LG
Life's Good

OWNER'S & INSTALLATION MANUAL

NEW STANDARD REMOTE CONTROLLER

Please read this installation manual completely before installing the product.
Installation work must be performed in accordance with the national wiring standards by authorized personnel only.
Please retain this installation manual for future reference after reading it thoroughly..

Model type: NEW STANDARD REMOTE CONTROLLER
Model name: PREMTB100, PREMTBB10

P/NO : MFL69312302
Rev.04_052217

TIPS FOR SAVING ENERGY

Here are some tips that will help you minimize the power consumption when you use the air conditioner. You can use your air conditioner more efficiently by referring to the instructions below:

- Do not cool excessively indoors. This may consume more electricity.
- Block sunlight with blinds or curtains while you are operating the air conditioner.
- Keep doors or windows closed tightly while you are operating the air conditioner.
- Adjust the direction of the air flow vertically or horizontally to circulate indoor air.
- Speed up the fan to cool or warm indoor air quickly, in a short period of time.
- Clean the air filter once every 2 weeks. Dust and impurities collected in the air filter may block the air flow or reduce the cooling / dehumidifying functions.

For your records

Staple your receipt to this page in case you need it to prove the date of purchase or for warranty purposes. Write the model number and the serial number here:

Model number :

Serial number :

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

Dealer's name :

Date of purchase :

IMPORTANT SAFETY INSTRUCTIONS

READ ALL INSTRUCTIONS BEFORE USING THE APPLIANCE.

Always comply with the following precautions to avoid dangerous situations and ensure peak performance of your product

⚠ WARNING

This symbol indicates potentially hazardous situation which, if not avoided could result in death or serious injury.

⚠ CAUTION

This symbol indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

⚠ WARNING

Installation

- 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, electric shock, explosion, equipment malfunction, or injury.
- Request to the service center or installation specialty store when reinstalling the installed product.
  - There is risk of fire, electric shock, explosion, equipment malfunction, or injury.
- Do not disassemble, fix, and modify products randomly.
  - There is risk of fire, electric shock, explosion, equipment malfunction, or injury.
- The product shall be installed according to the national standards and local code.
- Apply totally enclosed noncombustible conduit in case of local building code requiring plenum.
- Use appropriate unit mounting procedures.
- Avoid direct sunlight.
- Avoid moist areas.

In-Use

- Do not place flammable objects close to the product.
  - There is risk of fire, electric shock, explosion, equipment malfunction or injury.
- Do not allow product to get wet.
  - There is risk of fire, electric shock, explosion, equipment malfunction or injury.
- Avoid dropping the product.
  - There is risk of fire, electric shock, explosion, equipment malfunction or injury.
- If product gets wet, contact your dealer or authorized service center.
  - There is risk of fire, electric shock, explosion, equipment malfunction, or injury. If the instructions are not followed, it may cause death or severe injury of the user.
- Do not use sharp or pointed objects on product.
  - There is risk of fire, electric shock, explosion, equipment malfunction or injury.
- Do not touch or pull the lead wire with wet hands.
  - There is risk of product breakdown or electric shock.

⚠ CAUTION

In-use

- Do not clean using powerful detergents like solvent but use soft cloths.
  There is risk of fire, electric shock, explosion, equipment malfunction or deformation.
- Do not press the screen using powerful pressure.
  There is risk of product break-down or malfunction.

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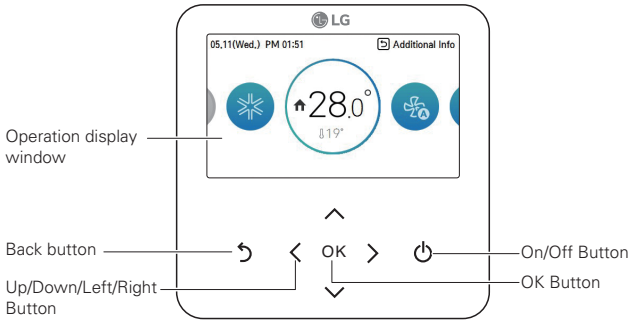
ENGLISH

DESCRIPTION

NEW STANDARD REMOTE CONTROLLER

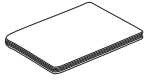


Operation display window	Operation and Settings status display
Back button	When you move to the previous stage from the menu's setting stage
Up/down/left/right button	When you change the menu's setting value
OK button	When you save the menu's setting value
On/Off button	When you turn ON/OFF the air conditioner

Accessories

Connecting cable (1 EA)

Remote controller fixing screws (4 EA)



User/Installation Manual

READ BEFORE OPERATING THE CONTROLLER

Menu Structure

Notice

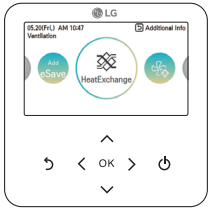
• Some functions may not work in some indoor unit products.

DESCRIPTION OF THE OPERATION

Main screen

In the main screen, press [<, >(left/right)] button to select the category to set, and you can control by pressing [∧, ∨ (up/down)] button.

< Air conditioner main screen>



<Genernal Ventilation main screen>

<Dx Ventilation main screen>

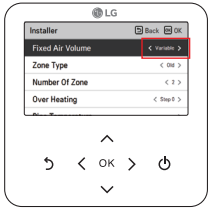
Menu screen

In the main screen, press [<, >(left/right)] button to select the menu and press [OK] button to move to menu screen.

In the menu screen, press [<, >(left/right)] button to select the category to set, and press [OK] button to move to the detail screen.

Setting screen

Select the category to set using [∧, ∨ (up/down)] button.



In each detail screen of the menu, as in the box in the left figure, when "<,>" icons are displayed at the same time, you can immediately apply the setting value by pressing [<, >(left/right)] button.

※ For the values that can be set in each category, refer to the detail manual for each function.

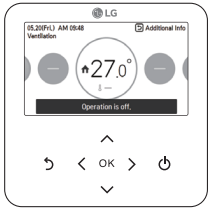
In each detail screen of the menu, as in the box in the left figure, if only ">" icon is displayed, you can move to the detail setting screen by pressing [>(right) or OK] button.

※ For the values that can be set in each category, refer to the detail manual for each function.

Popup screen

The toast message is the message displayed at the bottom of the screen when an operation is turned On/Off or if a function is set / cancelled.

The popup message is mainly displayed when an error occurred in the product.



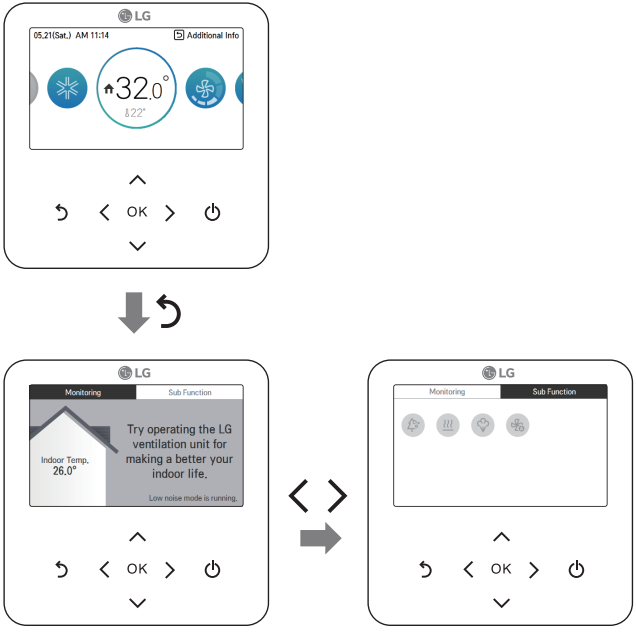
< Toast message >

< Popup message >

Monitoring / Sub function screen

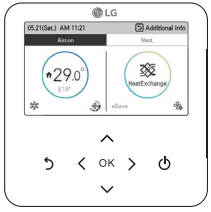
In the main screen, you can enter the monitoring / sub function screen by pressing [Back] button and then pressing [<, >(left/right)] button.

- In the monitoring screen, you can check the indoor temperature and outdoor unit monitoring information.
- In the sub function screen, you can turn on or off the sub function supported by the product.

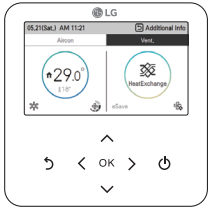


Interface screen

Select the product (air conditioner or ventilation) to set using [<, >(left/right)] button.



When you control the air conditioner and the ventilation product with one remote controller, the screen is displayed as in the side figure. You can set the air conditioner by pressing [<(left)] button and pressing [OK] button to move to the air conditioner screen.



When you control the air conditioner and the ventilation product with one remote controller, the screen is displayed as in the side figure. You can set the ventilation by pressing [>(right)] button and pressing [OK] button to move to the ventilation screen.

Returning to the screen

In the main screen, after moving to the category by pressing [<, >(left/right)] button, if there is no remote controller operation, after 10 seconds, it returns to the main screen basic position. (basic position: indoor temperature display part)

In the screens except the main screen, if there is no remote controller operation for 1 minute, it moves to the main screen.

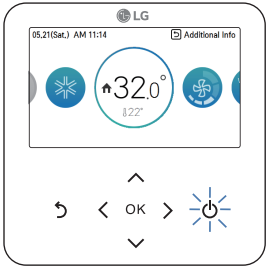
OPERATION SETTING

On / Off

Air conditioner and ventilator will be turned on or off.

Press the remote controller's ⏻ (On/Off) button.

- If the product is in operation, On/Off button will be illuminated.
  If the product is in off, On/Off button backlight will be off.



Operation mode

You can easily control the desired operation mode.

In the main screen, press [<,>(left/right)] button to select the operation mode or home leave or hold category, and press [∧, ∨ (up/down)] button to set the operation mode.

※Some products may not support some operation modes.

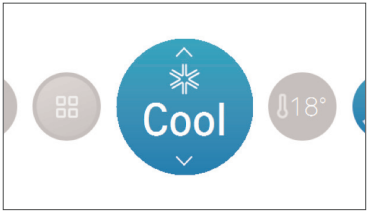
Mode	Description
Cool	Cool the room to the desired temperature.
Dry	It removes the moisture with cooling.
Heat	Heats the room to the desired room temperature.
AI / Auto	The product automatically provides the appropriate fan speed based on the temperature of the room.
Fan	Fan only operation, no cooling or heating.
Power Cool	It provides strong cooling in short time.

Cooling Operation

Cooling operation's minimum setting temperature is 18°C (16°C).

For some types of the indoor units, the desired temperature can be controlled in the units of 1°C or 0.5°C.

- Set the desired temperature lower than the indoor temperature.
- Indoor temperature is displayed on the default screen of the remote controller.
- If the setpoint is set higher than the room temperature, then the unit will remain in the cool mode but will not begin to cool unit the room temperature exceeds the setpoint.
- If you unit is operating in cooling mode and you press the [On/Off] button the cooling operation will shut off.



What is 3 minute delay function?

After the cooling stops, when the product is started right away, the reason that the cold wind does not come out is that it is the function to protect the compressor.

The compressor starts after 3 minutes and the cold wind comes out.

NOTE

The compressor starts after 3 minutes and the cold wind comes out.

In the cooling operation, you can select the desired temperature in the range of 18°C ~ 30°C (16°C ~ 30°C).
The favorable temperature difference between the indoor temperature and the outdoor temperature is 5°C.

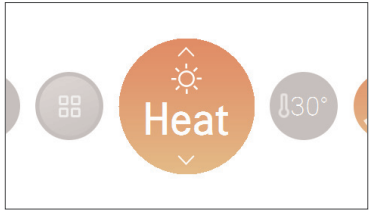
For some types of the indoor units, you can select the desired temperature in the range of 16°C ~ 30°C.

Heating Operation

The heating operation's minimum setting temperature is 16°C.

For some types of the indoor units, the desired temperature can be controlled in the units of 1°C or 0.5°C.

- Set the desired temperature higher than the indoor temperature.
- Indoor temperature is displayed on the default screen of the remote controller.
- When the desired temperature is set lower than the indoor temperature, warm air doesn't come out, but for some products, the fan will recirculate room air, or stop altogether.
- If you unit is operating in heating mode and you press the [On/Off] button the heatling operation will shut off.



NOTE

In the heating operation, you can select the desired temperature in the range of 16°C ~ 30°C.

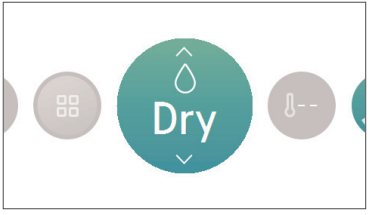
Heating operation is operated only in cooling/heating model. The heating is not operated in cooling exclusive model.

Dry Operation

Dry operation's initial fan speed is "Low".

Dry operation does not have a separate desired temperature.

- If you unit is operating in dehumidification mode and you press the [On/Off] button the dehumidification operation will shut off.



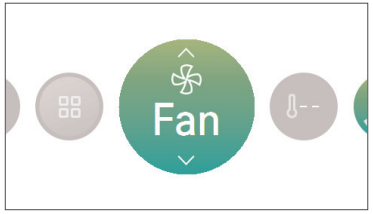
NOTE

If you use it in the rainy season, or when the humidity is high, you can have both the effective dehumidification and cooling operation at the same time.

Fan Only Operation

Fan only operation's initial wind strength is "High".
Fan only operation does not have a separate desired temperature.

- If you unit is operating in fan only mode and you press the [On/Off] button the the unit will stop.



NOTE

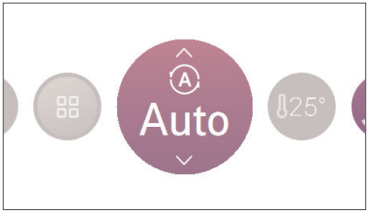
It provides the Fan only operation without temperature control, with recirculation of indoor air.

AI / Auto operation

Auto operation's initial desired temperature is 25°C.
The cooling exclusive model's initial desired temperature is "It's Fine".
Cooling/heating model's desired temperature can be controlled in the units of 1°C or 0.5°C.
For cooling exclusive model, the value can be controlled from "hot" stage to "cold" stage.

- Hot
- A little hot
- It's fine
- A little cold
- Cold

- If you unit is operating in ai/auto mode and you press the [On/Off] button the ai/auto operation will shut off.



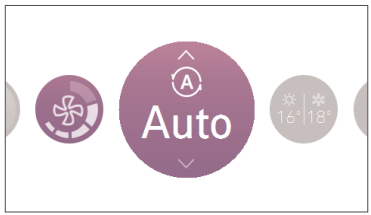
NOTE

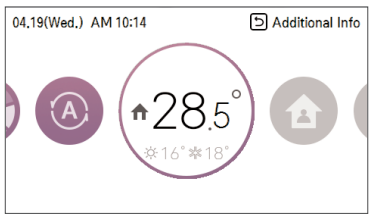
If the product is a cooling/heating model, in the auto operation, the desired temperature can be selected in the range of 18°C ~ 30°C.
If it does not operate as you wish, select another operation mode.

Dual setpoint auto operation

The indoor unit automatically manages room temperature with extended heating and cooling setting temperature ranges.

Dual setpoint auto mode can be set in the USER SETTING. This is recommended in North America region.





NOTE

- Auto heating function only operates on cooling and heating models.
- Auto heating function doesn't operate on cooling only models.
- When remote controller has a connection with indoor unit that does not support 'dual setpoint', thermal operation function of indoor unit is replaced with ON/Off control from the wired remote, when the user sets target temperatures in the below ranges.
  - cooling target temp. range : 87~99 °F (30.5~37.5 °C)
  - heating target temp. range : 40~59 °F (4~15.5 °C).

Power Cool Operation

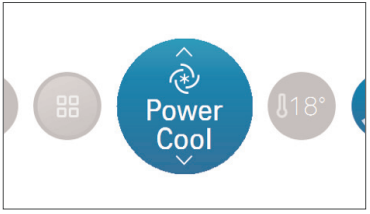
Power cooling quickly lowers the indoor temperature.

Desired temperature: 18°C

Fan speed : Power fan speed

fan direction: Current fan direction

- During the power cooling, if fan speed or desired temperature is changed, the power cooling is cleared, and it operates in the cooling operation mode.
- During the power cooling, if you press [On/Off] button, the power cooling operation stops, and when you press [On/Off] button again, it operates in the cooling operation mode.



OPERATION SETTING - VENTILATOR

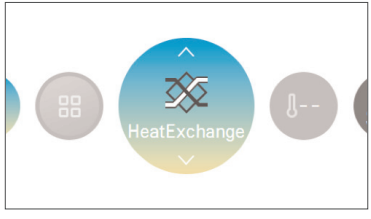
Operation mode

Ventilation (general and direct cooling type ventilation) operation mode supports the following operation modes.

※Some products may not support some operation modes.

Mode	Classification	Description
Auto	Ventilation operation mode – commonly supported by ventilation products	It measures the ventilation system's indoor temperature and the outdoor temperature for the automatic operation in the optimal ventilation mode state.
Heat Exchange		It is the mode of ventilation with both supply/discharge through the heat exchanger. It is adequate to use in summer/winter where the indoor/outdoor temperature difference is big.
Bypass		It is the ventilation where the exhausted air is ventilated without going through the exchanger. It is adequate to use in spring/fall or when the indoor contamination is severe.
Cool	Air conditioner operation mode – supports direct cooling type ventilation	Cools down the room to desired temperature.
Heat		It provides warm air to the room.
Auto		The product automatically provides the appropriate fan speed based on the temperature of the room.
Stop		It stops the product's air conditioner operation.

In the main screen, press [<,>(left/right)] button to select the operation mode category, and press [∧, ∨ (up/down)] button to set the operation mode.



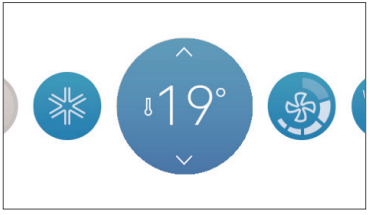
※The direct cooling type ventilation's air conditioner operation mode is composed separately from the ventilation operation mode.

TEMPERATURE SETTING

Controlling Desired Temperature

You can easily control to the desired temperature.

- In the main screen, press [<,>(left/right)] button to select the desired temperature category, and press [∧, ∨ (up/down)] button to set the desired temperature.
  - In the cooling, heating, and AI/auto mode, the desired temperature control is possible.



Mode	Description
Cool	If the desired temperature is higher than the indoor temperature, the cooling is not performed. Set the desired temperature lower than the indoor temperature. You can select in the range of 18°C ~ 30°C (16°C ~ 30°C).
Heat	If the desired temperature is lower than the indoor temperature, the heating is not performed. Set the desired temperature higher than the indoor temperature. You can select in the range of 16°C ~ 30°C.
AI / Auto	For cooling/heating product, you can select in the range of 18°C ~ 30°C. For cooling exclusive product, you can select Hot, A little hot, Adequate, A little Cold, and Cold.

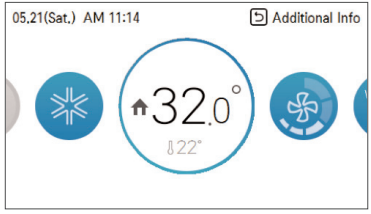
NOTE

The favorable temperature difference between the indoor temperature and the outdoor temperature is 5°C.

Check Room Temperature

You can check the current indoor temperature.

• In the remote controller's the main screen, you can check the indoor temperature.



NOTE

The temperature distribution in the remote controller installation space is not uniform, so there can be a little difference between the temperature you actually feel and the remote controller's room temperature display

According to Control type setting value

• Single setpoint
Fahrenheit: 52~99 °F
- below 52 °F: display 'LO'
- over 99 °F: display 'HI'
Celsius: 10.5~39.5 °C
- below 10.5 °C: display 'LO'
- over 39.5 °C: display 'HI'

• Dual setpoints
Fahrenheit: 34~99 °F
- below 34 °F: display 'LO'
- over 99 °F: display 'HI'
Celsius: 0.5~39.5 °C
- below 0.5 °C: display 'LO'
- over 39.5 °C: display 'HI'
- For indoor temperature below 50 °F (10 °C), the value perceived by the Thermostat(with cable) is displayed.

• Because of location of Temperature sensing, the real room temperature and the this displayed value can be different.

WIND SETTING

Fan speed control

From the main screen, press [<,>(left/right)] button to select the fan speed category, and press [∧, ∨ (up/down)] button to set the fan speed control the desired fan speed.

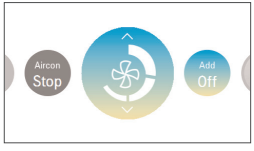
- It circulates in the order of Slow ↔ Low ↔ Medium ↔ High ↔ Power ↔ Auto.

※For some product some fan speed may not be available.

Fan speed control - ventilation

You can easily control the desired fan speed.

• In the main screen, press [<,>(left/right)] button to select the fan speed category, and press [∧, ∨ (up/down)] button to set the fan speed.
- It circulates in the order of low ↔ high ↔ power ↔ auto.



※The auto Fan can be used only when the air contamination (CO_2) sensor is installed.

Air flow control

You can easily control the desired air flow

• In the main screen, press [<,>(left/right)] button to select the air flow category, and press [∧, ∨ (up/down)] button to set the air flow.
- It circulates in the order of Off ↔ Up/Down swing ↔ Left/Right swing ↔ Up/Down/Left/Right swing ↔ Swirl ↔ Indirect wind ↔ Direct wind↔Human detection direct wind↔Human detection indirect wind.

※For some product some air flow settings may not be available.

HOME LEAVE SETTING

Home leave (Unoccupied Mode)

The "Home Leave" function enables proper operation of indoor unit when a space is left for a period of time.

This feature can only be used when Control type setting is set to the Dual Set Point Control mode

NOTE

User can not change indoor unit status with wired remote controller while set 'home leave mode' except for 'home leave mode' release control.

- Home leave mode will be released if indoor unit operation was changed by commands of other controllers(central controller, drycontact and wireless remote controller).
- When occupied schedule event occurs while operate a home leave mode, home leave mode will be released and indoor unit status follow the occupied schedule event.
- Indoor unit operation change as below when the home leave mode is released.
  - The setpoints and operation mode values are reflected in the control events of the scheduled events that are currently applied.
  - If there are no schedule events, the setpoint shall be applied as last setpoints before the home leave operation.
  - If there are no setpoints before the 'home leave' operation(dehumidification or fan mode), default values will be applied to the setpoints.
  - Default values : dual setpoint auto , heat 60 °F(16 °C), cool 86 °F(30 °C)

HOLD SETTING

Hold

User can use this function when they want to manage indoor unit as home leave control mode only.

NOTE

Can not change indoor unit status with wired remote controller while set 'hold mode' except for 'hold mode' release control.

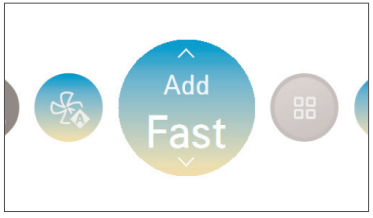
- Hold mode will be released if indoor unit operation was changed by commands of other controllers(central controller, drycontact and wireless remote controller).
- A scheduled event is not applied to the indoor unit during a hold mode, even if a scheduled event is set.

ADDITIONAL OPERATION –VENTILATION

Additional operation

You can change the additional operation of the ventilation product.

- In the main screen, press [<,>(left/right)] button to select the additional operation category, and press [∧, ∨ (up/down)] button to set the additional operation.



Additional Operation	Description
Fast	It ventilates in short period of time. It is the function to operate the ventilation function more efficiently through the express setting which is an additional operation of the ventilation product.
Energy saving	It performs the energy saving function while ventilating efficiently.

NOTE

The general ventilation and the direct cooling type ventilation's additional operation are the same.

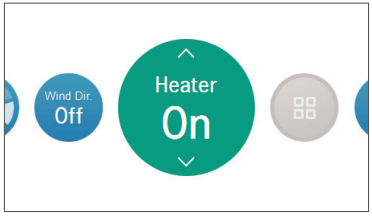
The ventilation product's additional functions (air cleaning / heater / humidification / fan auto) setting methods are the same as the air conditioner.

EXTERNAL EQUIPMENT CONTROL SETTING

External equipment control

It is the function to set the contact point output of the external equipment control mode.

- In the main screen, press [<,>(left/right)] button to select the external equipment control category, and press [∧, ∨ (up/down)] button to set the contact point output.



Mode	Description
On	When it is set to "On", it always performs the contact point output.
Off	When you set it to "Off", it does not perform the contact point output in any case.
Auto	When it is set to "auto", the contact point output is decided according to the user setting's external equipment logic setting value.

NOTE

Please use the corresponding function when the external equipment is actually connected.

When the external equipment is not set, please maintain "Off" status.

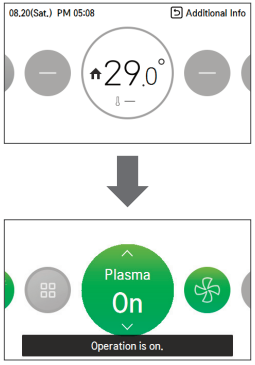
For the detail external equipment control condition setting, refer to the user setting - external equipment logic setting.

PLASMA PURIFICATION SETTING

Plasma Purification

It cleans and makes pleasant indoor air.

1. Plasma Purification - single operation
   If plasma purification is turned on in operation Off state, plasma purification single operation is performed.

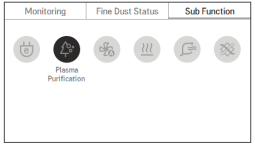


In case of plasma purification single operation, it operates in fan mode / automatic wind state, and the wind direction operated before the plasma purification single operation is turned off.

There are 3 ways to end the plasma purification single operation.

1) Input of On/Off button during plasma purification single operation
2) Select plasma purification OFF
3) Change operation mode during plasma purification single operation

2. Plasma purification - additional operation



NOTE

- If mode is changed during plasma purification single operation, it is switched to the air cleaning additional operation.
- Air cleaning operation may not be displayed or performed in some products.

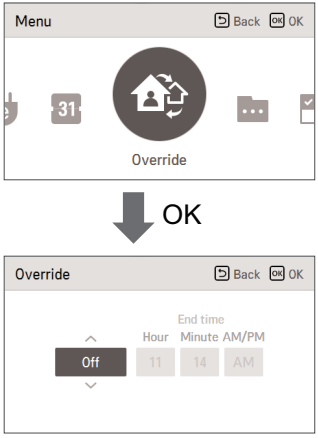
OVERRIDE CONTROL SETTING

Override control

In dual setpoint setting, wired remote controller can manages indoor unit status based on programmed control events which have occupancy option.

Override control function switches between 'occupied' and 'unoccupied', and vice-versa.

User can set timer option which can return to original schedule event in override function menu.



NOTE

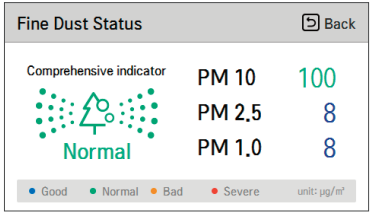
- If there are no 'occupied' schedule event when operate 'override' control, wired remote controller change indoor unit operation as below default setting value.
  - operation mode : Auto
  - target temperature : 86 °F(30 °C)(cool), 60 °F(16 °C)(heat)
- If there are no 'unoccupied' schedule event when operate 'override' control, wired remote controller change indoor unit operation as 'home leave' mode default value.
  - operation mode : Auto
  - target temperature: 'home leave' target temperature.
- If wired remote controller received command from other controller, 'Override' operation will be released.
- When schedule event occurs while operating an override mode, override mode will be released and indoor unit status follow the schedule event.

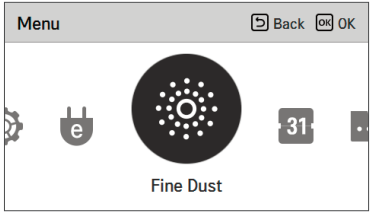
MONITORING SCREEN

How to enter fine dust status screen

- In the main screen, press [Back] button to move to monitoring/additional functions screen, and press [<, > (left/right)] button to move to fine dust status screen. (Method 1)

- In the menu screen, press [<, > (left/right)] button to select the fine dust screen category, and press [OK] button to move to the fine dust status screen. (Method 2)

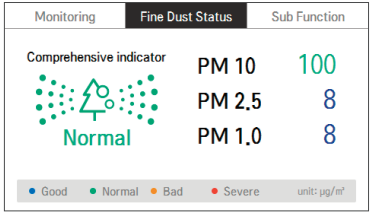


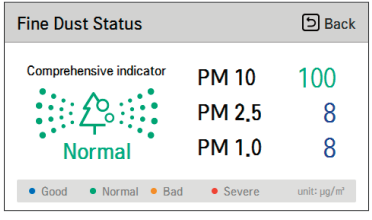


Fine dusts status

It is the function to monitor dust value measured by the dust sensor mounted inside the air conditioner.

- In the fine dust status screen, you can check fine dust, ultra fine dust, and super ultra fine dust concentration values.
- The overall index displays the worst dust status value among the three dust status values.





NOTE

- The fine dust status may not be displayed in some products.
- Fine dust status can be checked only when the product is in operation.

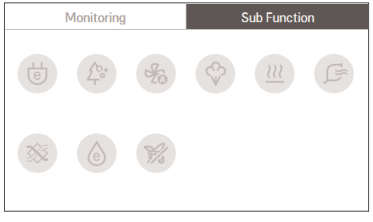
SUB FUNCTION SETTING

Sub function entrance and setting method

In the menu screen, press [<,>(left/right)] button to select the sub function category, and press [OK] button to move to the sub function setting list screen.

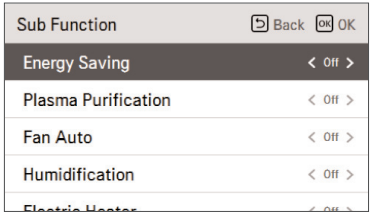
In the sub function setting list screen, if you press [<, >(left/right)] button, you can turn on/off the corresponding sub function. (method 1)

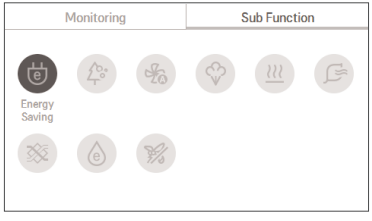
In the main screen, press [Back] button to move to the monitoring/sub function screen, and press [<,>(left/right)] button to move to the sub function screen. In the sub function screen, select the sub function category to set, and if you press [OK] button, you can turn on/off the corresponding function. (method 2)



Energy Saving Setting

The energy saving cooling function is the function to control the desired temperature during the cooling operation to improve the comfort of the user and to improve the power saving performance.





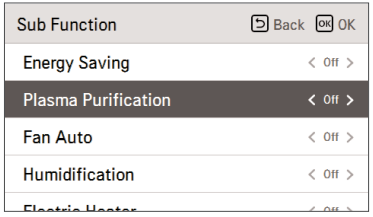
NOTE

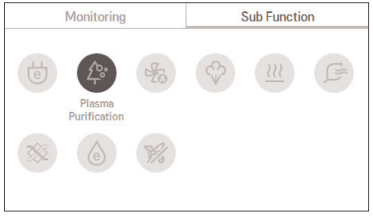
The energy saving function is an additional function, and it may not be displayed/operated in some products.

The energy saving function is possible only when the product is in the cooling operation.

Plasma Purification Setting

It makes the indoor air clean and pleasant.





NOTE

The air cleaning function is an additional function, and it may not be displayed/operated in some products.

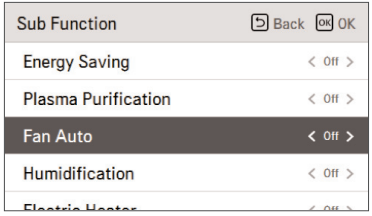
The air cleaning function is possible only when the product is in operation.

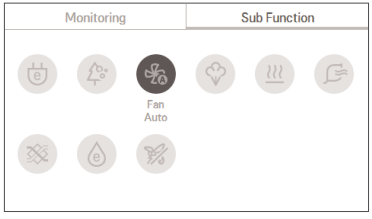
If you want air cleaning single operation, set air cleaning in the wind only operation.

Fan Auto Setting

Select fan operation after performing thermal control of indoor units.

If set to 'ON', fan operation keeps on after thermal operation of indoor units.



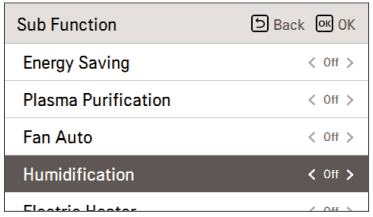


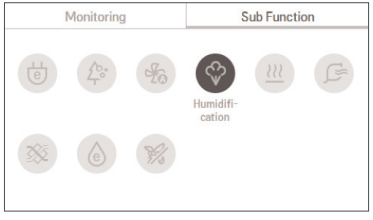
NOTE

The fan auto function is an additional function, and it may not be displayed/operated in some products.

Humidification setting

It is the function to activate the humidifier installed in the product when the indoor air is dry.



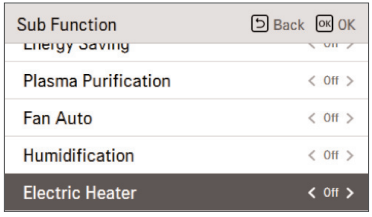


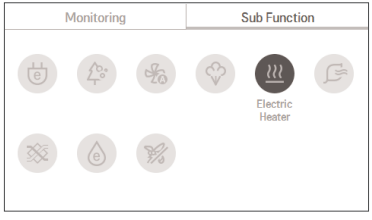
NOTE

The humidification function is an additional function, and it may not be displayed/operated in some products.

Electric Heater Setting

It is the function to reinforce the heating capability by turning on the electric heater during the heating operation.





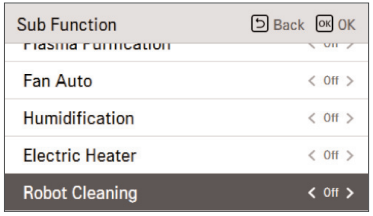
NOTE

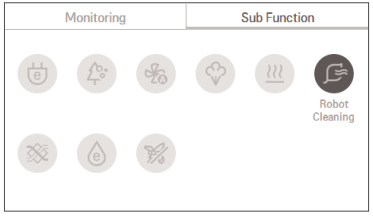
It can be set only in the heating operation.

The heater function is an additional function, and it may not be displayed/operated in some products.

Robot Cleaning Setting

Robot cleaning function is the function to automatically perform the filter cleaning with the cleaner in the product when the air conditioner is used for certain period of time.





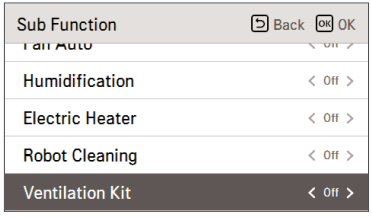
NOTE

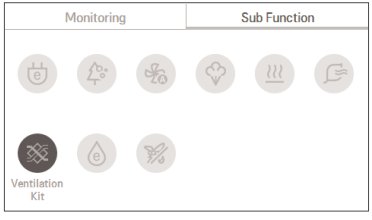
It can be set 30 seconds after the operation stopped.

The robot cleaning function is an additional function, and it may not be displayed/operated in some products.

Ventilation kit Setting

Function enables operation of an optional ventilation kit with indoor units



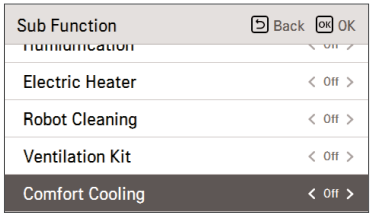


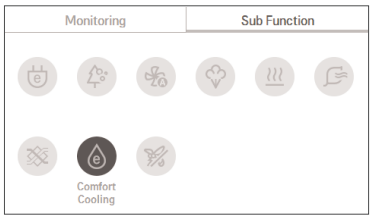
NOTE

The ventilation kit function is an additional function, and it may not be displayed/operated in some products.

Comfort Cooling Setting (air conditioner / DX ventilator)

The comfort cooling is the function to automatically control the cooling strength to maintain the pleasant feeling without turning off the product after the indoor temperature reached the desired temperature.





NOTE

The comfort cooling function is an additional function, and it may not be displayed/operated in some products.

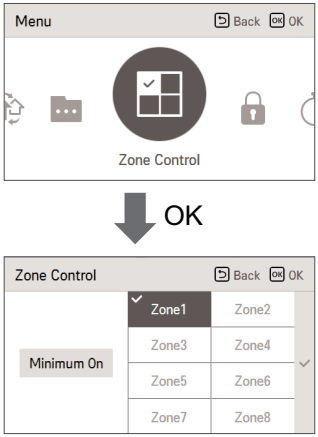
The comfort cooling function is only possible when the product is in the cooling operation.

ZONE CONTROL SETTING

Zone Control

A function to control zone with duct type indoor units.

Wired Remote controller can control maximum 8 zones.



NOTE

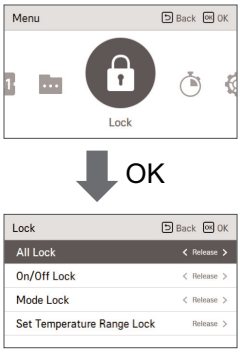
According to installation setting value

- If no function is supported this entry can not function.
- Old type
  - Zone control is currently only available to monitor.
- New type(4zone or 8Zone)
  - Any number of zones is installed is displayed on the screen can be controlled.

LOCK SETTING

How to enter lock setting

- In the menu screen, press [<,>(left/right)] button to select “lock setting” category, and press [OK] button to move to the lock setting list screen.
- In the lock setting list, if you press [∧ , ∨ (up/down)] button, you can turn on/off the corresponding lock function.



Lock setting – all, on/off, mode, temperature range lock

- It is the function to lock the button operation of the remote controller so that children or other persons cannot use it without permission.
- It is the function to limit the desired temperature range that can be set in the wired remote controller.

Lock	Description
All lock	It locks all button operation of the remote controller.
On/Off lock	It locks the On/Off button operation of the remote controller.
Mode lock	It locks the operation mode button operation of the remote controller.
Temperature range lock	It is the function that can limit the range of the desired temperature that can be set in the wired remote controller. - Single: Lower limit : 16~30 °C (60~86 °F) Upper limit : 16/18~30 °C (60/64~86 °F) - Dual : Cooling : 50~99 °F (10~37.5 °C) Heating : 40~90 °F (4~32 °C)

NOTE

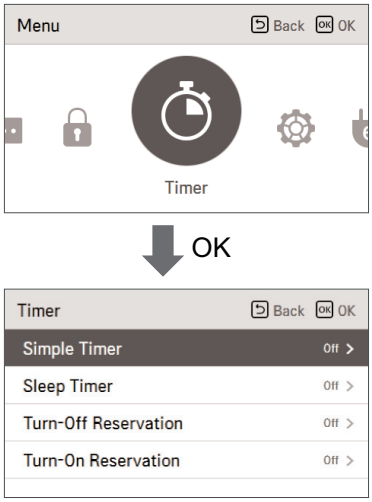
In the central controller, when the central control temperature range lock is set, the wired remote controller’s temperature lock setting is cleared.

The temperature change by external equipment is reflected regardless of the remote controller temperature range lock.

TIMER SETTING

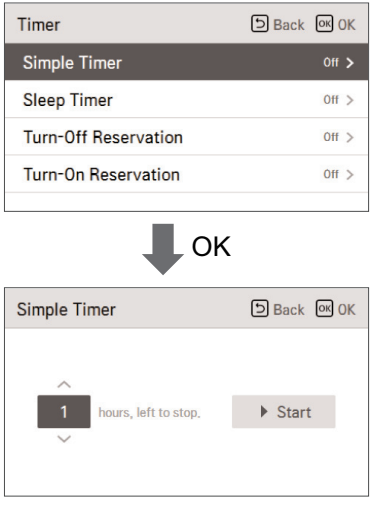
Timer entrance and setting method

- In the menu screen, press [<,>(left/right)] button to select the timer category, and press [OK] button to move to the timer setting list screen.
- In the timer setting list screen, press [∧, ∨ (up/down)] button to select the timer to set, and press [OK] button to move to the detail screen.
- After setting the value, when you press [OK] button, the timer is activated.
- After setting the value, if you press [Back] button, the changed value will not be applied.



Simple timer

You can easily set the timer in the range of 1~7 hours in the units of 1 hour.



NOTE

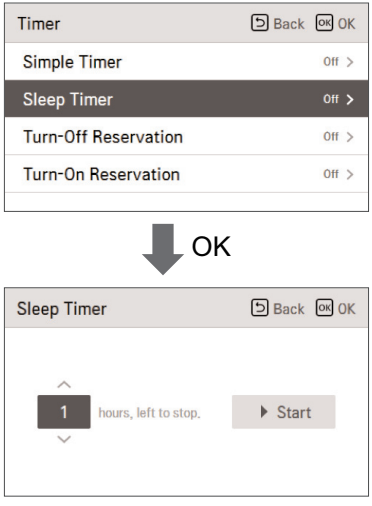
If the product operation is On, the easy timer turns off the operation after the corresponding time.

If the product operation is Off, the easy timer turns on the operation after the corresponding time.

If the easy timer operation is turned On/Off before the timer operation, the set timer will be cleared.

Sleep timer

Sleep timer is the function to operate the air conditioner in sleep mode before going to sleep for certain hours and stop the operation.



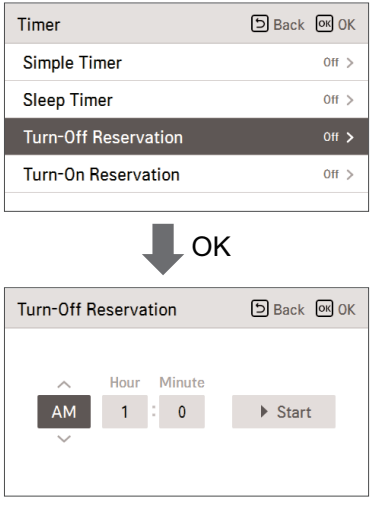
NOTE

You can set the sleep timer while the product is in operation.

If the sleep timer operation is turned On before the timer operation, the set timer will be cleared.

Turn-off Reservation

The product is automatically turned Off at the set timer time.

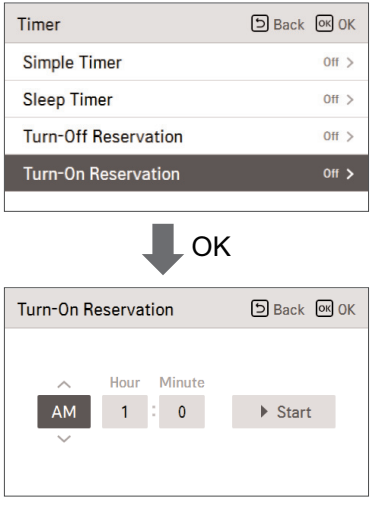


NOTE

Even if the Turn-off Reservation operation is turned On/Off after the setting and before the timer operation, the set timer is not cleared.

Turn-on Reservation

The product is automatically turned On at the set timer time.



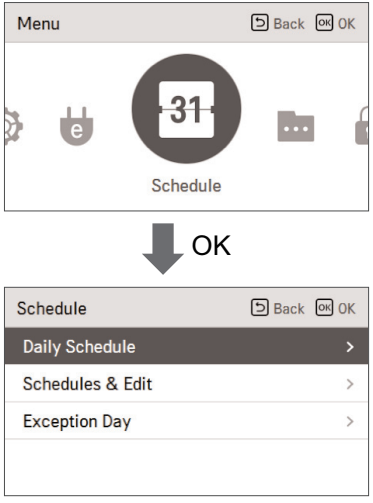
NOTE

Even if the Turn-on Reseravation operation is turned On/Off after the setting and before the timer operation, the set timer is not cleared.

SCHEDULE SETTING

How to enter schedule

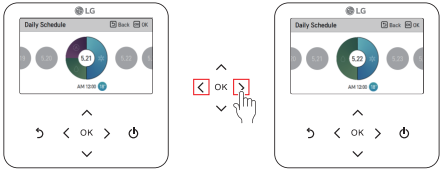
- In the menu screen, press [<,>(left/right)] button so select the schedule category, and press [OK] button to move to the schedule setting list screen.
- In the schedule setting list screen, press [∧, ∨ (up/down)] button to select the menu to set, and press [OK] button to move to the detail screen.



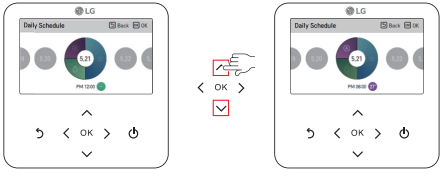
Daily Schedule

It is the function that can check the status of the timer (schedule) saved in the remote controller.

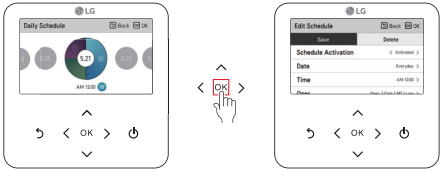
- In the schedule list, select the daily schedule status category, and press [OK] button to move to the detail daily schedule status screen.
- You can use the remote controller's [<,>(left/right)] button to check the timer information of other dates.



- You can use the remote controller's [∧, ∨ (up/down)] button to check the corresponding date's other timer information.



- Select the timer information, and press [OK] button to move to the corresponding timer's edit screen.



NOTE

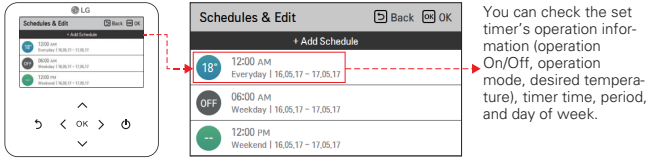
In the daily schedule status screen, even if the timer (schedule) is set, if the corresponding date is designated as an exception date, the schedule will not be performed.

Less than 5 schedules per day is recommended.

Schedules & Edit

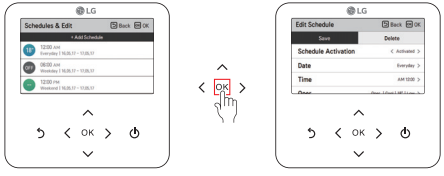
It is the function that can check the status of the timer (schedule) saved in the remote controller.

- In the schedule list, select the daily schedule status category, and press [OK] button to move to the daily schedule status detail screen.
- You can use the remote controller's [<,>(left/right)] button to check other date's timer information.



You can check the set timer's operation information (operation On/Off, operation mode, desired temperature), timer time, period, and day of week.

- You can edit the saved schedule's timer information.
  - Select the schedule to edit using [∧, ∨ (up/down)] button, and press [OK] button to move to the edit screen.



- Select the timer information, and press [OK] button to move to the corresponding timer's edit screen.

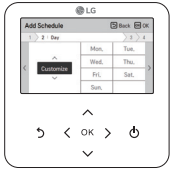
< If schedule is changed >

< If schedule is deleted >

Schedules & Edit – Add schedule

Description of each stage in Add schedule

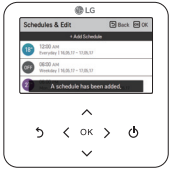
Stage 1. Period setting



Stage 2. Day of week setting

Stage 3. Time setting

Stage 4. Operation setting



Add schedule is completed

In 'Stage 1', it sets the period to perform the timer.

In 'Stage 2', it sets the day of week to perform the timer.
- You can select 'Everyday / Weekend / Weekdays / Individual selection'.

In 'Stage 3', it sets the start time for the timer.

In 'Stage 4', it sets the timer operation information.
- If 'Stop' is selected, you cannot set the mode / temperature / fan speed.

When stages 1~4 are completed, along with the message of 'schedule is added', it moves to View and edit schedule screen.

Exception day

It is the function to automatically stop the operation on the set timer day.

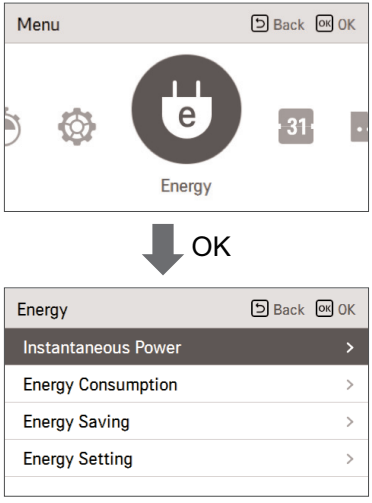
- In the schedule list, select the exception day category, and press [OK] button to move to the Exception day designation detail screen.
- In the exception day, you can check, and add/change/delete the exception day information saved in the remote controller.
  - To add an exception day, in the Exception day registration detail screen, designate year/month/day, and press [OK] button to save the Exception day.
  - Select the Exception day to edit using [∧, ∨ (up/down)] button, and press [OK] button to move to the edit screen.

- In the exception day edit screen, you can check, delete/change the corresponding exception day's setting contents.
- When you change the exception day information, you need to save it after the change.

ENERGY (air conditioner / DX ventilator)

How to enter energy

- In the menu screen, press [<,>(left/right)] button to select the energy category, and press [OK] button to move to the energy list.

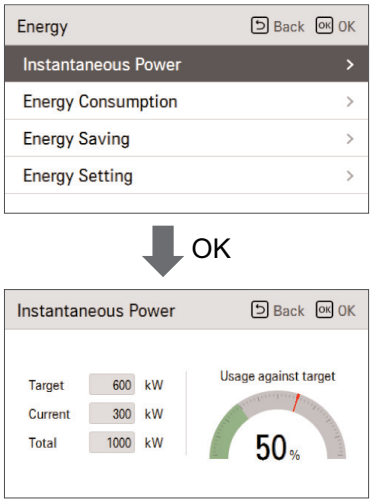


Instantaneous power check

It is the function that can check the product's instantaneous power.

※There may be some error with the actual instantaneous power, so use it only for reference.

- In the energy list, select the "Instantaneous power" category, and press [OK] button to move to the detail screen.



- The target and the value of all can be set in the energy setting.
- The usage ratio compared to the target is the value expressed in current/target * 100.

※For how to set the energy, refer to the energy setting.

NOTE

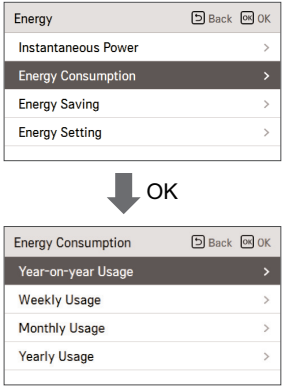
Instantaneous power: It is the power currently used in the product.

Energy consumption

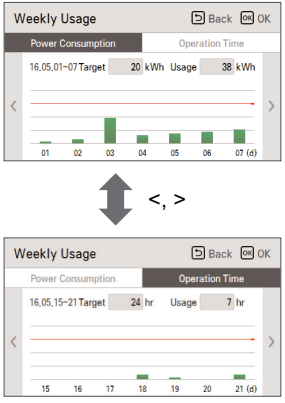
You can check the energy consumption (operation time, power consumption).

※There may be some error with the actual consumption, so use it only for reference.

- In the energy list, select the "energy consumption" category, and press [OK] button to move to the detail screen.



- In the detail screen, press [<,>(left/right)] button to move to the power consumption and operation time screen.



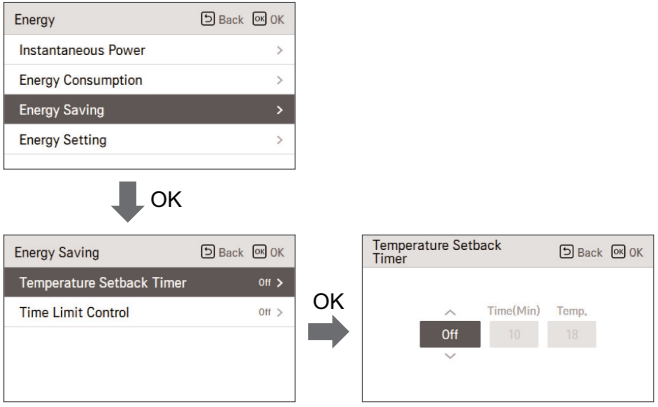
- Operation time unit is time (hr.), and power consumption unit is kWh.
- The power consumption display can be checked when it is connected to the indoor unit that supports the power consumption information display function.

List	Description	
	Power consumption	Operation time
Year On Year Usage	You can see the power consumption compared to the same month of the previous year.	You can see the operation time compared to the same month of the previous year.
Weekly usage	It displays the daily power consumption of the current month.	It displays the daily operation time of the current month.
Monthly usage	It displays the weekly power consumption of the current month.	It displays the weekly operation time of the current month.
Yearly usage	It displays the monthly power consumption of the current year.	It displays the monthly operation time of the current year.

Energy saving - Temperature Setback Timer

It is the function to return to the desired temperature after the set time after the product operation for energy saving.

- In the energy list, select “Energy saving” category, and press [OK] button to move to the energy saving screen.
- In the energy saving list, select “Temperature Setback Timer” category, and press [OK] button to move to the Temperature Setback Timer setting screen.



- When it is set to On, you can set the time (10 minutes ~ 120 minutes, 10 minutes unit) and the temperature (18°C ~ 30°C), and after the setting, when you press [OK] button, the set value is saved.
- When the desired temperature setback timer setting is set to “On”, after the set time, the desired temperature is recovered to the set temperature.

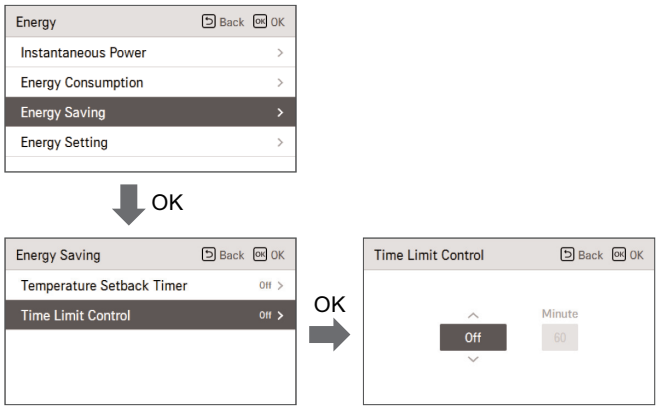
NOTE

When it is set at the same time with the remote controller desired temperature range lock or the central control temperature range lock, it may not return to the desired temperature.

Energy saving - Time Limit Control

It is the function to stop the product operation after the set time after starting the product operation for the energy saving.

- In the energy saving list, select "time limit control" category, and press [OK] button to move to the time limit control setting screen.



- In the detail screen, you can select "On/Off" to turn on and off the time limit control function. When it is set to On, you can set the time (30 minutes ~ 540 minutes, 30 minutes unit), and after the setting, if you press [OK] button, the set value is saved.
  If you do not press [OK] button but press [Back] button, it moves to the list screen without saving the set value.
- If the time limit control is set to "On", the operation stops after the set time.

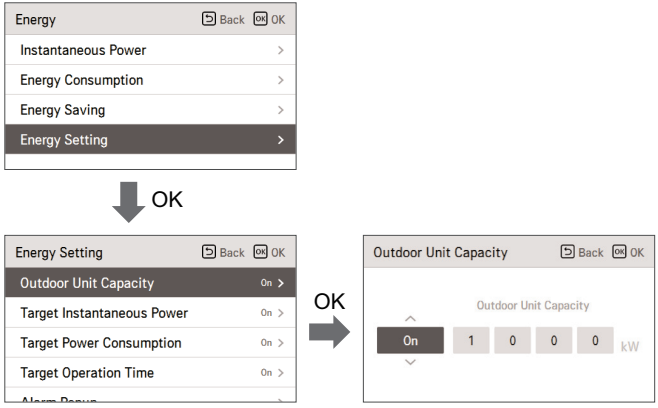
NOTE

If it is set at the same time with the remote controller operation lock, the time limit control will not be performed.

Energy setting - outdoor unit capacity setting

It is the function that can set the outdoor unit capacity.

- In the energy list, select "energy setting" category, and press [OK] button to move to the energy setting screen.
- In the energy setting list, select "outdoor unit capacity setting" category, and press [OK] button to move to the outdoor unit capacity setting screen.



- In the detail screen, you can select "On/Off" to set the outdoor unit capacity. If it is set to On, you can set the outdoor unit capacity (minimum 1kW), and after the setting, if you press [OK] button, the set value is saved. If you do not press [OK] button but press "Back' button, it moves to the list screen without saving the set value.
- If the capacity setting is set to "On", in the Instantaneous power screen, it is displayed as "all" capacity.
- For the outdoor unit capacity, refer to the label of the outdoor unit product.
  - For Single product and Multi product, the first 3 digits of the model name is the outdoor unit capacity.
    ex) For ABC1019…, it is 10.1kW
  - For Multi-V product, the first 2 digits of the model name < 0.75 is the outdoor unit capacity.
    ex) For ABCD101…., it is 10 * 0.75 = 7.5kW
- For TMS users, refer to the all capacity displayed on TMS.

NOTE

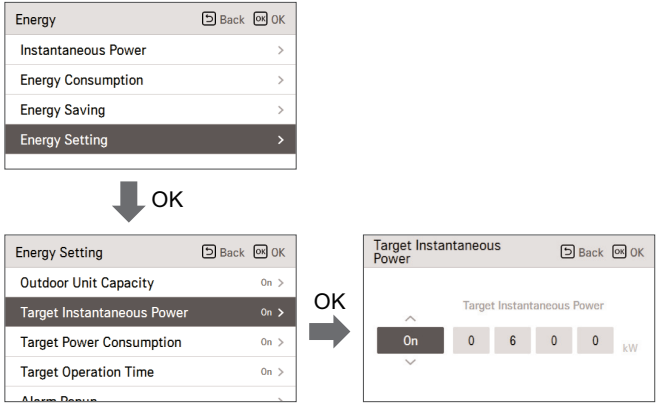
According to the user input, there may be difference to the actual product capacity.

Energy setting - target instantaneous power setting

It is the function that can set the Instantaneous power's target value.

You can set the target value to find the power consumption status.

- In the energy setting list, select "target Instantaneous power" category, and press [OK] button to move to the target Instantaneous power setting screen.

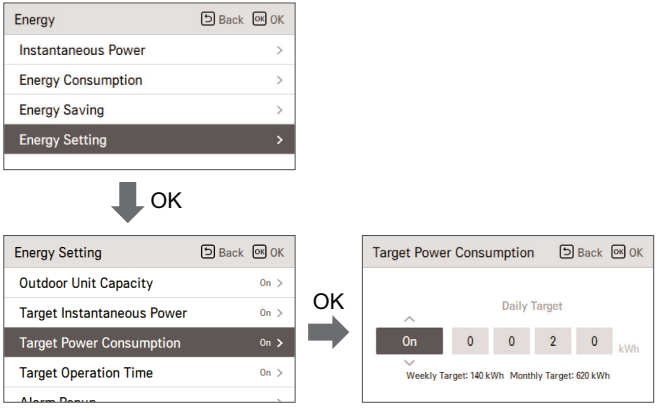


- In the detail screen, you can select "On/Off" to set the target Instantaneous power.
  If it is set to On, you can set the target Instantaneous power (minimum 1kW), and after the setting, if you press [OK] button, the set value is saved.
  - If the outdoor unit capacity is set, the maximum value is the outdoor unit capacity
  - If the outdoor unit capacity is not set, the maximum value is 9999kW
    If you do not press [OK] button but press "Back' button, it moves to the list screen without saving the set value.
- When the target Instantaneous power setting is set to "On", in the Instantaneous power screen, it is displayed as "all" capacity.

Energy setting - target power consumption

It is the function to set the target power consumption per hour.

- In the energy setting list, select "target power consumption" setting category, and press [OK] button to move to the target power consumption setting screen.



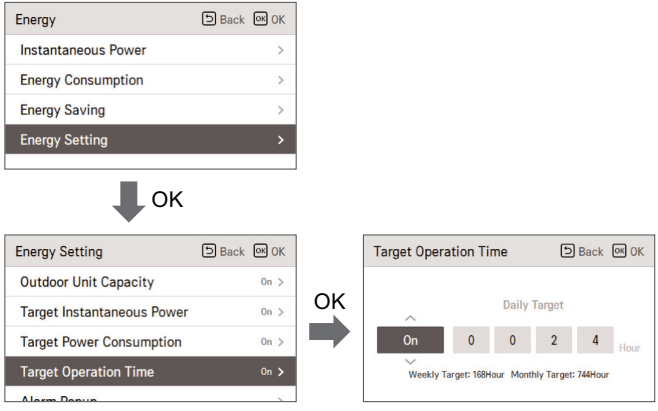
- In the detail screen, you can select "On/Off" to set the target power consumption.
  When it is set to On, you can set the target power consumption (minimum 1kWh, maximum 100kWh), and after the setting, if you press [OK] button, the set value is saved.
  If you do not press [OK] button but press "Back' button, it moves to the list screen without saving the set value.
- If the target power consumption setting is set to "On", it is displayed as the energy consumption's power consumption target value.
  - Daily target consumption: Weekly usage's daily target
  - Weekly target consumption: Monthly usage's weekly target (daily target * 7)
  - Monthly target consumption: Yearly usage's monthly target (daily target * 31)

Energy setting - target operation time

It is the function that can set the Instantaneous power's target value.

You can find the power consumption status by setting the target value.

- In the energy setting list, select "target operation time" category, and press [OK] button to move to the target operation time setting screen.

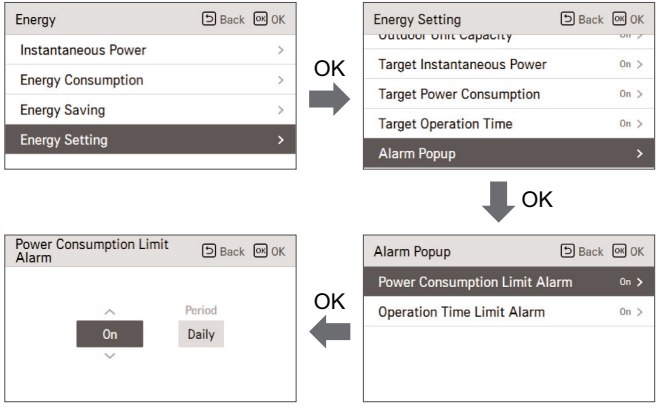


- In the detail screen, you can select "On/Off" to set the target operation time.
  When it is set to On, you can set the target operation time (minimum 1hr. and maximum 24hr.), and after the setting, if you press [OK] button, the set value is saved.
  If you do not press [OK] button but press "Back' button, it moves to the list screen without saving the set value.
- If the target operation time setting is set to "On", it is displayed as the energy consumption's operation time target value.
  - Daily target : Weekly usage's daily target
  - Weekly target : Monthly usage's weekly target (daily target * 7)
  - Monthly target : Yearly usage's monthly target (daily target * 31)

Energy setting - Alarm Popup Setting

It is the function to set whether to use the target power consumption and the target operation time notice popup window.

- In the energy setting list, select "target operation time" category, and press [OK] button to move to the target operation time setting screen.
- In the notice popup list, select "target power consumption notice or target operation time notice" category, and press [OK] button to move to the detail setting screen.



- You can set the notice popup as "daily", "weekly", "monthly".
  After the setting, if you press [OK] button, the setting is saved and moves to the previous screen.
- When the target power consumption notice is set to "On, daily"
  If the daily target power consumption's 80%, 90%, 95%, and 100% power is used a day, the popup screen appears.
- When the target operation time notice is set to "On, daily"
  When the product is operated at the daily target operation time's 80%, 90%, 95%, and 100%, the popup screen appears.

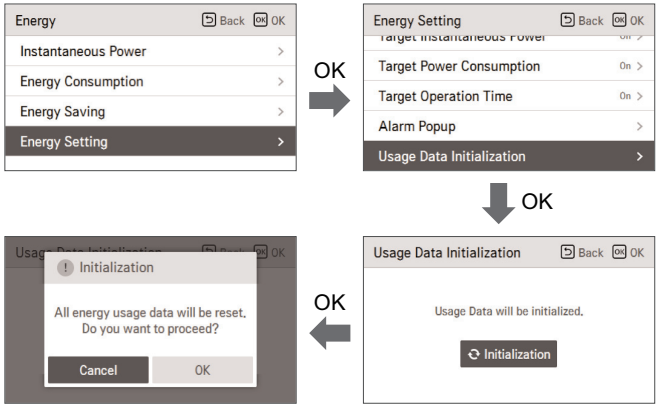
NOTE

The popup message appears once every hour.

Energy setting – Usage data initialization

It is the function to initialize all of the power consumption and operation time information.

- In the energy setting list, select "consumption data initialization" category, and press [OK] button to move to the consumption data initialization setting screen.



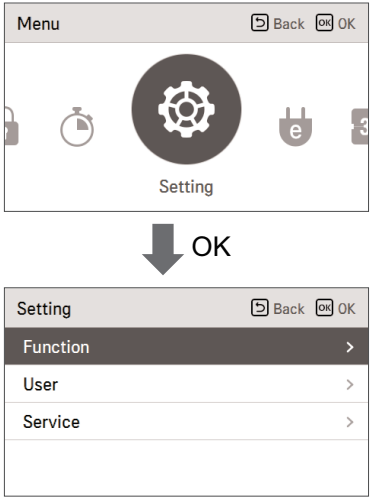
- In the initialization popup screen, if you press "check" button, all previously saved power consumption and operation time are deleted.

FUNCTION SETTING

How to enter function setting

To enter the menu displayed at the bottom, you need to enter the function setting menu as follows.

- In the menu screen, press [<,>(left/right)] button to select the setting category, and press [OK] button to move to the setting list.
- In the setting list, select the function setting category, and press [OK] button to move to the function setting list.



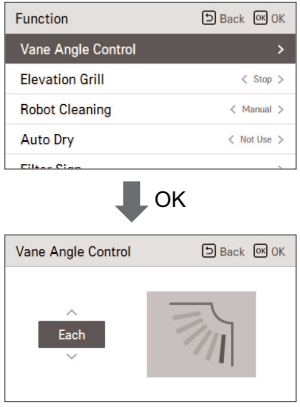
Function Setting

Menu	Description
Vane up/down control setting	You can control the Air Direction angle.
Elevation grill setting	It is the function to operate the Elevation grill for the indoor unit filter cleaning.
Robot cleaning setting	Robot cleaning function is the function to automatically perform the filter cleaning with the cleaner of the product when the air conditioner is used for certain time period. It sets the manual or automatic operation of the robot cleaning. You can set it 30 seconds after the stopping of the operation.
Auto dry setting	Auto dry function is the function to remove mold and moisture by drying the inside of the indoor unit after the cooling operation and when the product is turned off.
Filter status check and initialization	When it becomes the time for the indoor unit filter cleaning, the filter cleaning display appears, and it is the function to remove the display.
Change Temperature setting	Change Temperature is the function to set the temperature for the automatic conversion between cooling and heating according to the temperature in AI operation mode.
Dead Band	When heating and cooling desired temperatures have been changed, the set value will maintain a difference between the heating and cooling desired temperature.
Wi-Fi pairing	It is the function to perform the pairing function of the Wi-Fi module connected to the indoor.
Zone Name setting	Zone name settings allow you to select zone name.
Override set time setting	When timed override is used, the set time will be a default value.
Home leave set temperature setting	When customer operate as home leave mode, this setting temperature value will be applied.
Comfort saving setting	It is the function to set the outdoor unit Comfort saving operation stage value.
ODU Refrigerant Noise Reduction setting	It is the function to set the outdoor unit's refrigerant noise reduction function.
Defrost Mode setting	It is the function to set the outdoor unit's defrost mode operation.
Smart load control setting	It is the function to set the outdoor unit's smart load control stage value. (Smart load control is the function to calculate the necessary performance with the indoor and outdoor air temperature and humidity and operate.)
Low noise mode time setting	It is the function to set the start and end time of the outdoor unit's low noise mode operation.
Advanced fan speed "Auto"	It is the function to set the indoor unit's fan auto by temperature.
Delay time setting (exclusive for ventilation)	It is the function to set the ventilation operation to start after the delay time.
Midnight air cooling (ventilation interface)	It is the function to discharge indoor air and supply cool outdoor air into the indoor during summer nights to save energy.
Human detection mode	It is the function to set the operation of human detection mode.

Vane angle control setting

You can control the wind blowing angle.

- In the function setting list screen, press [∧, ∨ (up/down)] button to select the vane angle control category, and press [OK] button to move to the up/down vane angle detail screen.



- In the detail screen, press [∧, ∨ (up/down)] button to select "individual control, overall control, standard".
- Use [<,>(left/right)] button to select the vane.
  - The selected vane is moving. Check the moving vane.
- Press [∧, ∨ (up/down)] button to select the desired wind angle, and press [OK] button to save the setting.
  - The wind angle's setting range can be changed to 5 stages or 6 stages according to the product.

※ If you do not press [OK] button, the selected wind angle will not be reflected.

Control	Description
Each	It sets the vane angle individually.
All	It sets the vane angle of all the vanes of the product at once.
Standard	It sets the vane angle to the factory initialization state.

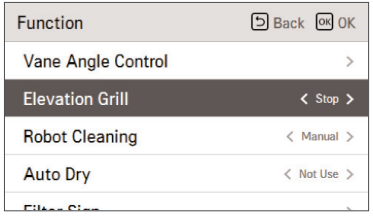
NOTE

For some product types, there are products with only 1 or 2 vanes.

Elevation grill setting

It is the function to operate the Elevation grill for the indoor unit filter cleaning.

- While the product operation is stopped, if you use [<,>(left/right)] button to select the setting value, the grill operation status changes.



Value	Description
Up	Raises the Elevation grill toward the product
Stop	Stops the movement of the Elevation grill
Down	Lowers the Elevation grill toward the floor

NOTE

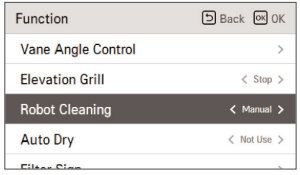
The Elevation grill setting function may not work in some products.

Robot cleaning setting

Robot cleaning function is the function to perform the automatic filter cleaning with the cleaner of the product when the conditioner is used for certain period of time. It sets the manual or automatic operation of the robot cleaning.

- It can be set 30 seconds after the operation stop.

• You can use [<,>(left/right)] button to set the following setting values as follows.



Value	Description
Auto	It automatically performs the robot cleaning when the accumulated indoor unit operation time passes 30 hours
Manual	It manually performs the robot cleaning.

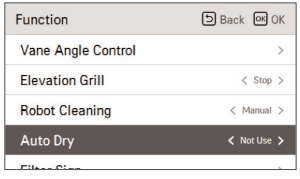
NOTE

The robot cleaning setting function may not work in some products.

Auto dry setting

Auto dry function is the function to remove mold and moisture by drying inside the indoor unit after the cooling operation and when the product is turned off.

• You can use [<,>(left/right)] button to set the following setting values as follows.



Value	Description
Use	Use auto dry function
Not Use	Not use auto dry function

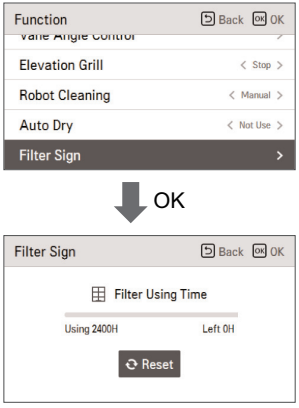
NOTE

Auto dry setting function may not work in some products.

Filter sign check and initialization (air conditioner / DX ventilator)

When it becomes the time for the indoor unit filter cleaning, the filter cleaning message appears, and it is the function to remove the message.

• In the function setting list, select the Filter sign check and initialization category, and press [OK] button to display the detail screen.



Filter sign	Description
Good	Usage time is 70% or less
Normal	Usage time is 71~80%
Caution	Usage time is 81~99%
Bad	Usage time is 100%

- When it becomes time to the filter clean, "Filter cleaning or replacement is required." message is displayed. Enter the Filter sign check and initialization detail screen.
- If the product has the function to display the time remaining until the filter cleaning, even if the filter cleaning message is not displayed, you can enter the Filter sign check and initialization.
- If there is a remaining time display function, when you enter the Filter sign detail screen, you can see the consumption and the remaining time.

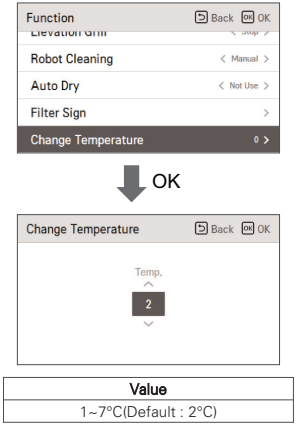
NOTE

- Some products have a Filter Time Remaining function that can be accessed with Filter Sign check.
- Dirty filters will increase the cost to cool or heat the conditioned space.
- The filter check message is cleared after certain time without a separate clearing.

Change temperature setting

Change Temperature is the function to set the automatic Change Temperature between cooling and heating operation according to the temperature in AI operation mode.

• In the function setting list, select the Change Temperature category, and press [OK] button to move to the detail screen.



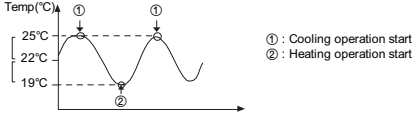
Value
1~7°C(Default : 2°C)

It is the function that can be used only in cooling/heating product.

Example of using Change Temperature

Condition
1) Mode: AI mode
2) temperature: 22°C
3) Change Temperature: 3°C → Change Temperature 3°C difference

※In case of the above conditions, it operates as in the graph.



NOTE

The Change Temperature setting function may not work in some products.

Dead Band

Dead Band function is used with a dual setpoint mode.

When heating and cooling desired temperatures have been changed, the set value will maintain a difference between the heating and cooling desired temperature.

- In the function setting list, select the dead band category, and press [OK] button to move to the detail screen.

NOTE

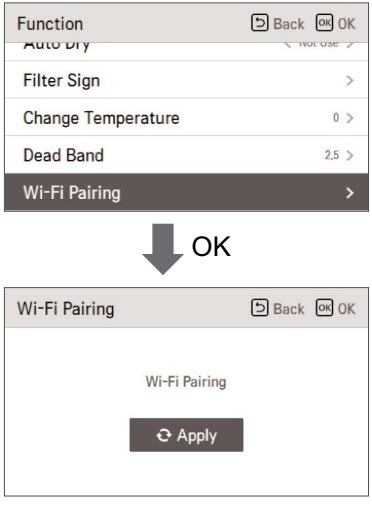
Dead Band function only can use in dual setpoint mode.

- When changing the desired cooling temperature, in case of that the difference with the heating temperature becomes lesser than its minimal value of difference, it lowers the desired heating temperature automatically.
- When changing the desired heating temperature, in case of that the difference with the heating temperature becomes lesser than its minimal value of difference, it raises the desired cooling temperature automatically.

Wi-Fi pairing setting

It is the function to perform the pairing function of the Wi-Fi module connected to the indoor unit.

- In the function setting list, select the Wi-Fi pairing category, and press [OK] button to move to the detail screen.
  - After selecting “Apply”, if you press [OK] button, the Wi-Fi pairing popup window is created, select “check” and press [OK] button to request the Wi-Fi pairing.

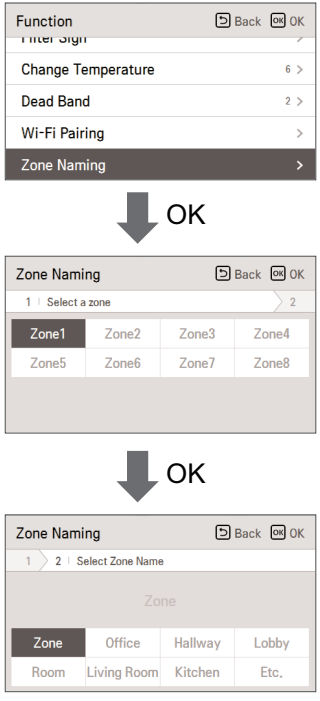


NOTE

The Wi-Fi setting function may not work in some products.

Zone Name setting

Zone name settings allow you to select zone name.

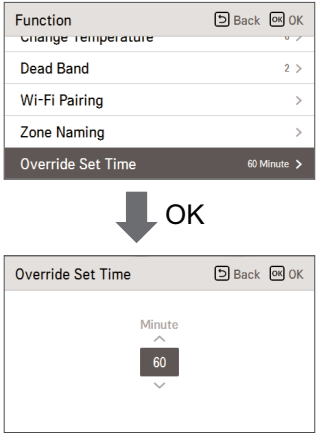


NOTE

Zone name setting function may not work in some indoor unit products.

Override Set Time Setting

Override Set Time function can only be used in Dual Setpoint Control mode.
When timed override is used, the set time will be a default value.

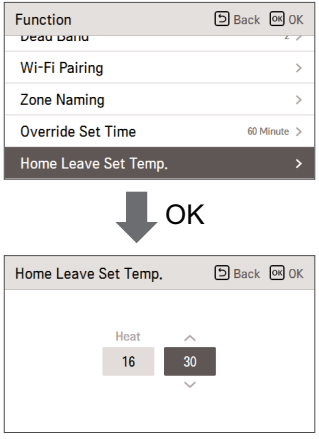


NOTE

Override Set Time function can only be used in a dual setpoint control mode.

Home Leave Set Temperature Setting

Home Leave Set Temperature function is used in Dual Setpoint Control mode.
When customer operate as home leave mode, this setting temperature value will be applied.



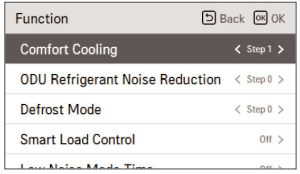
NOTE

Home Leave Set Temperature function can only be used in a dual setpoint control mode.

Comfort cooling setting (air conditioner / DX ventilator)

It is the function to set the outdoor unit Comfort saving operation value.

• You can set the following values using [<,>(left/right)] button.



Value
Step 1
Step 2
Step 3

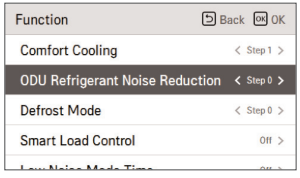
NOTE

The Comfort cooling function does not work in the group control.
Comfort cooling setting function is only available in some products.

ODU Refrigerant Noise Reduction setting (air conditioner / DX ventilator)

It is the function to set the outdoor unit's refrigerant noise reduction function.

• You can use [<,>(left/right)] button to set the following setting values as follows.



Value	Description
Step 0	Not use
Step 1	Outdoor unit noise mode 1
Step 2	Outdoor unit noise mode 2

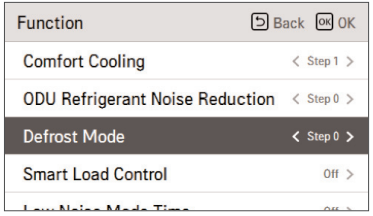
NOTE

The ODU Refrigerant Noise Reduction function can be set only when the installer setting's outdoor unit function M/S setting is set to "Master".
ODU Refrigerant Noise Reduction function is only available in some products.

Defrost mode setting (air conditioner / DX ventilator)

Change the outdoor unit's defrost mode operation.

• Select value using [<,>(left/right)] button.



Value	Step 0	Not use
	Step 1	Forced snow removal
	Step 2	Quick defrost
	Step 3	Forced snow removal + quick defrost

NOTE

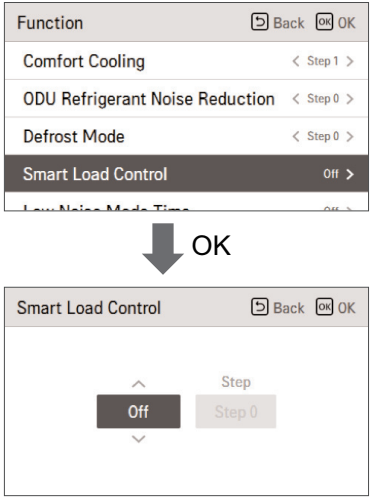
The Defrost mode setting function can be set only when the installer setting's outdoor unit function M/S setting is set to "Master".

Defrost mode setting function is only available in some products.

Smart load control(SLC) setting (air conditioner / DX ventilator)

Change the outdoor unit's Smart Load Control stage value.
(Smart load control is the function to calculate the indoor air temperature, outdoor air temperature, and humidity to operate effectively.)

• In the function setting list, select the Smart load control category, and press [OK] button to move to the detail screen.



Value	Off	Step 0
	On	Step 1
		Step 2
		Step 3

- When SLC is Operating, on the expanded screen's monitoring information, 'In Smart load control' is displayed.

NOTE

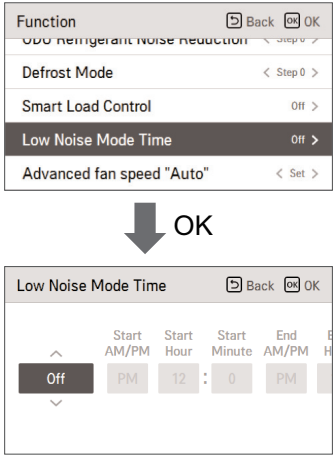
Smart load control function can be set only when the installer setting's outdoor unit function M/S setting is set to "Master".

Smart load control function is only available in some products.

Low noise mode time setting (air conditioner / DX ventilator)

It is the function to set the start and end time of the outdoor unit's low noise mode operation.

- In the function setting list, select the Low Noise Mode Time category, and press [OK] button to move to the detail screen.
  - After setting the start time and the end time, press [OK] button to move to the upper level list.
  - If the start time and the current time are the same, it enters the outdoor unit low noise operation mode, and in the monitoring screen, 'in outdoor unit low noise operation mode' message is displayed.
  - If the end time and the current time are the same, the outdoor unit low noise operation mode is cleared.



NOTE

Low noise mode time setting function can be set only when the installer setting's outdoor unit function M/S setting is set to "Master".

Low noise mode time setting function is only available in some products.

CAUTION

If the function is not used, please set it to Off.

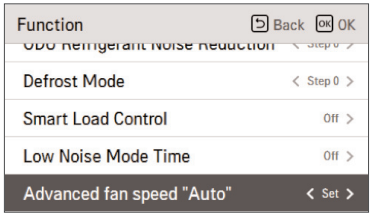
When you enter the low noise operation, the cooling capacity may be degraded.

Advanced fan speed "Auto" setting

It is the function to set the indoor unit's temperature based auto fan usage.

It is the function to automatically change the fan speed according to the difference between the indoor temperature and the desired temperature.

- You can set the following setting values using [<,>(left/right)] button.



Value	Description
Set	Do not change the fan speed automatically
Clear	Change the fan speed automatically

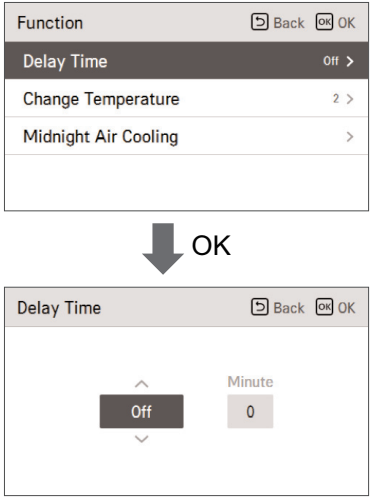
NOTE

Advanced fan speed "Auto" setting function is only available in some products.

Delay time (exclusive for ventilation)

It is the function to set the ventilation operation to start after the delay time.

- In the function setting list, select the delay time category, and press [OK] button to move to the detail screen.
  - After setting the minute, press [OK] button to move to the upper level list.

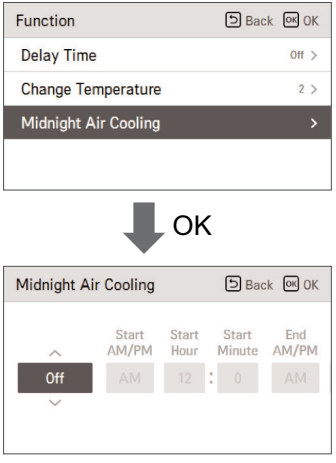


Value
0 ~ 60 Minutes

Midnight air cooling (ventilation interface)

It is the function to discharge indoor air and supply cool outdoor air into the indoor during summer nights to save energy.

- In the function setting list, if you select midnight outdoor air cooling category and press [OK] button, it moves to the detail screen.
  - When you set the start and end time and press [OK] button, it saves and moves to the upper level list.



NOTE

Whether to run the midnight air cooling is decided only when both air conditioner and ventilation are stopped.

- Even if it is the set midnight air cooling time, it enters the midnight air cooling only when the outdoor temperature conditions is met.
- During the midnight air cooling operation, “in midnight outdoor air cooling” message is displayed on the monitoring screen.
- Midnight air cooling function may not work in some products.

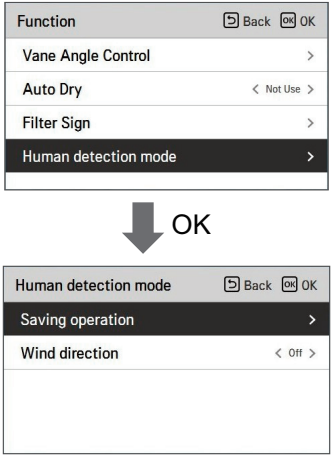
CAUTION

. If you do not use the function, please set it as off.

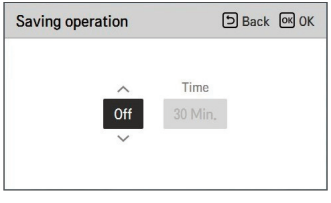
Human detection mode setting

It is the function that enables energy saving through the human detection power saving operation and wind direction setting.

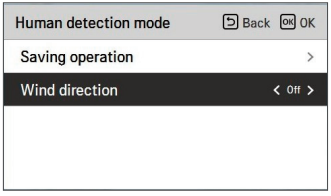
In the function setting list, select human detection operation mode category and press [OK] button to move to the lower level setting list.



After selecting human detection power saving mode category, if you press [OK] button, it moves to the detail screen.



You can select OFF ⟵ ⟶ On/Off Power saving ⟵ ⟶ Temperature power saving for mode value.
You can set the time value when you select On/Off power saving or Temperature power saving.



After selecting human detection wind direction category, you can set the following setting values using [<,> (left/right)] button.

Value	Description
OFF	Do not use human detection wind direction control
Direct	Human detection direct wind operation
Indirect	Human detection indirect wind operation

NOTE

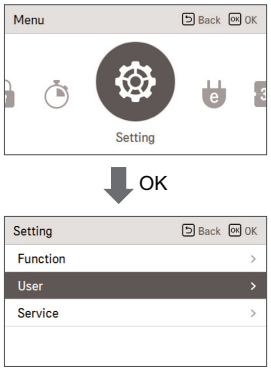
Human detection operation setting function may not work in some products.

USER SETTING

How to enter user setting

To enter the menu displayed at the bottom, you need to enter the user setting menu as follows.

- Select the setting category, and press [OK] button to move to the setting list.
- Select the user setting category, and press [OK] button to move to the user setting list.



User Setting

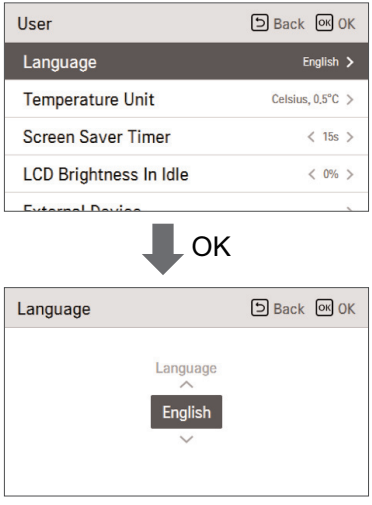
- You can set the product user functions.
- Some functions may not be available in some product types.

Menu	Description
Language setting	Set the language to be displayed on the remote controller.
Setpoint Type Setting	It is the function to set GUI type on the remote controller.
Temperature unit setting	Set the temperature unit displayed on the remote controller.
Screen saver timer setting	Adjust the screen Off time of the remote controller.
LCD brightness in idle setting	Adjust the remote controller's screen brightness.
External device setting	Set the name of external equipment and equipment logic setting
Date setting	Set the date displayed on the remote controller.
Time setting	Set the time displayed on the remote controller.
Summer time setting	Set the summer time in the remote controller.
Password setting	Set the password to prevent unauthorized change to remote controller settings.
Schedule initialization	Initialize all timer settings in the remote controller.
Theme setting	Set the theme of the remote controller screen.
Humidity display	It is the function to decide whether to display humidity on the main screen and additional information screen.
System reboot	Restart the remote controller.

Language setting

Set the language to be displayed on the remote controller.

- In the user setting list, select the language category, and press [OK] button to move to the detail screen.
- After the setting, if you press [OK] button, the setting is saved and moves to the previous screen.

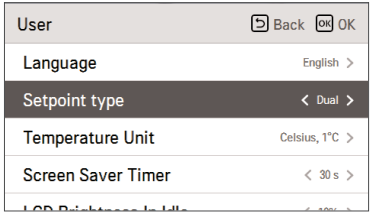


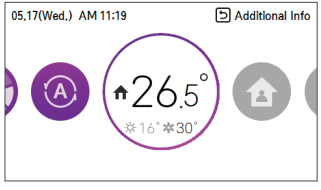
Language		
한국어	English	Français
Deutsche	Italiano	Español
Русский	Polskie	Português
中文	Čeština	

Setpoint Type Setting

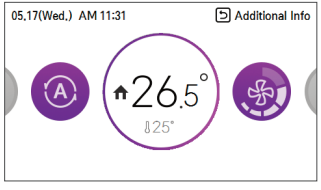
It is the function to set GUI type on the remote controller.

* Dual setpoint type is a function that makes it possible to set the cooling and heating target temperature simultaneously. It is recommended for customers accustomed to using North American thermostats.
  We recommend that you use it only in the region (North America).
  If select dual setpoint option, target temperature ranges will be expanded and activated override, home leave, hold mode and occupancy information based schedule.





<Dual setpoint>

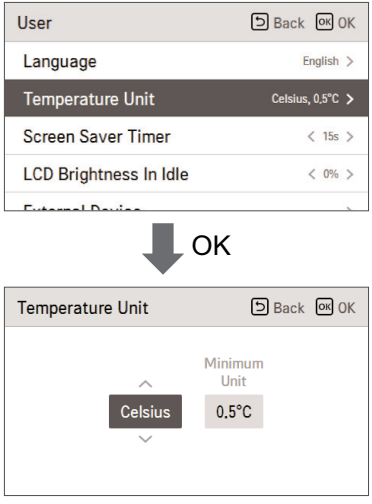


<Single setpoint>

Temperature unit setting

Set the temperature unit displayed on the remote controller.

• In the user setting list, select the temperature unit setting category, and press [OK] button to move to the detail screen.



Value	Celsius	1°C
		0.5°C
	Fahrenheit	

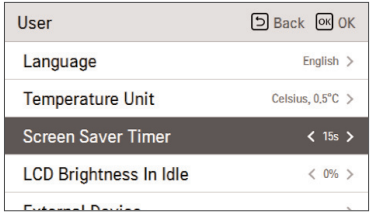
CAUTION

The temperature unit function may not work or work differently in some products.
You cannot set the temperature unit in the slave wired remote controller.

Screen saver timer setting

Adjust the screen Off time of the remote controller.

• Select the following setting values using [<,>(left/right)] button.



Value		
15sec	30sec (default)	1min

CAUTION

Selecting longer stand by screen will decrease LCD lifespan.

LCD brightness in idle setting

Adjust the remote controller's screen brightness.

• Select the following setting values using [<,>(left/right)] button.

Value			
0%	10% (default)	20%	30%

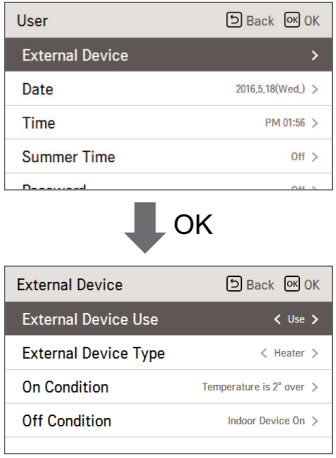
CAUTION

Selecting brighter stand by screen will decrease LCD lifespan.

External device setting

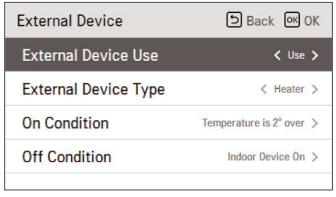
Set the name of external equipment and equipment logic setting

- In the user setting list, select the external device setting category, and press [OK] button to move to the detail screen.



External device use

- In the external device setting list, select “External device use” category, and press [OK] button to move to the external device use setting screen.
  - If external device use setting value is use, you can see the control unit of external device in main screen.

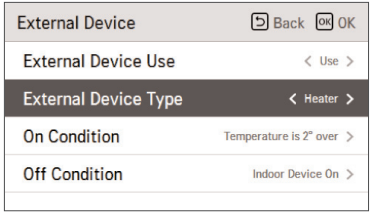


Value	
Not use	Use

External device types

It is the function to set the name of the External device attached to the remote controller.

- You can set the following setting values using [<,>(left/right)] button.

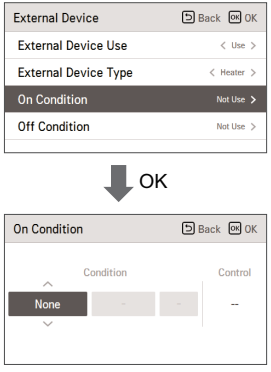


Value					
Motor	Lighting	Fan	Heater	Pump	Others

On condition / Off condition

It is the function to set to use the information managed by the wired remote controller as the contact point control condition to widen the usage of the contact point (Digital Output) installed in the remote controller.

- In the external device setting list, select the On/Off condition setting category, and press [OK] button to move to the detail screen.



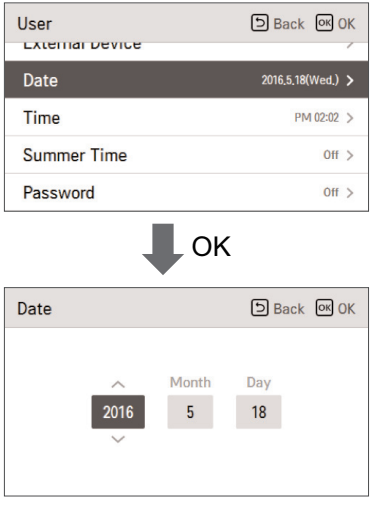
Condition 1	Condition 2	Condition 3	Condition 4
None	Deactivate	-	Deactivate
Aircon	On	-	External device name On External device name Off
	Cool mode	-	
	Heat mode	-	
	Fan mode	-	
	Dry mode	-	
	Auto mode	-	
Current Temp.	1°C~ 39.5°C	Over	
		Under	
Occupied	-	-	
Unoccupied	-	-	

- The External device operates as the operation set in the conditions 1~3.
- If the External device is set to auto while both ON condition and OFF condition are not set, contact point OFF is output.
- If the ON condition and OFF condition are the same, it is finally processed as OFF condition.

Date setting

Set the date displayed on the remote controller.

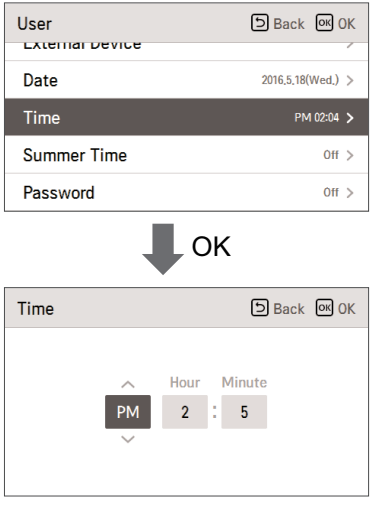
- In the user setting list, select the date category, and press [OK] button to move to the detail screen.
- After the setting, if you press [OK] button, the setting is saved and moves to the previous screen.



Time setting

Set the time displayed on the remote controller.

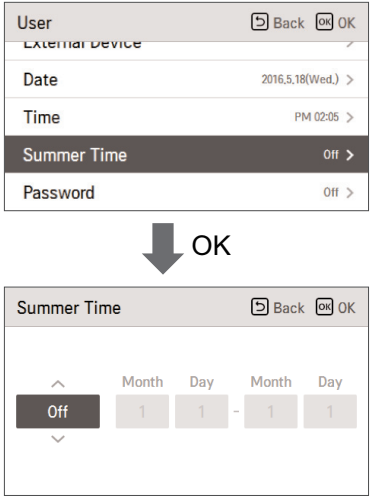
- In the user setting list, select the time category, and press [OK] button to move to the detail screen.
- After the setting, if you press [OK] button, the setting is saved and moves to the previous screen.



Summer time setting

Set the daylight savings time dates in the remote controller.

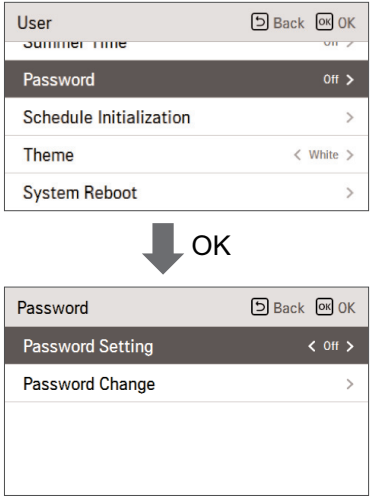
- In the user setting list, select the summer time setting category, and press [OK] button to move to the detail screen.
  - Summer time: The system to advance the time by 1 hour from the spring when the day is longer and return back in the fall when the day gets shorter.
  - When it becomes AM 02:00 on the DST start date, the current time changes to AM 03:00, and when it becomes AM 02:00 of the DST end date, the current time changes to AM 01:00.



Password setting

Set the password to prevent unauthorized change to remote controller settings.

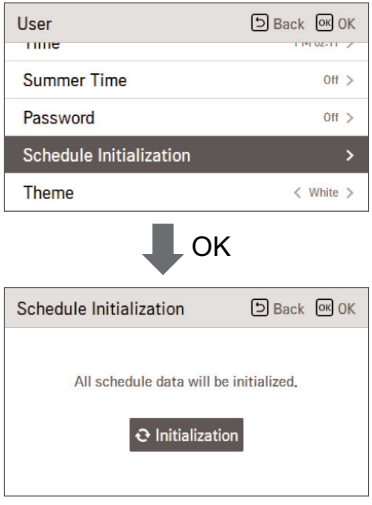
- Select the user password setting category, and press [OK] button to move to the detail screen.
  - If the password is set, when you enter "menu – setting", you need to input password to enter the setting list.
  - When you forgot the password, you can initialize the password using the installer setting's "password initialization".
    The initialized password is "0000".



Schedule initialization

Initialize all timer settings in the remote controller.

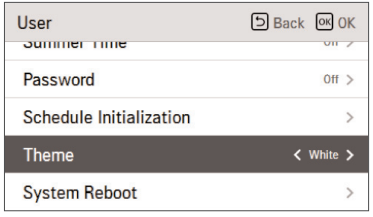
- In the user setting list, select the schedule initialization setting category, and press [OK] button to move to the detail screen.
  - Press the check button to initialize the sleep/simple timer, on/off timer, schedule and exception date in the remote controller.



Theme setting

Set the theme of the remote controller screen.

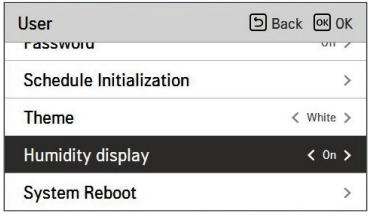
• Select either white or black using [<,>(left/right)] button.



Humidity display

It is the function to decide whether to display humidity on the main screen and additional information screen.

You can use [<, > (left/right)] button to set the setting values (On or Off).



Setting value	ON	Display humidity.
	OFF	Do not display humidity.

NOTE

If humidity display is `ON`, the displayed humidity is different according to the humidity detection location setting (installer setting).

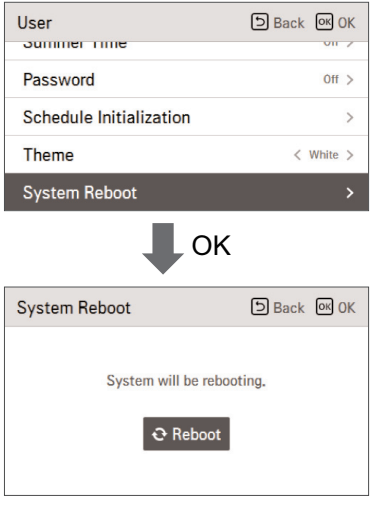
• Remote controller: remote controller humidity display.

• Indoor unit: If it receives indoor unit humidity, it displays the indoor unit humidity, and if it does not receive indoor unit humidity, it does not display humidity.

System restart

Restart the remote controller.

- In the user setting list, select the system restart setting category, and press [OK] button to move to the detail screen.
  - In the detail screen, when you press [OK] button, a popup message is displayed, press the check button, to restart the system.
  - For forced reset, press down [On/Off + Back] button for 5 seconds to restart the system.

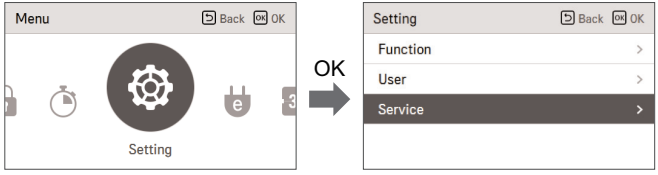


SERVICE SETTING

How to enter service setting

To enter the menu displayed at the bottom, you need to enter the service setting menu as follows.

- In the menu screen, press [<,>(left/right)] button to select the setting category, and press [OK] button to move to the setting list.
- In the setting list, select the service setting category, and press [OK] button to move to the service setting list.



Service setting

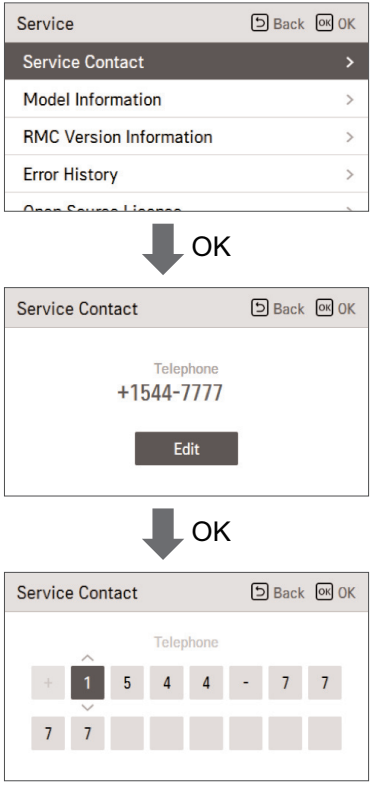
- You can set the product service functions.
- Some functions may not be displayed/operated in some product types.

Menu	Description
Service contact	Check and input the service center phone number that you can call when there is service issue.
Model Information	Check the indoor/outdoor product group and capacity information to which the remote controller is connected.
RMC Version Information	Check the remote controller model name and software version.
Error History	View the connected indoor unit's error history.
Open Source License	View the remote controller's open source license.

Service contact

Check and input the service center phone number that you can call when there is service issue.

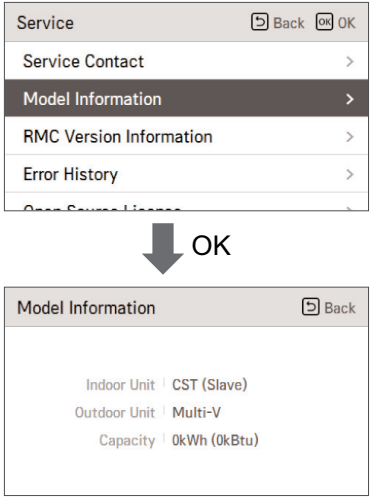
- In the service setting list, select the service contact point and press [OK] button to move to the detail screen.
- While "edit" button is selected, press [OK] button to move to the edit screen, change it, and press [OK] button to change the service contact point.



Model information (air conditioner / DX ventilator)

Check the indoor/outdoor product group and capacity information to which the remote controller is connected.

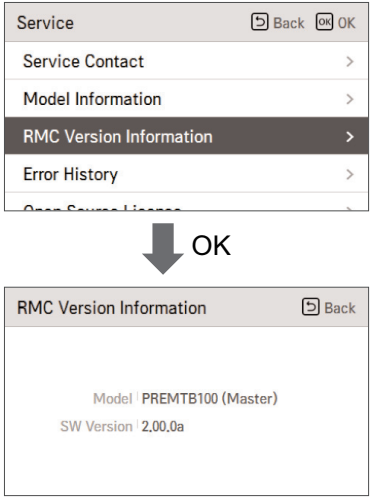
- In the service setting list, select the indoor/outdoor model information category, and press [OK] button to move to the detail screen.
- Indoor unit capacity
  - 1kWh = 1kBtu * 0.29307
    kWh is the result calculated based on Btu, There may be a small difference between calculated and actual capacity.
    Ex) If the indoor unit capacity is 18kBtu, it is displayed as 5kWh.



RMC Version Information

Check the indoor/outdoor product group and capacity information to which the remote controller is connected.

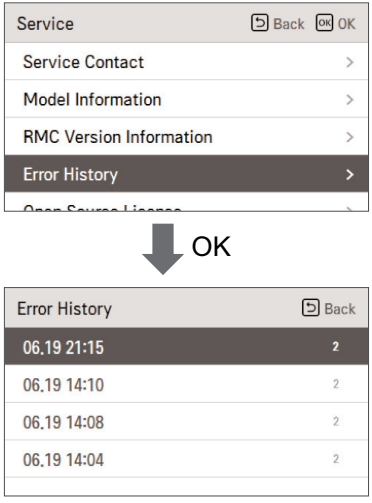
- In the service setting list, select the remote controller version information check category, and press [OK] button to move to the detail screen.



Error history

View the connected indoor unit's error history.

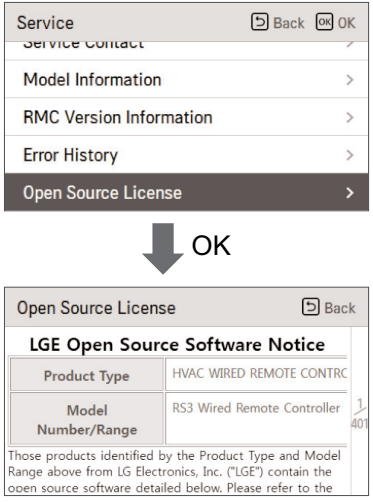
- In the service setting list, select 'check error history' category, and press [OK] button to move to the detail screen.
  - You can view up to 20 error instances sorted by date occurred.



Open source license

View the remote controller's open source license.

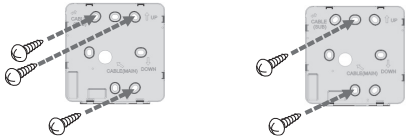
- In the service setting list, select the open source license category, and press [OK] button to move to the detail screen.



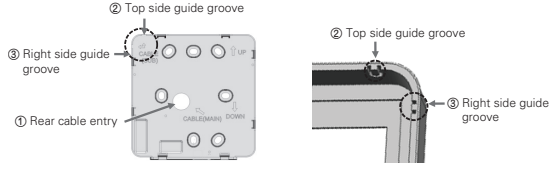
INSTALLATION

Installation of Remote Controller

- After fixing the remote controller installation plate on the desired location, fix it firmly with the provided screws.
  - If the installation plate is not flat on the surface, it may result in the controller being twisted and cause a defect.
  - If there is a mounting box, install the remote controller installation plate using the fixings holes which suit, as in the below diagrams.
  - Do not leave a gap with the wall or product loose after the installation.

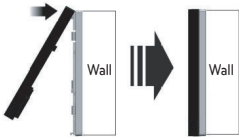


- The wired remote controller cable can be installed in 3 directions. Install to the suitable direction according to the installation environment.
  - Installation direction: Rear entry, top side, right side
  - When you install the remote controller cable at the top side and right side, remove the remote controller cable guide hole before the installation.
    ※ Use a long nose pliers to remove the guide hole.
- After removing the hole, trim the cut surface neatly.



- After fixing the remote controller top side on the installation plate attached to the wall as in the following figure, press the bottom side to combine with the installation plate.
  - Do not leave a gap in the top, bottom, left, and right side of the remote controller and the installation plate after combining them.
  - Before combining with the installation plate, arrange the cables to avoid interference with the circuit parts.

<Order of Combining>

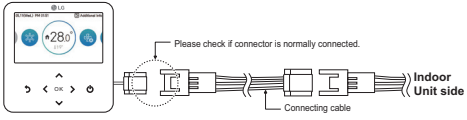


- When you remove the remote controller from the installation plate, insert a small flat head screwdriver into the bottom side separation hole and turn clockwise to separate the remote controller.
  - There are 2 separation holes at the bottom part. Slowly separate one by one.
  - Be careful not to damage the internal parts during the removal.

<Order of Separation>

- Use the connection cables to connect the indoor unit with the remote controller.

DC 12 V	Red
Signal	Yellow
GND	Black



- For the following cases, separately purchase and use the cables suitable for the situation.
  - Do not install the cable over 50 m. (It may cause communication issues.)
  - If the distance between the wired remote controller and the indoor unit is 10 m or more : 10 m extension cable (model name: PCW-QE10A)
  - If you control several indoor unit products with one wired remote controller : Group control cable (model name: PCW-QG00A)

NOTE

During the wired remote controller installation, do not bury it in the wall. (It may cause temperature sensor failure.)

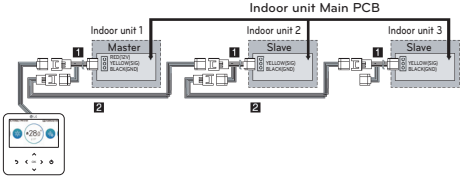
Do not install the cable over 50 m. (It may cause communication defect.)

When you install the extension cable, carefully check the direction of the connectors on the remote controller side and the product side before the installation.

Extension cable specification: Use 2547 1007 22# 2core 3shield, 5 Ø or equivalent or higher level

Group control

- It connects and controls 2 or more air conditioner indoor units to one wired remote controller.
  ※ Connect using the group control cable.



① Group control cable (PZCWRCG3): Connect to indoor unit's wired remote controller connector

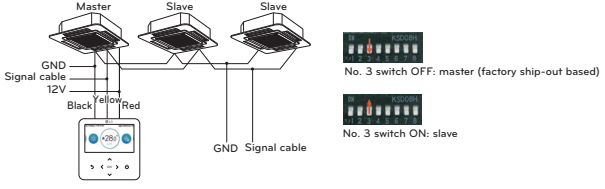
② Extension cable (PZCWRC1): Connect to No. ① cable and slave indoor unit's wired remote controller connector

While No. ① cable is connected, connect No. ② cable.

NOTE

- Connect only GND and signal cable to the indoor unit set as slave. (If power cable is also connected, it may cause loss of communication)
- Inquiries related to the purchase of the cable shall be directed to the specialized company and the service center.

- After checking the existence of the event communication in the product manual, change master/slave of the remote controller.
  ※ For details, refer to 'remote controller master/slave' contents.
- Change master/slave of the indoor unit.
  - For ceiling cassette and duct product group, change the setting with the indoor unit PCB switch.



- For the details on the wireless remote controller master/slave setting changes, refer to the wireless remote controller manual.
- After completing the master/slave setting in the indoor unit product, turn Off the power of the indoor unit product, and turn On the power after 1 minute.

NOTE

- During the group control, set only 1 indoor unit as master.
- During the group control, some functions other than the basic operation setting, fan speed Low/Med/High, remote controller lock setting, and time setting may be limited.
- During the individual control, if the master indoor unit Dip switch is set to slave, malfunction may occur.

INSTALLATION METHOD TO USE EXTERNAL DEVICE

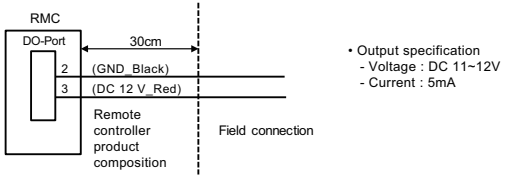
Cable connection method to use external device

1) Wired remote controller-cable connection method.
   - In the wired remote controller, connect the part marked in the following figure (J02C, DO-Port) to the cable.
   - According to the installation environment, there are 3 directions (Rear entry, top side, and right side) for the installation.
2) Cable extension connection method
   - Among the cables connected to the wired remote controller, cut the remaining connectors on the other side, and then extend and connect the cables
   - Extension cable specification: 24~26AWG.

CAUTION

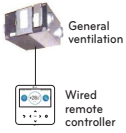
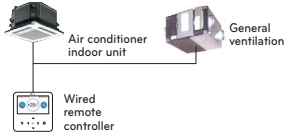
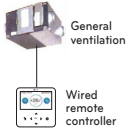
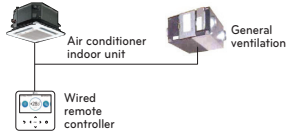
For the External device connection, use the cable insulated with sheath for the extension connection.

Before combining with the installation plate, arrange the cables to avoid interference with the internal parts.



AIR CONDITIONER AND VENTILATION INTERFACE

- It controls using the wired remote controller at a place where the air conditioner indoor unit and the ventilation product are connected and installed at the same time.
  - When the power is applied, the remote controller recognizes the product and operates normally.

	Independent operation	Interfaced operation
General ventilation	[general ventilation independent operation] 	[General ventilation interfaced operation] 
Direct ventilation	[Direct ventilation independent operation] 	[Direct ventilation interfaced operation] 

※ The wiring method is the same as the air conditioner user manual. (Refer to the remote controller manual group control page contents)

※ Ventilation product means general ventilation product and direct cooling type ventilation product.

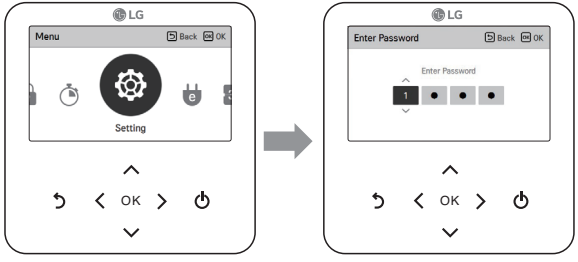
INSTALLER SETTING

How to enter installer setting

CAUTION

The installer setting mode is the mode to set the remote controller's detail function. If the installer setting mode is incorrectly set, it may cause product failure, user's injury, or property damage. It must be set by the installation specialist with the installation license, and if it is installed or changed without installation license, all problems caused will be the responsibility of the installer, and may void the LG warrenty.

- In the menu screen, press [<,>(left/right)] button to select the setting category, and press [∧(up)] button for 3 seconds to enter the password input screen for the installer setting.
- Input the password and press [OK] button to move to the installer setting list.



※ Installer setting password

Main screen ⟶ menu ⟶ setting ⟶ service ⟶ RMC version information ⟶ SW Version

Example) SW version : 1.00.1 a

In the above case, the password is 1001.

NOTE

Some categories of the installer setting menu may not be available depending on the product function or the menu name may be different.

Installer setting – air conditioner

- You can set the product user functions.
- Some functions may not be displayed/operated in some product types.

Menu	Description
Test run setting	It is the function to set the trial operation at the initial product installation.
Central control address Setting	It is the function to set the central control address of the indoor unit during the central controller connection.
ESP setting	It is the function to set the wind amount value corresponding to each wind amount for easy installation.
Temperature sensor setting	It is the function to select the temperature sensor that will decide the indoor temperature.
Ceiling height setting	It is the function to control the wind amount stage according to the ceiling height for the ceiling type products.
Static pressure setting	The fixed pressure setting can be set only in the duct products. It cannot be set in other products.
RMC master/slave setting	It is the function to set group control or 2-remote controller control.
Override master/slave setting	The operation master / slave selection function is to avoid other mode operations, and it is the function to prevent the selection of the opposite mode of the indoor unit set as master by the indoor units set as slaves.
Dry contact mode setting	Dry contact function is the function that can be used only when the dry contact devices is separately purchased and installed.
Fixed air volume	It is the function to apply different fan speeds automatically for each thermal control status.
Zone Type Setting	It is possible to setup zone new type or old one of the product which is available to install the damper controller.
Zone Number Setting	Zone Number is to set the number of installed zones. It's possible to control only in zone new type.
Emergency Heater setting	It is the function to set whether to use emergency heater control function and the usage environment.
Func. control during grp. Control setting	It is the function to set common functions or some functions to be controlled by the master indoor unit standard during the group control.
Option Kit – Plasma / Heater / Humidification / Elevation grill / Ventilation / Refrigerant leakage detection sensor	It is the function to set whether to mount option unit (Plasma / Humidification / Heater / Ventilation / Elevation grill / Aux Heater / Refrigerant leakage detection sensor) when it is additionally installed or removed after the mass production.
Expand of Temperature Range	This function is used for select setting temperature range option.
Indoor unit address verification	This function allows you to check the address of the indoor unit designated by the outdoor unit.
Static pressure step setting	This is the function that static pressure of the product is divided in 11 steps for setting.

Menu	Description
Guard timer	It is a function that sets the minimum running time of outdoor unit cycle mode when switching from cooling mode to heating mode and vice versa during Auto Operation mode.
Fan speed in Cooling thermal off	It is a function that sets the indoor unit fan movement, in cooling mode, when thermal is off.
Primary heater setting	It is the function to set the heater usage to have higher priority over the outdoor unit cycle during the indoor unit heating operation.
Air conditioner Fan operation interlocked with ventilation setting	It is the function to set whether to operate the air conditioner fan during the interface operation of the air conditioner and the ventilation product.
Indoor unit Auto-Start setting	It is a function that sets whether to restore the indoor unit operation by resuming the previous power-on state or as power-off state in the power failure compensation.
Occupancy duration time setting	It is the function to set the occupied decision maintaining time among the occupied sensor values.
CN_CC setting	It is the function to set whether to install (use) Dry Contact. (It is not a function for Dry Contact installation, but it is a function to set the usage of the indoor unit's CN_CC port.)
CN_EXT setting	It is the function to set the indoor unit's Dry Contact Port to control external input and output according to DI/DO set by the customer. (It is the function to decide the usage of the contact point port (CN_EXT) mounted in the indoor unit PCB.)
ODU function master setting	It is the function to set the outdoor unit's function Master / Slave.
Fan continuous operation setting	It is the function to set the indoor unit's continued Fan function usage. It is the function to maximize the cooling/heating efficiency by the outdoor unit operating the indoor unit fan operation longer than the previous operation method.
Low noise mode priority setting	It is the function to set the main agent of the low noise mode control. (It is the function to set only one of the outdoor unit / remote controller can control the low noise operation.)
Human detection sensor setting	It is the function to set whether to install human detection sensor and operation standard value.
Humidity sensing position	It is the function to set the location to detect humidity.
ODU cycle priority	This function can select standby mode or priority cooling.
Outdoor temp. for heating stages	This function can select outdoor temperature values for use reference point of heater and heating mode operation.
Estimated energy display	This function can set to display energy data which ODU estimated.
Password initialization	It is the function to initialize (0000) the password when you forgot the password set in the remote controller.

Installer setting - ventilator

- You can set the product user functions.
- Some functions may not be displayed/operated in some product types.

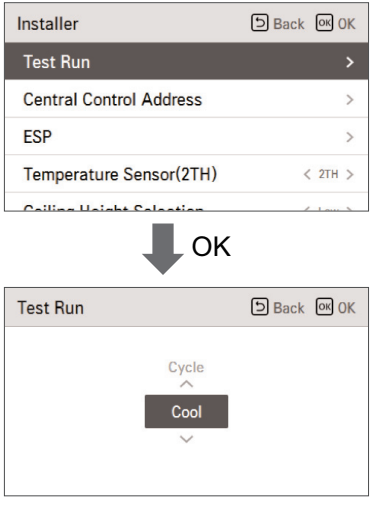
Menu	Applied products	Description
Test run setting	DX(Direct Exchanger) Type	It is the function to set the trial operation at the initial product installation.
Central control address Setting	General	It is the function to set the central control address of the indoor unit during the central controller connection.
Air supply ESP	General/DX Type	It is the function to set the fan speed value corresponding to the air supply side fan speed.
Air discharge ESP		It is the function to set the fan speed value corresponding to the air discharge side fan speed.
Temperature sensor setting	DX Type	It is the function to select the temperature sensor that will decide the indoor temperature.
Product direction	General	It is the function to set the ventilation indoor unit's installation direction.
Express ventilation priority	General/DX Type	It is the function to set the priority of the air supply and discharge during the express ventilation operation.
RMC master/slave setting		It is the function to set group control or 2-remote controller control.
Override master/slave setting	DX Type	The operation master / slave selection function is to avoid other mode operations, and it is the function to prevent the selection of the opposite mode of the indoor unit set as master by the indoor units set as slaves.
Dry contact mode setting	DX Type	Dry contact function is the function that can be used only when the dry contact devices is separately purchased and installed.
Fixed fan speed setting	DX Type	It is the function to set the indoor unit's fan speed option to variable or fixed.
Hum. Of Stand-alone Vent. Mode	General/DX Type	It is the function to set whether to use the humidification function in the direct cooling type ventilation's ventilation single operation.
Hum. Of Vent. With Heating Oper.	DX Type	It is the function to set the direct cooling type ventilation's heating humidification function as auto or manual.
Vent. Fan Speed Alignment	General	It is the function to increase/decrease ventilation's standard fan speed from the current status according to the field environment.
Indoor unit address verification	DX Type	This function allows you to check the address of the indoor unit designated by the outdoor unit.
Indoor unit Auto-Start setting	DX Type	It is a function that sets whether to restore the indoor unit operation by resuming the previous power-on state or as power-off state in the power failure compensation.
CN_EXT setting	DX Type	It is the function to set the indoor unit's Dry Contact Port to control external input and output according to DI/DO set by the customer. (It is the function to decide the usage of the contact point port (CN_EXT) mounted in the indoor unit PCB.)
ODU function master setting	DX Type	It is the function to set the outdoor unit's function Master / Slave.
Low noise mode priority setting	DX Type	It is the function to set the main agent of the low noise mode control. (It is the function to set only one of the outdoor unit / remote controller can control the low noise operation.)

Test run setting (air conditioner / DX ventilator)

After product installation, the Test run must be performed. For Test run related details, refer to the product manual.

- In the installer setting list, select the Test run setting category, and press [OK] button to move to the detail screen.
  - You can select 'cooling Test run / heating Test run'
  - During the Test run, if you start the following functions, the Test run stops.

☞ Operation mode, desired temperature, fan speed, wind direction, start/stop

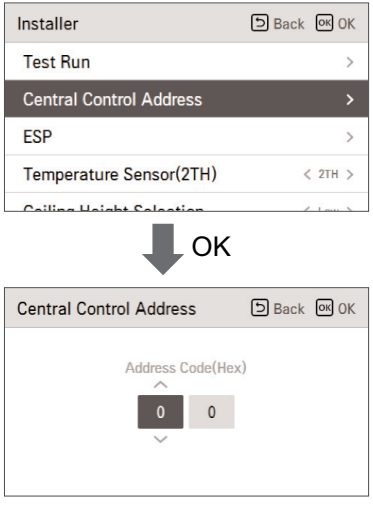


Central control address setting (air conditioner / DX ventilator)

It is the function to set the central control address of the indoor unit to allow communication with a central controller,

- In the installer setting list, select the central control address setting category, and press [OK] button to move to the detail screen.

- Select a hex value between 00 and FF.
  Value 1: group address setting / value 2: indoor unit address setting



ESP setting (air conditioner / general, DX ventilator)

It is the function to set the fan speed value corresponding to each fan speed for easy installation.

NOTE

If ESP is incorrectly set, the air conditioner may malfunction.
This function must be set by the installation specialist that holds an installation license.
For ventilation products, separate ESP values are used for the supply and exhaust fans.

- In the installer setting list, select the ESP setting category, and press [OK] button to move to the detail screen.

Product	ESP fan speed	value
Air conditioner	Slow	0 ~ 255
	Low	
	Med	
	High	
	Power	
Ventilation	Low	
	High	
	Power	

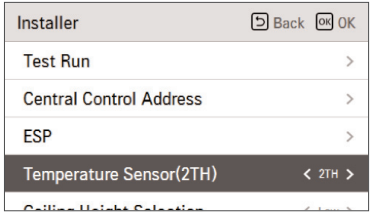
NOTE

Be especially careful not to switch ESP values corresponding to each fan speed.
Engineering manuals have ESP setting tables that reference air flow and corresponding value setting to achieve the flow.
The ESP values that can be set may be different for each product and capacity.

Temperature sensor(2TH) setting (air conditioner / DX ventilator)

It is the function to select the temperature sensor to decide the indoor temperature.

• You can set the following setting values using [<,>(left/right)] button.



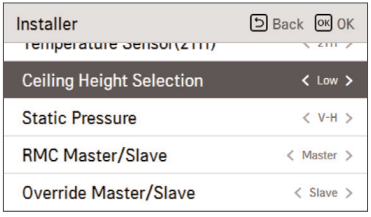
Temperature sensor location		Description
Remote controller		Operate the system with wired remote controller's temperature sensor
Indoor Unit		Operate the system with indoor unit's temperature sensor
2TH	Cool	Compare the temperatures of the indoor unit and the wired remote controller and operate with the higher temperature (There are system operated with lower temperature)
	Heat	Compare the temperatures of the indoor unit and the wired remote controller and operate with the lower temperature

• 2TH function's operation characteristics may be different for each product.

Ceiling height setting (air conditioner)

It is the function to control the fan speed stage according to the ceiling height in the ceiling type product.

• You can set the following setting values using [<,>(left/right)] button.



Ceiling height	Description
Low	Fan speed operates one step slower than the default value.
Standard	Operates at the default fan speed
High	Fan speed operates one step faster than the default value.
Very high	Fan speed operates two steps faster than the default value.

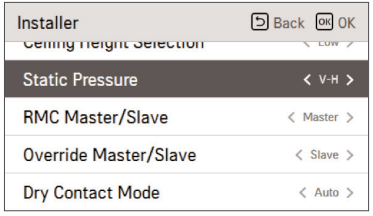
NOTE

When group control is enabled some functions are limited depending on product type.

Static pressure setting(air conditioner)

Static pressure setting can be set only in the duct products. (It cannot be set in other products.)

• You can set the following setting values using [<,>(left/right)] button.



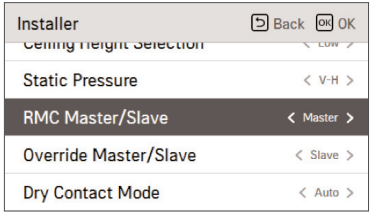
Static pressure		Description	
		Variable / Fixed	ESP default value
Variable high static pressure	V-H	Variable	High static pressure(High)
Fixed high static pressure	F-H	Fixed	High static pressure(High)
Variable low static pressure	V-L	Variable	Low static pressure(Low)
Fixed low static pressure	F-L	Fixed	Low static pressure(Low)

• 2TH function's operation characteristics may be different for each product.

Remote controller master / slave setting (air conditioner / General, DX ventilator)

This function sets configuration for the master/slave setting through the remote controller.

• Change setting values using [<,>(left/right)] button.



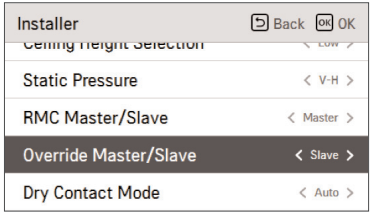
M/S	Description
Master (default)	Using group control, the indoor units are operated based on the remote controller.
Slave	Using group control, all remote controllers except 1 master remote controller are set as slaves.

• 2TH function's operation characteristics may be different for each product.

Override Master/Slave setting (air conditioner / General, DX ventilator)

The operation master / slave selection function is to avoid other mode operations, and it is the function to prevent the selection of opposite mode of the indoor unit master by the indoor units set as slaves.

• Change setting values using [<,>(left/right)] button.



M/S	Description
Master	Using group control, this master sets the mode of slave IDU's.
Slave	For the indoor unit set as slave, it can only select the some operation mode of the master indoor unit cycle. Ex) Master is in cooling cycle, Slave can select cooling, dehumidification, auto, and wind only Master is in heating cycle, Slave can select auto, heating, and wind only

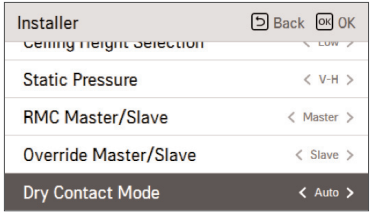
NOTE

Override M/S setting function is only available in some products.

Dry contact mode setting (air conditioner / DX ventilator)

Dry contact function is the function that can be used only when the dry contact devices is separately purchased and installed.

• Change setting values using [<,>(left/right)] button.



Value
Auto
manual

NOTE

For dry contact mode related detail functions, refer to the individual dry contact manual.

What is dry contact?

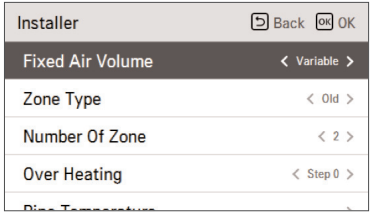
It means the contact point signal input when the hotel card key, human body detection sensor, etc. are interfacing with the air conditioner.

Added system functionality by using external inputs (dry contacts and wet contacts).

Fixed air volume (air conditioner / DX ventilator)

It is the function to apply different fan speeds automatically for each thermal control status.

• You can set the following setting values using [<,>(left/right)] button.

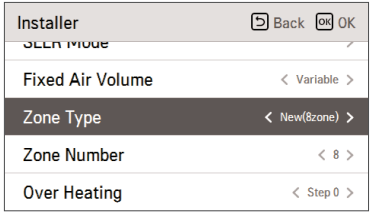


Value	Comp on	Comp off
Variable	Set fan speed	Low
Fixed	Set fan speed	Set fan speed

Zone Type Setting(air conditioner)

This function is only available on some products.

This function select a type of zone control type which indoor unit support as 'new type' or 'old type'.

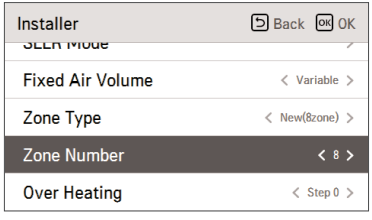


Value
Old
New(4 Zone)
New(8 Zone)

Zone Number Setting(air conditioner)

This function is only available on some products.

Zone Number is to set the number of installed zones. It's possible to control only in zone new type.

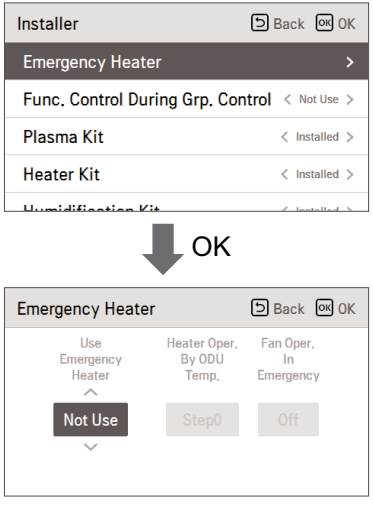


Value
New(4 zone) : 2~4
New(8 zone) : 2~8

Emergency heater setting (air conditioner)

Enable the emergency heater control function and the usage environment.

- In the installer setting list, select the emergency heater setting category, and press [OK] button to move to the detail screen.
  - In case of an error, it sets whether the emergency heater can be used / outdoor temperature standard heater operation usage setting and temperature step value setting / and during the emergency heater operation, whether to use the indoor unit fan operation.



Value	Outdoor temperature standard heater operation		Fan operation in emergency control
Not use	-		-
Use	Emergency heater	Step 0 ~ 3	On/Off
	Extended emergency heater	Step 0 ~ 15	

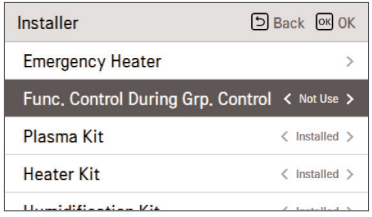
NOTE

This function setting must be carried out by a certified-technician.

Function control during group Control setting (air conditioner)

This function enables the control of the common functions or some functions based on the master indoor unit during the group control.

- Change setting values using [<,>(left/right)] button.



Value	Description
Not use	Common function,
Use	Use expanded function which is based on master indoor unit

NOTE

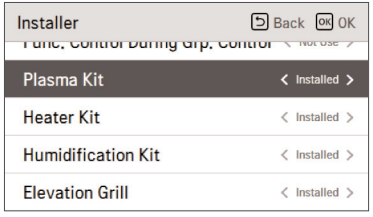
Common functions and some indoor unit master standard setting shall be set only during the group control with the same type indoor units.

During the group control with different indoor unit types, set it as '000' to use the existing group control method.

External devices of indoor unit setting (air conditioner)

At the Code field, select when air cleaner/heater/humidifier/elevation grill/ventilation KIT/Aux Heater/refrigerant leakage detection sensor are newly installed to the indoor unit or when an installed KIT is removed.

• You can set the following setting values using [<,>(left/right)] button.

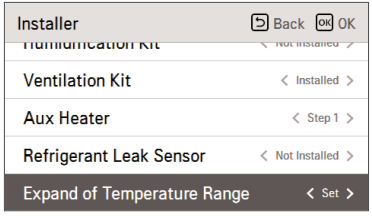


Function	Value
Plasma purification	Not install / Install
Heater	
Humidifier	
Elevation grill	
Ventilation Kit	
Aux Heater	
Refrigerant leakage detection sensor	

Expand of Temperature Range (air conditioner)

This function using in dual setpoint control mode.

This function is used for select setting temperature range option.



Value
Clear : 60~86 °F / 16~30 °C (default)
Set : 40~99 °F / 4~37.5 °C

NOTE

When the set values are changed, the items below will be initialized.

- Target temperature (default: Cooling: 86 °F(30 °C)/ Heating: 60 °F(16 °C))
  'home leave' temperature (default: Cooling: 86 °F(30 °C)/ Heating: 60 °F(16 °C))

In case of the setting expanded temperature range (set), please note that the setting of the wired remote controller can be altered under below circumstances.

- In case of cooling at 30~37.5 °C(64~99 °F), it is changed to cooling at 86 °F(30 °C).
- In case of heating at 4~15.5 °C(40~86 °F), it is changed to heating at 60 °F(16 °C).
- If set on dual setpoint, it is changed to the current operation mode(cooling or heating) of the indoor unit.

Situation where changes in the setting occur

a. Operates the Auto address work and pipe search in situations such as product installment and service.

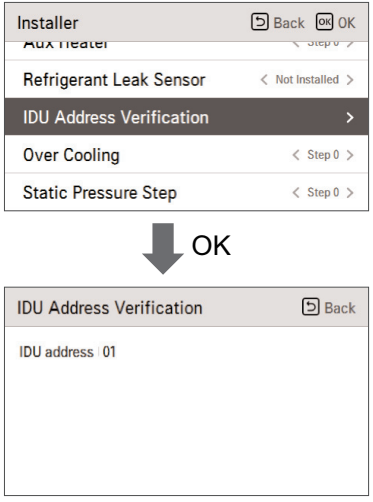
b. Occurrence of errors and deactivation.

c. Command generated by the central control, outdoor unit, Dry contact, Remote controller, indoor unit switch.

Indoor unit address verification (air conditioner / DX ventilator)

This function allows you to check the address of the indoor unit designated by the outdoor unit.

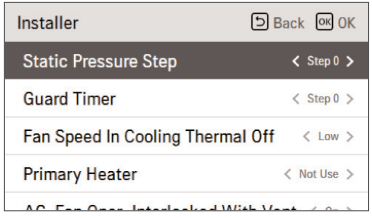
- In the installer setting list, select the indoor unit address check category, and press [OK] button to move to the detail screen.



Static pressure step setting (air conditioner)

It is the function to subdivide and set the product's Static pressure to 11 stages.

- Change setting values using [<,>(left/right)] button.



Value
Step 0 ~ Step 11

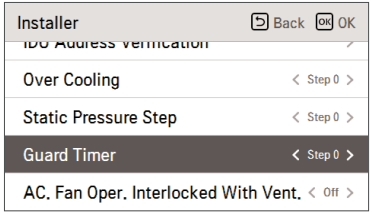
NOTE

If Static pressure step setting is used, the Static pressure setting is not used.
For the Static pressure step value for each stage, refer to the indoor unit product manual

Guard timer(air conditioner)

It is a function that sets the minimum running time of outdoor unit cycle mode when switching from cooling mode to heating mode and vice versa during Auto Operation mode.

Under the condition of cooling/heating switching, it switches between cooling and heating mode after operation during the time scheduled in the Guard timer.

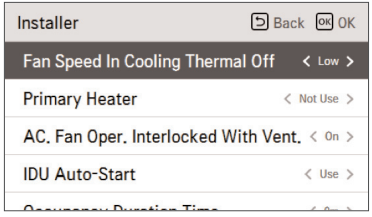


Step	Value
0	0 minute
1	15 minutes
2	30 minutes
3	45 minutes
4	60 minutes

Fan speed in Cooling thermal off (air conditioner)

Indoor unit fan, in cooling mode, during thermal off condition.

• Select value using [<,>(left/right)] button.

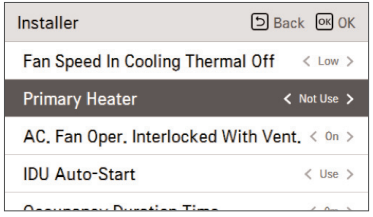


	Value
Low	Fan speed low
Off	Fan off
Setting	fan speed setting value

Primary heater setting(air conditioner)

It is the function to set the air conditioner fan operation if the ventilation is operated while the air conditioner operation is stopped when the air conditioner and the ventilation are installed to interface with each other.

• You can set the following setting values using [<,>(left/right)] button.

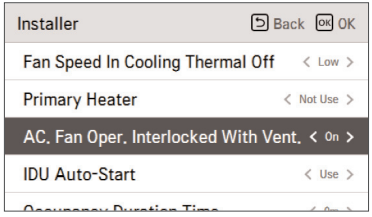


Value	Description
Not use	During the heating, heater is set to be used as secondary
Use	During the heating, heater is set to be used as main

Air conditioner Fan operation interlocked with ventilation setting (air conditioner)

It is the function to set the air conditioner fan operation if the ventilation is operated while the air conditioner operation is stopped when the air conditioner and the ventilation are installed to interface with each other.

• You can set the following setting values using [<,>(left/right)] button.



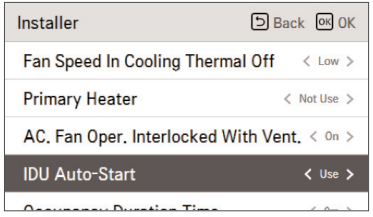
Value	Description
Off	The air conditioner indoor unit Fan is Off during the ventilation interface
On	The air conditioner indoor unit operates in very weak wind during the ventilation interface

- When the air conditioner operation is Off, if the ventilation product is in operation, the air conditioner fan shall be operated, and when the fan is in operation, dust may fall, so it is the function to set the air conditioner fan operation status in case of ventilation interface through the setting.

Indoor unit Auto-Start setting (air conditioner / DX ventilator)

It is a function that sets whether to restore the indoor unit operation by resuming the previous power-on state or as power-off state in the power failure compensation.

• You can set the following setting values using [<,>(left/right)] button.

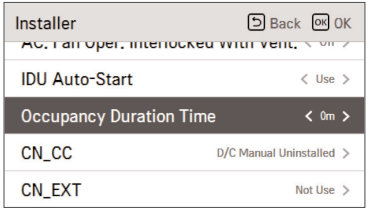


Value	Description
Use	Use indoor unit auto restart
Not use	Not use indoor unit auto restart

Occupancy duration time setting(air conditioner)

It is a function that sets the light-on/occupancy duration after motion is detected when installing an occupancy sensor.

• You can set the following setting values using [<,>(left/right)] button.

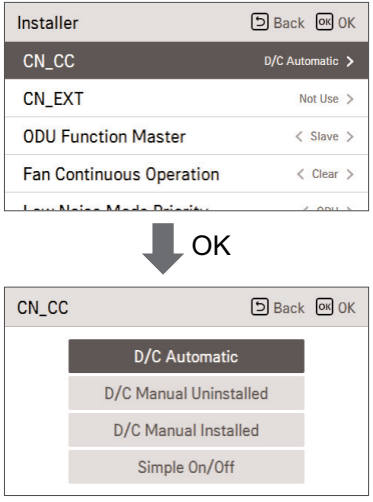


Value
0 Minute
10 Minutes
30 Minutes
60 Minutes

CN_CC setting (air conditioner)

It is the function to set the usage of the indoor unit's CN_CC port.

• Select CN_CC setting category, and press [OK] button to move to the detail screen.



Value	Description
DC auto install (default)	When power is applied to the product, indoor unit when the contact point is on in Dry Contact installed state recognizes Dry Contact installation
DC manual not install	Do not use (install) Dry Contact
DC manual install	Use (install) Dry Contact
Programmable DI/DO	Use as Programmable DI/DO (Simple On/Off)

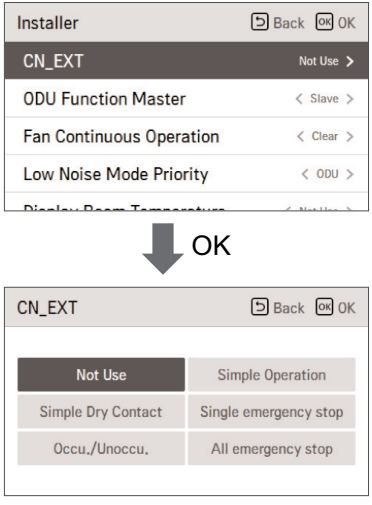
NOTE

CN_CC is the device connected to the indoor unit to recognize and control the external contact point.

CN_EXT setting (air conditioner / DX ventilator)

It is the function to set to control the external input and output according to DI/DO set by the customer using the indoor unit's Dry Contact Port. (It is the function to decide the usage of the contact point port (CN_EXT) mounted in the indoor unit PCB.)

• In the installer setting list, select CN_EXT setting category, and press [OK] button to move to the detail screen.

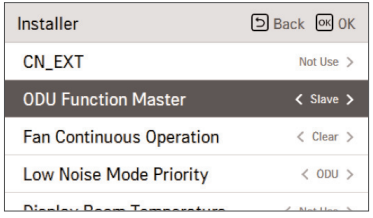


Value	Description
Not use (default)	Use installer code No. 41 setting value (simple Dry Contact setting value)
Simple operation control	Simple operation On/Off
Single emergency stop	Indoor unit single emergency stop
Occupied / Unoccupied	Occupied / Unoccupied
All emergency stop	Indoor unit all emergency stop ※ It can be set only when there is indoor unit emergency stop function.

Outdoor unit function master setting (air conditioner / DX ventilator)

It is the function to set the outdoor unit's function Master / Slave.

• You can set the following setting values using [<,>(left/right)] button.



Value	Description
Slave	Cannot enter the Smart load control function setting Cannot enter the low noise operation time setting Cannot enter the refrigerant noise reduction setting Cannot enter the defrost mode setting
Master	Smart load control function setting is possible Low noise operation time setting is possible Refrigerant noise reduction setting is possible Low noise operation control main agent setting is possible Defrost mode setting is possible

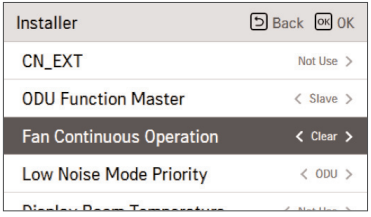
CAUTION

※When you change the outdoor unit function master setting from master to slave, check the operation status of the outdoor unit function (outdoor unit low noise operation, smart load control) and make sure to stop the outdoor unit function before the change.

Fan continuous operation setting (air conditioner)

It is the function to set the indoor unit's continued fan function usage. (It is the function to maximize the cooling/heating efficiency by the outdoor unit operating the indoor unit fan operation longer than the previous operation method.)

• You can set the following setting values using [<,>(left/right)] button.

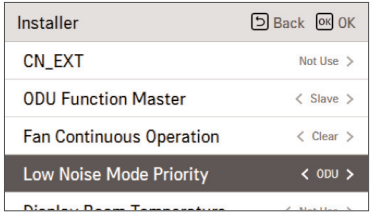


Value	Description
Clear	Do not use continued fan usage
Set	Use continued fan usage

Low Noise Mode Priority setting (air conditioner / DX ventilator)

It is the function to set the low noise mode control main agent. (It is the function to set that only one of the outdoor unit / remote controller can control the low noise operation.)

• You can set the following setting values using [<,>(left/right)] button.

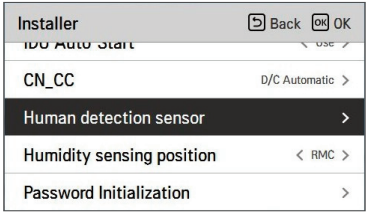


Value	Description
RMC	Ignore the outdoor unit PCB's low noise operation Switch Setting value - Function setting – remote controller low noise operation time menu de-activation
ODU(default)	It is controlled in the outdoor unit itself according to the outdoor unit PCB's low noise operation Switch Setting value - Function setting – remote controller low noise operation time menu de-activation

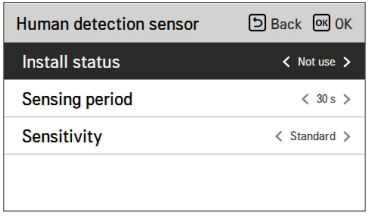
Human detection sensor

It is the function to set whether to install human detection sensor and operation standard value.

• In the installer setting list, after selecting human detection sensor setting category, if you press [OK] button, it moves to the detail screen.



• You can set the following setting values for each category using [<,> (left/right)] button.

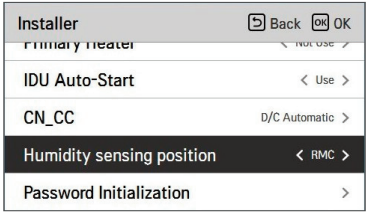


Value	Description
Installation status	Not installed, basic installation, 90º rotation installation
Detection result sending cycle	5 s, 30 s, 1 min., 3 min.
Sensitivity setting	Standard, low sensitivity, high sensitivity

Humidity sensing position (air conditioner)

It is the function to set the location to detect humidity.

You can use [<, > (left/right)] button to set the following setting values.



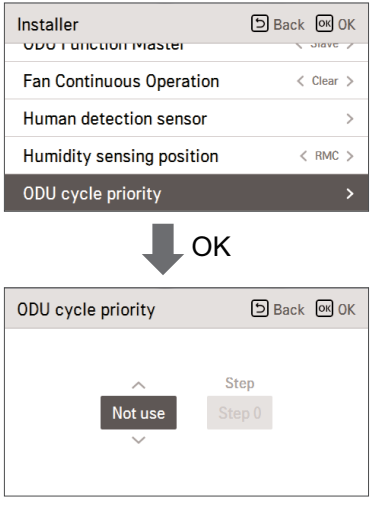
Value	Description
Remote controller (default value)	Humidity sensor of the remote controller itself
Indoor unit	Humidity received from indoor unit

ODU cycle priority (airconditioner)

This function can set cycle priority of outdoor unit.

Multi V Heat Pump system does not support mixed mode therefore wired remote controller can not show opposite operation mode for select option while ODU operate cooling or heating cycle.

Set this function user can select opposite operation mode with wired remote controller and in-door units enter to 'standby' status or outdoor unit can support cooling first and operate heating with heater.



Option	Description
Not use	Does not support opposite cycle operation using wired remote controller - When ODU operate as cooling cycle selectable operation modes with wired remote controller are cool, auto, dehumidification and fan. - When ODU operate as heating cycle selectable operation modes with wired remote controller are heat, auto and fan
Standby	When user set opposite operation mode using wired remote controller in-door unit stop thermal operation and fan.
Cool	Cooling cycle has a priority. When user change operation mode of specific indoor unit to cooling on heating cycle, outdoor unit change cycle to cooling and Indoor unit keep heating operation using heater. ❉ Please set emergency heater and aux heater function before using this option

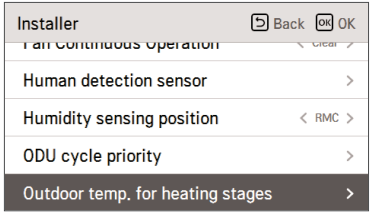
❉ When user select cooling option, additional setting menu will be activated.
The additional timer setting menu is for setting minimum cooling operation period.
Once outdoor unit change over to cooling by cooling priority, outdoor unit can change over to heating after set time.

Setting value	Cooling operation time
Step 0	45 min.(default)
Step 1	30 min.
Step 2	60 min.
Step 3	90 min.
Step 4	120 min.

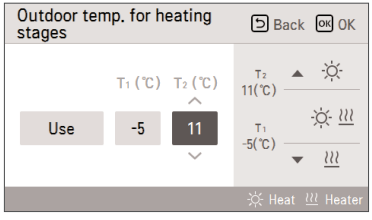
Outdoor temp. for heating stages (air conditioner)

It is a function that sets outdoor temperature values for two stage heating.

if user set outdoor temperature T1 and T2, Indoor unit will select heating stage between Indoor unit operation and heater operation.



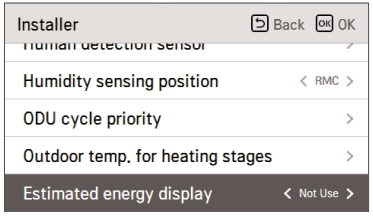
OK



T1 Value	T2 Value
-23 ~ 16 °C (-10 ~ 60 °F)	-23 ~ 51 °C (-10 ~ 130 °F)

Estimated energy display (airconditioner)

This function can set to display energy data which outdoor unit estimated power consumption data without wattmeter.

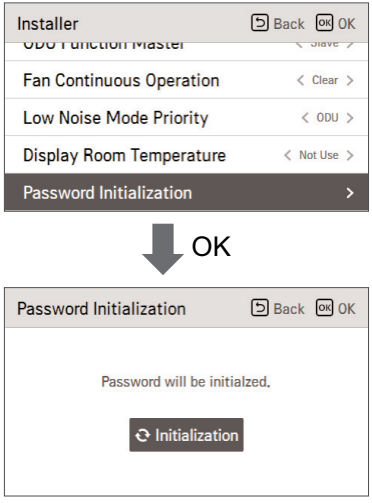


Setting value	Description
Use	Display energy consumption data which outdoor unit estimated
Not Use	Not display energy consumption data which outdoor unit estimated

Password initialization (air conditioner / general, DX ventilator)

It is the function to initialize (0000) when you forgot the password set in the remote controller.

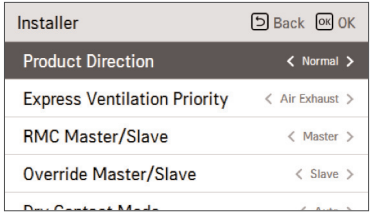
- In the installer setting list, select the password initialization setting category, and press [OK] button to move to the detail screen.
- When you press “initialization” button, a popup screen appears, and when you press “check” button, password initialization starts, and the user password is changed to 0000.



Product direction (general ventilator)

It is the function to set the direction of the ventilation product.

• Select value using [<,>(left/right)] button.

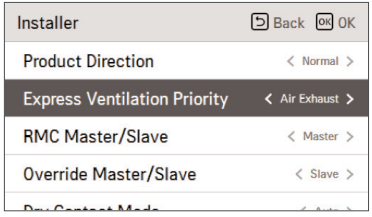


Value	
Normal	Reverse

Express ventilation priority (general , DX ventilator)

It is the function to set the priority of the air supply and air discharge during the express ventilation operation.

• Select value using [<,>(left/right)] button.

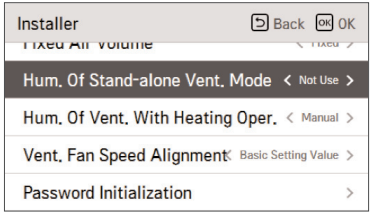


Value	
Priority in air supply	Priority in air discharge

Humidification of stand-alone ventilation mode (general , DX ventilator)

It is the function to set whether to use the humidification function during the ventilation product single operation.

• Select value using [<,>(left/right)] button.

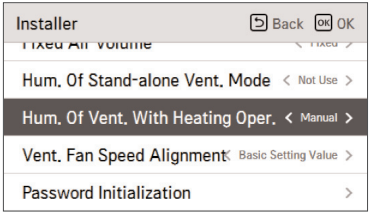


Value	
Not use	Use

Humidification of ventilation with heating operation (DX ventilator)

It is the function to set the heating humidification function of the direct ventilation to be automatic or manual.

• Select value using [<,>(left/right)] button.

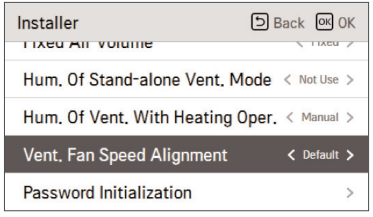


Value	
Not use	Use

Ventilation Fan Speed Alignment(DX ventilator)

It is the function to change the standard fan speed of the ventilation product.

• Select value using [<,>(left/right)] button.



Value			
Default value	10% increase	10% decrease	20% decrease

GUIDE TO DIFFERENT MODE OPERATION/OPEN SOURCE SOFTWARE

Different mode operation

Different mode operation is the case when the indoor units' operation modes are different when multiple indoor units are installed to one outdoor unit. (Different mode operation doesn't happen in the cooling exclusive model.)

• Example of different mode operation
- When one indoor unit is operated in heat while several indoor units one outdoor unit are operated in cooling, the heating operation is not performed.
- With one outdoor unit, while several indoor units are in heat mode, if one indoor unit requests in cooling or dehumidification, the operation is not performed.

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