



# INSTALLATION & OPERATION LG PROGRAMMABLE THERMOSTAT

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.

LG Programmable Thermostat  
PREMTB10U



P/NO : MFL62129209  
Rev.02\_061217

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[www.lg.com](http://www.lg.com)

ENGLISH

FRANÇAIS

ESPAÑOL



## TIPS FOR SAVING ENERGY

Here are some tips that will help you minimize 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 be harmful for your health and 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.
- Open windows regularly for ventilation as the indoor air quality may deteriorate if the air conditioner is used for many hours.
- Clean the air filter once every 2 weeks. Dust and impurities collected in the air filter may block the air flow or weaken 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**

It can result in serious injury or death when the directions are ignored.

#### **⚠ CAUTION**

It can result in minor injury or product damage when the directions are ignored.

#### **⚠ WARNING**

- Installation or repairs made by unqualified persons can result in hazards to you and others.
- The information contained in this manual is intended for use by a qualified service technician familiar with safety procedures and equipped with the proper tools and test instruments.
- Failure to read and follow all instructions in this manual carefully can result in equipment malfunction, property damage, personal injury, and/or death.

#### **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.
- When installing or reinstalling this product, contact a service center or qualified electrician for all services. Failure to do so may result in a 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.

#### **In-use**

- Do not place flammable substances (such as gasoline, paint thinner, etc...) close to the product. There is a risk of fire, electric shock, explosion, equipment malfunction, or injury.
- Do not allow water to run into the product. If the product gets wet, request the dealer, seller, a qualified electrician, or an authorized Service Center to repair it. Failure to do so may result in a risk of fire, electric shock, explosion, equipment malfunction, or injury.
- Do not give hit or use sharp or pointed objects on the product. There is a risk of fire, electric shock, explosion, equipment malfunction, or injury.





## 4 IMPORTANT SAFETY INSTRUCTIONS

- 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; instead, use soft cloths and mild detergents. Failure to do so may result in a risk of fire, electric shock, explosion, equipment malfunction, or deformation.
- Do not press too hard on the thermostat's screen, as it may result in a malfunctioning product.

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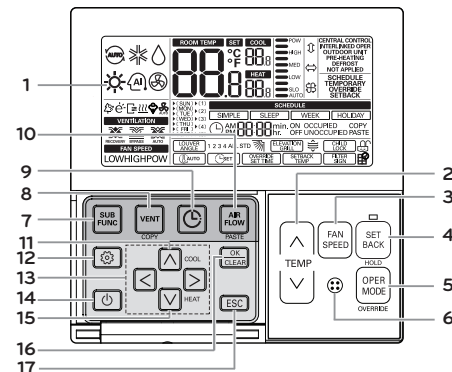
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## PART DESCRIPTION

## Name and Function of Thermostat



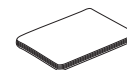
- |   |  |    |                              |
|---|--|----|------------------------------|
| 1 | Operation indication screen  | 10 | Air flow button              |
| 2 | Set temperature button   | 11 | Desired cooling temperature  |
| 3 | Fan Speed button   | 12 | Function setting button      |
| 4 | Set back button  | 13 | Up, Down, Left, Right button |
| 5 | Operation mode selection button  | 14 | On/Off button                |
| 6 | Wireless Thermostat receiver<br>- Some product don't receive the wireless signals. | 15 | Desired heating temperature  |
| 7 | Sub function button  | 16 | Setting/Cancel button        |
| 8 | Ventilation button   | 17 | Exit button                  |
| 9 | Reservation button   |    |                              |

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

## Accessory



Screw  
(4 EA)

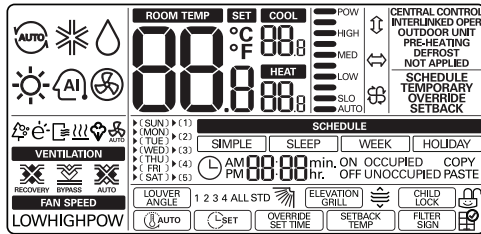


Installation & Operation  
Manual





## Icon description



Function	Icon	Description
Operation mode		<b>Auto mode</b> - Product automatically switches between cooling and heating modes.
		<b>Cooling mode</b> - Product is running cooling mode.
		<b>Dehumidification Mode</b> - Product is running dehumidifying mode.
		<b>Heating mode</b> - Product is running heating mode.
		<b>Fan only operating mode</b> - Product is running only the fan for ventilation.
Sub function		<b>Plasma Purification</b> - Product is operating Plasma Purification filter.
		<b>Energy-Saving Cooling Operation</b> - Product is running cooling mode in limited set temperature for energy savings.
		<b>Automatic Drying</b> - Indoor unit operates in the Automatic drying mode.
		<b>Auxiliary Heat Control</b> - Product operates Auxiliary Heat Control in heating mode.
		<b>Humidifier</b> - Product operates in the Humidifier mode.
		<b>Fan Auto function</b> - Indoor unit enables fan auto function. - Indoor unit doesn't operate fan when compressor is off.

Function	Icon	Description
Temperature		<b>Current temperature</b> - Display current room temperature.
		<b>Cooling set point temperature</b> - temperature set point for cooling operation.
		<b>Heating set point temperature</b> - temperature set point for heating operation.
Fan Speed		<b>Displays current fan speed.</b> <b>POW</b> : Fan speed - power <b>HIGH</b> : Fan speed - high <b>MED</b> : Fan speed - medium <b>LOW</b> : Fan speed - low <b>SLO</b> : Fan speed - weak <b>AUTO</b> : Fan speed - automatic
Air Flow		<b>Louver up-down swing</b> - Operates the indoor unit's louver up-down swing.
		<b>Louver left-right swing</b> - Indoor unit louver operates left-right swing.
		<b>Louver Swirl swing</b> - Operates the indoor unit's paired cross-swing.
Controller mode		<b>Schedule operation mode(Simple / sleep / week / holiday)</b> - Controller operates in accordance with a set schedule.
		<b>Temporary mode</b> - Setting mode changes temporarily.
		<b>Schedule override mode</b> - Occupied/unoccupied state change.
		<b>Set back operation mode</b> - Controller operates set back operation.
Product state monitoring		Command received from central controller or outdoor unit
		Slave indoor unit on a heat pump system. Prevents changing to a mode not compatible with the current outdoor unit mode.
		Outdoor unit running
		Indoor unit pre-heating operation running
		Defrost operation running
		Function not applied
		Function not applied





## 10 PART DESCRIPTION

Function	Icon	Description	
Schedule		Simple schedule in operation	
		Sleep schedule in operation	
		Weekly schedule in operation	
		Holiday schedule in operation	
Schedule & Time		Day of the week	
	1 2 3 4 5	The number of weekly reservation event(s)	
	AM PM	Time - AM/PM	
	88:88	Time - value of hour / minute	
	min. hr.	minute / hour	
	ON OFF	Turn on/off by schedule	
	OCCUPIED UNOCCUPIED	Display weekly schedule occupied / unoccupied state	
	COPY PASTE	Weekly schedule data copy / paste	
	Function setting		Louver angle setting step
		1 2 3 4 ALL STD	1,2,3,4,ALL : Louver number / STD: Standard angle set
		Louver angle state	
		Elevation grill setting step	

## PART DESCRIPTION 11

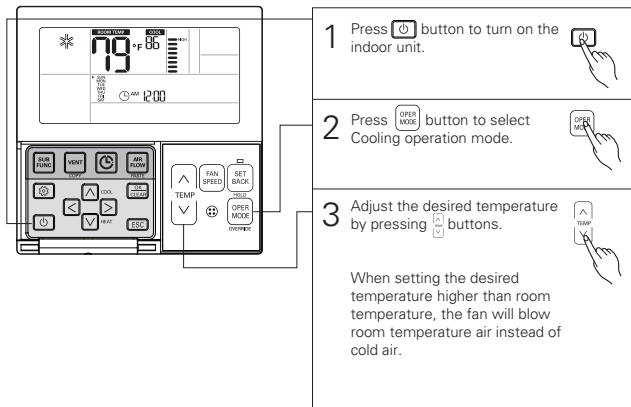
Function	Icon	Description
Function setting		Grill state  : up /  : stop /  : down
		Child lock setting step
		: Child lock set /  : Child lock cancel
		Minimum difference value setting step between cooling / heating set points
		Current time setting step
		Schedule override timer setting step
		Default Set back cooling / heating temperature set points setting step
		Filter sign clear setting step
		Indoor unit air filter cleaning alarm





## OPERATION INSTRUCTIONS

### Standard Operation - Cooling Mode



- ※ Setting temperature range :
- Option 1. 64~86 °F (18~30 °C) (default setting)
  - Option 2. 64~99 °F (18~37.5 °C)
  - Option 3. 50~99 °F (10~37.5 °C) (if connecting to indoor unit with 2set point function)

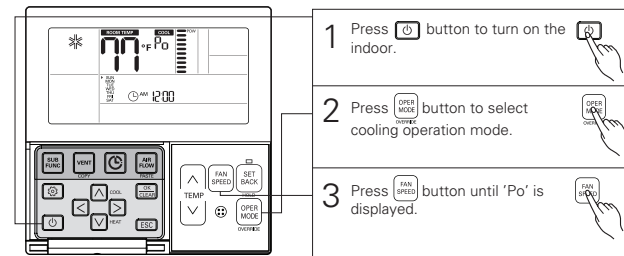
#### What is the three-minute delay function?

The function of the three minute delay is to protect the compressor by delaying the output of cool air if the cooling mode is interrupted.

Cooling mode restarts after 3 minutes when the compressor starts to operate.

- For Option 2, when setting the desired temperature in the upper range of 87~99 °F (30.5~37.5 °C), the indoor unit will shut off if the indoor temperature is lower than the desired temperature.
- When using a central controller, a displayed value of the desired temperature may differ depending on a function of the product.
- If indoor unit has 2set point function selected, unit will turn off thermal once the desired set point is achieved.

### Standard Operation - Power Cooling



#### What is Power Cooling?

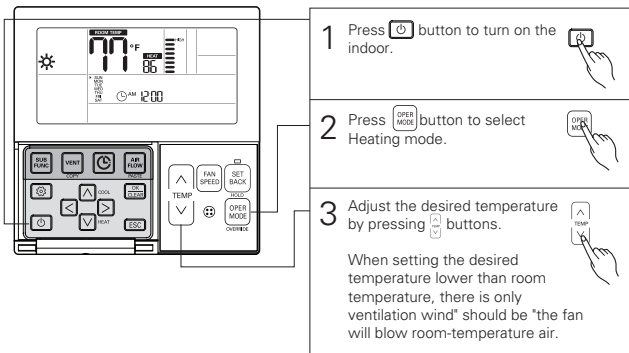
Power cooling cools the room quickly by blowing cold air at the powerful setting until the room reaches 64 °F (18 °C).

※ Some products do not have power air-cooling function.





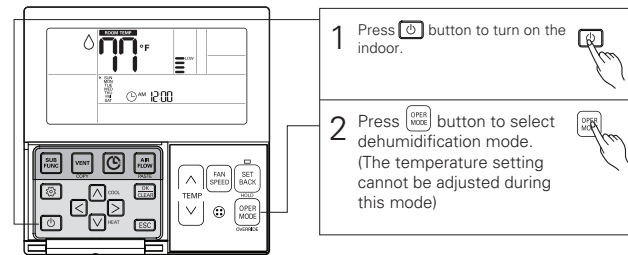
## Standard Operation - Heating Mode



\* Setting temperature range:  
 Option 1: 60~86 °F (16~30 °C) (default setting)  
 Option 2: 40~86 °F (4~30 °C)

- Heating drive only operates on cooling and heating models.
- Heating doesn't operate on cooling only models.
- For option 2, when setting the desired temperature between 40~59 °F (4~15.5 °C), the indoor unit shuts off if the indoor temperature is higher than the desired temperature.
- When using a central controller, a displayed value of the desired temperature may differ depending on the function of the product.
- If indoor unit has 2set point function selected, unit will turn off thermal once the desired set point is achieved.

## Standard Operation - Dehumidification Mode

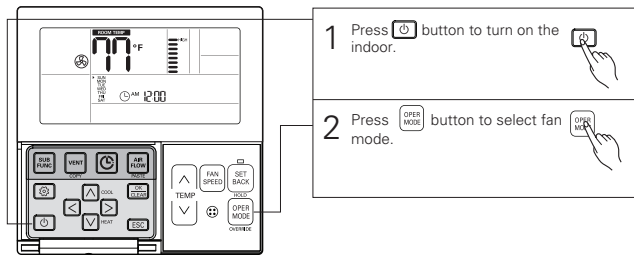


- In rainy season or high humidity climates, it is possible to operate dehumidifier and cooling mode simultaneously to remove humidity effectively.
- The menu item of fan speed unavailable, depending on the product.



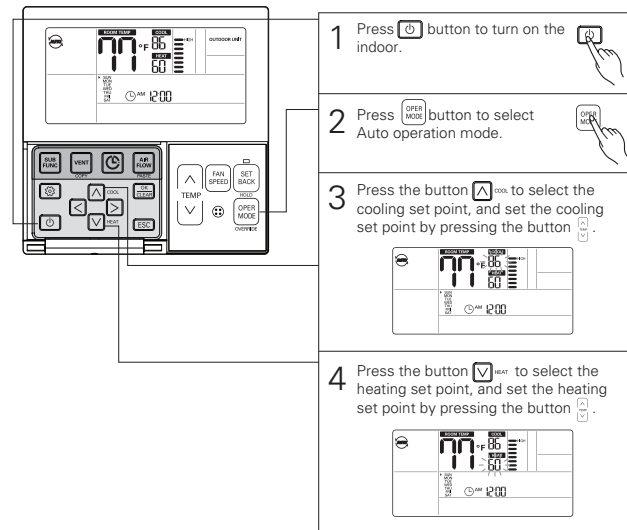


### Standard Operation - Fan Mode

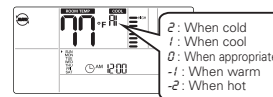


- Fan mode only provides ventilation, it does not provide cool air.
- The menu item of fan speed may be unavailable depending on the unit.

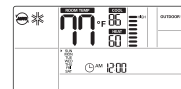
### Standard Operation - Auto Operation Mode (2Set point Control)



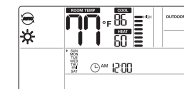
For the case of cooling exclusive, you can adjust the temperature from hot to cold, from "-2" to "2" based on "0".



Cooling operation state



Heating operation state

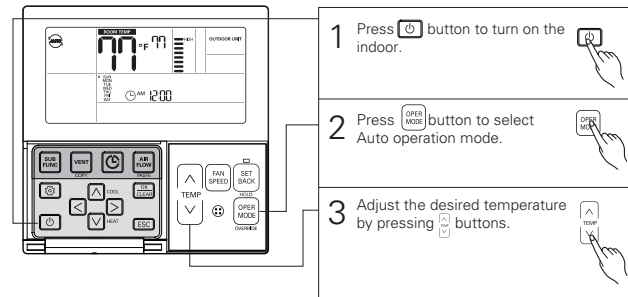




- Auto heating drive only operates on cooling and heating models.
- Auto heating doesn't operate on cooling only models.
- 87~99 °F (30.5~37.5 °C) When setting the desired cooling temperature, the indoor unit shuts off on condition that the indoor temperature is lower than the desired temperature.
- 40~59 °F (4~15.5 °C) When setting the desired heating temperature, the indoor unit shuts off on condition that the indoor temperature is higher than the desired temperature.
- When using a central controller, a displayed value of the desired temperature may differ depending on a function of the indoor unit.
- If indoor unit has 2set point function selected, unit will turn off thermal once the desired set point is achieved.

### Standard Operation - Auto Operation Mode (1Set point Control)

It is an auto operation mode that is used in connection with the 1set point control product.



\* Setting temperature range :  
64~86 °F (18~30 °C)

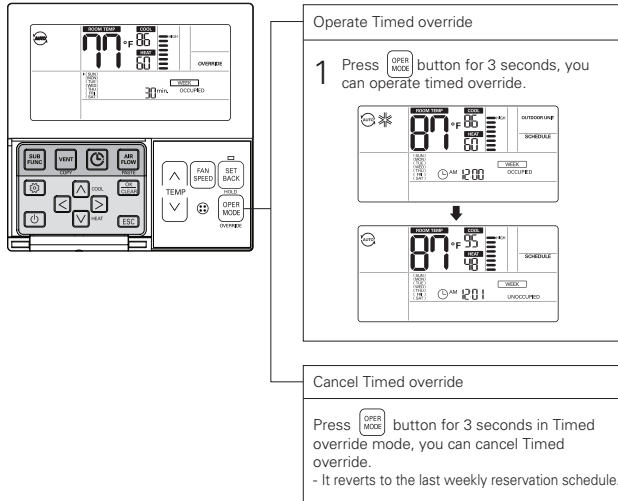




## Standard Operation - Timed Override

Timed override operation temporarily changes the occupied/unoccupied schedule for override time.

- It reverts to the last occupied schedule in unoccupied override.
- It reverts to the last unoccupied schedule in occupied override.
- You can set 'Override time' by 'Function setting - Override set time'

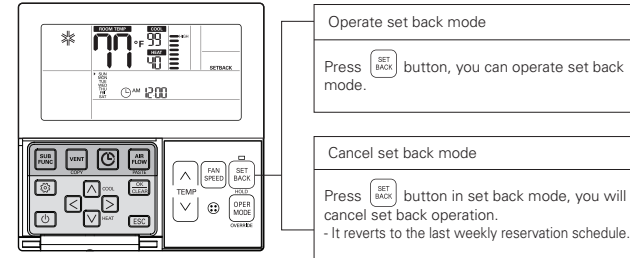


- It reverts to the default operation setting if the Thermostat does not have the last occupied schedule in unoccupied override.
  - The default operation setting is Auto operation mode with 86 °F (30 °C) for the cool set point and 60 °F (16 °C) for the heat set point.
- It reverts to set back operation setting if Thermostat does not have last unoccupied schedule in occupied override.
  - Set back operation setting: Auto operation mode / set back setting temperature: function setting - set back temperature.
- It can be canceled if the Thermostat receives a command from another controller.
- When changes occur in the setting by a daytime reservation operation, the schedule override mode gets deactivated.

## Standard Operation - Set back

Set back operation reverts to the last unoccupied schedule until Set back operation is canceled.

- It changes to 'function setting - set back setting' if Thermostat doesn't have last unoccupied schedule.
- Set back operation setting :  
Auto operation mode / Set back setting temperature: Function setting - Set back temperature



- You cannot change the setting in set back mode, except to cancel the set back mode.
  - 'HL' lock is displayed on the window.



- It can be canceled if the Thermostat receives command from another controller.
- When the set back mode is deactivated, the following take place:
  - The set points will go to the current occupied set points.
  - The default occupied setting will be Auto with 86 °F (30 °C) for the cool set point and 60 °F (16 °C) for the heat set point.

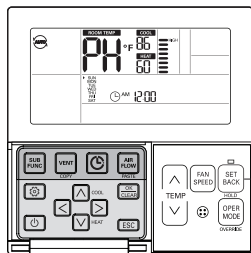




## Standard Operation - Hold

It is a function that holds the current mode of operation.

- If it is on hold, daytime schedule cannot be programmed.
- If it is on hold, current room temperature does not display.



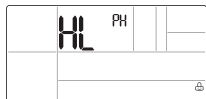
Operate Hold mode.

Press **SET BACK** button for 3 seconds, you can operate 'Hold' function.

Cancel Hold mode.

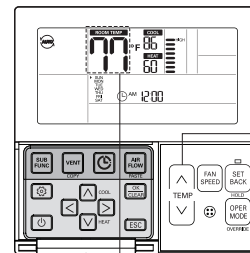
Press **SET BACK** button for 3 seconds in 'Hold', you can cancel 'Hold'.  
If Hold mode is cancelled with daytime schedule programmed, it runs the latest schedule.

- You can't change setting in 'Hold' except cancel the 'Hold'



- It can be canceled, if the thermostat receives a command from another controller.
- When commands are received by other controllers, the Hold mode gets deactivated.

## Standard Operation – Temperature Setting



- 1 Press the **TEMP** buttons to adjust the desired temperature.

In Auto mode, adjust cooling and heating set points individually by pressing the cool or heat set point selection button.

- ▲ TEMP** : Increase Temp. per one time pressing
- ▼ TEMP** : Decrease Temp. per one time pressing

- **Set temp.** : Indicates the temperature that user wants to set.

Cooling operation:

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

Heating operation:

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

### Checking the room temperature

When Thermostat is running, the room temperature will be displayed on the screen.

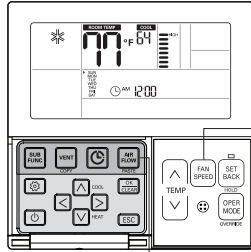
Room temperature display range

- Fahrenheit: 33~99°F
- below 32°F: displays 'LO'
  - over 100°F: displays 'HI'
- Celsius: 1~39°C
- below 0°C: displays 'LO'
  - over 40°C: displays 'HI'
- Because of location of temperature sensing, the real room temperature and this displayed value can be different.

- For air-cooling set point, from 64~86 °F (18~30 °C), and for heating set point, from 60~86 °F (18~30 °C), you can select desired temperature.
  - \* A temperature area of extended range can be selected through desired temperature range setting option.
    - Cooling : 64~99 °F (18~37.5 °C) / Heating : 40~86 °F (4~30 °C)
- 10°F is proper for the difference between room and outside temperature.
  - When combined with other controllers, the temperature displayed on each controller may differ.
- For indoor temperatures below 50 °F (10 °C), the value perceived by the Thermostat (with cable) is displayed.



## Standard Operation - Airflow Setting



Fan speed : You can simply adjust desired fan speed.

- 1 Please set up desired fan speed by fan speed button.
  - Every time you press fan speed, you can select the fan speed in order of 'SLO → LOW → MED → HIGH → POW → AUTO'.
  - The menu item may be unavailable according to product function.
  - Please refer to the product manual for product's detailed function.

Wind direction : You can simply adjust desired wind direction.

- 2 Please set desired wind direction by pressing **DIR** button. You can select wind direction of (Up/Down and Left/Right → Left/Right → Up/Down → Clear → Swirl → Clear) by pressing **DIR** button. The menu item may be unavailable according to product function. Please refer to product manual for product's detailed function.

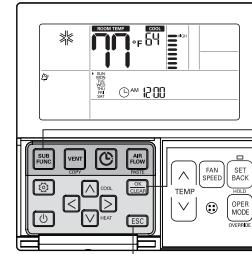
Airflow Setting Table

Symbol	Description
	Left-Right : Vanes move from left to right automatically and continuously
	Up-Down : Vanes move from up to down automatically and continuously
	Swirl : Paired Vanes oscillate in 1 minute interval

\* Some functions may not be operated and displayed depending on the indoor unit type.

## Sub Function - Plasma Purification

Only products with Plasma Purification function can use this.



The method to set up plasma purification

- 1 Press **PLASMA** button until icon flashes.
- 2 Operate or cancel Plasma Purification function by pressing **PLASMA** button.
- 3 After setting, press **ESC** button to exit.

\* After setup, it automatically exits after 25 seconds if there is no input. If the Setting/Cancel button is not pressed, the mode will not change.

- Plasma purification is an additional function and it might not be available on all types of indoor unit.
- This plasma purification is possible only when the indoor unit is running. To using plasma purification without cooling or heating, you can run plasma purification function on fan mode.



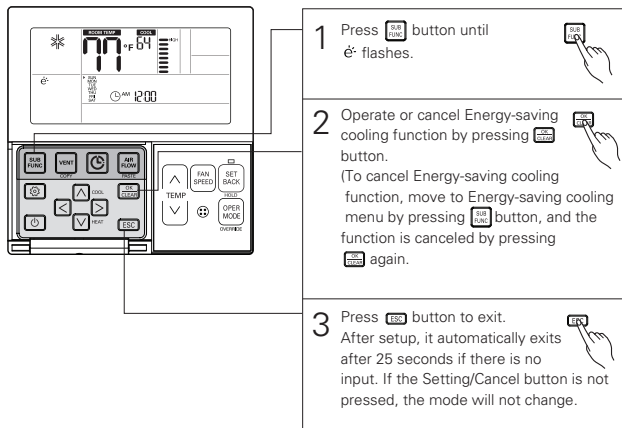


## Sub Function - Energy-Saving Cooling Operation

Energy-Saving Cooling Operation is the function to improve user's comfort and power saving capacity by adjusting the desired temperature while running air-cooling.

When operating cooling, setting the Energy-saving cooling function is available.

※ Except for cooling operated by the auto mode.

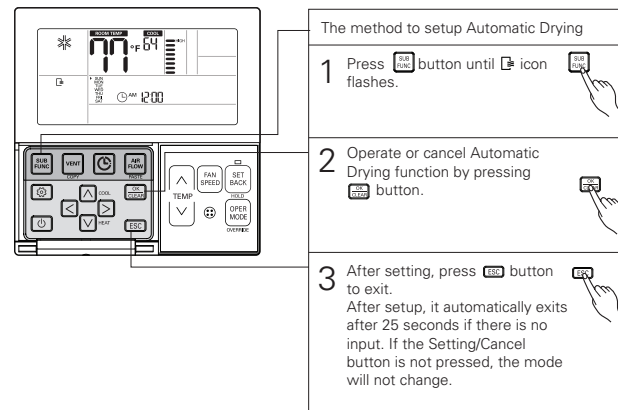


- Energy-saving cooling is only available for the cooling mode.
- Energy-saving cooling function might not be available on all indoor units.

## Sub Function - Automatic Drying

It is the function that dries the inside of an indoor unit when the indoor unit is OFF, and allows for the Fan to operate for a certain time in order to prevent mold and moisture.

This function is only available on some indoor units.



- Automatic dry function might not be available on all indoor units.

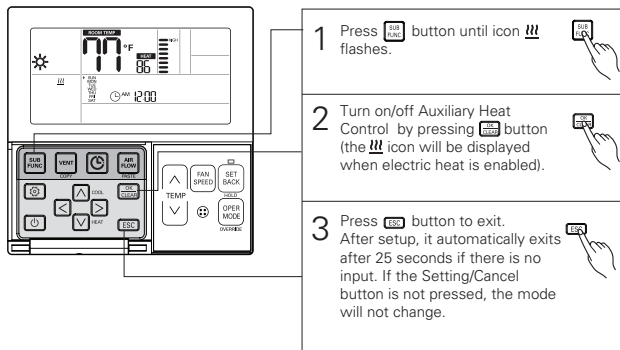




## Sub Function - Auxiliary Heat Control

It is a function to allow auxiliary heating ability by turning on the Auxiliary Heat Control during the heating operation.

It can only be set during Heating operation or Auto(heating mode) operation.



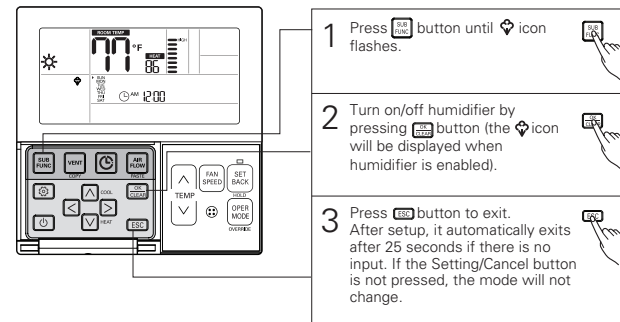
- Heater function is additional function and it might not be available on all indoor units.
- The indoor unit product with External Auxiliary Heat kit function set automatically displays icon during the heating operation.

- When using non-heat recovery outdoor unit, emergency heater can be turned on for simultaneous heating and cooling. Indoor units with the emergency heater must be turned OFF for simultaneous cooling and heating.
  - \* Heater function is additional function and it only operates in selected models.
- Auxiliary Heat Control icon is displayed in the LCD display window with error code when emergency heater is on while in error.
  - \* Exceptions: Error codes 1, 3, 9, and 10
  - \* If the previous mode of the Indoor unit is COOL, DRY, FAN ONLY mode, heater must be turned on manually.



## Sub Function - Humidifier

Only products with humidifying function can use this.



- Humidifier function is additional function and it might not be available on all indoor units.





## Sub Function - Fan Auto

It is the function that operates the fan when the outdoor unit is running. Only indoor units with fan auto function can use this.

The method to set up Fan auto function

- 1 Press **FAN** button until icon flashes.
- 2 Operate or cancel Fan Auto function by pressing **MODE** button.
- 3 After setting, press **ESC** button to exit.  
After setup, it automatically exits after 25 seconds if there is no input. If the Setting/Cancel button is not pressed, the mode will not change.

## Function Setting - Vane Angle Control

This function is to adjust airflow angle.

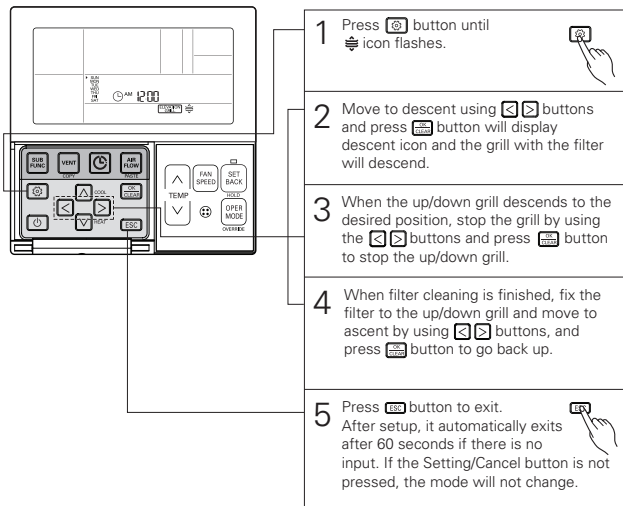
- 1 Press **MODE** button until icon flashes.
- 2 Press **MODE** button to select active vane : 1 / 2 / 3 / 4 / All / Standard  
Select Vane number using **LEFT** / **RIGHT** buttons.  
\* Vane number : No. 1, 2, 3, 4, all, or standard  
- Selected vane is in operation.  
- Please verify the operating vane.  
- To set the angle of all the vanes, select 'all'.  
- To set as the factory default settings, select 'standard'.
- 3 Select wind angle using **UP** / **DOWN** buttons, and press **MODE** button.  
- The boundary of wind angle settings can be changed to 5 levels or 6 levels according to the product.  
- When selecting 'standard' for Vane number, the wind angle does not move.
- 4 Set the air flow angles for the remaining vanes as the same as above.  
\* Some indoor units only have vane numbers 1 and 2.
- 5 Press **MODE** button to complete and activate the setting process.  
(Airflow direction function will be released whenever setting vane angle)
- 6 Press **ESC** button to exit.  
After setup, it automatically exits after 60 seconds if there is no input. If the Setting/Cancel button is not pressed, the mode will not change.

- While adjusting the vane angle, a command from central controller, wireless remote controller or dry contact, etc shall not be reflected in the system for 1 minute.



## Function Setting - Elevation Grill

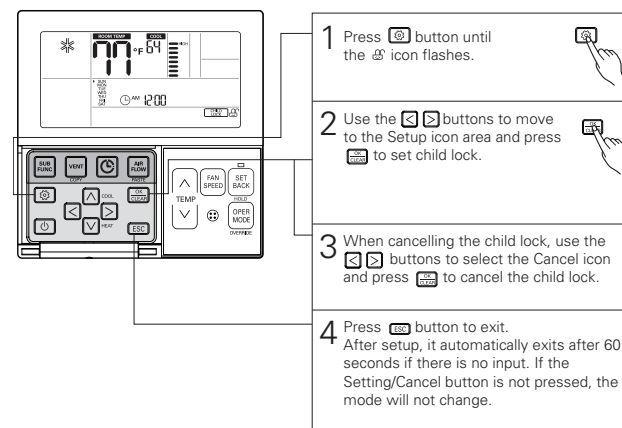
This function is to move the indoor filter up/down for cleaning filter.



- Elevation grill function only operates in the indoor unit with the elevation grill.
- Elevation grill function only operates at drive off.

## Function Setting - Child Lock

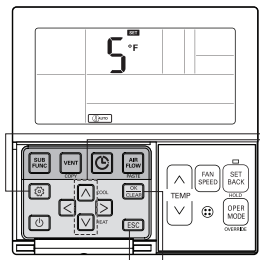
This function prevents children or other users from using the Thermostat carelessly.





## Function Setting - Minimum Difference Between Heating and Cooling Set Points (2Set point Control)

This function sets the difference between Heating and Cooling set points.



- 1 Press **SET** button until the **2Set** icon flashes.
- 2 Press **▲**/**▼** buttons to change.  
\* minimum difference values : 0~10°F(0~5°C)  
**5°F → 10°F**
- 3 Press **SET** button to complete the setting process.  
**10°F**
- 4 Press **ESC** button to exit. After setup, it automatically exits after 60 seconds if there is no input. If the Setting/Cancel button is not pressed, the mode will not change.

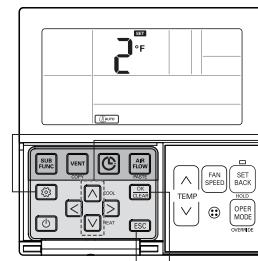
- When adjusting the minimum setting, both the heating and cooling set points will be adjusted to maintain the value as a minimum between heating and cooling set points.

\* If power is lost for more than 50 hours, check displayed time and correct if needed.

## Function Setting - Auto Change over Change temperature (1Set point Control)

Change temperature is the function to setup air-cooling and heating drive automatically changeable according to the temperature at 1set point Auto operation mode.

This Function is used in connection with the 1set point control product.

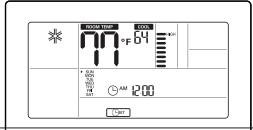


- 1 Press **SET** button until the **1Set** icon flashes.
- 2 Press **▲**/**▼** buttons to change.  
\* Change temperature : 2~14°F (1~7°C)  
**2°F → 4°F**
- 3 Press **SET** button to complete and active the setting process.  
**4°F**
- 4 Press **ESC** button to exit or system will automatically release without any input after 60 seconds.  
\* When exiting without pressing set button, the manipulated value is not reflected.

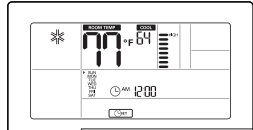




## Function setting - Changing Current Time



- Press the function setup button until it moves to time setup menu.  
The 'Time setup' icon appears and the time and day blink in the current time indication area.  
The example demonstrates changing the current time to 'Monday at 10:20 a.m.'
- Press keys to adjust the current day.  
SUN  
MON  
TUE  
WED  
THU  
FRI  
SAT
- Press key to move to AM/ PM selection mode (the AM/ PM segment will flash).  
⌚ AM 12:00
- Set the AM/ PM value by pressing buttons.
- Press buttons to move to 'Hour' setting mode. (the 'Hour' segment will flash)  
⌚ AM 12:00
- Set the Hour value by pressing buttons.  
⌚ AM 10:00



- Press buttons to move to 'Minute' setting mode. (the 'Minute' segment will flash)  
⌚ AM 10:00
- Set the Minute value by pressing buttons.  
⌚ AM 10:20
- Press button to finish.  
⌚ AM 10:20
- After setup, it automatically exits after 60 seconds if there is no input. If the Setting/Cancel button is not pressed, the mode will not change.





## Function Setting - Override set time

This function is to set a schedule override operation time.

- Use **SET** button to select Override time setting.  
If you press **SET** button, you will be able to select Override time with the **TEMP** icon, and **30min** icon will be blinking.
- Using **▲**/**▼** buttons, you can set Override time from 30 to 240 minutes with an interval of 30 minutes.  
• Default setting value: 60 minutes.  
**30min. → 240min.**
- Press **SET** button to complete the setting process.  
**240min.**
- Press **ESC** button to exit.  
After setup, it automatically exits after 60 seconds if there is no input. If the Setting/Cancel button is not pressed, the mode will not change.

## Function Setting - Set back temperature

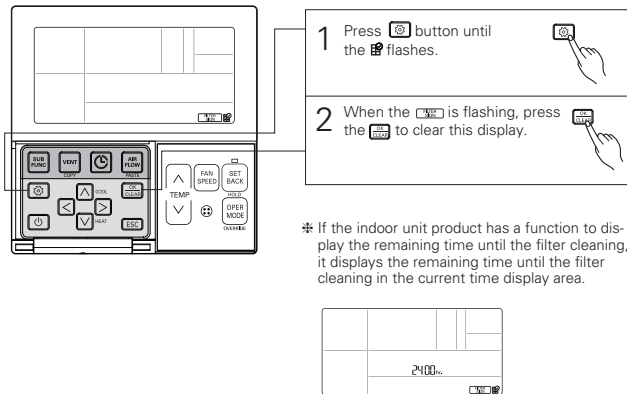
This function is to set the default temperature set points for set back operation. It is used when the controller doesn't have a last known unoccupied schedule.

- Use **SET** button to select Set back temperature setting. Press **SET** button repeatedly to select Set back temperature ( **TEMP** ). The cooling set point icon flashes as illustrated below.
- Use **▲**/**▼** button to set cooling set point. After that, press **▲**/**▼** button to move to set heating set point. Using **▲**/**▼** button, you can also set heating set point.
- Press **SET** button to complete the setting process.
- Press **ESC** button to exit.  
After setup, it automatically exits after 60 seconds if there is no input. If the Setting/Cancel button is not pressed, the mode will not change.



## Function Setting - Filter Sign Clear

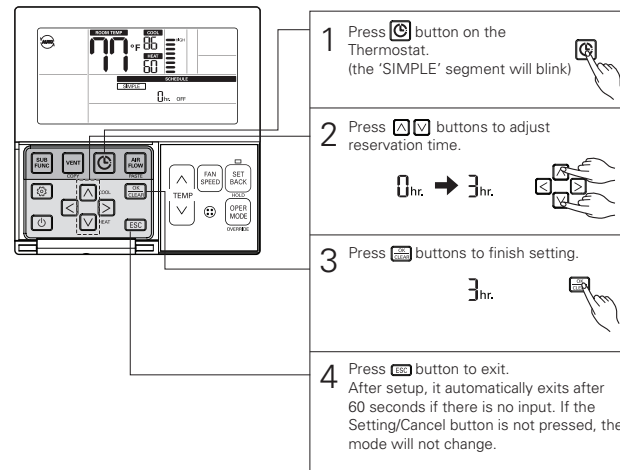
This function is to clear the indoor filter cleaning indicator.



- When the filter is covered by dust and debris, the indoor unit heating and cooling efficiency will be reduced and the unit will consume more energy. Cleaning the filter will prevent this loss of efficiency.
- \* The filter cleaning indication disappears automatically after a certain period of time, even without manually clearing the icon.

## Programming - Simple Reservation

A schedule can be set between 1 and 7 hours in 1 hour increments.



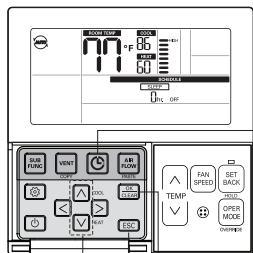
\* When simple timer is set up, product automatically runs or stops after the time that is set.



## Programming - Sleep Reservation

Sleep reservation is the function of air conditioners to run and stop after a certain period of time at sleep mode before sleep. Sleep reservation will slowly reduce or turn off your unit while you sleep based on the time that you set.

- When operating under the Auto operation mode, the sleep reservation cannot be made and any sleep reservation gets deactivated.



- 1 Press button to enter the programming mode.
- 2 Press the button to enter the SLEEP reservation setting mode.
- 3 Press buttons to adjust reservation time. The SLEEP reservation time is from 1 to 7 hours.  
1 hr. → 3 hr.
- 4 Press button to finish setting the reservation.
- 5 Press button to exit. After setup, it automatically exits after 60 seconds if there is no input. If the Setting/Cancel button is not pressed, the mode will not change. If reservation is set up, the sleep indication will show on the lower part of the LCD screen.
- 6 If finishing sleep reservation setup, air-conditioner product operates sleep drive and stops after the time that is set.

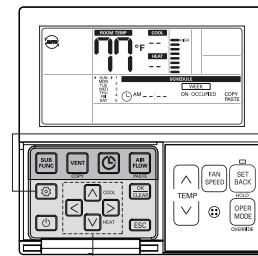
### CAUTION

Because the unit automatically adjusts the desired temperature for comfortable air cooling in sleep drive, there could be a difference between the Thermostat's desired temperature and the air conditioner body's desired temperature.

## Programming - Weekly Reservation

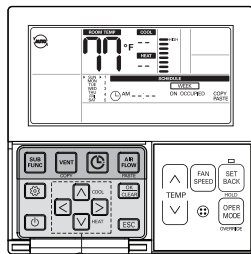
You can set individual daily schedules for the week.

- For correct operation of Weekly Reservation, please set current time correctly.

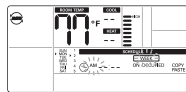


- 1 Press button to enter WEEK setting mode. "WEEK" will blink on the display.
- 2 Select desired day by pressing the buttons. The day icon will blink.
- 3 Enter timer number setting mode by pressing the button. The number icon will blink.
- 4 Select desired timer number to set by pressing the buttons.

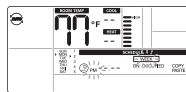




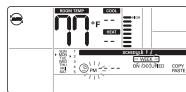
- 5 Enter AM/PM setting mode by pressing the button. AM or PM will blink on the display screen as pictured below.



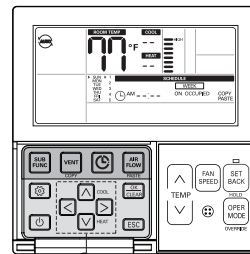
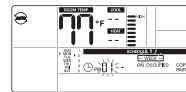
- 6 Select the AM or PM by pressing the button.



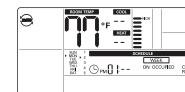
- 7 Enter hour setting mode by pressing the button. The hour icon will blink on the display screen as pictured below.



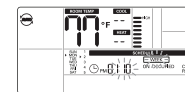
- 8 Select desired hour by pressing the buttons.



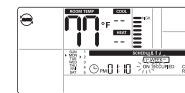
- 9 Enter minute setting mode by pressing the button. The minute icon will blink on the display screen as pictured below.



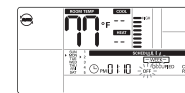
- 10 Select desired minute by pressing the buttons.

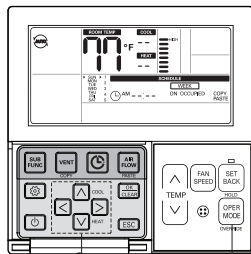


- 11 Enter ON/OFF setting mode by pressing the button. ON or OFF icon will blink on the display screen as pictured below.

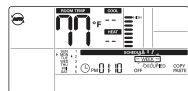


- 12 Select ON/OFF condition timer by pressing the button.

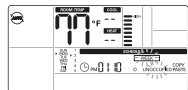




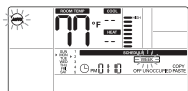
13 Enter OCCUPIED/UNOCCUPIED setting mode by pressing the button. OCCUPIED or UNOCCUPIED icon will flash as pictured below.



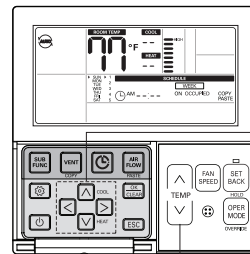
14 Select OCCUPIED/UNOCCUPIED condition of timer by pressing the buttons.



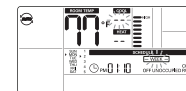
15 Enter operation mode setting mode by pressing the button. Operation mode icon will flash on the display screen as pictured below.



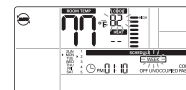
16 Select desired operation mode by pressing the button.



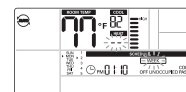
17 Enter Cooling set point setting mode by pressing the button and the button. Cooling set point icon will flash on the display screen.



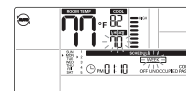
18 Select desired cooling set point by pressing the buttons.

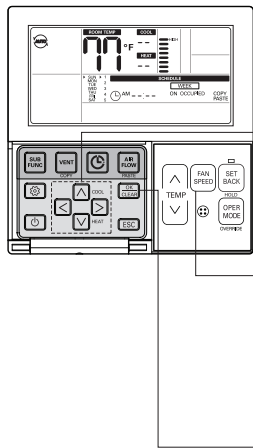


19 Enter Heating set point setting mode by pressing the button. Heating set point icon will flash on the display screen.

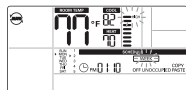


20 Select desired heating set point by pressing the button.

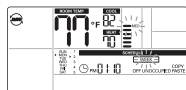




**21** Enter fan speed setting mode by pressing the button. Fan speed icon will flash as pictured below.

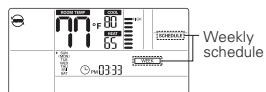


**22** Select desired fan speed by pressing the button.



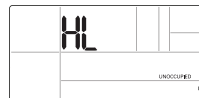
**23** If finishing weekly reservation setup, please press the button. Weekly reservation setup for the day that you set is finished.

**24** If you setup with the method identical with above by selecting the day that you'd like to setup, it operates weekly reservation.



This side bar indicates which days have weekly reservations already set.

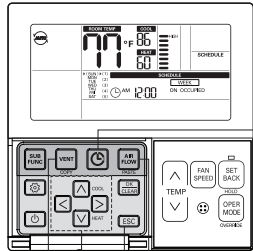
- You cannot change operate mode, fan speed, setting temperature when in Unoccupied. - Display 'Unoccupied Lock' in the window.











## Programming - Weekly Reservation Schedule Copy/Paste

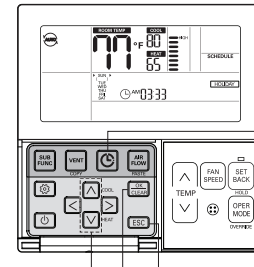
You can copy weekly timer schedule data to another day.




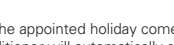


- 1 Press button to enter Week setting mode.  

- 2 Select desired day by pressing the buttons. The day icon will blink.  

- 3 Press and hold button for 3 seconds to copy the schedule of the selected day. Copy icon will flash.  

- 4 Select desired day by pressing the buttons. The day icon will blink.  

- 5 Press and hold button for 3 seconds to paste the schedule from the selected day. Paste icon will flash.  

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


## Programming - Holiday Reservation

You can set a holiday schedule.



- 1 Press button to enter Holiday setting mode.  

- 2 Select desired day by pressing the buttons. The day icon will blink.  

- 3 Press the button to set a day as a holiday. When the holiday is set, the day of the week will disappear from the side bar.  

- 4 Press the button to finish the holiday setup. When the appointed holiday comes, the air conditioner will automatically stop. If the unit is turned on during the set holiday, it will run for one hour and then automatically turn off.  


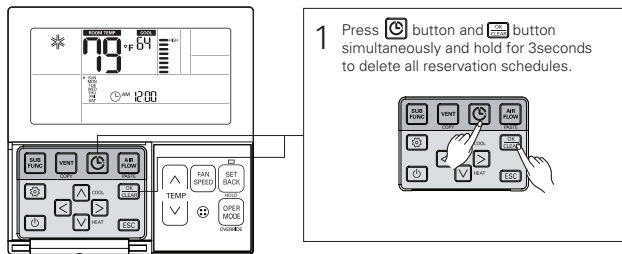




## Programming - Delete All Reservation

You can delete all reservation schedules.

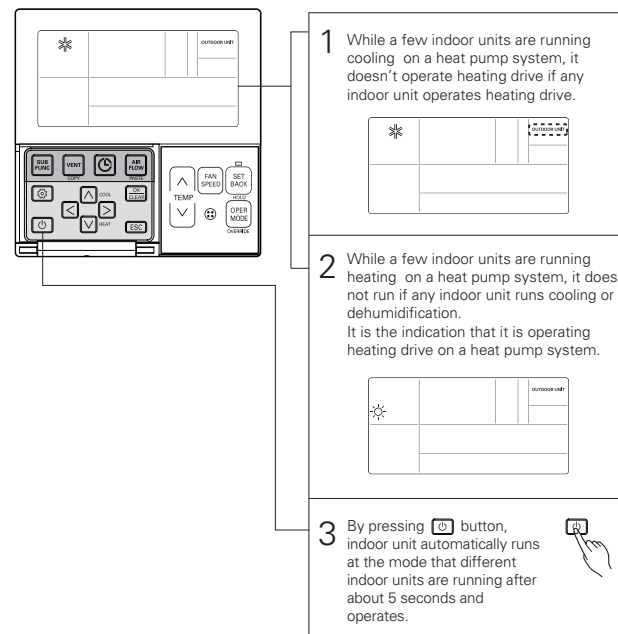
- Simple, sleep, weekly, and holiday reservations.



## Different mode drive (This is not a US feature.)

Different mode drive is a phenomenon taking place when indoor units' drive mode is different in the case that a few indoor units are set up at one AHU.

Note: Different mode drive is not available for cooling-only models





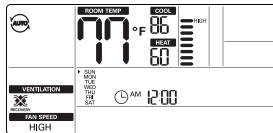
## Ventilation Product - Interlocked Air conditioner and Ventilator

- Control using Thermostat where air conditioner indoor unit and the ventilation product is installed at the same time.
  - When the power is turned on, your thermostat will recognize the ventilation product(it could take about 30 seconds) and then resume normal operation.

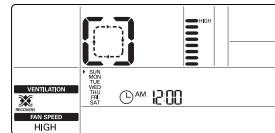
	Single Operation (General Ventilation Single Operation)	Interlocked Operation (General Ventilation Interlocked Operation)
General Ventilation	<p>General Ventilation Thermostat</p>	<p>Air conditioner Indoor unit General Ventilation Thermostat</p>

\* Connecting wires is the same as air conditioner user manual.  
(Refer to page about Group control)

- Press 'Ventilation' button on the Thermostat and enter Ventilation control mode to check the operation of ventilation product.



[Air conditioner control mode]



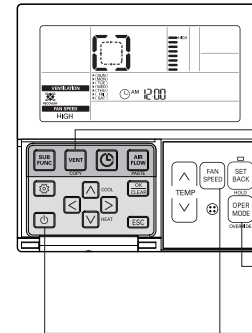
[Ventilation control mode]

- To convert back to air conditioner mode, press the 'Ventilation' button when in ventilation mode.
  - If no button is pressed for 15 seconds or more in ventilation mode, it automatically converts back to air conditioner mode.
  - Ventilation product represent general ventilation product and direct expansion ventilation product.

## Ventilation Product - Interlocked Operation with General Ventilator

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

This function allows air conditioning and fresh air using the ventilation product at the same time.



- ### Ventilation interlinked operation
- Press **VENT** button on the Thermostat control panel.  
- It is only used when air conditioner and general ventilation is interlocked.
  - Pressing **CO** button at ventilation mode will start ventilation.
  - Pressing **OPER MODE** button will change the ventilation operation mode. Pressing operation selection button will change the mode in the order of 'Recovery → Bypass → Auto'  
\* It only displays on the Thermostat display when it is in ventilation mode, and it displays the desired temperature when it returns to air condition mode.
  - Pressing **FAN SPEED** button in general ventilation mode will change airflow speed. Pressing fan speed button will change the mode in the order of 'Low → High → Power'.  
If CO<sub>2</sub> sensor is installed, it can select from 'Low → High → Power → Automatic'.
  - Changing back to air conditioner mode  
1) Automatic Conversion : when no button is pressed for 15 seconds or longer, it automatically converts back to air conditioner mode.  
2) Manual Conversion : Pressing **VENT** button in ventilation mode will manually convert.

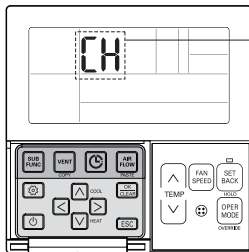




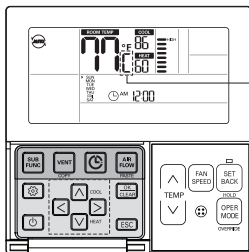
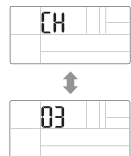


## Troubleshooting Mode Self Diagnosis

The unit will automatically diagnose itself for any problems it experiences. It displays an error code for Troubleshooting and repair.



When an error occurs, the phrase "CH" and an error code number are displayed on the screen alternately as below.  
Example: When Error code 03 occurs.



When an error occurs while operating under the group control mode, the phrase "CH" and an error code are displayed on the screen to the right of the indoor temperature value alternately as below.  
Example: When Error code 03 occurs,  
C → H → 0 → 3



- When recovery takes place after occurrence of an error, controller operation mode may change because of communication with indoor unit. Make sure you set the correct operation mode after adjusting vane angle settings.
- Since the setting of the Thermostat (with cable) can be altered after its recovery from occurrence of a group control error, reset is recommended.

## Checkups Before Reporting Breakdown

Please first check the items below for troubleshooting before consulting a service center.

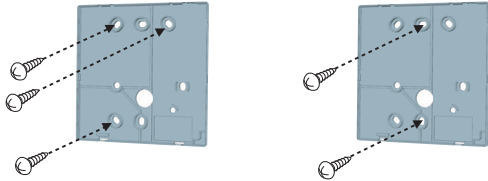
Symptoms	Check-up	Management
<b>Abnormal operating conditions.</b>	• Is air-conditioner's power on?	<ul style="list-style-type: none"> <li>• Please check the circuit breaker.</li> <li>• Please check the Thermostat wire setup condition.</li> </ul>
	• Are air-conditioner and Thermostat properly connected with cable?	• Please connect air-conditioner and Thermostat cable.
	• Is cable connection correct?	• Please check against the setup method listed in the manual.
<b>It doesn't operate schedule.</b>	• Is the time set correctly?	• Please set up current time correctly.
	• Did you set up a schedule correctly?	• Please set up again referring to the manual.
<b>It does not release cool air.</b>	• Is desired temperature setup lower than current temperature?	• Please set up desired temperature lower than current temperature.
<b>Air-conditioner automatically runs or stops.</b>	• Is a reservation set on your unit?	• Please set up "Weekly timer" again referring to the manual.
<b>Error is indicated on Thermostat indication window.</b>	• Does Thermostat indication window indicate 'CH03'?	<ul style="list-style-type: none"> <li>• Please check the remote control's wire setup.</li> <li>• Please check the connection between the air-conditioner and the Thermostat cable.</li> </ul>





## INSTALLATION METHOD

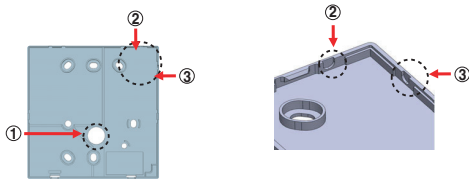
- 1 Fix the backplate to the wall where you want to place it by fixing it to the wall with the provided screws.
- Be sure not to bend the backplate while attaching it to the wall. A bent backplate may affect the proper setup for the thermostat.
  - Install product secure to the wall or electrical box to prevent gaps between the back plate and thermostat.



- 2 The Thermostat cable can be set in one of three positions.
- Setup directions: back, top, or right
  - Remove the cable guide groove if installing for top or right side cable connection.

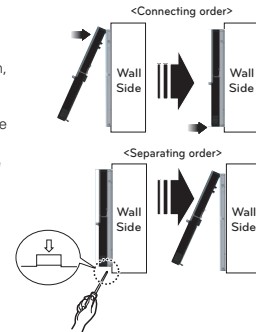
※ Remove guide groove with long nose pliers.

- ① Back through the wall
- ② Top guide groove
- ③ Right side guide groove



<Wire guide grooves>

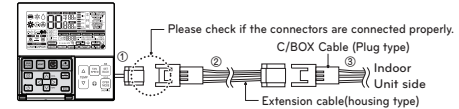
- 3 Fix the upper part of the Thermostat into the backplate attached to the surface of the wall, as pictured, and then connect with backplate by pressing lower part.
- Please make sure to leave no gaps on the top, bottom, left, or right sides between the Thermostat and backplate.
  - Before assembly with the backplate, arrange the Cable not to interfere with circuit parts.
- Remove Thermostat by inserting a screwdriver into the lower separating holes and twisting to release the controller from backplate.
- There are two separating holes. Please separate one at a time.
  - Please be careful not to damage the inside components when separating.



- 4 Please refer to the following directions when connecting the indoor unit and the Thermostat together.

- 1) Please connect the cables as shown in the figure below when connecting the plug type cable from the indoor unit's C/BOX and the housing type of the extension cable.

Signal	Yellow
12V	Red
GND	Black



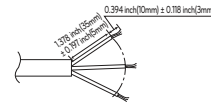
※ ①, AWG#24 / ②, ③ : AWG#22

### ! CAUTION

- Specification of LG supplied extension cable : AWG 24, 3 conductor or above. (Model : PZCWR1)
- Apply enclosed noncombustible conduit(metal raceway) totally or use FT-6 rated cable or above level in case of local electric & building code that requires plenum(CMP) cable usage.

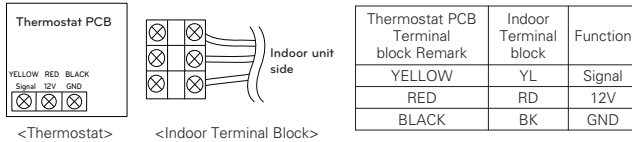
- 2) When connecting Terminal Blocks of the indoor C/BOX and the Thermostat with the extension cable, refer to the steps below.

- ① Remove the screw on the cable which is fastened to the Thermostat's Terminal Block by loosening with a screw driver.
- ② Remove the housing of the provided 32ft extension cable with a cutting nipper and peel it as shown in the figure below. (when purchasing the extension cable at the site directly, please peel it as shown in the figure below.)





- ③ Make sure each wire is securely fastened under each screw terminal and the wires are not in contact with each other.
- ④ Please connect the Terminal blocks of indoor unit's C/BOX and wired remote controller by referring to the images and contents shown below.  
Connect the yellow(signal) part of the Thermostat's terminal block and the 'YL' part of the indoor unit's terminal block.  
Connect the red(12V) part of the Thermostat's terminal block and the 'RD' part of the indoor unit's terminal block.  
Connect the black(GND) part of the Thermostat's terminal block and the 'BK' part of the indoor unit's terminal block.



- ※ The thermostat may not function properly if the screws come loose or have insufficient contact between the terminal and the wire.
- ※ When the power is off on the Thermostat, check the connection between the Thermostat and Terminal Block.
- ※ Use an appropriate screwdriver for tightening the terminal screws. A screwdriver with a small head will strip the head and make proper tightening impossible.
- ※ Over-tightening the terminal screws may break wires and terminal block structure.

#### CAUTION

- Installation work must be performed in accordance with the national wiring standards and local code by authorized personnel only.
- Apply enclosed noncombustible conduit(metal raceway) totally or use cable above FT-6 level in case of local electric & building code that requires plenum plenum(CMP)cable usage.
- AWG 22, 2 conductor, 1 Shield is recommended when using the large hole in the center of the backplate.
- AWG 24, 2 conductor, 1 Shield is recommended when using the side or top knock-out of the backplate.

- 5 Please use an extension cable if the distance between the Thermostat and the indoor unit is longer than 32ft (10m).

#### CAUTION

When installing the Thermostat, do not bury it in the wall.  
(It can cause damage in the temperature sensor.)  
Do not install the cable to be 164ft (50m) or longer. (It can cause communication error.)

## Thermostat installation

Since the room temperature sensor is in the Thermostat, the Thermostat box should be installed in a place away from direct sunlight, high humidity, and direct supply of cold air to maintain proper space temperature. Install the Thermostat about 5ft(1.5m) above the floor in an area with good air circulation at an average temperature.

### Do not install the Thermostat where it can be affected by:

- Drafts, or dead spots behind doors and in corners.
- Hot or cold air from ducts.
- Radiant heat from sun or appliances.
- Concealed pipes and chimneys.
- Uncontrolled areas such as an outside wall behind the Thermostat.
- This Thermostat is equipped with an LCD display. For proper display of the Thermostat LCD's, the Thermostat should be installed properly as shown in Figure 1.  
(The standard height is 4-5 ft (1.2~1.5 m) from floor level.)

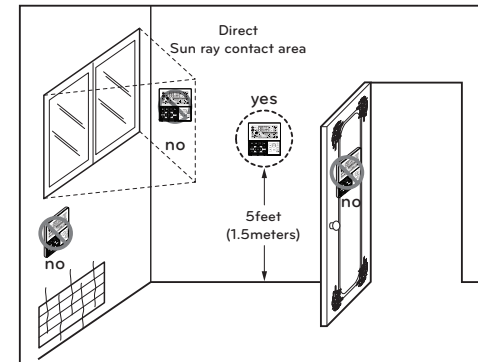


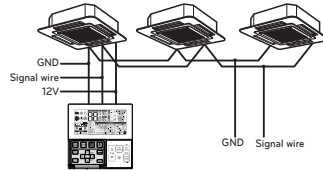
Figure 1





## GROUP CONTROL

- When installing more than 2 units of air conditioner to one Thermostat, please connect as pictured to the right.
  - Set one indoor unit to master and the remaining to slave.



When controlling multiple indoor units with one Thermostat, you must change the master/slave setting from the indoor unit.

- Once DIP S/W is set, recycle power. When recycling power, please remain in OFF position for at least 1 minute for new settings to take effect.
- For ceiling type cassette and duct product group, change the switch setting of the indoor PCB.



#3 switch OFF: Master  
(Factory default setting)



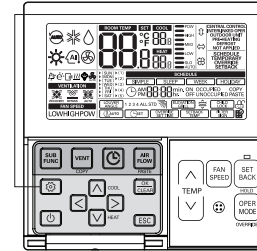
#3 switch ON: Slave

- For wall-mount type and stand type product, change the master/slave setting with the wireless Thermostat. (Refer to wireless Thermostat manual for detail)

When controlling the group, some advanced functions (excluding basic operation setting, fan level Low, med, high, Thermostat lock setting and time setting) may be limited.

## INSTALLATION INSTRUCTIONS

### Installer Setting - How to enter installer setting mode



- Press and hold the button for 3 seconds to enter the Thermostat installer setup mode.
  - If it is not held for 3 second, it enters into user setup mode instead.
- When you enter the setting mode initially, Function code is displayed on the bottom of the LCD screen.

0 1 0 1  
Function Code Value

- Some categories of the menu may not be displayed according to the function of the product, or the menu name may be different.

#### CAUTION

Installer setting mode is to set the detailed function of the Thermostat. If the installer setting mode is not set correctly, it can cause problems to the product, user injury or property damage. This must be set by a certified installer. Any non-certified personnel attempting to install or make changes shall be responsible for any adverse effects or operation.





## &lt;Installer Setting Code Table&gt;

## 1) General air-conditioner product

Code No.	Function Name	Value	Description
1	Test Run	00 : Normal Operation (Default) 01 : Initiate cooling test mode 02 : Initiate heating test mode	Initiate IDU test mode.
2	Address Setting	02 : XX: central control address number (00-FF)	Assign a unique hexadecimal address when used with central controller.
3	E.S.P. Adjustment by air flow setting	(select fan speed) 01 : Slow 02 : Low 03 : middle 04 : high 05 : power  <div style="text-align: center;"> </div> <Example> 0301 155 Function Code Fan Speed ESP value e.s.p value : 000-255	Air flow setting per engineering manual. Please refer to engineering manual for specific product data. *000* is the number displayed for factory settings. If FC3 value(s) are changed from default setting (000) then FC5, FC6 & FC32 values will not be used. Only selected products have five speeds.
4	Room Temperature Sensor Location	01 : Use wired remote controller sensor (Default) 02 : Use indoor unit return sensor 03 : 2TH sensor - cooling : higher sensor value is used - heating : lower sensor value is used	Select the thermistor value that will be used to control room temp.
5	Ceiling Height	(ceiling height) 01 : low 02 : standard (Default) 03 : high 04 : very high	Simplified air volume setting for Cassette and Console product. Select the value that corresponds to the ceiling height the product is installed at.
6	Static Pressure	Zone state - E.S.P standard value 01 : Variable-High 02 : Fixed-High 03 : Variable-Low 04 : Fixed-Low	Simplified air volume setting for Ducted product. Select the value that corresponds to the type of duct system attached to the product.
8	HP Mode M/S Setting	00 : Slave unit (Default) 01 : Master unit	This function is available for use with MV HP system. One IDU is selected as a master and will communicate it's mode to the other slave IDUs. The slave IDUs will prohibit/gray out opposite mode selection.
9	Dry Contact	00(Default) : - Input Closed = Enable Remote - Input Open = Stop IDU and Disable Remote 01 : - Input Closed = Start IDU and Enable Remote - Input Open = Stop IDU and Disable Remote	This function is available for use with simple Dry contact.
12	Celsius / Fahrenheit Switching	00 : Celsius 01 : Fahrenheit.(Default)	Celsius or Fahrenheit.
17	Celsius temperature unit	00 : Celsius 1°C control (Default) 01 : Celsius 0.5°C control	Temperature resolution
18	Emergency Heater Setting	[value 1] 18:00 : disable emergency heater (Default) 18:01 : enable emergency heater [value 2] 0 : disable emergency heater in low Ambient temperature 1-15 : enable emergency heater at low Ambient temperature 01 : -10F, 02 : -5F, 03 : 0F, 04 : 5F, 05 : 10F 06 : 15F, 07 : 20F, 08 : 25F, 09 : 30F, 10 : 35F 11 : 40F, 12 : 45F, 13 : 50F, 14 : 55F, 15 : 60F [value 3] 0 : Fan is off regardless of emergency heater thermal on 1 : Fan runs with emergency heater thermal on (fan is off when heater is off)	Setting value 1 enables auxiliary heater to be used when ODU has an error code. Setting value 2 enables ODU to be locked out based on selected outside temperature and enables auxiliary heater to be used. Setting value 3 determines fan operation during thermal on with auxiliary heater.

Code No.	Function Name	Value	Description
19	Function setting in group control	00 : Disable extended functions (Default) 01 : Enable extended functions	Standard function : On/Off, Mode, Air flow (Low/Mid/High), Set point, Schedule Extended function: Air angle control(ALL), Swirl, Air up/down, Air Right/Left, Energy saving cooling, Fan Auto
20	Plasma purification	00 : Disable 01 : Enable (Default)	Enable/Disable Plasma purification
21	Auxiliary Heat Control	00 : Manual Heat control Disabled 01 : Manual Heat control Enabled (Default)	This setting allows user to enable/disable the Auxiliary heat in subfunction menu.
22	Humidifier	00 : Not installed 01 : Installed (Default)	Reserved for other markets. (DX Ventilation and Single package have this function)
23	Elevation Grill	00 : Not installed 01 : Installed (Default)	This function must be enabled to use elevation grill.
24	Ventilation Kit	00 : Not installed 01 : Installed (Default)	This function must be enabled to use ventilation kit.
25	External Auxiliary Heat Kit	25:00 : Not installed 25:01 : Installed (Default)	This function must be enabled to use external auxiliary heat kit.
26	Check indoor unit Address Number	26:XX(assigned address)	Display ODU assigned IDU address.
29	Use Refrigerant leakage Sensor	00 : Not installed (Default) 01 : Installed	Enable this function after installing External Refrigerant Leakage detection device.
30	SW version	Display remote SW version	Remote SW version
31	Setting temperature range	00 : 16~30°C(60~86°F) (Default) 01 : 4~37.5°C(40~99°F)	For use with supported products that utilize an extended set point range
32	Static Pressure Step	00 : use static pressure (code 06) set value (Default) 01~11 : static pressure step (code 32) set value	If FC3 value(s) are changed from their default settings (000) then FC32 values will not be used. Extended simplified air volume setting for Ducted product.
33	Guard timer	00 : 0 minute 01 : 15 minutes (Default) 02 : 30 minutes 03 : 45 minutes 04 : 60 minutes	Minimum time that must elapse before system can change to opposite mode. (example: change from heat to cool mode)
34	Set point range Lock	00 : Disable (Default) 01 : Enable	limits the heating and cooling setpoint range that the user can select. For more detail information see the following instruction
35	Cooling thermal off fan operation	00 : Fan Low (Default) 01 : Fan OFF 02 : Previous fan setting	set the fan speed operation during cooling thermal off
36	primary heater control	00 : HP first stage heat (Default) 01 : HP last stage heat	Installer to select heat pump to operate as first or last stage of heat with use of external heat kit.
37	Hold enable/Disable	00 : Hold disable (Default) 01 : Hold enable	Prevent or allow user to select hold function.
38	Air conditioner fan operation interlocked with ventilation	00 : Fan Low(Default) 01 : Fan OFF	If Cassette has a ventilation kit installed then it is desirable to limit air from flowing through the air filter in a direction opposite of design flow.
39	IDU auto start setting	00 : Enable auto restart (Default) 01 : Disable auto restart	Installer to select if IDU should be on or off after power is restored to IDU.
40	Occupy sensor /occupy maintain time setting	00 : 0 minutes (Default) 01 : 10 minutes 02 : 30 minutes 03 : 60 minutes	Time that IDU is on after transition to occupied mode.





## 68 INSTALLATION INSTRUCTIONS

Code No.	Function Name	Value	Description
41	Simple dry contact setting (CN_CC connection)	00 : Not installed (Default) 01 : Disable the function. 02 : Enable Simple Dry Contact function 03 : Enable Simple Dry contact function with CN_EXT port	Configure use of Onboard Dry contact input, 'Simple Dry contact function : On/Off without lock'
46	Setting the fan continuous	00 : Not used 01 : Fan continuous used	It is the function to set the continuous operation of the indoor fan. Even if the room air temperature reaches the set point through the indoor unit operation it is the ability to keep set fan speed longer than does not setting.
47	Outdoor unit Function setting master/slave	00 : Outdoor unit Function slave 01 : Outdoor unit Function master	This function make connected indoor unit as a master indoor unit that can set functions related to outdoor unit operation. Outdoor unit accepts for only one indoor unit that can set functions related to outdoor unit operation.
48	Function of indoor unit silent mode	00 : Not used 01 : silent mode low 02 : silent mode high	It is the function to reduce the refrigerant noise occurred at the initial stage of the operation of the indoor unit at the heating mode.
49	Setting the outdoor unit defrost mode	00 : Not used 01 : Forced remove piled snow mode 02 : Fast defrost mode 03 : Forced remove piled snow and Fast defrost mode	It is the function to select the defrost or snow remove function of the outdoor unit.
51	Setting temperature-based fan speed 'auto'	00 : not used 01 : Use temperature-based fan speed 'auto'	Temperature-based fan speed 'auto' function is the function to change the fan speed according to the difference between the room temperature and the set point.
52	CN_EXT Setting	00 : Use installer code No. 41 setting value (simple dry contact setting value) 01 : simple operation on/off 02 : simple dry contact 03 : indoor unit single emergency stop 04 : occupied / unoccupied 05 : indoor unit all emergency stop ※ It can be set only when there is indoor unit emergency stop function.	It is the function to set a purpose of digital input port(CN_EXT) of indoor unit PCB.
56	Outdoor unit cycle priority	<Select Mode> 00 : Not use 01 : Standby 02 : Cool < Step > [Not use, Standby] None [Cool] 0-5 Step	It is the function to clear the limit and set the operation mode when it is cleared, to be able to select the operation mode opposite to the operation mode of the outdoor unit currently in operation while the connected product is in Slave mode.
57	Outdoor temperature for heating stages	<Select Mode> 01 : Use/Not use 02 : T1 03 : ΔT <Setting range> [Use/Not use] None [T1 setting range] -23~16°C (-10~60°F) [ΔT setting range] 0~35°C (0~70°F)	It is a function that sets outdoor temperature values for two stage heating. If user set outdoor temperature T1 and ΔT, indoor unit will select heating stage between indoor unit operation and heater operation.

※ Some contents may not be displayed depending on the product function.

## INSTALLATION INSTRUCTIONS 69

## 2) General Ventilation product

Code	Function	Value
01	Test Run	01 : Test Run Setup
02	Address Setting	00~FF : Address of Central Control
03	SA(Supply Air) ESP	
04	EA(Exhaust Air) ESP	<ESP Step>                      <ESP Value> 01 : Low                              0 ~ 255 02 : High 03 : Very High <div style="text-align: right; margin-top: 10px;">             &lt;Example&gt;              0301    55              ↓        ↓        ↓              Function Code   ESP step   ESP value           </div>
05	Product Direction	01 : Normal 02 : Opposite
09	Dry Contact	00 : Auto-Off 01 : Auto-On
11	Zone State	01 : Variable 02 : Fixed
13	Humidification for Singular Ventilation	00 : Not in Use 01 : Use
14	Humidification for Heat Mode Ventilation	00 : Automatic 01 : Manual

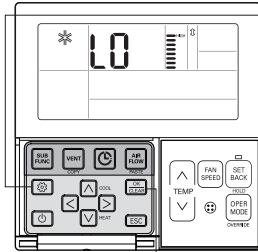
※ Some contents may not be displayed depending on the product function.





## Installer Setting - Test Run Mode

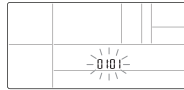
After installing the product, you must run a Test Run mode.  
For details related to this operation, refer to the product manual.



- 1 If pressing **ESC** button long for 3 seconds, it enters into Thermostat installer setup mode.
  - If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.
  - Please cancel the right and left of wind direction for RAC product.

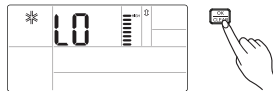
0101  
↓   ↓  
Function Code   Set

- 2 Setup figure '01' blinks at the lower part of indication window.



You can select test heating operation mode for some products.  
Some models have Heating test run mode.  
In that case, Select test run mode by pressing **▲** **▼** button.  
01: cooling  
02: heating

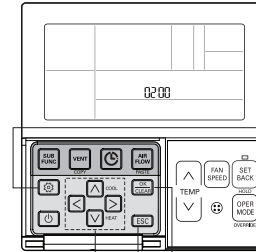
- 3 Press **ESC** button to start.



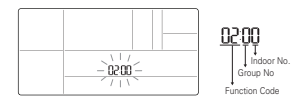
- 4 During the test run, pressing the below button will exit the test run.
  - Select operation mode, temperature up/down, fan speed, wind direction, start/stop button.

## Installer Setting - Setting Address of Central Control

After installing the product, you must run a Test Run mode.  
For details related to this operation, refer to the product manual.



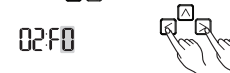
- 1 Press the **ESC** button for 3 seconds to enter the Thermostat installer setter setup mode.
  - If pressed for a shorter time, it enters into user setup mode.



- 3 Set Group No. by pressing **▲** **▼** buttons.(0~F)



- 4 Move to Indoor No. setting option by pressing **▲** **▼** buttons.



- 5 Set Indoor No. by pressing **▲** **▼** buttons.



- 6 Press **ESC** button to save.



- 7 Pressing **ESC** button will exit settings mode. After setup, it automatically exits after 25 seconds if there is no input. If the Setting/Cancel button is not pressed, the mode will not change.





## Installer Setting - E.S.P. Function

This function determines the fan speed strength setting for each level (low, med, high).

- If you set ESP incorrectly, the air conditioner may malfunction.
- This setting must be carried out by a certificated-technician.

Function code, ESP code

ESP value

- 1 Press the **SET** button for 3 seconds to enter Thermostat installer setup mode.  
- If pressed for a shorter time, it enters into user setup mode.
- 2 If entering into ESP setup mode by using **SET** button, it indicates as the picture below.
- 3 Select ESP fan step by pressing **▲▼** buttons. (01: very low, 02: low, 03: medium, 04: high, 05: very high)
- 4 Move to ESP value setting by pressing **▶** button.  
(000 is the factory default setting.)
- 5 Press **▲▼** buttons to setup ESP value.  
(It is possible to setup ESP value from 1 to 255, and 1 is the smallest and 255 is the largest!.)

- ESP settings vary between different product types.

Function code, ESP code

ESP value

- 6 Select ESP fan step again by using **▶◀** buttons and set up ESP values as No. 4 and 5 to correspond to each fan speed.
- 7 Press **SET** button to save.
- 8 Press **ESC** button to exit.  
After setup, it automatically exits after 25 seconds if there is no input. If the Setting/Cancel button is not pressed, the mode will not change.

- Please be careful when adjusting ESP values.
- It does not work to setup ESP value for weak/power step for some products.
- ESP value range is dependent on product.





### Installer Setting - Thermistor

This is a function to determine if you will use the indoor unit mounted sensor or the thermostat sensor.

- Press the **SET** button for 3 seconds to enter Thermostat installer setup mode.  
- If pressed for a shorter time, it enters into user setup mode.
- If moving to room temperature perception sensor selection menu by pressing **TEMP** button, it indicates as picture below.
- Set Thermistor value by pressing **▲** **▼** buttons. (01: Thermostat, 02: Indoor, 03: 2TH)
- Press **SAVE** button to save.
- Press **ESC** button to exit settings mode. After setup, it automatically exits after 25 seconds if there is no input. If the Setting/Cancel button is not pressed, the mode will not change.

<Thermistor Table>

Temperature sensor selection	Function	
01	Thermostat	Operate according to Thermostat temperature sensor
02	Indoor unit	Operate according to indoor unit temperature sensor
03	2TH	Operate according to higher temperature by comparing indoor unit's and Thermostat's temperature. (There are products that operate at a lower temperature.)
		Operate according to lower temperature by comparing indoor unit's and Thermostat's temperature.

※ The function of 2TH has different operation characteristics according to the product.

※ For the indoor temperature below 10 °F, it displays the value perceived by the sensor of the Thermostat regardless of the temperature sensor setting.

### Installer Setting - Ceiling Height Selection

This function is to adjust FAN Airflow rate according to ceiling height (For ceiling type product)

- Press the **SET** button for 3 seconds to enter Thermostat installer setup mode.  
- If pressed for a shorter time, it enters into user setup mode.
- If moving to ceiling height selection menu through **TEMP** button, it indicates as pictured below.
- Select ceiling height value by pressing **▲** **▼** buttons. (01:Low, 02:Medium, 03:High, 04:Very high)
- Press **SAVE** button to save.
- Press **ESC** button to exit settings mode. After setup, it automatically exits after 25 seconds if there is no input. If the Setting/Cancel button is not pressed, the mode will not change.

<Ceiling Height Selection Table>

Ceiling Height Level	Description	
01	Low	Decrease the indoor airflow rate 1 step from standard level
02	Medium	Set the indoor airflow rate as standard level
03	High	Increase indoor airflow rate 1 step from standard level
04	Very high	Increase indoor airflow rate 2 steps from standard level

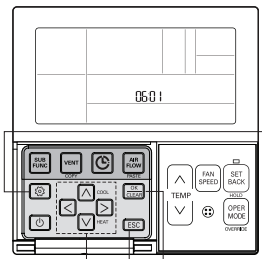
- Ceiling height setting is only available for some products.
- Ceiling height of 'Very high' function may not exist depending on the indoor unit.
- Refer to the product manual for more details.





### Installer Setting - Static Pressure Setting

This function is applied to only duct type. Setting this in other cases will cause malfunction.



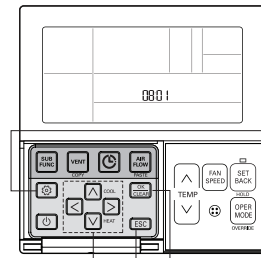
- 1 Press the **SET** button for 3 seconds to enter the Thermostat installer setting.  
- If pressed for a shorter time, it enters into user setup mode.
- 2 If pressing **SET** button repeatedly, it moves to static pressure selection menu as picture below.
- 3 Select static pressure by pressing **▲** **▼** buttons.  
(01:V-H, 02:F-H, 03:V-L, 04:F-L)
- 4 Press **SAVE** button to save.
- 5 Press **ESC** button to exit settings mode. After setup, it automatically exits after 25 seconds if there is no input. If the Setting/Cancel button is not pressed, the mode will not change.

<Static Pressure Setting Table>

Pressure selection	Function		
	Zone state		ESP standard value
01	V-H	Variable	High
02	F-H	Fixed	High
03	V-L	Variable	Low
04	F-L	Fixed	Low

### Installer Setting - Override Master/Slave Setting

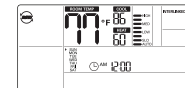
Since Multi V II, the override master/slave function is to prevent product's different mode operation. If it is setup as the slave, any changes to run in the opposite mode from the outdoor unit are blocked.)



- 1 Press the **SET** button for 3 seconds to enter the Thermostat installer setting.  
- If pressed for a shorter time, it enters into user setup mode.
- 2 Press the **SET** button repeatedly to move to override master/slave selection menu as pictured below.
- 3 Select Master/ Slave by pressing **▲** **▼** buttons.  
(00: Slave, 01 : Master)
- 4 Press **SAVE** button to save.
- 5 Press **ESC** button to exit setting mode. After setup, it automatically exits after 25 seconds if there is no input. If the Setting/Cancel button is not pressed, the mode will not change.

\* Override master/slave selection function is possible to use only when it is connected to the succeeding models of Multi V II series.

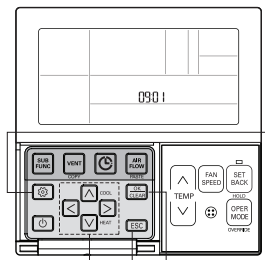
- If it is set as Override Slave, **INTERLINKED OPER** icon is displayed on LCD Display Window.





## Installer Setting - Dry Contact Mode Setting

Dry contact function is the function that is possible to use only when dry contact equipment is separately purchased/setup.



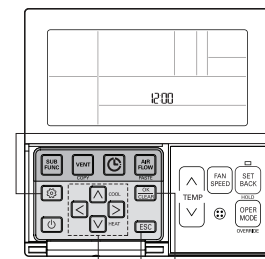
- Press the **SET** button for 3 seconds to enter the Thermostat installer setting.  
- If pressed for a shorter time, it enters into user setup mode.
- Press the **SET** button repeatedly to move to override master/slave selection menu as pictured below.
- Select Dry contact setting by pressing buttons.  
(00 : Manual, 01 : Automatic)
- Press **SET** button to save.
- Press **ESC** button to exit setting mode.  
After setup, it automatically exits after 25 seconds if there is no input. If the Setting/Cancel button is not pressed, the mode will not change.

► What is Dry Contact?  
Dry Contact is the signal of the point of contact when using air conditioner by interlocking.

• Please refer to dry contact manual for more details.

## Installer Setting - Fahrenheit / Celsius Switching

This function is used for switching the display between Celsius and Fahrenheit.



- Press the **SET** button for 3 seconds to enter the Thermostat installer setting.  
- If pressed for a shorter time, it enters into user setup mode.
- Press **SET** the button to select Function code 12.
- Select Temperature unit mode by pressing **▲▼** buttons.  
(00: Celsius, 01: Fahrenheit)
- Press **SET** button to save or release.
- Press **ESC** button to exit or system will automatically exit after 25 seconds without any input.

※ Whenever press **▲▼** button in Fahrenheit mode, the temperature will increase/drop degrees.





## Installer Setting - Emergency Heater Setting

This function is only available on some products.

This function will set the Emergency Heater Setting.

Emergency Heater is used to heat the space in emergency cases such as heat pump error. Emergency heat is in place of and does not supplement heat pump.

※ Emergency Heater setting Function sets following conditions:

- 1) Emergency Heater operation while in error or outdoor unit operating in the cooling cycle.
- 2) Emergency Heater operation in Low Outdoor Ambient temperature
- 3) Fan speed setting during Emergency Heater operation

**1** Press the button for 3 seconds to enter the Thermostat installer setting.  
- If pressed for a shorter time, it enters into user setup mode.

**2** Repeat pressing button to select Function code 18.

Function Code    Setting1: Heater Operation while in error or outdoor unit operating in the cooling cycle.

**3** Select mode of Heater Operation while in error by pressing button

00: not use  
01: use

※ If 00 is set at this stage, setting 2 & setting 3 will not be available

Setting2 : Low Outdoor Ambient Heating Operation

Setting1 : Heater Operation while in error or outdoor unit operating in the cooling cycle.

Setting3 : FAN Speed Setting during Emergency Heater Operation

### CAUTION

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

**4** Move to Low Outdoor Ambient Heating Operation setting by pressing button.

**5** Press buttons to setup Low Outdoor Ambient Heating Operation.

00: Not use  
01-03: compressor on/off Setting step  
01-15: compressor on/off Setting step(step expand indoor unit)

※ Emergency heater operation in Low Ambient temperature  
- compressor off : Emergency heater enabled  
- compressor on : Emergency heater disabled

**6** Move FAN Speed Setting during Emergency Heater Operation by pressing button.

**7** Press buttons to setup FAN Speed during Emergency Heater Operation.

0 : fan off  
1 : fan on

**8** Press button to save.

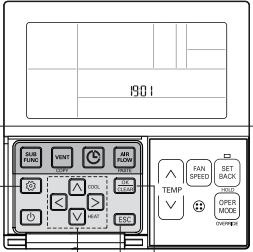
**9** Press button to exit or system will automatically exit after 25 seconds without any input.


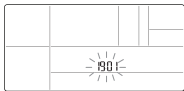






## Installer setting – Function setting in group control

It is the function to enable the control of common functions or some other functions by the indoor unit standard during the group control.



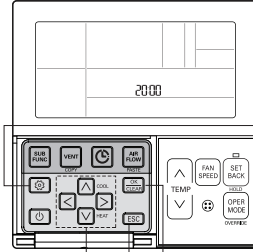
- 1 If pressing **[SET]** button long for 3 seconds, it enters into Thermostat installer setup mode.  
- If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure. 
- 2 Press the **[SET]** button to select the option function code as pictured below. 
- 3 Select 'Function setting in group control' setting by **[A]** **[V]** pressing button.   


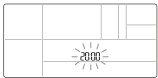
1901	↓	Function setting in group control
Function Code	↓	Function setting in group control


\* Function control setting values during group control  
00 : Common function  
01 : Common function,  
Some indoor unit master standard
- 4 Press **[SET]** button to save.   
1901
- 5 Pressing **[ESC]** button will exit settings mode.  
\* After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.  
\* When exiting without pressing set button, the manipulated value is not reflected.

## Installer Setting - Option Function Setting


Setting feature for indoor unit when plasma purification / auxiliary heat control / humidifier / elevation grill / ventilation kit / external auxiliary heat kit is newly installed, or installed unit is removed.



- 1 Press the **[SET]** button for 3 seconds to enter the Thermostat installer setting  
If pressed for a shorter time, it enters into user setup mode. 
- 2 Press the **[SET]** button to select the option function code as pictured below. 

Function	Code
Plasma purification	20
Auxiliary Heat Control	21
Humidifier	22
Elevation grill	23
Ventilation kit	24
External Auxiliary Heat kit	25
- 3 Select existing condition of each code by pressing **[A]** **[V]** buttons.   
(00: not installed, 01: installed)  

2001	↓	Existing condition
Function Code	↓	Existing condition

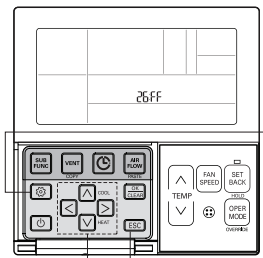
\* In case of indoor unit that has one more additional stage in the Aux heater setting.  
00: not installed  
01: installed - general  
02: installed - duct type
- 4 Press **[SET]** button to save. 
- 5 Press the **[ESC]** button to exit settings mode. After setup, it automatically exits after 25 seconds if there is no input. If the Setting/Cancel button is not pressed, the mode will not change.

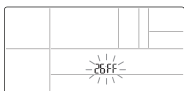





### Installer setting – Check indoor unit Address Number

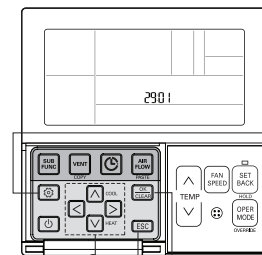
It is the function to verify the indoor unit address designated by the outdoor unit.

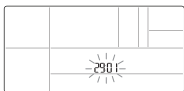




- 1 Press the **SET** button for 3 seconds to enter the Thermostat installer setting  
If pressed for a shorter time, it enters into user setup mode.
- 2 Press the **00** button to select the option function code as pictured below.  

- 3 Indoor unit Address Number' is displayed in the installer setting value display part.  

- 4 Press the **ESC** button to exit settings mode.  
After setup, it automatically exits after 25 seconds if there is no input. If the Setting/Cancel button is not pressed, the mode will not change.

### Installer setting – Use Refrigerant leakage Sensor

It is the function to set when the refrigerant leakage sensor is newly installed in the indoor unit or when the installed refrigerant leakage sensor is removed.



- 1 Press the **SET** button for 3 seconds to enter the Thermostat installer setting  
If pressed for a shorter time, it enters into user setup mode.
- 2 Press the **00** button to select the option function code as pictured below.  

- 3 Select Refrigerant leakage Sensor setting by **00** pressing buttons.  
(00: not-use , 01:use)  

- 4 Press **ESC** button to save.  

- 5 Press the **ESC** button to exit settings mode.  
After setup, it automatically exits after 25 seconds if there is no input. If the Setting/Cancel button is not pressed, the mode will not change.





## Installer Setting – Setting temperature range

This function is used to select the temperature range options.

- Press the **SET** button for 3 second to enter Thermostat installer setup mode.  
- If pressed for a shorter time, it enters into user setup mode.
- Press **06** button to select Function code 31.
- Select Temperature range by pressing **▲ ▼** buttons.  
00(option1):  
60~86 °F / 16~30 °C (default)  
01(option2):  
40~99 °F / 4~37.5 °C
- Press **ESC** button to save or release.  
When the set values are changed, the items below will be initialized.  
- Setting temperature (default: Cooling: 86 °F(30 °C)/ Heating: 60 °F(16 °C))  
- Set back temperature (default: Cooling: 86 °F(30 °C)/ Heating: 60 °F(16 °C))  
- Weekly Reservation
- Press **ESC** button to exit or system will automatically exit after 25 seconds without any input.

In case of the setting temperature range option2( 31:01), please note that the setting of the remote controller (with cable) 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 it is on the 2Set Mode, it is changed to the current operation mode(cooling or heating) of the indoor unit.

Situation where changes in the setting occur

- Operates the Auto address work and pipe search in situations such as product installment and service.
- Occurrence of errors and deactivation.
- Command generated by the central control, outdoor unit, Dry contact, Remote controller, indoor unit switch.

## Installer Setting - Static Pressure Step Setting

This function is applied to only duct type. Setting this in other cases will cause malfunction. This function is only available on some models. This is the function that static pressure of the product is divided in 11 steps for setting.

- If pressing **SET** button long for 3 seconds, it enters into Thermostat installer setup mode.  
- If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.
- If pressing **06** button repeatedly, it moves to static pressure selection menu as picture below.
- Select static pressure by pressing **▲ ▼** button.  
00: use static pressure (code 06) set value  
01~ 11: static pressure step (code 32) set value
- Press **ESC** button to save.
- Pressing **ESC** button will exit settings mode.  
\* After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.  
\* When exiting without pressing set button, the manipulated value is not reflected.

- Static Pressure (Code 06) setting will not be used if Static Pressure Step (Code 32) setting is being used.
- For the static pressure value for each step, refer to the indoor unit in the product manual.

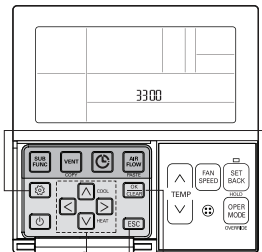


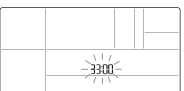



## Installer setting – Guard timer

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.

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



- 1 If pressing button long for 3 seconds, it enters into Guard timer installer setup mode.  
- If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.
- 2 If moving to rGuard timer by pressing button, it indicates as picture below.  

- 3 Set Thermistor value by pressing button.  
  
Function Code    Setting value  

value	Guard time
0	0 minute
1	15 minutes
2	30 minutes
3	45 minutes
4	60 minutes
- 4 Press button to save.  

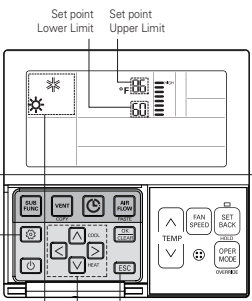
- 5 Pressing button will exit settings mode.  
\* After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.  
\* When exiting without pressing set button, the manipulated value is not reflected.

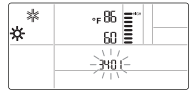


## Installer setting – Set point range Lock

It is a function that sets upper and lower bounds of the desired heating/cooling temperature controllable from wired remote control.

The desired temperature can be set only in the range of the desired temperature set when the desired temperature range locks.

But, the desired temperature value by central control unit or additional accessories reflects the desired temperature received beyond the range.



- 1 If pressing button long for 3 seconds, it enters into Set point range Lock installer setup mode.  
- If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.
- 2 If moving to operation in the cooling mode and thermal off conditions menu by pressing button, it indicates as picture below.  

- 3 Set point lock enable/disable by pressing button. (01: enable/00: disable)  
  
Function Code    enable/disable
- 4 Move to 'operation mode' setting by pressing button.  
 Select operation mode to set the range
- 5 Press button to setup to 'operation mode'.





- 6 Move to 'Upper limit set point' setting by pressing button.  
 °F **86** Set point Upper Limit  
**60**
- 7 Press button to setup Upper limit set point.  
 Setting temperature range
- 8 Move to 'Lower limit set point' setting by pressing button.  
 °F **86**  
**60** Set point Lower Limit
- 9 Press button to setup Lower limit set point.
- 10 Press button to save.
- 11 Pressing button will exit settings mode.  
 \* After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.  
 \* When exiting without pressing set button, the manipulated value is not reflected.

Indoor unit Control Method	Option (Installer code No.31)	Cooling Set point range	Heating Set point range
1set point	1 (31:00)	64~86 °F (18~30 °C)	60~86 °F (16~30 °C)
	2 (31:01)	64~99 °F (18~37.5 °C)	40~86 °F (4~30 °C)
2set point	-	50~99 °F (10~37.5 °C)	40~90 °F (4~32 °C)

### Installer setting - Fan operation in the cooling mode and thermal off conditions

It is a function that sets the indoor unit fan movement, in cooling mode, when thermal is off.

- 1 If pressing button long for 3 seconds, it enters into Cooling thermal off Fan operation installer setup mode.  
 - If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.
- 2 If moving to operation in the cooling mode and thermal off conditions menu by pressing button, it indicates as picture below.
- 3 Set operation in the cooling mode and thermal off conditions value by pressing button.  
 35.00  
 Function Code    Setting value  

value	Operation in the cooling mode and thermal off conditions
00	Fan speed Low
01	Fan off
02	Fan speed Setting value
- 4 Press button to save.   
**35.00**
- 5 Pressing button will exit settings mode.  
 \* After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.  
 \* When exiting without pressing set button, the manipulated value is not reflected.





### Installer setting – Primary Heater control setting

It is a function that sets the outdoor unit to operate with auxiliary heat source and the heater to run with main heat source in heating mode.

- 1 If pressing **[SET]** button long for 3 seconds, it enters into Use Primary Heater control installer setup mode.  
- If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.
- 2 If moving to Primary Heater control setting menu by pressing **[SET]** button, it indicates as picture below.
- 3 Set Primary Heater control setting value by pressing **[▲]****[▼]** button. (00: Cancel primary heater control  
01: use primary heater control)
- 4 Press **[SET]** button to save.
- 5 Pressing **[ESC]** button will exit settings mode.  
\* After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.  
\* When exiting without pressing set button, the manipulated value is not reflected.

### Installer setting – Hold Enable / Disable

It is a function that sets whether to use Hold mode.

- 1 If pressing **[SET]** button long for 3 seconds, it enters into Hold Enable / Disable installer setup mode.  
- If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.
- 2 If moving to Hold Enable / Disable menu by pressing **[SET]** button, it indicates as picture below.
- 3 Set Hold Enable / Disable value by pressing **[▲]****[▼]** button. (00: Hold Function disable,  
01: Hold Function enable)
- 4 Press **[SET]** button to save.
- 5 Pressing **[ESC]** button will exit settings mode.  
\* After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.  
\* When exiting without pressing set button, the manipulated value is not reflected.



### Installer setting – Air conditioner Fan operation interlocked with ventilation

It is a function that sets the availability of air conditioner FAN movement when only the ventilation is running while air conditioner is off, in case of interlock of the air conditioner operation with the ventilation operation.

- 1 If pressing button long for 3 seconds, it enters into Air conditioner Fan operation interlocked with ventilation installer setup mode.  
- If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.
- 2 If moving to Air conditioner Fan operation interlocked with ventilation setting menu by pressing button, it indicates as picture below.
- 3 Set Air conditioner Fan operation interlocked with ventilation setting value by pressing button. (00: air-conditioner fan operate very low, 01: air-conditioner fan off)  
Function Code    Setting value
- 4 Press button to save.
- 5 Pressing button will exit settings mode.  
\* After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.  
\* When exiting without pressing set button, the manipulated value is not reflected.

### Installer setting – 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.

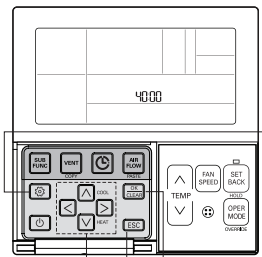
- 1 If pressing button long for 3 seconds, it enters into Indoor unit Auto-Start setting installer setup mode.  
- If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.
- 2 If moving to room Indoor unit Auto Start seeing selection menu by pressing button, it indicates as picture below.
- 3 Set Indoor unit Auto Start seeing value by pressing button. (00: Use indoor unit auto restart, 01: not use indoor unit auto restart)  
Function Code    Setting value
- 4 Press button to save.
- 5 Pressing button will exit settings mode.  
\* After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.  
\* When exiting without pressing set button, the manipulated value is not reflected.

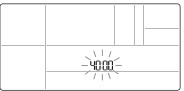





### Installer setting – Occupancy duration time setting

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

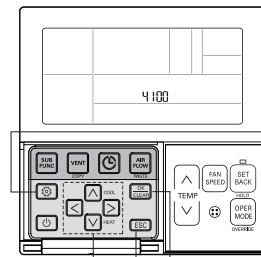


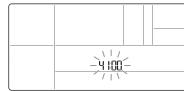
- 1 If pressing button long for 3 seconds, it enters into Occupy sensor 'occupy maintain' time setting installer setup mode.  
- If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.
- 2 If moving to occupancy duration time selection menu by pressing button, it indicates as picture below.  

- 3 Set occupancy duration time value by pressing button.  
Function Code    Setting value  


value	Occupancy duration time
00	0 minute
01	10 minutes
02	30 minutes
03	60 minutes
- 4 Press button to save.  

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

### Installer Setting – Setting for Simple Dry contact unit

This function is used when simple dry contact unit is additionally installed in the indoor unit or the installed simple dry contact unit is removed.



- 1 If pressing button long for 3 seconds, it enters into simple dry contact setting setup mode.  
- If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.
- 2 If moving to simple dry contact setting by pressing button, it indicates as picture below.  

- 3 Set simple dry contact setting value by pressing button.  
Function Code    Setting value  

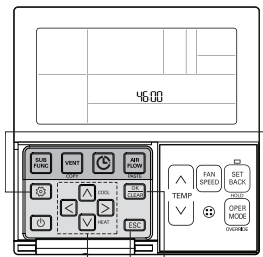
value	Setting
00	Default - Simple Dry contact Auto identification
01	Simple Dry contact : Not installed
02	Simple Dry contact : Installed
03	Use for digital input
- 4 Press button to save.  

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



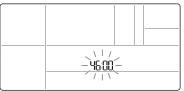









## Installer Setting – Setting Fan continuous

It is the function to set the continuous operation of the indoor fan.  
Even if the room air temperature reaches the desired temperature through the air conditioning operation it is the ability to run a set flow rate without reducing the air flow.

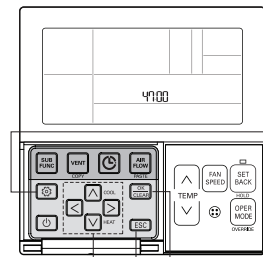




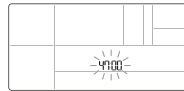


- 1 If  button is pressed so long for over 3 seconds, it enters to the installer setting mode.  
- If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.
- 2 If  button is pressed repeatedly, it is moved to Fan continuous setting menu as the picture below.  

- 3 Press  button and select the setting value per each function.  
  
Function Code    Setting value  




Value	Setting Fan continuous
00	Not used
01	Fan continuous used
- 4 Press  button to save.  

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

## Installer Setting – Outdoor unit Function setting master/slave

Outdoor Function master/slave selection is the function to prevent confusion of the operation of the outdoor unit by making to select only indoor unit set as master, among some part of the function.



- 1 If  button is pressed so long for over 3 seconds, it enters to the installer setting mode.  
- If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.
- 2 If  button is pressed repeatedly, it is moved to Outdoor unit Function setting master/slave menu as the picture below.  

- 3 Press  button and select the setting value per each function.  
  
Function Code    Setting value  

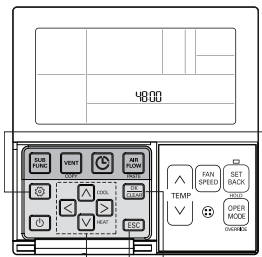
Value	Outdoor unit Function master/slave setting
00	Outdoor unit function slave
01	Outdoor unit function master
- 4 Press  button to save.  

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





### Installer Setting – Function of indoor unit silent mode

It is the function to reduce the refrigerant noise occurred at the initial stage of the operation of the indoor unit at the heating mode.

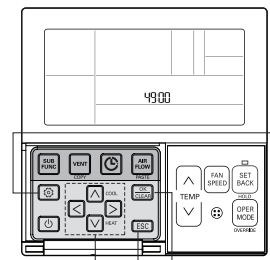


- 1 If **[SET]** button is pressed so long for over 3 seconds, it enters to the installer setting mode.  
- If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.
- 2 If **[SET]** button is pressed repeatedly, it is moved to indoor unit silent mode setting menu as the picture below.
- 3 Press **[▲]** **[▼]** button and select the setting value per each function.  

Function Code	Setting value
00	Not used
01	Noise reduction low
02	Noise reduction high
- 4 Press **[SET]** button to save.
- 5 Pressing **[ESC]** button will exit settings mode.  
 \* After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.  
 \* When exiting without pressing set button, the manipulated value is not reflected.

### Installer Setting – Setting the outdoor unit defrost mode

It is the function to select the defrost mode of the outdoor unit.



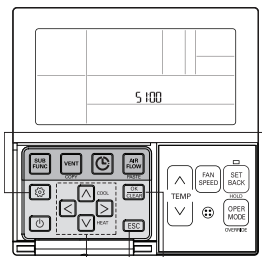
- 1 If **[SET]** button is pressed so long for over 3 seconds, it enters to the installer setting mode.  
- If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.
- 2 If **[SET]** button is pressed repeatedly, it is moved to Outdoor unit defrost mode setting menu as the picture below.
- 3 Press **[▲]** **[▼]** button and select the setting value per each function.  



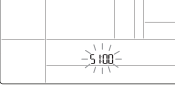


Function Code	Setting value
00	Not used
01	Forced remove piled snow mode
02	Fast defrost mode
03	Forced remove piled snow and Fast defrost mode
- 4 Press **[SET]** button to save.
- 5 Pressing **[ESC]** button will exit settings mode.  
 \* After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.  
 \* When exiting without pressing set button, the manipulated value is not reflected.






## Installer Setting – Setting temperature based fan speed 'auto'

It is the function to set use of the temperature-based fan speed 'auto' of the connected indoor unit.  
Temperature-based fan speed 'auto' function is the function to change the strength of the wind according to the difference between the room temperature and the desired temperature.

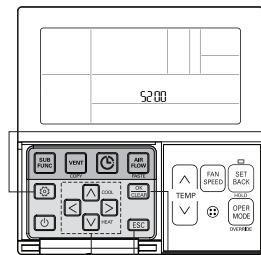




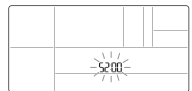

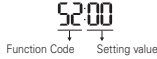
- If  button is pressed so long for over 3 seconds, it enters to the installer setting mode.  
- If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.
- If  button is pressed repeatedly, it is moved to temperature-based fan speed 'auto' function setting menu as the picture below.  

- Press  button and select the setting value per each function.  
  
Function Code    Setting value  




Value	Temperature-based fan speed 'auto'
00	Not used
01	Use temperature-based fan speed 'auto'
- Press  button to save.  

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

## Installer Setting – CN\_EXT Setting

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.)



- If  button is pressed so long for over 3 seconds, it enters to the installer setting mode.  
- If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.
- If  button is pressed repeatedly, it is moved to CN\_EXT setting menu as the picture below.  

- Press  button and select the setting value per each function.  
  
Function Code    Setting value  

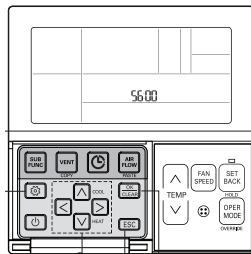
Value	CN_EXT Setting
00	Use installer code No. 41 setting value (simple dry contact setting value)
01	Simple operation on/off
02	Simple dry contact
03	Indoor unit single emergency stop
04	Occupied / unoccupied
05	Indoor unit all emergency stop * It can be set only when there is indoor unit emergency stop function.
- Press  button to save.  

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



### Installer Setting – Outdoor unit cycle priority

It is the function to clear the limit and set the operation mode when it is cleared, to be able to select the operation mode opposite to the operation mode of the outdoor unit currently in operation while the connected product is in Slave mode

※ When you set installer code 08:00 (operation slave), according to the operation status of the outdoor unit, cooling/heating mode selection is restricted.



- 1 If button is pressed so long for over 3 seconds, it enters to the installer setting mode.  
- If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.
- 2 If button is pressed repeatedly, it is moved to outdoor unit cycle priority function setting menu as the picture below.
- 3 Press button and select the setting value per each function.  
  
Function Code    Setting value  

Value	Outdoor unit cycle priority
00	Not use
01	Standby
02	Cool
- 4 Press button to save.
- 5 Pressing button will exit settings mode.  
※ After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.  
※ When exiting without pressing set button, the manipulated value is not reflected.

Select mode	Description
00 (Not use)	According to the outdoor unit operation mode, operation mode selection is limited. ※ The following operation modes can be selected according to the outdoor unit cycle. - cooling cycle: auto, fan, cool, dehumidification - heating cycle: auto, fan, heat
01 (Standby)	In case of the operation mode opposite to the outdoor unit operation mode, it maintains the current operation mode. At this time, it maintains thermal off + fan off state.
02 (Cool)	Outdoor unit operation has priority in cooling operation. It is the function to enable the heating operation by heater in the product in heating operation. ※ For heater interface operation, set 'emergency heater setting' and 'auxiliary heater'. - emergency heater setting – installer code 18 - auxiliary heater – installer code 25

Press button to move to the 'step' setting. The 'step value' is blinking.

※ It can be selected when 'cool (56:02)' is set.

- It is the standby time set value to switch the outdoor unit mode to heating mode when cooling thermal off time is maintained above the set value.

Press button to set 'step'.

Step	Waiting time for cooling thermal off
0	45 minute (default)
1	30 minute
2	60 minute
3	90 minute
4	120 minute
5	Not use





## Installer Setting – Outdoor temperature for heating stages

It is a function that sets outdoor temperature values for two stage heating. If user set outdoor temperature T1 and ΔT, indoor unit will select heating stage between indoor unit operation and heater operation.

※ When the emergency heater setting is set (installer code 18), emergency heater control operation is performed with priority.

- If button is pressed so long for over 3 seconds, it enters to the installer setting mode.

- If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.
- If button is pressed repeatedly, it is moved to outdoor temperature for heating stages function setting menu as the picture below.
- Press button and select the setting value per each function.

Function Code    Setting value

Value	Description
00	Use/Not use
01	T1
02	ΔT
- Press button to save.
- Pressing button will exit settings mode.

※ After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.

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

Press button to choice `select use/not use` menu.

57:01

Press button to move to the `set use/not use` value. The `setting value` is blinking.

Press button to set `setting value`.

Setting value	Description
0	Not use
1	Use

After set `use/not use`, press button to move to the previous step.

Press button to choice `T1 value setting` menu.

57:02

Press button to move to the `set T1 value`. The `T1 value` is blinking.

Press button to set `setting value`.

Temperature Unit	T1 setting range
Centigrade	-23~16°C
Fahrenheit	-10~60°F

※ If `T1 value` is negative number (-), it displays the symbol.

-9<sup>°C</sup>      23<sup>°C</sup> ↔ - °.0  
 [-9°C or higher]      [-10°C or lower]

After set `T1 value`, press button to move to the previous step.



Press  $\Delta$   $\square$  button to choice `Δ T value setting` menu.

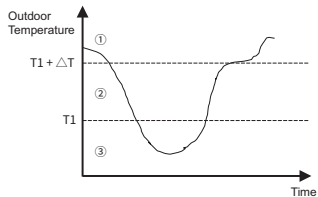
57:03

Press  $\square$  button to move to the `set Δ T value`. The `Δ T value` is blinking.

Press  $\Delta$   $\square$  button to set `setting value`.

Temperature Unit	ΔT setting range
Centigrade	0~35°C
Fahrenheit	0~70°F

Operation according to T1, ΔT setting and outdoor temperature.



- ① ( $T1 + \Delta T < \text{Outdoor temperature}$ ) : only heat pump used
- ② ( $T1 < \text{Outdoor temperature} < T1 + \Delta T$ ) : both heater and heat pump used
- ③ ( $\text{Outdoor temperature} < T1$ ) : only heater used



