

## OWNER'S MANUAL

# AIR CONDITIONER

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

VENTILATOR  
Original instruction

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For more information, Refer to the CD or LG Web site ([www.lg.com](http://www.lg.com)).



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## FOR YOUR RECORDS

Write the model and serial numbers here:

**Model #** \_\_\_\_\_

**Serial #** \_\_\_\_\_

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

**Dealer's Name** \_\_\_\_\_

**Date Purchased** \_\_\_\_\_

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



## READ THIS MANUAL

Inside you will find many helpful hints on how to use and maintain your ventilator properly. Just a little preventive care on your part can save you a great deal of time and money over the life of your Ventilator.

You'll find many answers to common problems in the chart of check item prior to notify a failure. If you review our chart of

**Check item prior to notify a failure**, you may not need to call for service at all.



## PRECAUTION

- Contact the authorized service technician for repair or maintenance of this unit.
- Contact the installer for installation of this unit.
- The ventilator is not intended for use by young children or invalids without supervision.
- Young children should be supervised to ensure that they do not play with the ventilator.
- When the power cord is to be replaced, replacement work shall be performed by authorized personnel only using only genuine replacement parts.
- Installation work must be performed in accordance with the National Electric Code by qualified and authorized personnel only.



# Safety Precautions




To prevent injury to the user or other people and property damage, the following instructions must be followed.

- Incorrect operation due to ignoring instruction will cause harm or damage. The seriousness is classified by the following indications.

**⚠ WARNING** This symbol indicates the possibility of death or serious injury.

**⚠ CAUTION** This symbol indicates the possibility of injury or damage.

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

	<b>Be sure not to do.</b>
	<b>Be sure to follow the instruction.</b>
	<b>Risk of electric shock</b>
<b>NOTICE</b>	<b>Special note</b>

## ⚠ WARNING

### ■ Installation

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

- There is risk of fire or electric shock.

**Install the panel and the cover of control box securely.**

- There is risk of fire or electric shock.

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

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

**Always install a dedicated circuit and breaker.**

- Improper wiring or installation may cause fire or electric shock

**Always ground the product.**

- There is risk of fire or electric shock.

**Use the correctly rated breaker or fuse.**

- There is risk of fire or electric shock.

**Do not modify or extend the power cable.**

- There is risk of fire or electric shock.

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

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

**Be cautious when unpacking and installing the product.**

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

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

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

**Do not install the product on a defective installation stand.**

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

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

- Moisture may condense and wet or damage furniture.

**For re-installation of the installed product, always contact the dealer or an Authorized Service Center.**

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

**Do not open the maintenance cover of the main body during operation.**

- Otherwise, it may cause electrical shock.

**Use the outdoor air suction hole with the net installed to ensure that birds could not come in.**

- Remove estrange things like the bird's nest. Otherwise, it may cause scarcity of indoor oxygen.

**Install the air intake where polluted air can not be directly sucked in.**

- It may cause various accidents, including suffocation, due to the suction of harmful gasses(CO, etc.)

**Install the product a place that can support its weight.**

- Otherwise, it may cause accident due to falling of the product.

## ■ Operation

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

- There is risk of fire or electric shock.

**Do not place anything on the power cable.**

- There is risk of fire or electric shock.

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

- There is risk of fire or electric shock.

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

- There is risk of fire or electrical shock.

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

- There is risk of fire and electric shock.

**Do not allow water to run into electric parts.**

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

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

- There is risk of fire or failure of product.

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

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

**If strange sounds, or small or smoke comes from product. Turn the breaker off**

- There is risk of electric shock or fire.

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

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

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

- There is risk of fire or electric shock.

**Be cautious that water could not enter the product.**

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

**Turn the breaker off when cleaning or maintaining the product.**

- There is risk of electric shock.

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

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

**Avoid fire equipment**

- There is risk of fire.

**Don't touch a dedicated circuit or breaker with wet hands.**

- There is risk of electric shock.

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

- Be careful and avoid personal injury.

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 **CAUTION**

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## ■ Installation

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

- Avoid personal injury.

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

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

**Do not install the ventilation unit alone for controlling room temperature.**

- If this is needed, install with another Indoor unit (air conditioner).

## ■ Operation

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

- This could harm to your health.

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

- There is risk of damage or loss of property.

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

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

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

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

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

- Be careful and avoid personal injury.

## Prior to Operation

### *Preparing for operation*

1. Contact an installation specialist for installation.
2. Plug in the power plug properly.
3. Use a dedicated circuit.
4. Do not use an extension cord.
5. Do not start/stop operation by plugging/unplugging the power cord.
6. If the cord/plug is damaged, replace it with only an authorized replacement part.

### *Usage*

1. Being exposed to direct airflow for an extended period of time could be hazardous to your health. Do not expose occupants, pets, or plants to direct airflow for extended periods of time.
2. Due to the possibility of oxygen deficiency, ventilate the room when used together with stoves or other heating devices.
3. Do not use this ventilator for non-specified special purposes (e.g. preserving precision devices, food, pets, plants, and art objects). Such usage could damage the items.
4. This unit cannot control room temperature. If this is needed, do not install the ventilation unit alone, but rather install another indoor unit.

### *Cleaning and maintenance*

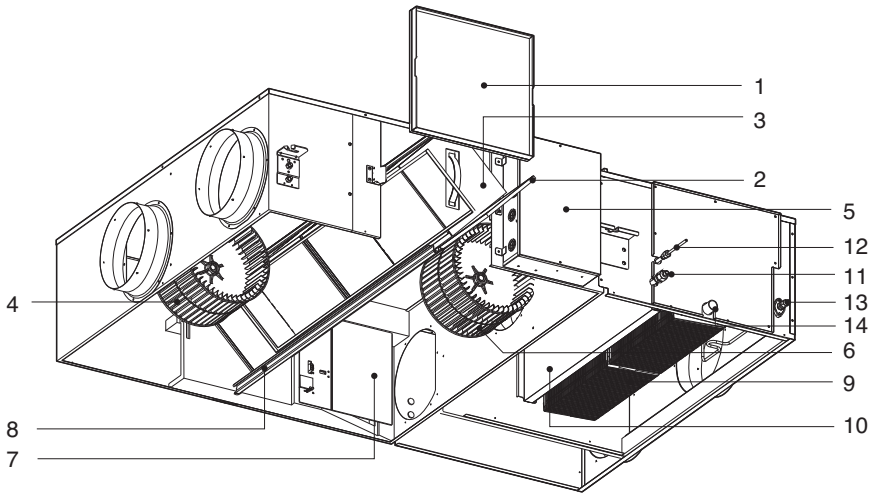
1. Do not touch the metal parts of the unit when removing the filter. Injuries can occur when handling sharp metal edges.
2. Do not use water to clean inside the ventilator. Exposure to water can destroy the insulation, leading to possible electric shock.
3. When cleaning the unit, first make sure that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

### *Service*

For repair and maintenance, contact your authorized service dealer.



# Introduction



**1. Maintenance cover**

**2. Air Filter**

Prevents clogging of the Total heat exchanger due to dust.

**3. Total Heat Exchanger**

Exchanges temperature and moisture between supply air and exhaust air.

**4. Blower for Exhaust Air**

A blower for draining polluted air outside.

**5. Electronic Parts Box (Control box)**

**6. Blower for Supply Air**

A blower for induction outside air.

**7. Bypass Damper**

Converts the ventilation via Total heat exchange to the normal ventilation.

**8. Holder for Total Heat Exchanger**

Used for installation guide of the Total heat exchanger.

**9. Humidifier Element**

**10. Direct expansion coil (DX Coil)**

**11. Gas pipe connection (Ø12.7)**

**12. Liquid pipe connection (Ø6.35)**

**13. Feed water connection port (Ø6.35)**

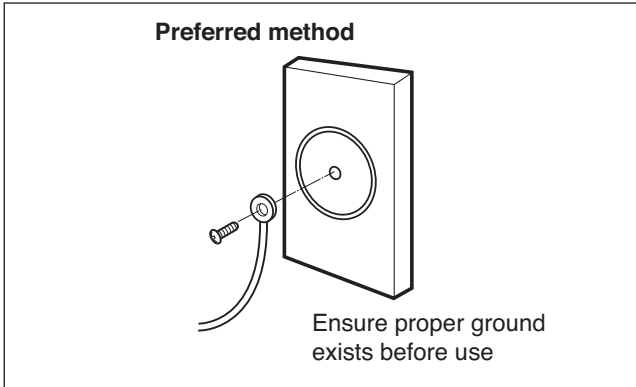
**14. Drain outlet (Ø25.4)**

# Electrical Safety



**WARNING: This appliance must be properly grounded.**

To minimize the risk of electric shock, you must always plug into a grounded outlet.



**WARNING: Do not cut or remove the grounding prong from the power wire.**



**WARNING: Attaching the adapter ground terminal to the wall receptacle cover screw does not ground the appliance unless the cover screw is metal and not insulated, and the wall receptacle is grounded through the house wiring.**



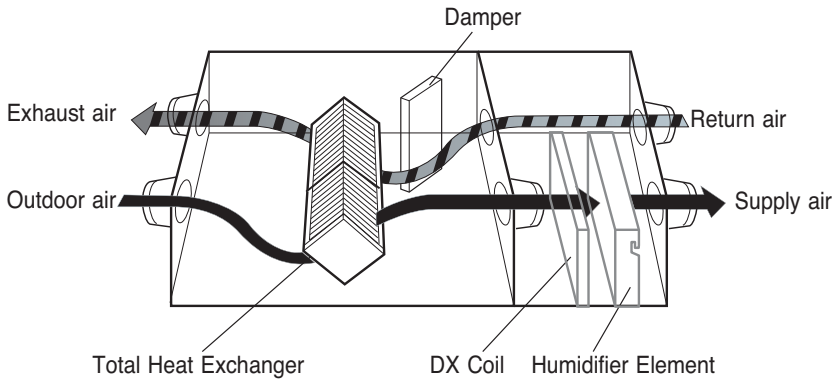
**WARNING: If you have any doubt whether the ventilator is properly grounded, have the wall receptacle and circuit checked by a qualified electrician.**

# Characteristics

## Ventilation via Total Heat Exchanger

### Exhausts indoor air via the Total Heat Exchanger outdoor.

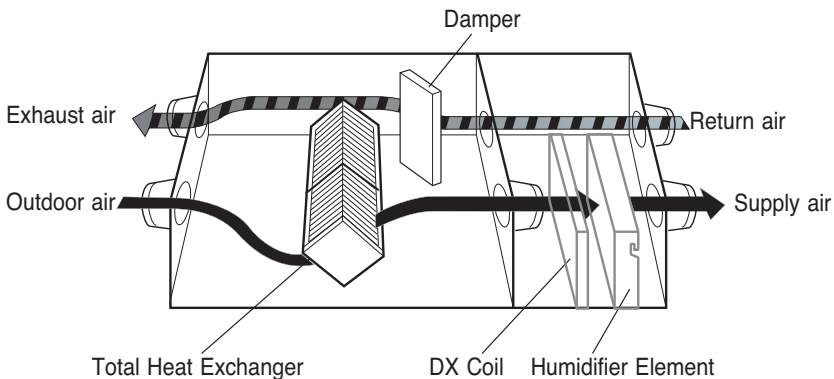
- The outdoor air heat exchanged is supplied to indoor. Operate the ventilator in the **Ventilation via Total heat exchanger** in summer/winter when cool/heat operation is done.



## Normal Ventilation

### Exhausts the polluted indoor-air directly without via the Total Heat Exchanger.

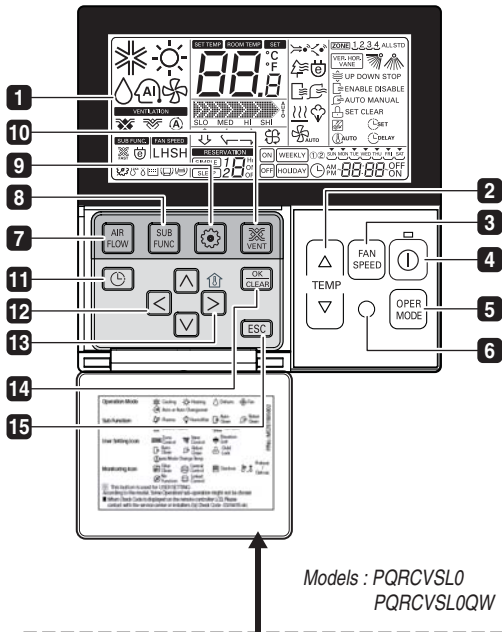
- Operate the ventilator in the **Normal Ventilation** in spring/autumn when the Total heat exchanger is not required.



**CAUTION:** In case of high outdoor pollution degree like yellow sand please pause the ventilator.

# Operating Instructions (Accessory)

## Name and Function of Remote Controller



Please attach the inform label inside of the door.  
Please choose proper language depend on your country.

- 1** OPERATION INDICATION SCREEN
- 2** SET TEMPERATURE BUTTON
- 3** FAN SPEED BUTTON
- 4** ON/OFF BUTTON
- 5** OPERATION MODE SELECTION BUTTON
- 6** WIRELESS REMOTE(\*) CONTROLLER RECEIVER
  - Some products don't receive the wireless signals.
- 7** AIR FLOW BUTTON(\*)
- 8** SUBFUNCTION BUTTON
- 9** FUNCTION SETTING BUTTON
- 10** VENTILATION BUTTON
- 11** RESERVATION
- 12** UP,DOWN,LEFT,RIGHT BUTTON
- 13** ROOM TEMPERATURE BUTTON(\*)
- 14** SETTING/CANCEL BUTTON
- 15** EXIT BUTTON


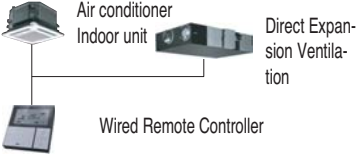
※ Some functions may not be operated and displayed depending on the product type.

Refer to remote controller in order to know detail functions.

※ (\*) : Functions for air conditioner.

**Ventilation operating scene and ventilation operating method**

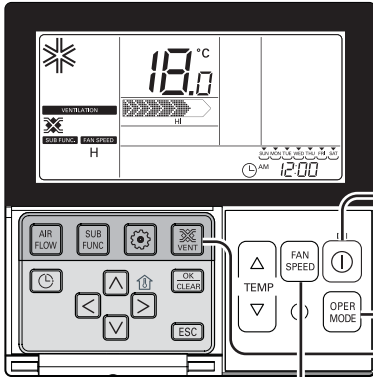
This unit's remote controller can be installed with two types;  
**Single Operation & Interlinked Operation**

	Single Operation	Interlinked Operation
Direct Expansion Ventilation	<p>(Direct Expansion Ventilation Single Operation)</p>  <p>Direct Expansion Ventilation</p> <p>Wired Remote Controller</p>	<p>(Direct Expansion Ventilation Interlinked Operation)</p>  <p>Air conditioner Indoor unit</p> <p>Direct Expansion Ventilation</p> <p>Wired Remote Controller</p>

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

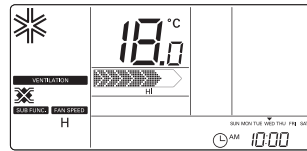
## Single operation control

It performs ventilation operation with cooling or heating at the same time using the heat exchanger inside the direct expansion type ventilation product.



### Direct expansion type ventilation single operation

- 1** Pressing the button on the remote controller. It displays as the figure right side in the direct expansion type ventilation single operation.



- 2** Pressing the button will change the ventilation mode. Pressing the button converts from 'heat exchange' → normal → automatic'.

Ventilation mode	Remote Controller Display	Contents
Heat exchange		Mode that supply/exhaust air via Total heat exchanger. Appropriate for use in summer/winter when temperature difference between indoor/outdoor air is severe.
Normal		Mode that exhausts the air without the Total heat exchange method. Appropriate for use in spring/autumn or in case of the high indoor pollution degree.
Automatic		Automatically operates in the optimum ventilation mode by measuring the indoor/outdoor air temperature of the ventilation system. * Searches the optimum status by operation mode or setting temperature of ventilator as well as by indoor/outdoor temperature of the ventilation system if linked to Multi-V system. (Only for some models)

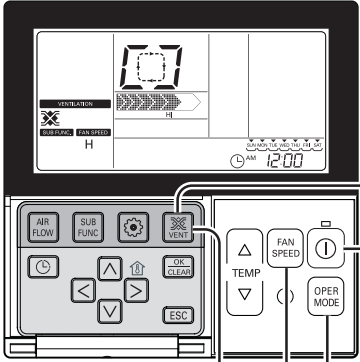
\* The 88 segment display above is only displayed when it is in direct expansion type ventilation single operation and the air conditioner is stopped.

- 3** Pressing the button will change operation mode.  
- Pressing the button will convert from 'cooling' → heating → automatic → fan.

- 4** Pressing the button in ventilation mode changes the strength of wind.  
- Pressing the button can select from 'Low' → High → Super High'.  
\* Cooling/heating operation selection and the desired temperature can be adjusted in direct expansion type ventilation single operation.  
\* Refer to the basic operation - temperature adjustment for changing desired temperature.

## Interlinked operation control

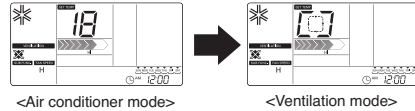
It can only be used when the air conditioner is interlinked with direct expansion ventilation product.



### Interlinked Operation with Direct Expansion Ventilation

- 1** Press button on the remote controller.  
- It is used only when air conditioner and the ventilation product are interlinked.

\* Press 'Ventilation' button on the wired remote controller and enter Ventilation control mode to check the operation of ventilation product.



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

- 2** Pressing button in ventilation mode starts ventilation.

- 3** Pressing button in ventilation mode will change the ventilation mode.  
- Every time the button is pressed, it changes from 'Heat exchange → Normal → Automatic'.  
\* The display on the remote controller displays only when it is in ventilation mode, and when it converts to air conditioner mode, it displays the desired temperature.

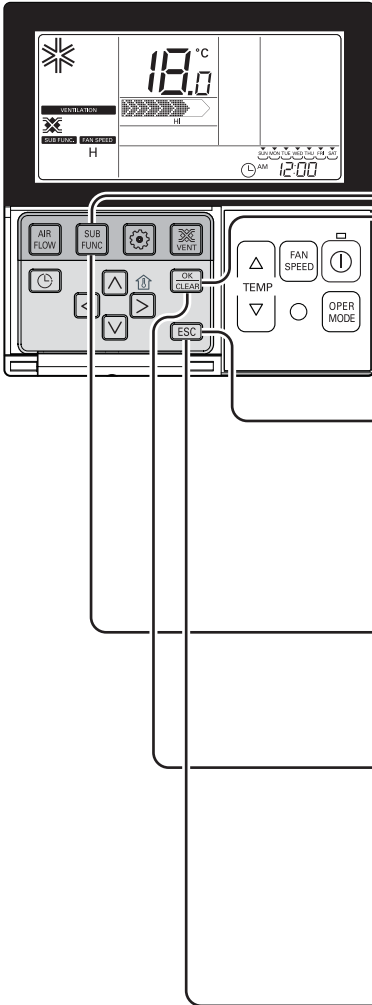
- 4** Pressing button in ventilation mode changes the strength of wind.  
- Pressing the button can select from 'Low → High → Super High'.

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


# Additional Function


## Fast/Energy saving ventilation mode

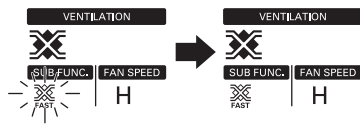
It is a function to operate ventilation function more efficiently through the ventilation additional functions, fast / Energy saving settings.




### Fast : ventilates fast


- 1 Press **SUB FUNC** button in ventilation mode. - It converts in the order of 'fast → energy saving' in ventilation mode. 


- 2 'Fast' is blinking on the display, and pressing **OK CLEAR** button will stabilize 'fast' icon, and the function is set. 

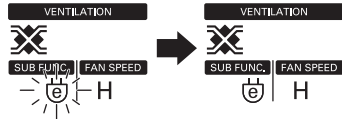



- 3 Pressing **ESC** button will exit the settings. 

### Energy Saving : efficiently ventilates and performs energy savings.

- 1 Press **SUB FUNC** button in ventilation mode. - It converts in the order of 'fast → energy saving' in ventilation mode. 

- 2 'Energy Saving' is blinking on the display, and pressing **OK CLEAR** button will stabilize 'Energy Saving' icon, and the function is set. 

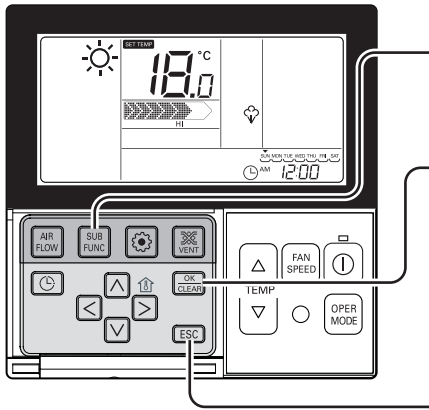










- 3 Pressing **ESC** button will exit the settings. 
  - \* General ventilation and direct expansion ventilation have the same additional functions.
  - \* Ventilation/Heater/Humidifier additional function settings are the same as air conditioner.




## Humidification operating mode

Only products with humidifying function can use this.

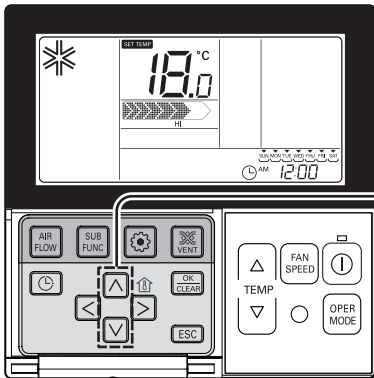


- 1** Repeatedly pressing  button until  icon flash. 
- 2** Turn on/off HUMIDIFIER by pressing  button (The  icon will be displayed in case of SETTING option and disappear in reverse case .) 
- 3** Press  button to exit.
  - \* After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.
  - \* When exiting without pressing set button, the manipulated value is not

### NOTICE

- Humidification function might not be operated at the partial product.
- This function is able to be selected automatically or manually when operating heating mode (※ Factory default : When choosing heating mode, humidification mode is automatically selected.)
- In case of interlinked operating, control Humidification operating mode refer to above chart on ventilation mode, though pushing the  button.

## Temperature setting/Room Temperature check



### Temperature Setting

**1** We can simply adjust the desired temperature.

- Press the buttons to adjust the desired temperature.

- : Increase 1°C or 2°F per one time pressing
- : Decrease 1°C or 2°F per one time pressing

- Room temp: not display in single operation.
- Set temp: Indicate the temperature that user want to set.

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

### Cooling operation:

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

### Heating operation:

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

- For air-cooling drive, from 18°C to 30°C, and for heating drive, from 16°C to 30°C, you can select desired temperature.
- 5°C is proper for the difference between room and outside temperature.
- Ventilation unit can't reach to the set temperature because the air is supplied from outdoor.
- This unit cannot control room temperature. If this is needed, do not install the ventilation unit alone, but rather install another indoor unit.

# Maintenance and Service

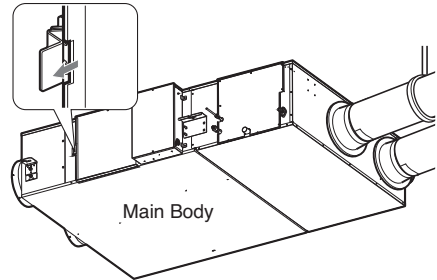
## Method to disassemble each part

To prevent function of the ventilator deteriorating, clean dust adhered to the air filter and total heat exchanger regularly.

### Method to take each part out(Air filter, Total heat exchanger)

#### 1. Remove the maintenance cover.

Put the hands inside of the ceiling from the maintenance cover, and pull the maintenance cover up.  
(Loosen the hinge and detach the maintenance cover.)

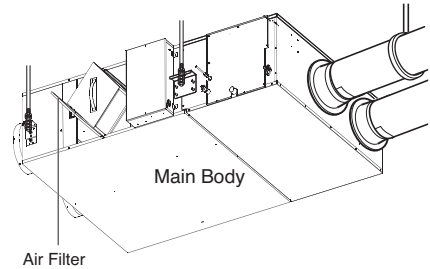


#### 2. Take the air filter out.

Take the air filter with each contained to the left/right downside of the Total heat exchanger.

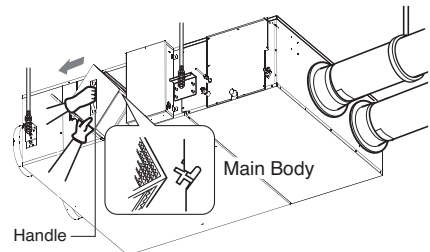


**CAUTION:** Take care to ensure that you could not damage when taking the air filter out since there is a sharp part on it.



#### 3. Take the Total heat exchanger out.

Catch the handle and then take the Total heat exchanger (2EA) out from the main body. (2 units)



**WARNING:** Turn the breaker off when cleaning the product.

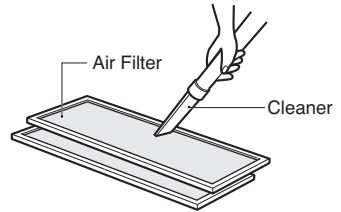


**CAUTION:** Gloves should be worn when doing the maintenance work.

## Method to Clean and Replace Each Part

### 1. Cleaning of Air Filter

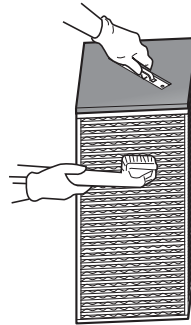
- Clean dirt from the air filter using a vacuum cleaner or wash with water.  
(if dirt is conspicuous, wash with a neutral detergent in lukewarm water)
- After washing with water, dry well in the shade.  
(Do not expose the air filter to direct sunlight or heat from a fire when drying it)
- If the air filter is damaged, purchase it from the service center or professional agent.



### 2. Cleaning of Total Heat Exchanger

Suck dusts adhered to the surface of the Total heat exchanger with a cleaner.

- Use the cleaner that attached to brush at its nozzle, and use a soft brush.
- Do not use a hard nozzle on the cleaner.  
(Otherwise, surface of the Total heat exchanger may be damaged.)
- Never wash the Total heat exchanger with water.
- Replacement expenses are for a consideration after 2 years from the purchasing date.
- Expenses are for a consideration when you will contact the service center even within 2 years from the purchasing date.
- For service, always contact the dealer or an Authorized Service Center.



Air Filter

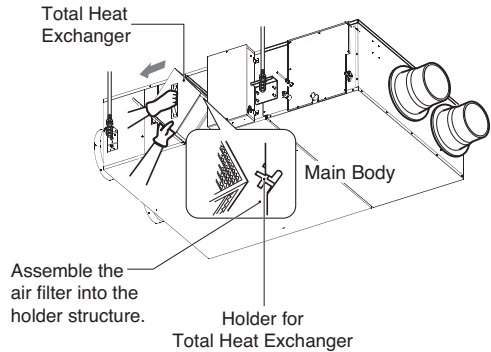


Total Heat Exchanger

## Assembly and Check after Maintenance

### 1. Assembly of Total heat exchanger

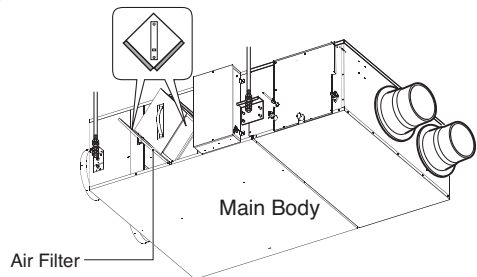
Securely put the corner parts (4 or 6 parts) of the Total heat exchanger into the holder for assembly and slide them into the inside of the main body.



### 2. Assembly of air filter

Assemble the air filter into the holder structure of the Total heat exchanger.

- Take care to ensure that surface of the Total heat exchanger could not be damaged.
- Dusts adhered to the Total heat exchanger may cause deterioration of Air volume.



### 3. Assembly of maintenance cover

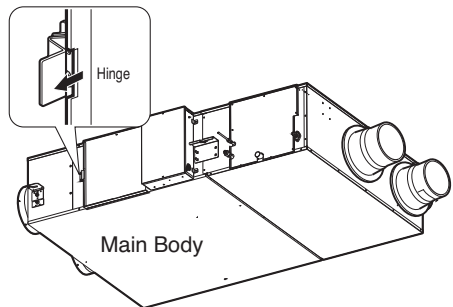
Fix the cover to the right hinge and fix it to the left side. (A nameplate is adhered toward the reading direction).



**WARNING:** Turn the breaker off when cleaning the product.



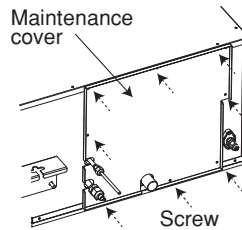
**CAUTION:** Gloves should be worn when doing the maintenance work.



## Replacement of the Humidifier

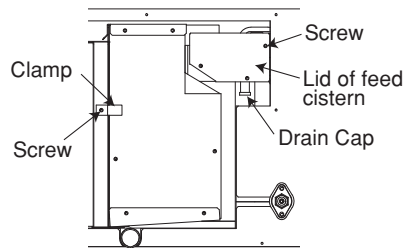
### 1. Remove the maintenance cover.

Loosen the screw (8EA) and detach the maintenance cover.



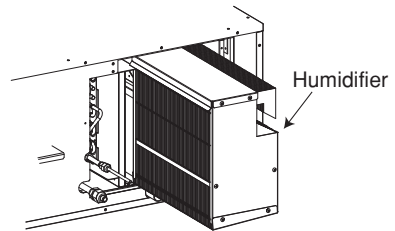
### 2. Prepare to replace the Humidifier.

- Uncork the Drain Cap to drain the remaining water in the feed cistern.
- Loosen the screw (3EA) and detach the lid of feed cistern.
- Loosen the screw (1EA) and Detach the clamp.



### 3. Pull out the Humidifier (2EA)

- Uncork the Drain Cap to drain the remaining water in the feed cistern.
- Loosen the screw (3EA) and detach the lid of feed cistern.
- Loosen the screw (1EA) and Detach the clamp.



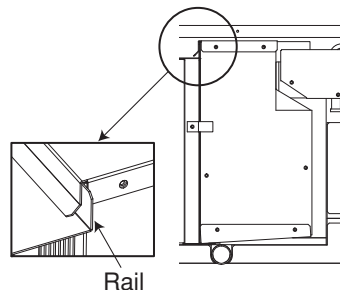
### 4. Insert the new Humidifier (2EA)

Confirm that the edge of top panel of humidifier element has been hooked securely on the rail.

And assemble the lamp, lid of cistern and drain cap.

**WARNING:** Turn the breaker off when cleaning the product.

**CAUTION:** Gloves should be worn when doing the maintenance work.



# Humidifier Maintenance

## Inspection and Maintenance of the Humidifier

- Have your dealer do the following inspections in order to get the longest use.
- In order to prevent harmful bacteria from generating, ask your dealer to do maintenance on humidifying unit portion at the beginning or the end of the heating season.

Inspected part	Content of maintenance		Problems if maintenance is not carried out
	Items to be inspected	Solution	
Feed water tank	Check for operation of float switch	Clean if it does not work properly due to build-up.	Insufficient humidifying. Overflowed feed water tank.
	Check for dirt	Clean if very dirty.	Weak fan strength. Reduced humidifying capacity.
Solenoid valve	Check for shutting and opening. Check in a similar fashion when checking the float switch operation.	Replace if it doesn't work.	Insufficient humidifying. Overflowed feed water tank. (Increased tap water consumption.)


## Replacing the Humidifier element

1. The humidifier element should in general be replaced once every three years when supply water is soft water, but outside factors (water quality, operating times) may shorten its productive life.
2. Contact your dealer if you have any questions.

### NOTICE

This note is only applied to model that there is humidity function.

When humidifying fails, the remote controller does not display any error code.

(just twinkle the icon of Humidification “” for 30 minutes and disappeared)

Usage under that status will lead to insufficient humidification and increased tap water consumption.

The solenoid valve and float switch should be checked at the beginning of heating season.



## Maintenance Cycle

• **Recommended maintenance cycle of each part.**

Name of Part	Inspection cycle (Cleaning cycle)	Replacement Cycle
Air filter	0.5 year	3 years
Total Heat Exchanger	1 year	10 years
Humidifier Element	1 year	1~3 years

- This table indicates main parts.
- See the maintenance and inspection contract for details.
- This maintenance cycle indicates recommended lengths of time until the need arises for maintenance work, in order to ensure the product is operational as long as possible.
- Use for appropriate maintenance design (budgeting maintenance and inspection fees, etc.).
- Life of humidifier element is about 3 years (4,000 hours), under the supply water conditions of hardness ; 150mg/l.
- Life of humidifier element is about 1 year (1,500 hours), under the supply water conditions of hardness ; 400mg/l.
- Annual operating hours : 10 hours/day x 26 days / month x 5 month = 1,300 hours.
- The cycle is not the same as the warranty period

## Check Item prior to notify a failure

Symptom	Check Item	Counter-measure
The Product doesn't work	Is power not supplied?	Supply Power
The Product doesn't work through you press the 'ON' switch	Is the Indoor temperature less than 45°C or more than 40°C?	It's standby mode for protecting Total Heat Exchanger.
Even though you change the fan speed, the operation mode doesn't change and it changes to 'Auto or Low'	Is the Indoor temperature less than -10°C or more than 45°C?	It's operation mode to protect Total Heat Exchanger.
Even though you push the button of remote controller, any function doesn't work.	Is the icon "  " displaying on remote controller?	It's Child Lock mode. Refer to Remote controller.
	Is the icon "  " displaying on remote controller? Does the message "HL" display on remote controller when you push the button.	It's centralized control mode. You can't control on remote controller.



