

OWNER'S MANUAL

AIR CONDITIONER

Please read this manual carefully before operating
your set and retain it for future reference.

CEILING CASSETTE

AMNH09GTUC0 AMNH12GTUC0 ATNH12GRLE2

ATNH18GQLE2 ATNH24GPLE2

Original instruction



MFL67737101
Rev.00_070918

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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 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

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.
- 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.

Operation

- 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 smell 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 touch the metal parts of the product when removing the air filter. They are very sharp!
 - There is risk of personal injury.
- Do not step on or put anything on the product. (outdoor units)
 - There is risk of personal injury and failure of product.
- Always insert the filter securely. Clean the filter every two weeks or more often if necessary.
 - A dirty filter reduces the efficiency of the air conditioner and could cause product malfunction or damage. (Grill Type)
- 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.
- If you eat the liquid from the batteries, brush your teeth and see doctor. Do not use the remote if the batteries have leaked.
 - The chemicals in batteries could cause burns or other health hazards.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

Prior to Operation

Preparing for Operation

1. Contact an installation specialist for installation.
2. Use a dedicated circuit.

Usage

1. Being exposed to direct airflow for an extended period of time could be hazardous to your health. Do not expose occupants, pets, or plants to direct airflow for extended periods of time.
2. Due to the possibility of oxygen deficiency, ventilate the room when used together with stoves or other heating devices.
3. Do not use this air conditioner for non-specified special purposes (e.g. preserving precision devices, food, pets, plants, and art objects). Such usage could damage the items.

Cleaning and Maintenance

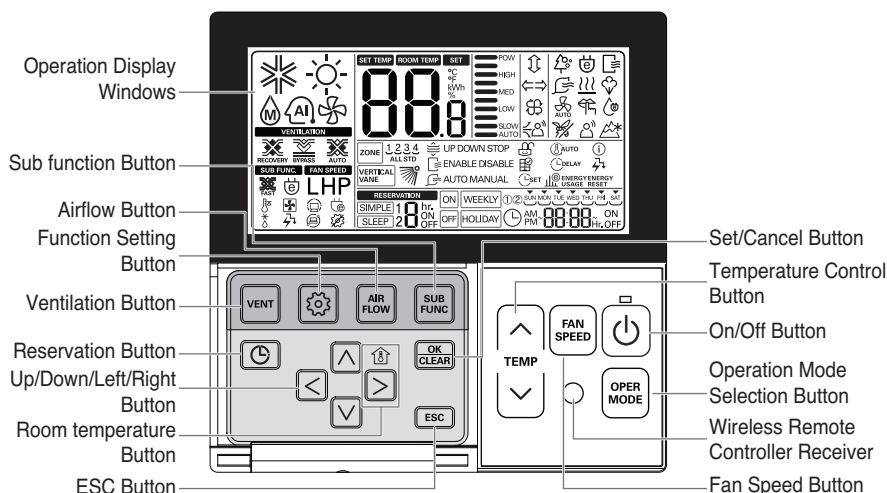
1. Do not touch the metal parts of the unit when removing the filter. Injuries can occur when handling sharp metal edges.
2. Do not use water to clean inside the air conditioner. Exposure to water can destroy the insulation, leading to possible electric shock.
3. When cleaning the unit, first make sure that the power and breaker are turned off. The fan rotates at a very high speed during operation. There is a possibility of injury if the unit's power is accidentally triggered on while cleaning inner parts of the unit.

Service

For repair and maintenance, contact your authorized service dealer.

Operating Instructions

Name and function of wired remote controller



Operation Display Windows : Displays the status of operation and settings

Ventilation Button : For interlocking operations of air-conditioner and ventilator

Function Setting Button : To select the additional operations function

Airflow Button : To select the airflows

Sub function Button : To select the additional operations function

Reservation Button : To program the schedule

Up/Down/Left/Right Button : To change the settings in the menu

Room temperature Button : To check the indoor temperature

ESC Button : To exit from the menu

Set/Cancel Button : To save the settings in the menu

Temperature Control Button : To change the desired temperature

Fan Speed Button : To select the fan speed

On/Off Button : To turn on/off with a remote controller

Mode Selection Button : To select the operating mode

Wireless Remote Controller Receiver

* Some functions may not be operated and displayed depending on the product type.

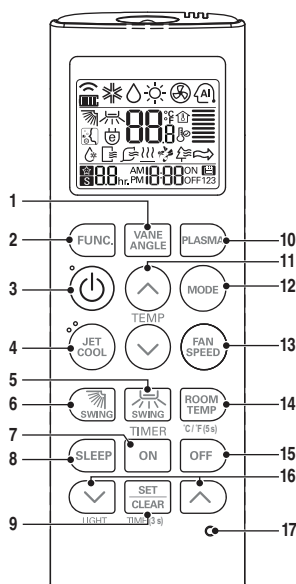
NOTE

* 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.

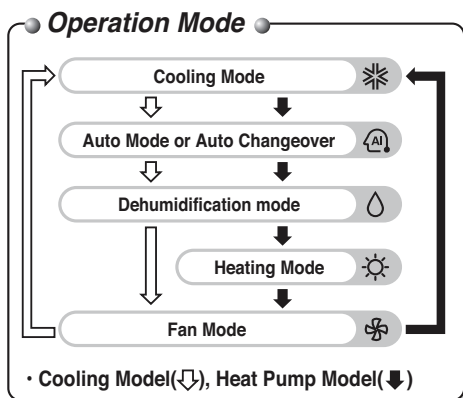
* The actual product can be different from above contents depending upon model type.

* When using simultaneous operation system, whenever press remote controller button, system will approximately operate after 1~2 minutes.

Name and function of wired remote controller(Optional)



PQWRQ0FDB (Cooling only)
PQWRH0FDB (Heat pump)



1. VANE ANGLE Button

Used to set each vane angle.

2. FUNCTION SETTING Button

Used to set or clear Auto Clean, Smart Clean, Electric heater or Individual vane angle control.

3. ON/OFF Button

Used to turn on/off the unit.

4. JET COOL Button

Speed cooling operates super high fan speed.

5. LEFT/RIGHT AIRFLOW Button (OPTIONAL)

Used to set the desired left/right(horizontal) airflow direction.

6. UP/DOWN AIRFLOW Button

Used to stop or start louver movement and set the desired up/down airflow direction.

7. ON TIMER Button

Used to set the time of starting operation.

8. SLEEP TIMER Button

Used to set the time of sleeping operation.

9. SET / CLEAR Button

Used to set/clear the timer.

Used to set the current time(if it input for 3 s)

10. PLASMA Button (OPTIONAL)

Used to start or stop the plasma-purification function.

11. ROOM TEMPERATURE SETTING Button

Used to select the room temperature.

12. OPERATION MODE SELECTION Button

Used to select the operation mode.

13. INDOOR FAN SPEED SELECTION Button

Used to select fan speed in four steps low, medium, high and chaos.

14. ROOM TEMPERATURE CHECKING Button

Used to check the room temperature.

15. OFF TIMER Button

Used to set the time of stopping operation.

16. TIMER SETTING(Up/Down)/LIGHT Button

Used to set the timer.

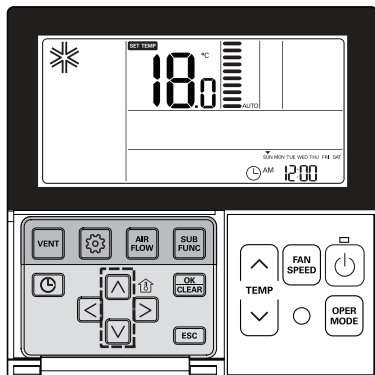
Used to adjust the brightness.(if it is not time adjust mode)

17. RESET Button

Used to reset the remote controller.

Standard Operation - Standard Cooling

It cools the room by comfortable and clean wind.



- 1** Press  button to turn on the indoor.



- 2** Press  button to select Cooling operation mode.



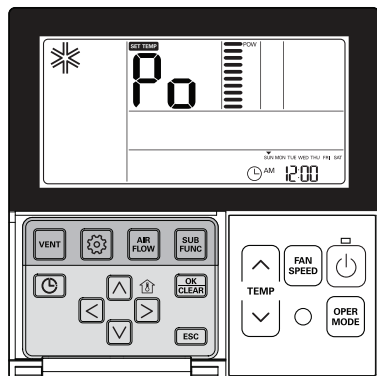
- 3** Adjust the desired temperature by pressing   buttons. Press  button to check the Room temperature. When setting the desired temperature higher than room temperature, only ventilation wind is blow out instead of cooling wind.



* Setting Temp Range : 18 °C~30 °C (64 °F~86 °F)

Standard Operation - Power Cooling

It makes the room cool using pleasant and fresh air quickly



1 Press button to turn on the indoor.



2 Press button to select cooling operation mode.



3 Press button continuously until 'Po' displayed.



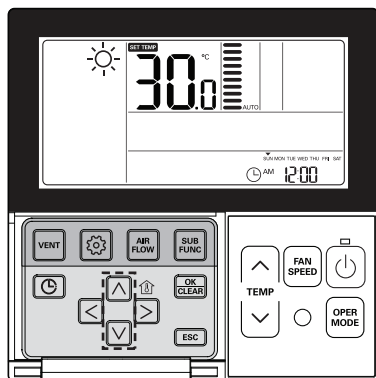
What is Power Cooling?

- Desired temperature: Po (actually 18 °C)
 - Wind flow: power wind
 - Wind direction: fix to air-cooling position
- It make room temperature drop fast by running

* Partial product has no power air-cooling function.

Standard Operation - Heating Mode

It supplies warm wind to the indoor



1 Press button to turn on the indoor.



2 Press button to select Heating mode.
(To check the indoor temperature, press the room temperature button.)



3 Adjust the desired temperature by pressing buttons.

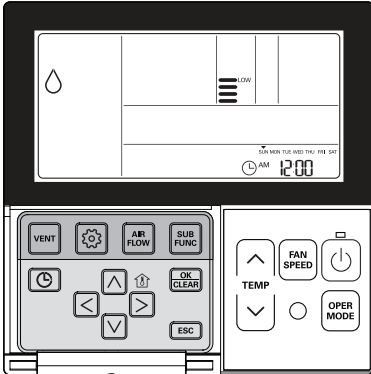


When setting the desired temperature lower than room temperature, there is only ventilation wind.

- Heating drive only operates at the cooling and heating model.
- Heating doesn't operate at cooling exclusive model.

Standard Operation - Dehumidification Mode

It removes humidity while air-cooling weakly.

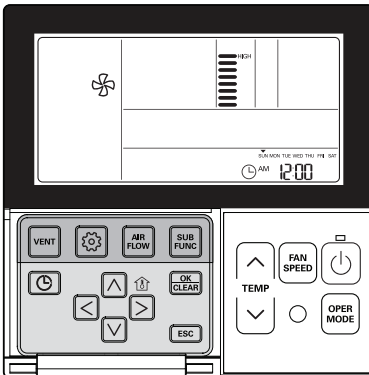


- 1 Press button to turn on the indoor.
- 2 Press button to select Dehumidification mode. The temperature setting can not be adjusted during operation this mode.
- 3 Press the button to select airflow rate feeble → weak → medium → strong → automatic. (The initial wind powerfulness of humidity removal drive is 'weak'.)

- In rainy season or high humidity climate, it is possible to operate simultaneously dehumidifier and cooling mode to remove humidity effectively.
- The menu item of wind powerfulness might not be partially selected according to the product.

Standard Operation - Fan Mode

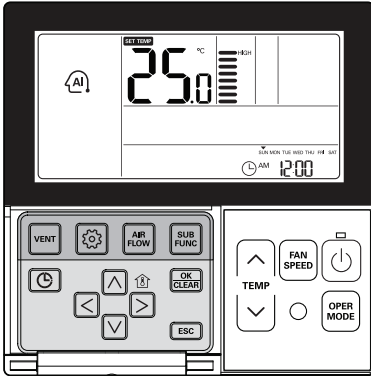
It blows the air as it is in the indoor, not the cold wind.



- 1 Press button to turn on the indoor.
- 2 Press button to select Fan Mode.
- 3 Every time pressing button, you can select wind flow in order of feeble → weak → medium → strong → automatic. When running ventilation, compressor of AHU doesn't work.

- Ventilation drive does not release cool wind but general fan
- Because it releases the wind that has no temperature difference from the room, it functions to circulate the inside air.
- The menu item of wind powerfulness might not be partially selected according to the product.

Standard Operation - Auto Operation Mode



1 Press button to turn on the indoor.



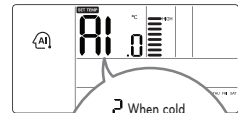
2 Press button to select Artificial intelligence Mode.



3 You can adjust the temperature as the picture on the right for cooling and heating model.



4 For the case of cooling exclusive, as the picture on the right, you can adjust the temperature from hot to cold, from "-2" to "2" based on "00".

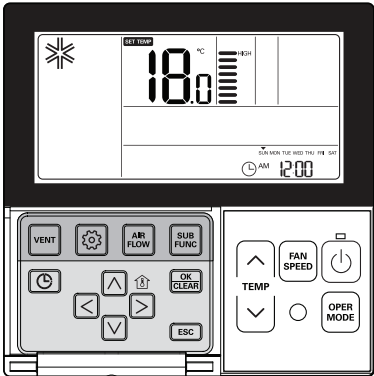


- 2 When cold
 1 When cool
 0 When appropriate
 - 1 When warm
 - 2 When hot

During operating Auto Operation mode:

- We can use the FAN SPEED button
- We can change manually to other operation mode.

Standard Operation - Airflow Setting



Wind powerfulness : You can simply adjust desired wind powerfulness.

- 1** Please setup desired wind powerfulness by wind powerfulness button.
- Every time you press wind powerfulness, you can select the wind flow in order of 'feeble → weak → weak medium → medium → medium strong → strong → power → automatic'.
- The menu item might not be partially selected according to product function.
- Please refer to product manual for product's detailed function.

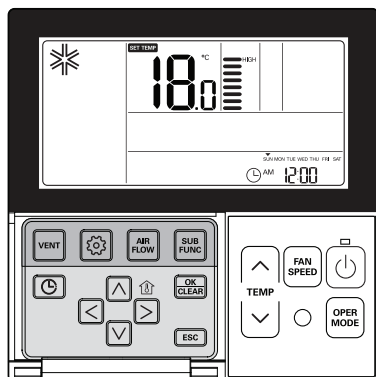


Wind direction : You can simply adjust desired wind direction.

- 1** Please set desired wind direction by pressing  button. You can select wind direction of (comfortable wind → Up/Down and Right/Left → Right/Left → Up/Down) by pressing  button. Partial item of wind directions might not be selected according to product function. Please refer to product manual for product's detailed function.



Standard Operation - Temperature Setting/Room Temperature Check



Temperature Setting

- 1 We can simply adjust the desired temperature.
 - Press the buttons to adjust the desired temperature.
 - : Increase 1 °C or 2 °F per one time pressing
 - : Decrease 1 °C or 2 °F per one time pressing

- Room temp: Indicate the current room temperature.
- Set temp: Indicate the temperature that user want to set.

※ Depend on what kind of controller, the desired temperature can be adjusted at 0.5°C or 1°F.

Cooling operation:

- The cooling mode doesn't work if desired temperature is higher than room temperature. Please lower the desired temperature.

Heating operation:

- The heating mode doesn't work if desired temperature is lower than room temperature. Please increase the desired temperature.

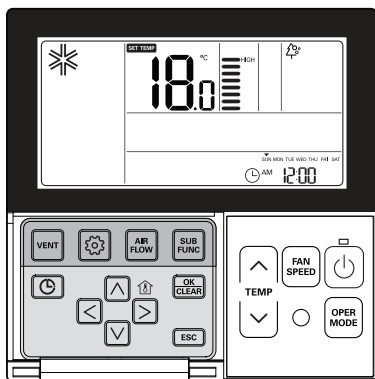
Room Temperature Check

- 1 Whenever press button, the room temperature will be displayed within 5 seconds.
After 5 seconds, it turns to display the desired temperature.
Because of location of remote controller, the real room temperature and the this displayed value can be different

- For air-cooling drive, from 18 °C to 30 °C, and for heating drive, from 16 °C to 30 °C, you can select desired temperature.
- 5 °C is proper for the difference between room and outside temperature.

Sub function - Plasma Purification

Only products with humidifying function can use this.



The method to setup cleaning air

1 Repeat pressing **SUB FUNC** button until  icon flash.



2 Operate or cancel Plasma Purification function by pressing **OK/CLEAR** button.

( icon appears/disappears on **SUB FUNC.** display part up to selection)



3 After setting, press **ESC** button to exit.

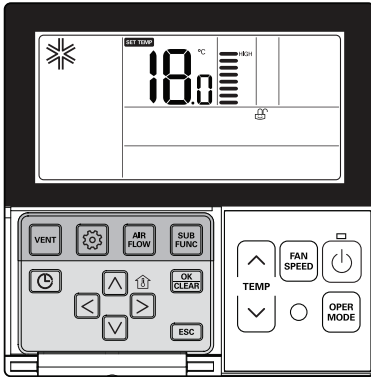


- * After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.
- * When exiting without pressing set button, the manipulated value is not reflected.

- Cleaning air function is additional function and it might not be indicated or operated at the partial product.
- Cleaning air function is possible only when product is running.
- If you want independent cleaning air drive, please setup cleaning air by pressing additional drive button at ventilation drive.

Function setting - Child Lock

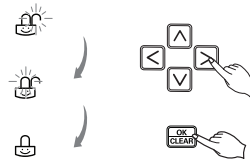
It is the function to use preventing children or others from careless using.



- 1** Press button repeatedly until the is flashing.



- 2** If moving to 'setup' icon area by using button, 'setup' icon blinks, and child lock function is setup if pressing button at that time.

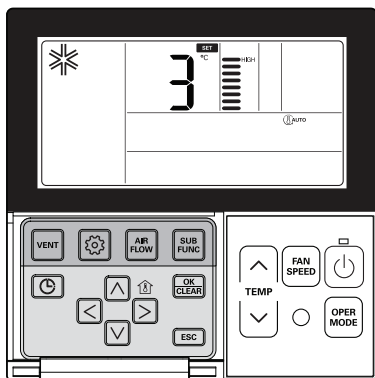


- 3** When cancelling lock function, if moving to 'cancel' icon by pressing button and then, pressing , child lock function is cancelled.

- 4** Press button to exit.
- * After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.
 - * When exiting without pressing set button, the manipulated value is not reflected.

Function Setting - Change Temp

Change temperature is the function to setup air-cooling and heating drive automatically changeable according to the temperature at artificial intelligence drive mode.



- 1 Repeat pressing  button until  auto icon flash.



- 2 Press   button to change.

* Converting temp value : 1~7



- 3 Press  button to complete and active the setting process.



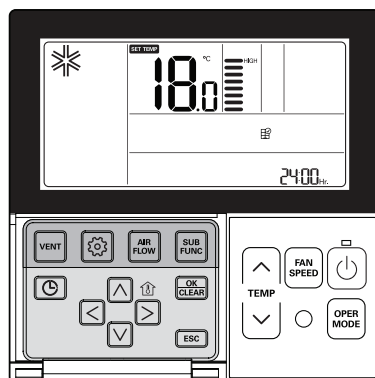
- 4 Press  button to exit or system will automatically release without any input after 25 seconds.

* When exiting without pressing set button, the manipulated value is not reflected.



Function setting - Filter Sign Clear

This function is to clear the indicator of indoor filter cleaning.



- 1 Press  button repeatedly until the  is flashing.



- 2 When the  is flashing, press the  to clear this display

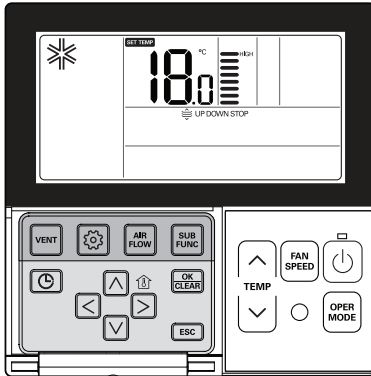


- When filter is covered by dust, it will reduce cooling/heating efficiency and accumulate more electric power. Therefore, do clean the filter whenever cleaning time is expired.

* Filter cleaning indication is automatically cancelled without the separate cancellation after certain period of time.

Function setting - Elevation Grill

This function is to move the indoor filter up/down for cleaning filter.

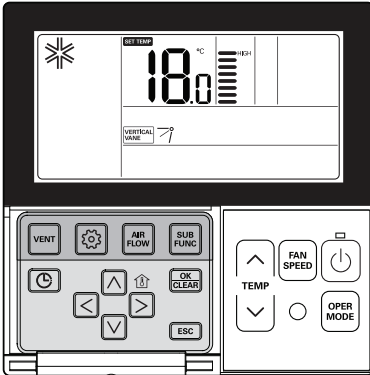


- 1 Press button
Repeat pressing button until icon flash.
- 2 Move to descent using button and press button will display descent icon and the up/down grill will descent.
- 3 When up/down grill descends to the desired position, move to stop icon using button and press button to stop up/down grill.
- 4 When filter cleaning is finished, fix the filter to the up/down grill, move to ascent icon using button, and press button to ascent up/down grill.
- 5 Press button to exit.
 * After setup, it automatically gets out of setup mode if there is no button input for 60 seconds.
 * When exiting without pressing set button, the manipulated value is not reflected.

• Elevation grill function only operates in the indoor unit with the elevation grill.

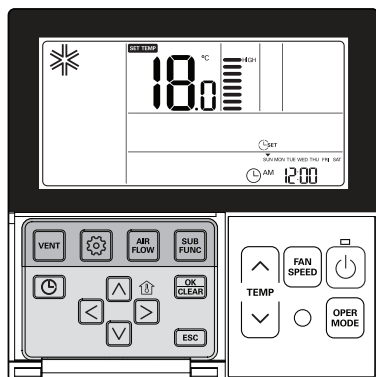
Function setting - Vane Angle Control

This function is to adjust angle at which airflow is blow out.



- 1 Repeat pressing  button until  icon flash. 
- 2 Press   button to select active vane : 1 / 2 / 3 / 4 / All / Standard
Select Vane number using   buttons.
* Vane number : No. 1, 2., 3, 4, all, or standard
 - Selected vane is in operation.
 - Please verify the operating vane.
 - To set the angle of all the vanes, select 'all'.
 - To set as the factory default settings, select 'standard'.
- 3 Select wind angle using   button, and press  button.
 - The boundary of wind angle settings can be changed to 5 levels or 6 levels according to the product.
 - When selecting 'standard' for Vane number, the wind angle does not move.
- 4 Set the wind angles for the remaining vanes as the same as above.
 - * There are products with vanes with no. 1 and no. 2 only according to the product types.
- 5 Press  button to exit. 
 - * After setup, it automatically gets out of setup mode if there is no button input for 60 seconds.
 - * When exiting without pressing set button, the manipulated value is not reflected.
- 6 Press  button to complete and active the setting process. (Airflow direction function will be released whenever setting vane angle) 
- 7 Press  button to exit or system will automatically release without any input after 25 seconds. 

Function setting - Changing Current Time



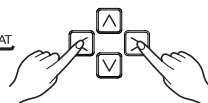
- 1 Please press function setup button. If pressing function setup button repeatedly, it moves to time setup menu. 'Time setup' icon is indicated at that time and date blinks at current time indication area.



Ex) Changing Current Time as 'Monday / AM 10:20'.

- 2 Press key to adjust the current day.

SUN MON TUE WED THU FRI SAT

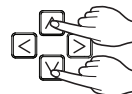


- 3 Press key to move to AM/ PM setting mode (the 'AM/ PM segment will flash').

AM 12:00

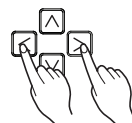


- 4 Setting AM/ PM value by pressing button.



- 5 Press button to move to 'Hour' setting mode. (the 'Hour' segment will flash)

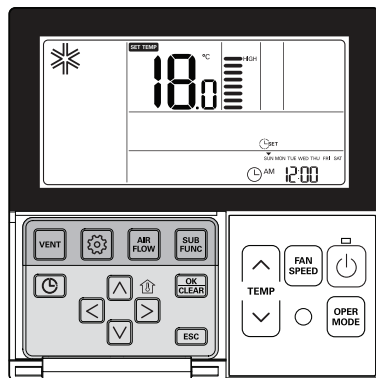
AM 12:00



- 6 Setting Hour value by pressing button.

AM 10:00





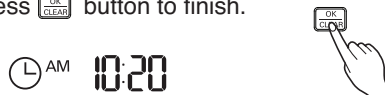
- 7** Press button to move to 'Minute' setting mode. (the 'Minute' segment will flash)



- 8** Setting Minute value by pressing button.



- 9** Press button to finish.



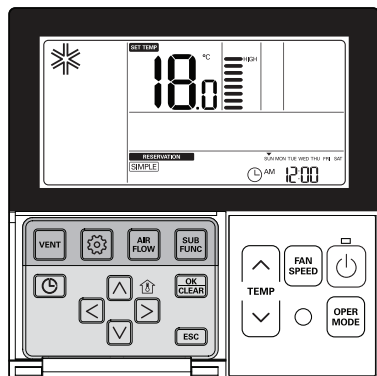
- 10** In the process, press button to release and exit from setting mode.
(In case of exit with incomplete information, it will return to the previous setting)

※ When exiting without pressing set button, the manipulated value is not reflected.



Programming - Simple Reservation

You can set the reservation conveniently in the units of 1 hour from 1 hour to 7 hours.

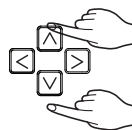


- 1 Press button to enter the Programming mode.
(the **SIMPLE** segment flashing)

Ex) Setting Simple Reservation time as '3'.

- 2 Press button to adjust reservation time.

1 → 3



- 3 Press button to finish setting.

3



- 4 Press button to exit.
 * After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.
 * When exiting without pressing set button, the manipulated value is not reflected.

* When simple reservation setup, product automatically runs or stops after the time that is set.

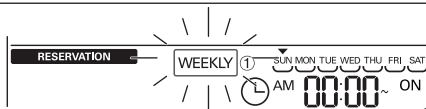
Programming : Weekly Reservation

You can set the daily reservation in weekly unit.

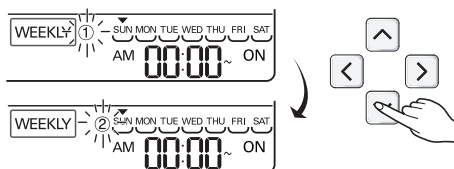
Weekly reservation keeps operating until before you cancel it once you setup

- Please move to reservation setup mode by pressing reservation button.
 * You can setup two weekly reservations for one day, and up to fourteen reservations for a week.
 For example, to setup (Tuesday morning 11:30 turned on ~ afternoon 12:30 turned off), you setup in order below.

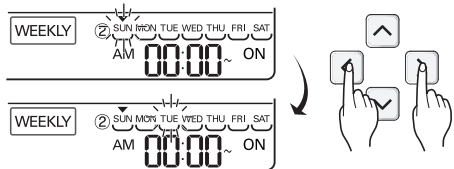
- Please move to 'weekly' by repeatedly pressing reservation button. 'Weekly' blinks at this time.



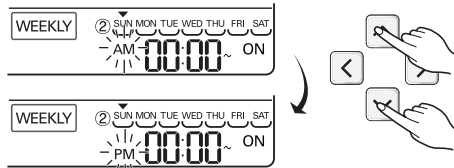
- Please select weekly reservation or weekly reservation 1 by using ☐ ☐ button.
 * You can setup two reservations, weekly reservation 1 and weekly reservation 2, for a day.



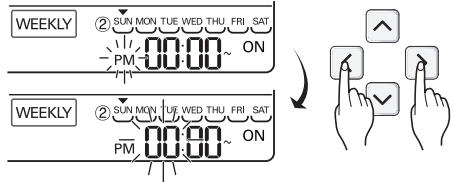
- Please move to 'date' setup part by using ☐ ☐ button. If 'date' indication blinks, please setup date. You can setup date from Monday to Sunday.



- Please move to 'AM/PM' setup part of turning on by using ☐ ☐ button.



- Please move to 'hour' setup part of turning on by using ☐ ☐ button.
 - It is the part to setup the time at which air-conditioner is turned on.

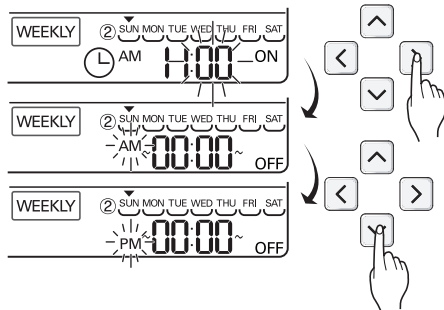


- Please change time by using ☐ ☐ button.
 - You can setup hour 0~12.

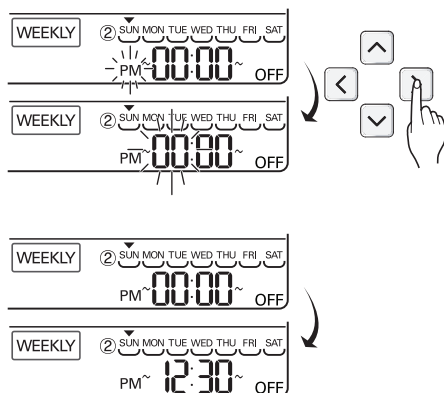
- Please move to 'minute' setup part of turning on by using ☐ button.

- If 'minute' indication blinks, please setup 'minute' by using ☐ ☐ button

- 10** Please move to 'AM/PM' setup part of turning off by using  button.
- AM/PM setup is identical with turning on time setup.



- 11** Please move to 'hour' setup part of turning off by using Right button.
- It is the part to reserve the time at which air-conditioner is turned off.
- If 'hour' indication blinks, please setup 'hour'.

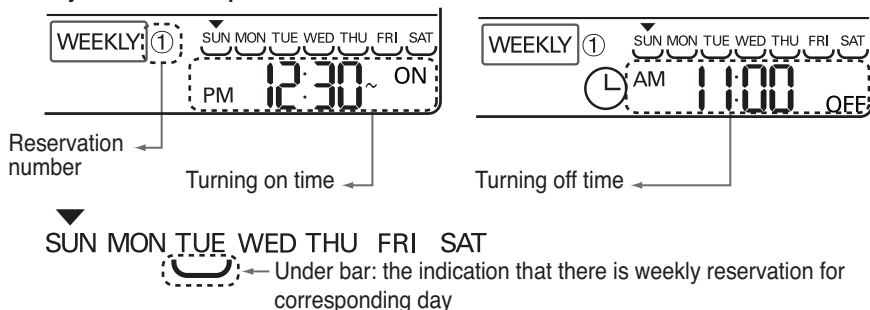


※ Please setup 'hour' and 'minute' identically with the method to setup turning on time.

- 12** If finishing weekly reservation setup, please press setup/cancellation button. Weekly reservation setup for the day that you set is finished.

- 13** If you setup with the method identical with above by selecting the day that you'd like to setup, it operates weekly reservation.
If you setup both turning on reservation time and turning off reservation time identically, it doesn't operate reservation drive.

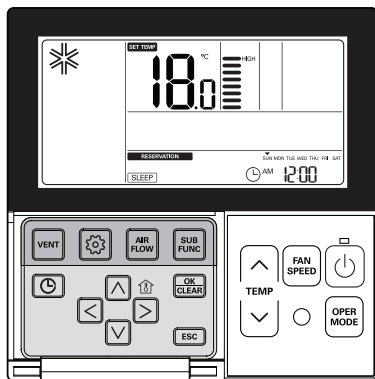
Weekly reservation explanation



※ Indoor unit is turned on to desired temperature if it is configured using up/down button during preset of weekly operation time.
(Temperature selection range : 18 °C~30 °C)
- When desired temperature is not set, it is turned on automatically with desired temperature of previous operation.

Programming - Sleep Reservation

Sleep reservation is the function of air-conditioner to run and stop after certain period of time at sleep mode before sleep. When connected to a ventilation product and set the sleep reservation, when it goes to the sleep mode, after the set time has elapsed.



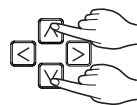
1 Press button to enter the Programming mode.
Ex) Setting Sleep Reservation time as '3'.



2 Repeat pressing button to enter the SLEEP reservation setting mode.
(segment flashing)

3 Press button to adjust reservation time.
The SLEEP reservation time is from 1 to 7 hours.

→



4 Press button to finish setting.
Whenever reservation is done.



5 Press button to exit.
* After setup, it automatically gets out of setup mode if there is no button input for 60 seconds.
* When exiting without pressing set button, the manipulated value is not reflected.
- If reservation is setup, 'sleep' indication shows up at the lower part of LCD screen.

6 If finishing sleep reservation setup, air-conditioner product operates sleep drive and stops after the time that is set.

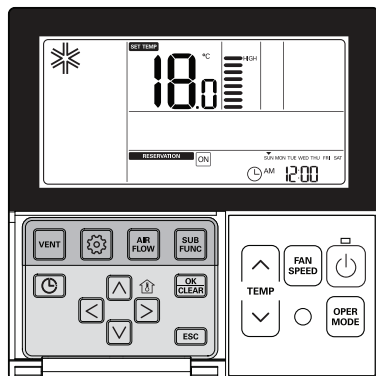
⚠ CAUTION

Please reserve proper time at sleeping. (Too much air-cooling is not good for your health.)

- Because it automatically adjusts desired temperature for comfortable air-cooling at sleep drive, there could be difference between remote controller's desired temperature and air-conditioner body's desired temperature.
- Sleep reservation operates as off reservation for the product whose temperature adjustment isn't controlled by unit of 0.5 °C.

Programming - ON Reservation

Automatically turned On at reserved time that you set.



- 1** Press button.



Ex) Setting ON Reservation Time as 'AM 10:20'.

- 2** Repeat pressing button to enter the ON reservation setting mode.
()



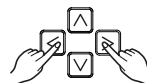
- 3** Press button to adjust AM/ PM setting.

AM 12:00



- 4** Press button to Hour setting mode. When the Hour icon flash, please setting time.
The setting range is within 1~12.

AM 12:00



AM 10:00



- 5** Press button to shift to Minute setting mode. When the Minute icon flash, please setting minute the setting range is within 00~59.

AM 10:00



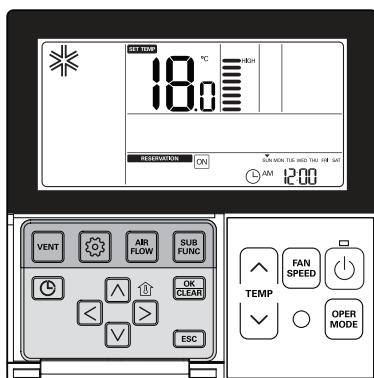
AM 10:20



- 6** Press button to finish setting.

AM 10:20

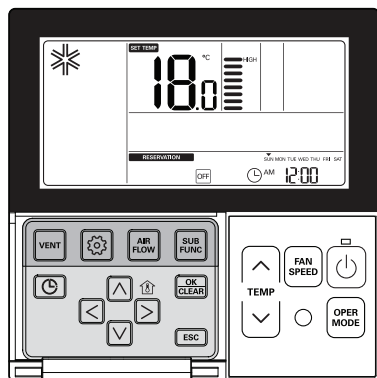




- 7** Press **ESC** button to exit.
- * After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.
 - * When exiting without pressing set button, the manipulated value is not reflected.
 - If reservation is set, 'turned on' indication shows up at the lower part of LCD screen, and air-conditioner product runs at the time that is set.
 - If reservation is cancelled, 'turned on' indication disappears.

Programming - OFF Reservation

Automatically turned Off at reserved time that you set.



1 Press button.

Ex) Setting OFF Reservation Time as 'AM 10:20'.

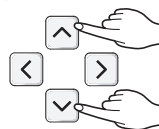


2 Repeatedly pressing button to enter the OFF reservation setting mode.
(segment flashing)



3 Press button to adjust AM/ PM setting.

AM 12:00

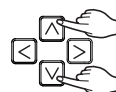


4 Press button to shift to Hour setting mode. When the Hour icon flash, please setting time.
The setting range is within 1~12.

AM 12:00



AM 10:00

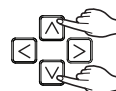


5 Press button to shift to Minute setting mode. When the Minute icon flash, please setting minute the setting range is within 00~59.

AM 10:00



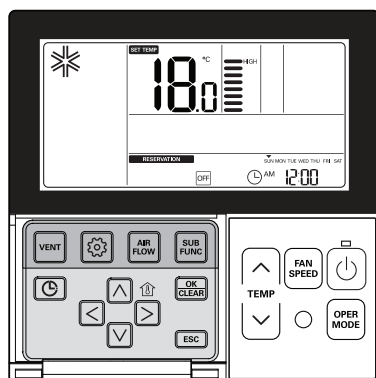
AM 10:20



6 Press button to finish setting.

AM 10:20

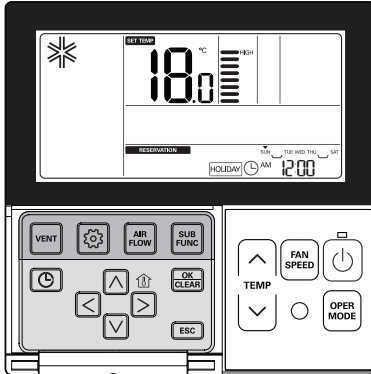




- 7** Press **ESC** button to exit.
- * After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.
 - * When exiting without pressing set button, the manipulated value is not reflected.
 - If reservation is set, 'turned off' indication shows up at the lower part of LCD screen, and air-conditioner product runs at the time that is set.
 - If reservation is cancelled, 'turned off' indication disappears.

Programming : Holiday Reservation

It automatically stops at reserved day that you set.



- 1** Please press button.
It enters into reservation
setup mode.



- 2** Please move to 'holiday' by repeatedly
pressing button.



- 3** Please move to 'date' that
you want to setup holiday
by using button.



- 4** Please appoint or cancel holiday by using
 or button.
For example, when you setup
Monday/Friday to holiday
- 'Monday', 'Friday' letter disappears.



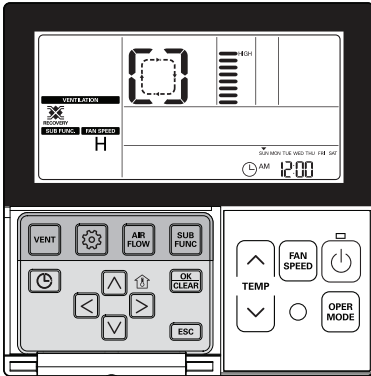
- 5** Please press button if finishing
holiday setup.

✳ If it comes to appointed holiday,
air-conditioner automatically stops.
Once you setup holiday appointment,
until before you cancel holiday setup,
air-conditioner automatically stops
within one hour even though you run
air-conditioner.

Ventilation Kit Control(Optional)

It is used when air conditioner is interlinked with ventilation product.

It is a function that cools and refreshes indoor air using the ventilation product at the same time operating the air conditioning function.



Ventilation interlinked operation

- 1** Press **VENT** button on the remote controller control panel.

- It is only used when air conditioner and general ventilation is interlinked.


- 2** Pressing 'Start/Stop' button at ventilation mode will start ventilation.
- 3** Pressing **OPER MODE** button will change the ventilation operation mode.

Pressing operation selection button will change the mode in the order of 'Heat exchange → normal → automatic'

* It only displays on the remote controller display when it is in ventilation mode, and it displays the desired temperature when it returns to air condition mode.


- 4** Pressing **FAN SPEED** button in general ventilation mode will change airflow speed.

Pressing airflow speed button will change the mode in the order of 'weak → strong → extra strong'.

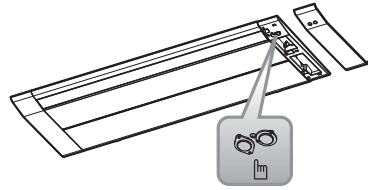
If CO₂ sensor is installed, it can select from 'weak → strong → very strong → automatic'.


- 5** Changing back to air conditioner mode

 - 1) Automatic Conversion : when no button is pressed for 15 seconds or longer, it automatically converts back to air conditioner mode.
 - 2) Manual Conversion : Pressing **VENT** button in ventilation mode will manually convert.

Forced Operation

Operation procedures when the remote control can't be used.
Press the tact switch (forced operation) for 2 seconds.
If you want to stop operation, press again the tact switch.
In case the power comes on again after power failure on the forced operation mode, the operating conditions are automatically set as follows:
During forced operation, the initial mode continues.



Forced operation
(Tact switch)

	Cooling model	Heat pump model	
		Room temperature ≥ set temperature -2 °C	Room temperature ≥ set temperature -2 °C
Operating mode	Cooling	Cooling	Heating
Indoor fan Speed	High	Set available	Set available
Setting temperature	22 °C	Set available	Set available

Auto Restart Function

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.

Tips for Filter Sign LED (Grille Type)

1. Filter sign lamp (LED) is on.
2. If LED indicating filter sign lamp is on, clean the filter.
3. After cleaning the filter, press the timer button and ◀ button of wired remote controller at the same time for 3 seconds. Then filter sign LED is off.

Maintenance and Service

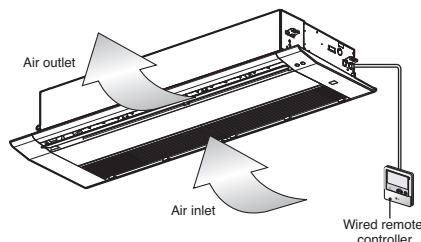
⚠ CAUTION

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

Grille, Case, and Remote Control

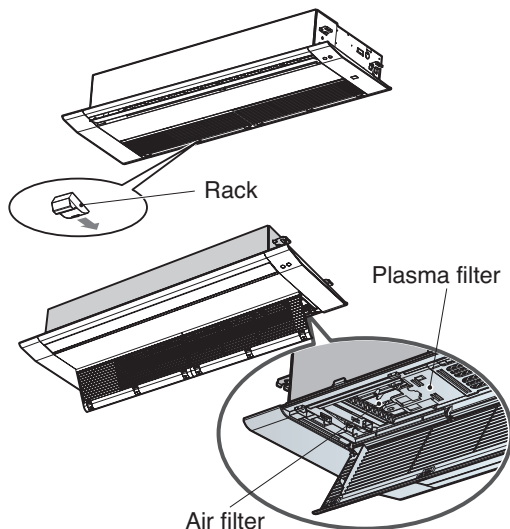
- ❑ Turn the system off before cleaning. To clean, wipe with a soft, dry cloth. Do not use bleach or abrasives.

NOTICE Supply power must be disconnected before cleaning the indoor unit.



Air Filter

The air filters behind the front grille should be checked and cleaned once every 2 weeks or more often if necessary.



TU chassis : 4 EA Rack

- ❑ 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.



1. Remove air filters.

- ❑ Take hold of the tab and pull slightly forward to remove the filter.

⚠ CAUTION

When the air filter is to be removed, do not touch the metal parts of the indoor unit. It may cause an injury.

2. Remove plasma filter.

- ❑ Unscrew 2 screws from plasma filter.

3. Clean dirt from the air filter using a vacuum cleaner or washing with water.

- ❑ If dirt is conspicuous, wash with a neutral detergent in lukewarm water.
- ❑ If hot water (50 °C or more) is used, it may be deformed.

4. After washing with water, dry well in the shade.

- ❑ Do not expose the air filter to direct sunlight or heat from a fire when drying it.

5. Install plasma filter and air filter.

Indoor Unit

Grille, Case and Remote Control

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

NOTE

Supply power must be disconnected before cleaning the indoor unit.

Air Filters

The air filters behind the front grille should be checked and cleaned once every 2 weeks or more often if necessary.



- 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.



1 Remove the Air filters.

- Take hold of the tab and pull slightly forward to remove the filter.



CAUTION: When the air filter is to be removed, do not touch the metal parts of the indoor unit.

It may cause an injury.

2 Clean dirt from the air filter using a vacuum cleaner or washing with water.

- If dirt is conspicuous, wash with a neutral detergent in lukewarm water.
- If hot water (40 °C or more) is used, it may be deformed.

3 After washing with water, dry well in the shade.

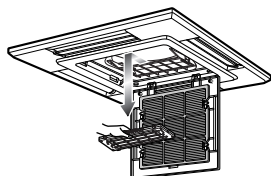
- Do not expose the air filter to direct sunlight or heat from a fire when drying it.

4 Install the air filter.

Purifying filter(Optional)

Cleaning

The PLASMA filter behind the air filters should be checked and cleaned once every 3 months or more often if necessary.



- 1 After removing the air filters, pull slightly forward to remove the PLASMA filter.
- 2 Dip the PLASMA filter into the water mixed with neutral detergent, for 20~30 minutes.
- 3 Dry the PLASMA filter in the shade for a day (Especially, the humidity must be removed perfectly on this parts).
- 4 Note the cuts of electric discharge lines.
- 5 Re-install the PLASMA filter to the original position.

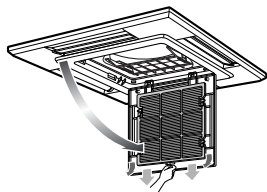


CAUTION:Don't touch this PLASMA Filter within 10 seconds after opening the inlet grille, it may cause an electric shock.

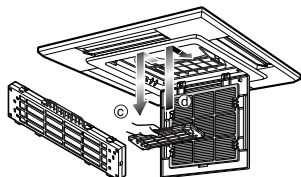
Replacement

• Recommended use period : About 2 years

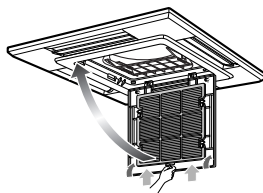
- 1 Open front panel and remove air filter.



- 2 Remove air purifying filter.
- 3 Insert new air purifying filter.



- 4 Reinsert air filter and close front panel.



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 at the following settings for 2 to 3 hours.
 - Type of operation: Fan operation mode.
 - This will dry out the internal mechanisms.

- 2** Turn off the breaker.



CAUTION

Turn off the breaker when the air conditioner is not going to be used for a long time.

Dirt may collect and may cause a fire.

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.

When the air conditioner is to be used again.

- 1** Clean the air filter and install it in the indoor unit.
- 2** Check that the air inlet and outlet of the indoor/outdoor unit are not blocked.
- 3** Check that the ground wire is connected correctly. It may be connect to the indoor unit side.

Operation Tips

Do not overcool the room.

This is not good for the 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 malfunction persist, please contact your dealer.

The air conditioner does not operate. • Have you made a mistake in timer operation? • 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 condensation 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? See air filter cleaning instructions. • 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 temperature been set incorrectly? • 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/ constriction of the front panel, etc. due to changes of temperature.	Remote control display is faint, or no display at all. • Are the batteries depleted? • Are the batteries inserted in the opposite (+) and (-) directions?

NOTICE

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.



İTHALATÇI FİRMA

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