

OWNER'S MANUAL

# AIR CONDITIONER

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

VENTILATOR  
Original instruction



MFL67870417  
Rev.01\_063021

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# Safety instructions

The following symbols are displayed on indoor and outdoor units.

	Read the precautions in this manual carefully before operating the unit.		This appliance is filled with flammable refrigerant (R32)
	This symbol indicates that the Operation Manual should be read carefully.		This symbol indicates that a service personnel should be handling this equipment with reference to the Installation Manual.

The following safety guidelines are intended to prevent unforeseen risks or damage from unsafe or incorrect operation of the appliance.

The guidelines are separated into 'WARNING' and 'CAUTION' as described below.

**⚠** This symbol is displayed to indicate matters and operations that can cause risk.  
Read the part with this symbol carefully and follow the instructions in order to avoid risk.

## **⚠ WARNING**

This indicates that the failure to follow the instructions can cause serious injury or death.

## **⚠ CAUTION**

This indicates that the failure to follow the instructions can cause the minor injury or damage to the product.

## **⚠ WARNING**

### **Installation**

- Do not use a defective or underrated circuit breaker. Use this appliance on a dedicated circuit.
  - There is risk of fire or electric shock.
- For electrical work, contact the dealer, seller, a qualified electrician, or an Authorized Service Center.
  - Do not disassemble or repair the product. There is risk of fire or electric shock.

- Always ground the product.
  - There is risk of fire or electric shock.
- Install the panel and the cover of control box securely.
  - There is risk of fire or electric shock.
- Always install a dedicated circuit and breaker.
  - Improper wiring or installation may cause fire or electric shock
- Use the correctly rated breaker or fuse.
  - There is risk of fire or electric shock.
- Do not modify or extend the power cable.
  - There is risk of fire or electric shock.
- Do not install, remove, or re-install the unit by yourself (customer).
  - There is risk of fire, electric shock, explosion, or injury.
- Be cautious when unpacking and installing the product.
  - Sharp edges could cause injury. Be especially careful of the case edges and the fins on the condenser and evaporator.
- For installation, always contact the dealer or an Authorized Service Center.
  - There is risk of fire, electric shock, explosion, or injury.
- Do not install the product on a defective installation stand.
  - It may cause injury, accident, or damage to the product.
- 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 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 smell 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.
- 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 roduct.
  - Be careful and avoid personal injury.
- The appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation. (for R32)
- Ducts connected to an appliance shall not contain an ignition source. (for R32)

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**⚠ CAUTION**

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### **Installation**

- 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).
- If anyone other than a licensed Professional installs, repairs, or alters LG Electronics Air Conditioning Products, the warranty is voided.
  - All costs associated with repair are then the full responsibility of the owner.
- Do not install the unit in potentially explosive atmospheres.

### **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.
- Any person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorises their competence to handle refrigerants safely in accordance with an industry recognised assessment specification. (for R32)
- Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants. (for R32)
- Wear adequate personal protection equipment (PPE) when installing, maintaining or servicing the product.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

## Prior to Operation

### *Preparing for operation*

Contact an installation specialist for installation.

Use a dedicated circuit.

Do not use an extension cord.

If the cord/plug is damaged, replace it with only an authorized replacement part.

### *Usage*

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.

Due to the possibility of oxygen deficiency, ventilate the room when used together with stoves or other heating devices.

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.

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*

Do not touch the metal parts of the unit when removing the filter. Injuries can occur when handling sharp metal edges.

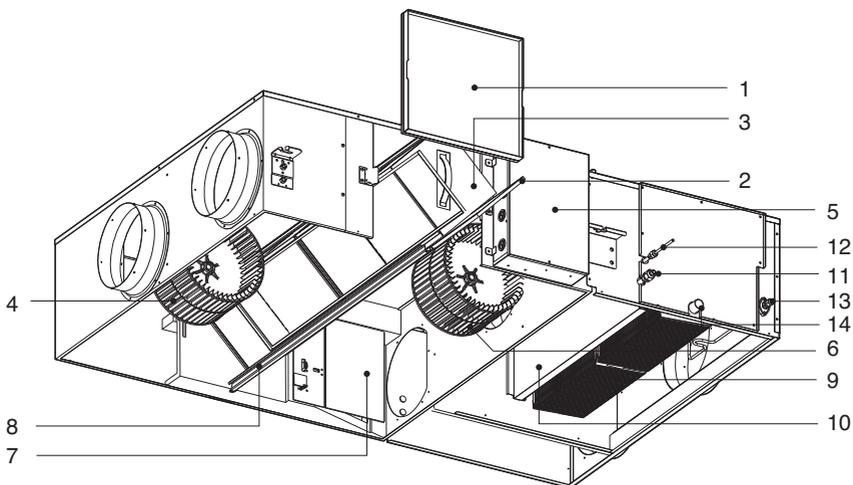
Do not use water to clean inside the ventilator. Exposure to water can destroy the insulation, leading to possible electric shock.

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)**

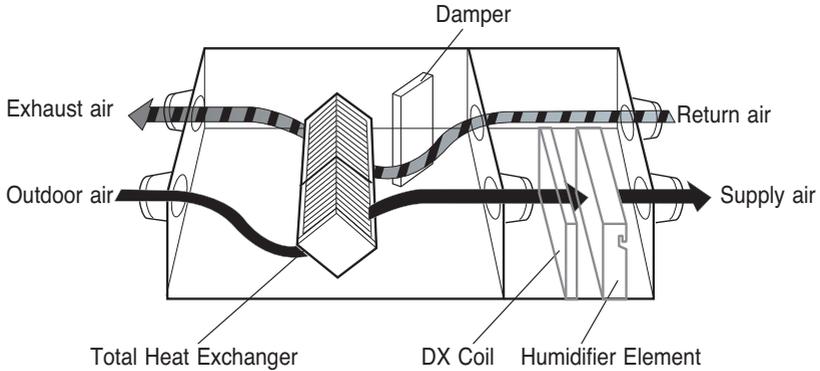
※ HEPA filter is an optional product exclusive for the ventilation system that is sold separately.

# Characteristics

## Ventilation via Total Heat Exchanger

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

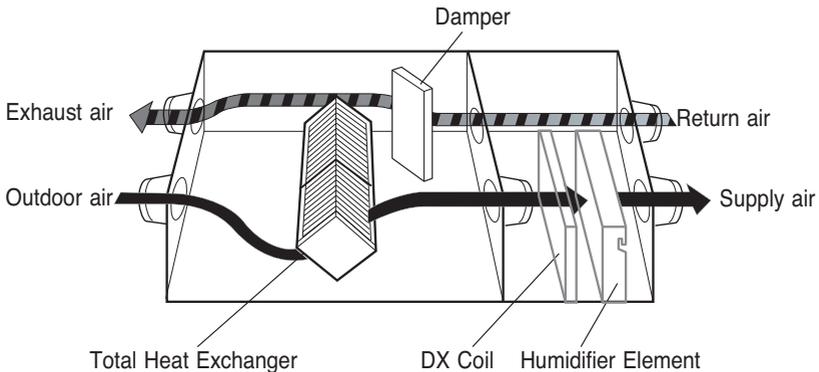
- The outdoor air heat exchanged is supplied to indoor. Operate the ventilator in the **Ventilation via Total heat exchanger** in summer/winter when cool/heat operation is done.



## 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.



## Humidifier Process

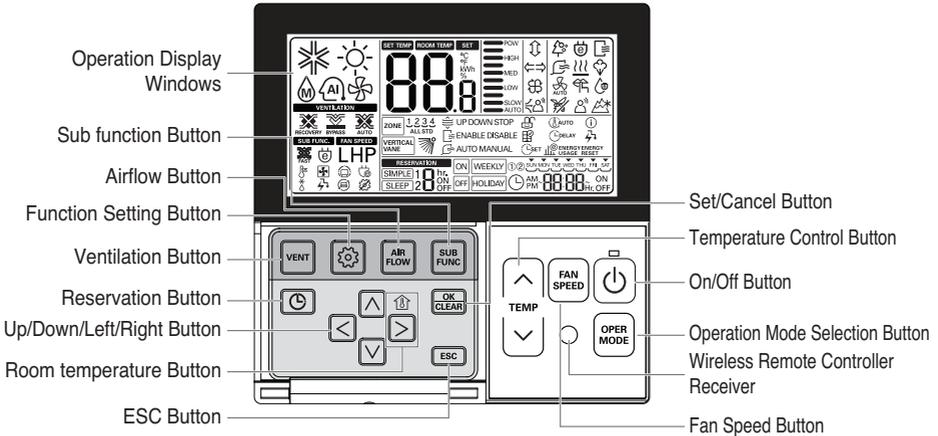
- Upon selection of heating mode, Humidifier Process is turned on automatically based on the humidification range set in the remote controller.  
(Humidification range is the process to prevent excessive humidification, and when the humidity reaches maximum/minimum value set, humidification will be turned off/on.)
  - When Manual Mode is selected, you can choose to turn on or off the Ventilation Only Mode and Heating Mode.
- \* Please refer to the remote controller manual for setting the humidification range and changing to Manual Mode.
- \* Such features are available only when the remote controller with humidity receiving function is used.
- \* The amount of humidification depend on the installation site, sealing, and other factors so it might not reach the maximum range.

## CAUTION

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

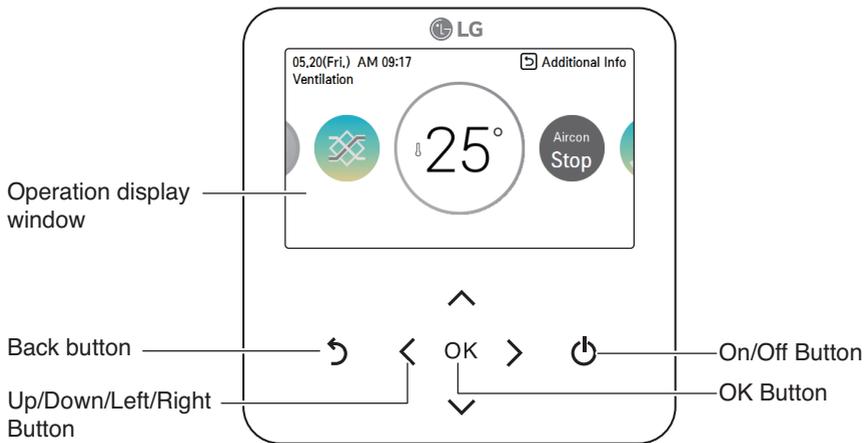
# Operating Instructions (Accessory)

## Name and function of remote controller



- Operation Display Windows** : Displays the status of operation and settings
- Ventilation Button** : For interlocking operations of air-conditioner and ventilator
- Function Setting Button** : To select the additional operations function
- Airflow Button** : To select the airflows
- Sub function Button** : To select the additional operations function
- Reservation Button** : To program the schedule
- Up/Down/Left/Right Button** : To change the settings in the menu
- Room temperature Button** : To check the indoor temperature
- ESC Button** : To exit from the menu
- Set/Cancel Button** : To save the settings in the menu
- Temperature Control Button** : To change the desired temperature
- Fan Speed Button** : To select the fan speed
- On/Off Button** : To turn on/off with a remote controller
- Mode Selection Button** : To select the operating mode
- Wireless Remote Controller Receiver**

\* Some functions may not be operated and displayed depending on the product type.  
 \* It will display strange value to the room temperature if wired remote controller is not connected.



Model: PREMTB100

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

\* Some functions may not be operated and displayed depending on the product type. Refer to remote controller in order to know detail functions.

# Maintenance and Service

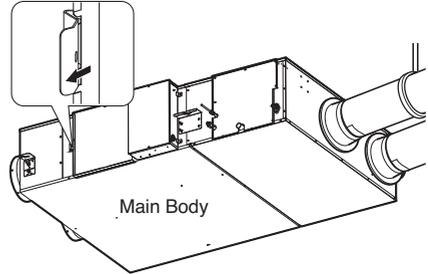
## Method to disassemble each part

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.

Loosen a screw on 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.)

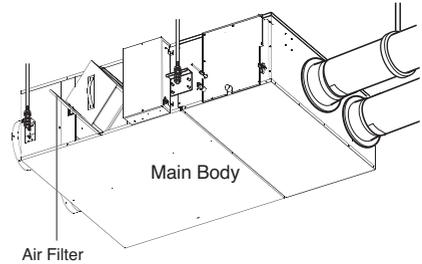


#### 2. Take the air filter out.

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.

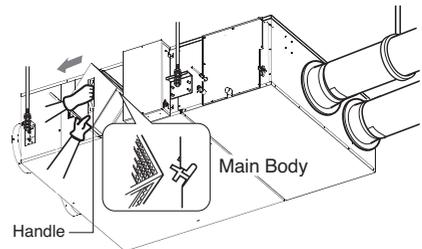
Catch the handle and then take the Total heat exchanger (2EA) out from the main body. (2 units)

### ⚠ WARNING

Turn the breaker off when cleaning the product.

### ⚠ CAUTION

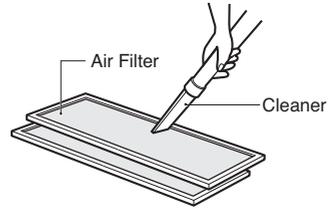
Gloves should be worn when doing the maintenance work.



## Method to Clean and Replace Each Part

### 1. Cleaning of Air Filter

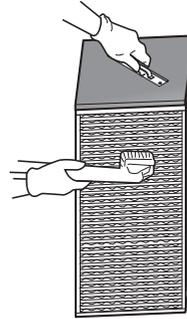
- Clean dirt from the air filter using a vacuum cleaner or wash with water.  
(if dirt is conspicuous, wash with a neutral detergent in lukewarm water)
- After washing with water, dry well in the shade.  
(Do not expose the air filter to direct sunlight or heat from a fire when drying it)
- If the air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

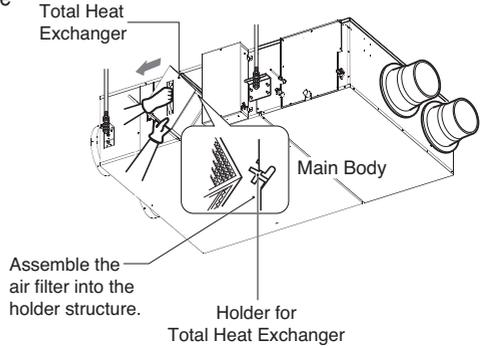


Total Heat Exchanger

# Assembly and Check after Maintenance

## 1. Assembly of Total heat exchanger

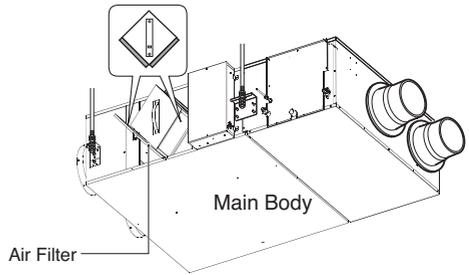
Securely put the corner parts (4 parts) of the Total heat exchanger into the holder for assembly and slide them into the inside of the main body.



## 2. Assembly of air filter

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

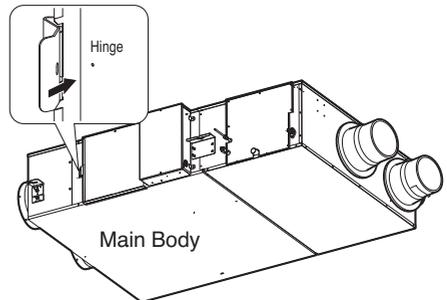
- Take care to ensure that surface of the Total heat exchanger could not be damaged.
- Dusts adhered to the Total heat exchanger may cause deterioration of Air volume.



## 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).

Tighten a screw on the maintenance cover.



### **⚠ WARNING**

Turn the breaker off when cleaning the product.

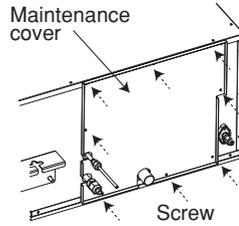
### **⚠ CAUTION**

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.

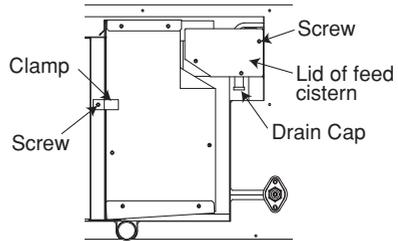


### 2. Prepare to replace the Humidifier.

- 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)

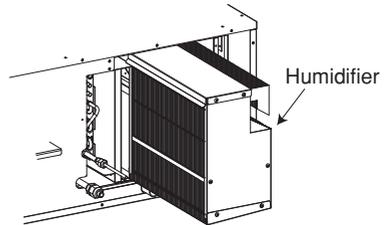
- Uncork the Drain Cap to drain the remaining water in the feed cistern.
- Loosen the screw (3EA) and detach the lid of feed cistern.
- Loosen the screw (1EA) and Detach the clamp.



### 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.

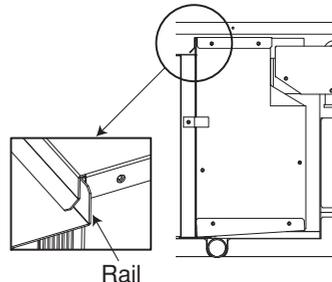


## ⚠ WARNING

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 or display warning icon  on the side of Humidification icon.

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 15 °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.



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**Eco design requirement**

- The information for Eco design is available on the following free access website.  
<https://www.lg.com/global/support/cedoc/cedoc>