLICATION GUIDE



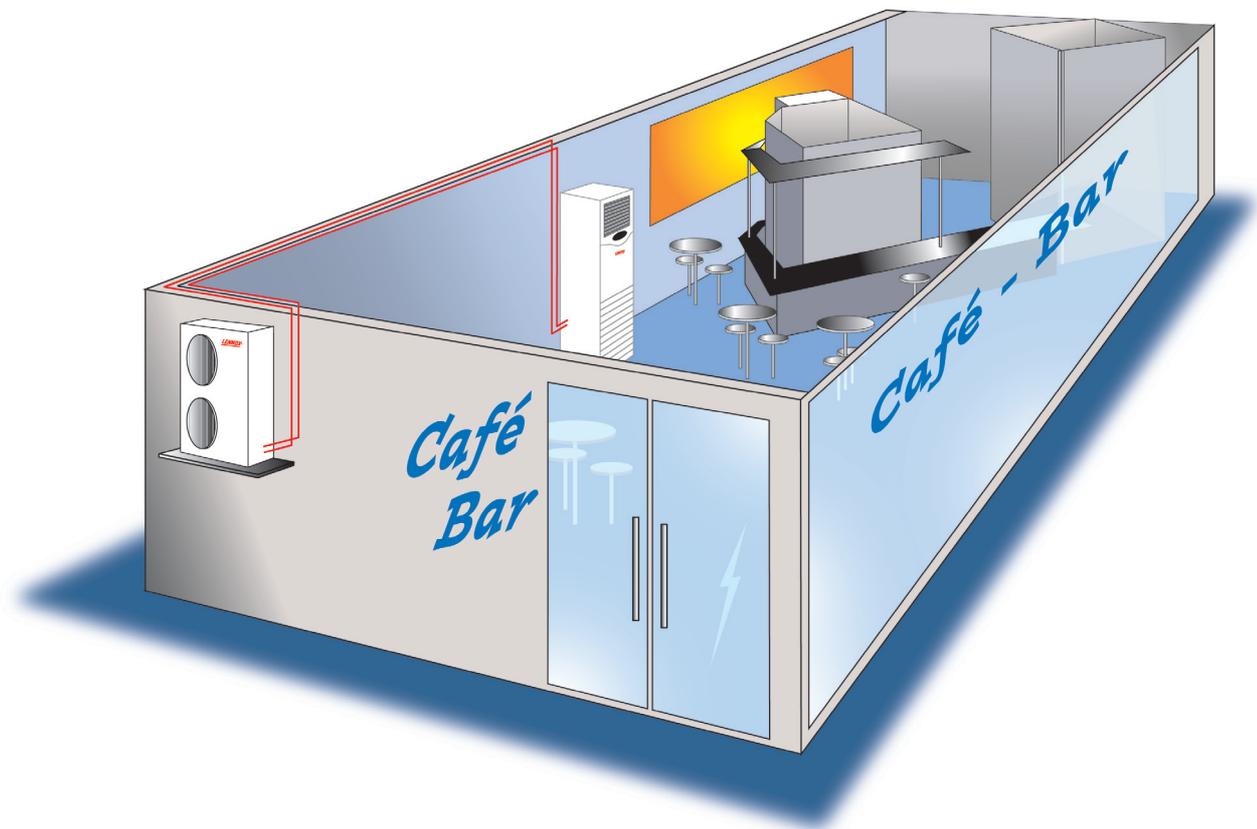
R22

- Heat pump
- Cooling Capacities of 8 a 13 kW



FLOOR STANDING

INSTALLATION



TECHNICAL DATA

VERTICAL FLOOR SPLIT. HEAT PUMP R22

| HEAT PUMP UNIT | | | VHA 30 | VHA 50 |
|-----------------------------|------------|-------------------|-------------------|-------------------|
| Cooling capacity | | W | 8.150 | 12.895 |
| Heating capacity | | W | 8.150 | 14.070 |
| Cooling mode power input | | kW | 3 | 4,5 |
| Heating mode power input | | kW | 2,8 | 4,5 |
| Current | Cool | A | 14,5 | 7,8 |
| | Heat | A | 13,5 | 7,5 |
| Voltage: 50 Hz | | V/f | 230/I | 400/III |
| Indoor U. air flow (Height) | | m ³ /h | 1140 | 2100 |
| Compressor | | Type | Reciprocating | Reciprocating |
| Sound level | Indoor U. | dB(A), Height, 1m | 46 | 48 |
| | Outdoor U. | dB(A), Height, 1m | 58 | 58 |
| Bevel coupling pipe | Liquid | | 3/8" | 3/8" |
| | Gas | | 5/8" | 3/4" |
| Dimensions | Indoor U. | H x L x D (mm) | 1.800 x 500 x 320 | 1.810 x 590 x 440 |
| | Outdoor U. | H x L x D (mm) | 800 x 870 x 320 | 1.225 x 900 x 370 |
| Net weight | Indoor U. | kg | 40 | 62 |
| | Outdoor U. | kg | 65 | 90 |

(1) At Eurovent Conditions

Cooling operation

Indoor air 27°C d.b. - 19°C w.b.
Outdoor air 35°C w.b. - 24°C w.b.

Heating operation

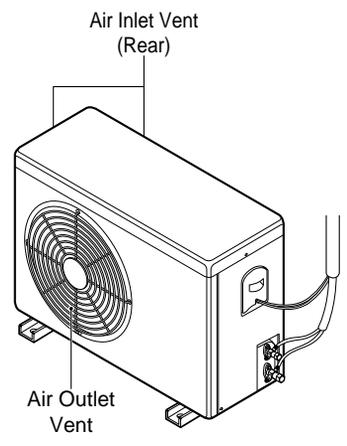
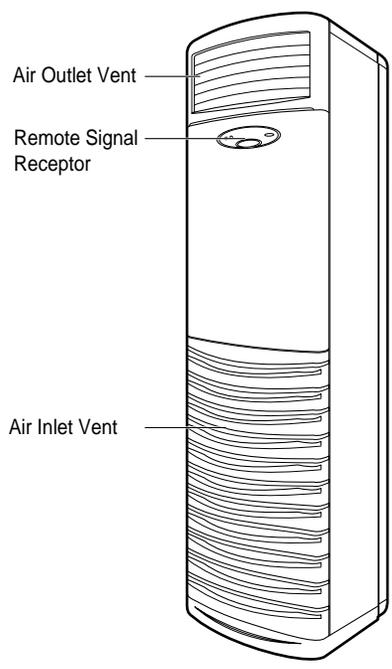
Indoor air 20°C d.b. - 12°C w.b.
Outdoor air 7°C d.b. - 6°C w.b.

Features and Specifications

Features

- ➊ Designed for cooling and heating
- ➋ Super energy efficiency
- ➌ Micom control
- ➍ Whisper quiet operation
- ➎ Wireless remote control
- ➏ Removable air filter
- ➐ Anti-Bacteria filter
- ➑ 3 minutes delay circuit
- ➒ Auto restart

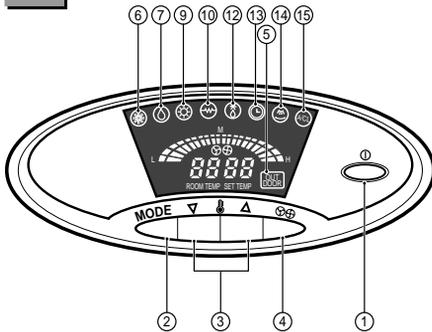
Specifications



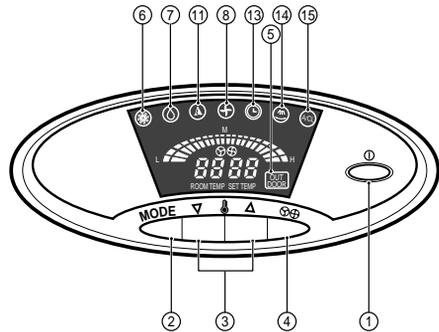
Indoor Unit Controls and Indicators

The remote control transmits the signals to the system.

Features of the Remote Control- Door Closed



(Heat Pump Model)



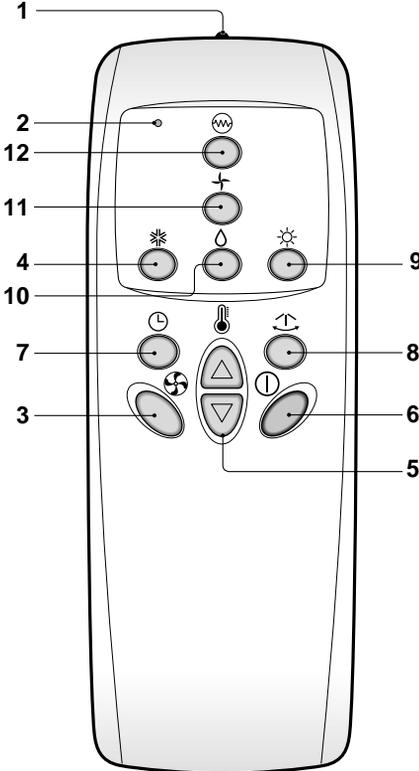
(Cooling Model)

- 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 SELECTION**
Used to select fan speed in three steps-low, med, high.
- 5 OUTDOOR UNIT OPERATION LAMP**
- 6 COOLING OPERATION LAMP**
- 7 SOFT DRY OPERATION LAMP**
- 8 FAN OPERATION LAMP**
- 9 HEATING OPERATION LAMP**
- 10 ELECTRIC HEATER OPERATION LAMP (Option)**
- 11 AUTO OPERATION LAMP**
- 12 DEFROST OPERATION LAMP**
- 13 OFF TIMER OPERATION LAMP**
- 14 AUTO AIRFLOW OPERATION LAMP (HORIZONTAL)**
- 15 AIR CLEANER OPERATION LAMP (Option)**

Name and Function-Remote Control



Control



- 1 Signal Transmitter**
 - Transmits the signals to the Floor standing Type air conditioner
- 2 Operation Display of the Remote Control**
- 3 Indoor Fan Speed Selection Button**
 - To select the desired fan speed in three steps [Low, Med, High]
- 4 Cooling ON Button**
- 5 Temperature Setting Buttons**
- 6 Power ON/OFF Button**
 - Operation will start when this button is pressed, and stop when the button is pressed again.
- 7 Timer Set Button**
 - Each time the button is pressed, the mode is changed in the following process.
Timer set (1, 2, 3, 4, 5, 6, 7 hours)
If you select "0:00" the off Timer function will be cancelled.
- 8 Auto Airflow Direction Control Button**
 - The vertical louvers swing left and right.
 - The horizontal louvers can be set by hand.
- 9 Heating Button (Heat Pump Model Only)
Auto Mode Operation Button (Cooling Model Only)**
- 10 Soft Dry Operation Button**
- 11 Indoor Fan Operation Button (Cooling Model Only)**
- 12 Electric Heater ON/OFF Button (Option)**

Wireless Remote Control Puts all functions at your fingertips

Handling the remote control

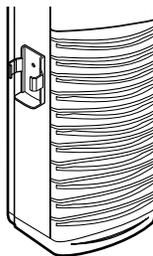
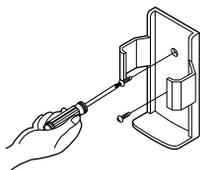
- Aim at the signal receptor on the Floor standing Type air conditioner when operating.
- The remote control signal can be received at a distance of up to about 7meters.
- Be sure that there are no obstructions between the remote control and the signal receptor.
- Do not drop or throw the remote control.
- Do not place the remote control in a location exposed to direct sunlight, or next to a heating unit, or other heat source.

Remote Control Preparation

1

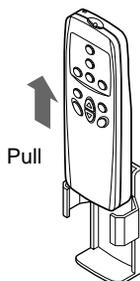
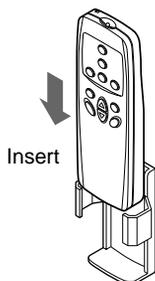
How to mount onto a wall

Use the screws to secure the holder to the wall or attach the holder side of indoor unit.



2

To insert the remote control to the holder.



How to insert batteries

1

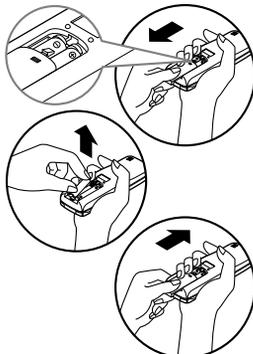
- Remove the cover from the back of the remote controller.
- Slide the cover according to the arrow direction.

2

- Insert two batteries.
- Be sure that the (+) and (-) directions are correct.
 - Be sure that both batteries are new.

3

- Re-attach the cover.
- Slide the cover into back position.



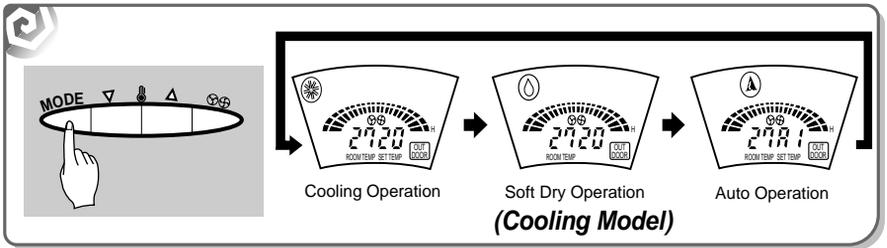
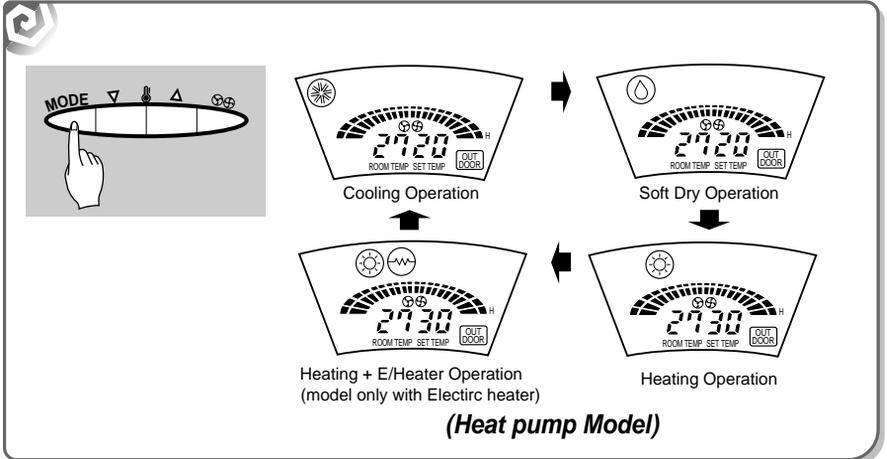
- Do not use rechargeable batteries such as batteries are different from standard dry cells in shape, dimensions, and performance.
- Change the batteries with a new one if the remote control does not work properly after using for an extended length of time.

Air conditioner operation

1

How to use the Operation Mode Button

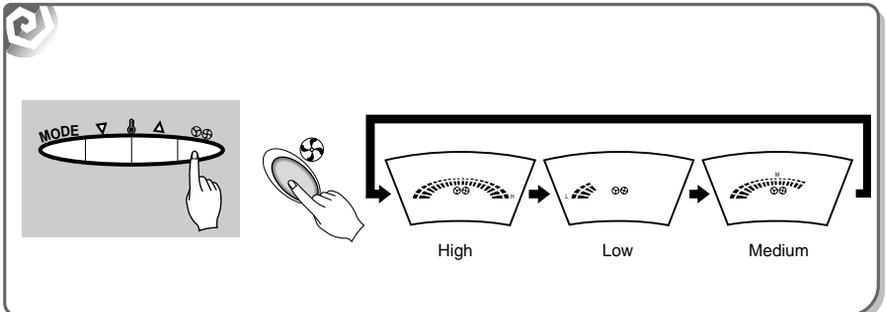
- Each time the Operation Mode Selection Button is pressed, the Operation Mode is shifted in the arrow direction.



2

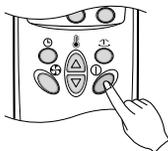
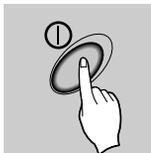
How to use the Fan speed Button

- Each time the Fan speed Button is pressed, the Fan speed is shifted in the arrow direction.

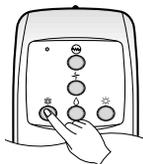
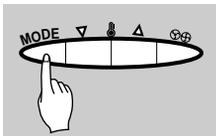


3 Cooling Operation Mode

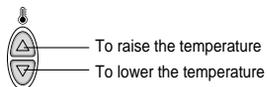
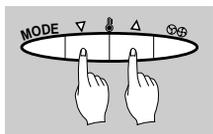
1 Press the Start/Stop Button.



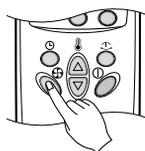
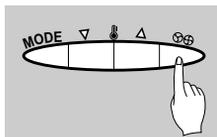
2 Select Cooling Operation.
Press the Operation Mode Selection Button.
Press the Cooling Operation Button on the remote controller.



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



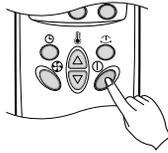
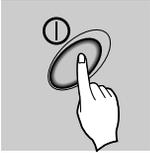
4 Set the Fan Speed.



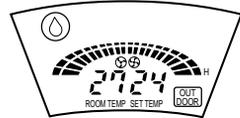
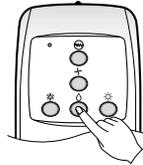
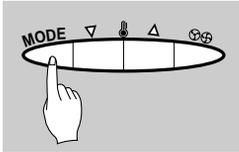
- Each time the Button is pressed, the Fan Speed mode is shifted.

4 Soft Dry Operation

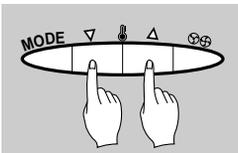
1 Press the Start/Stop Button.



2 Select Soft Dry Operation.
Press the Operation Mode Selection Button.
Press the Soft Dry Operation Button on the remote controller.



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



To raise the temperature

To lower the temperature



During soft Dry Operation

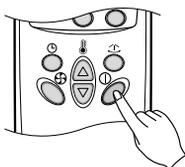
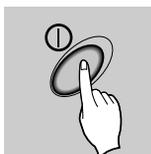
- The indoor fan speed is automatically set to low.

5

Heating Operation Mode(Heat Pump Model Only)

1

Press the Start/Stop Button.

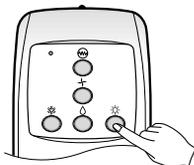
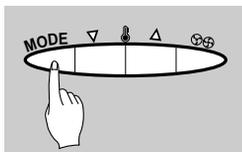


2

Select heating Operation.

Press the Operation Mode Selection Button.

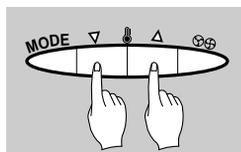
Press the heating Operation Button on the remote controller.



3

Set the temperature upper than the room temperature.

The temperature can be set within a range of 16°C~30°C by 1°C.



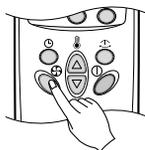
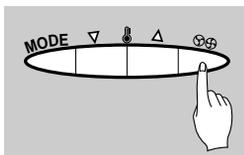
To raise the temperature

To lower the temperature



4

Set the Fan Speed.



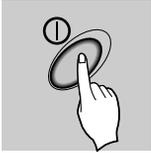
• Each time the Button is pressed, the Fan Speed mode is shifted.

6

Electric Heater Operation Mode(Option)

1

Press the Start/Stop Button.

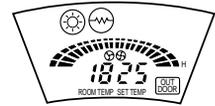
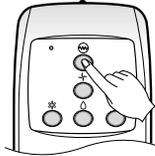
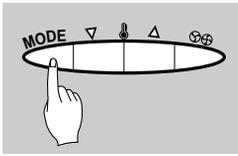


2

Select heating+ E/heater Operation.

Press the Operation Mode Selection Button.

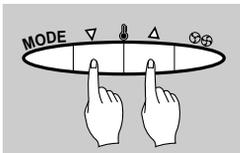
Press the Heater Operation Button on the remote controller.(When the unit operates in heating mode.)



3

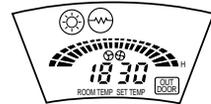
Set the temperature upper than the room temperature.

The temperature can be set within a range of 16°C~30°C by 1°C.



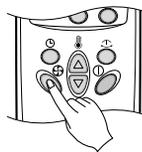
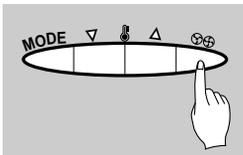
To raise the temperature

To lower the temperature



4

Set the Fan Speed.



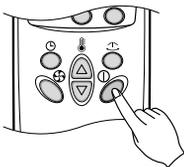
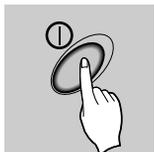
- Each time the Button is pressed, the Fan Speed mode is shifted.

7

Auto Operation Mode(Cooling Model Only)

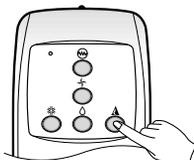
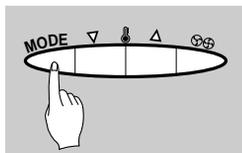
1

Press the Start/Stop Button.



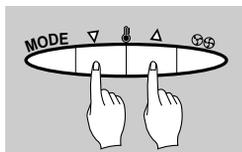
2

Select Auto Operation.
Press the Operation Mode Selection Button.
Press Auto Operation Button on the remote controller.



3

Set the temperature upper than the room temperature.
The temperature can be set within a range of 16°C~30°C by 1°C.



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

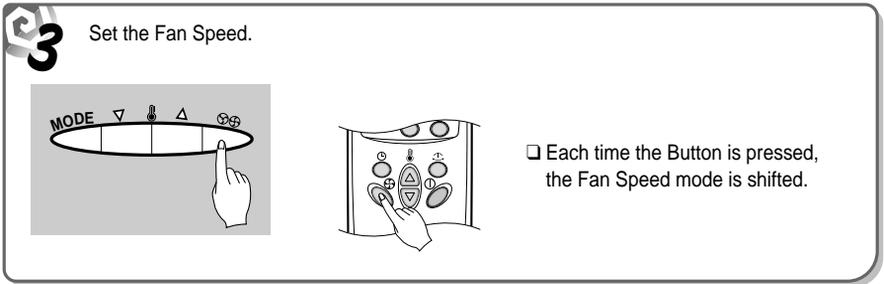
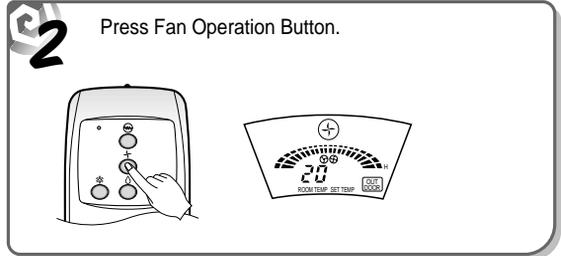
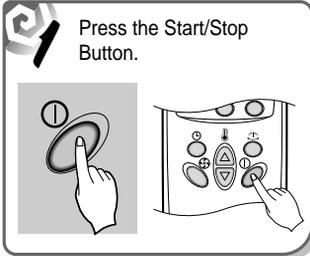


— To raise the temperature. (When you feel too cool or cold)
— To lower the temperature. (When you feel too warm or hot)

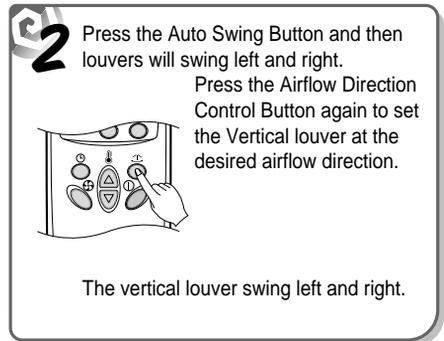
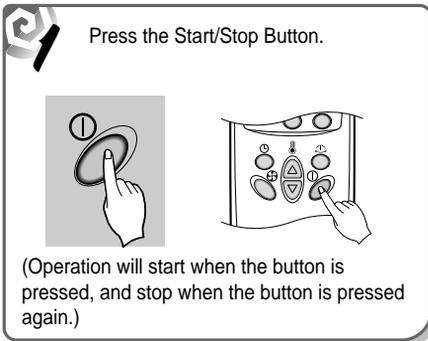
During Auto Operation

- It is impossible to switch the indoor fan speed because of being already set to the best condition by fuzzy rule.

8 Fan Operation Mode(Cooling Model Only)



9 Airflow Direction Procedure



Note

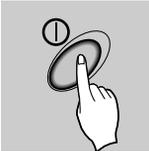
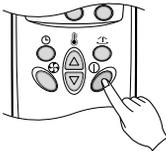
Always use the remote control to adjust the right/left airflow direction, manually moving the vertical airflow direction louver by hand could change the air conditioner.

Vertical Airflow Direction Control

Adjust the vertical airflow direction manually by moving the horizontal louvers with hand.

10 OFF Timer Setting Procedure(OFF TIMER Setting, or CANCEL)

1 Press the Start/Stop Button.

2 Press the Timer Button.




- If you press the button, the selected off timer is displayed as follows;
 1:00 → 2:00 → 3:00 → 4:00 → 5:00 → 6:00 → 7:00 → 0:00
- If you select ' 0:00 ', the Off Timer function will be cancelled.

3 When you finish the Off Timer setting, the Timer indicator lights off.



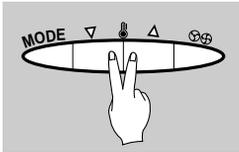
After 4 seconds →



4 During off-timer operation if you press the Timer Button, the rest time will be displayed.

11 Child Lock Operation Procedure

- 1** Press the low and high temperature setting buttons simultaneously for 3 seconds. The unit will respond with beep.



After 3 seconds,
it will be shifted.



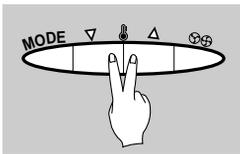
After 3 seconds,
it will be shifted.



- 2** During Child Lock Operation

- ❶ Whenever you press any Button on Display Panel, it will immediately display "LOE", which means Display panel is Locked.
- ❷ All the Button on the indoor unit Display panel will not work.
- ❸ But the Button on the remote controller will work.

- 3** For releasing child lock Operation



Press the low and high temperature setting buttons simultaneously for 3 seconds again. The unit will respond with beep, Child Lock Operation will be removed.



After pressing
the buttons it will be shifted
immediately



After 3 seconds,
it will be shifted.



Auto restart

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

Care and Maintenance

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

During the season

Cleaning of the air filters.
Recommended about once every two weeks

- 1** Remove the Air Filter.
Take hold of the tab and pull slightly forward to remove the filter.
- 2** Clean.
 - To remove the dust adhering to the filters, either use a vacuum cleaner, or wash them in water and dry in the shade.
 - Re-insert the filter to the original position.

Cleaning of the air cleaner.
Recommended about once every three months

- 1** Remove the Air Cleaner.
Take hold of the tab and pull slightly forward to remove the air cleaner.
- 2** Clean.
 - Dip the air cleaner into the water mixed with detergent, for 20-30 minutes, and dry in the shade.
 - Re-insert the air cleaner to the original position.

Cleaning of the air conditioner

- Don't wash with water.
- Wipe with a soft dry cloth.

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.

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

At the end of the season

- 1** Operate the air conditioner at the following settings for 2 to 3 hours.
 - Type of operation : Cooling.
 - Temperature setting : 30°C.
 This will dry out the internal mechanisms.
- 2** Remove the batteries from the Remote Control.
- 3** 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.

At the start of the season

- 1** Clean the air filters, re-insert, then operate the air conditioner.
- 2** Be sure that nothing obstructs the air outlet and intake vents.

Operation Tips

Do not overcool the room.

This is not good for your health and wastes electricity.

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.

Keep blinds or curtains closed.

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

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.

Keep the room temperature uniform.

Adjust the vertical and horizontal airflow direction to ensure a uniform temperature in the room.

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 fault persists, please contact your dealer or service center.

| Case | Explanation | See page |
|--|--|----------|
| Does not operate. | <ul style="list-style-type: none"> • Have you made a mistake in timer operation? | - |
| | <ul style="list-style-type: none"> • Has the fuse blown or has the circuit breaker been tripped? • Is the power Switch at Off? • Is the unit at the starting of Heating Operation? If yes, Hot-start is activating. • Is the unit in the Deicing? If yes, wait for finishing the Deicing. | |
| The room has a peculiar odor. | <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. | - |
| It seems that condensation is leaking from the air conditioner. | <ul style="list-style-type: none"> • Condensation occurs when the airflow from the air conditioner cools the warm room air. | - |
| Air conditioner does not operate for about 3 minutes when restarted. | <ul style="list-style-type: none"> • This is the Protection device of the air conditioner . • Wait about three minutes and operation will begin. • If the airflow begins before its temperature become warm, it will cause an undesired cooling effect. In order to prevent this, the airflow will not begin until it is sufficiently warm. | |
| Does not cool or heat effectively. | <ul style="list-style-type: none"> • Is the air filter dirty? See air filter cleaning instructions. | 17 |
| | <ul style="list-style-type: none"> • The room may have been very hot when the room air conditioner was first turned on. Allow time for it to cool down. | - |
| | <ul style="list-style-type: none"> • Has the temperature been set incorrectly? • Are the indoor unit's air inlet or outlet vents obstructed? | - |
| The air conditioner operation is noisy. | <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 conditioning unit. | - |
| Remote controller display is faint, or no display at all. | <ul style="list-style-type: none"> • Are the batteries depleted? • Are the batteries inserted in the opposite (+) and (-) directions? | 7 |

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.

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