# VENTILATION **SYSTEM**

Please read this installation manual completely before installing the product. Please retain this installation manual for future reference after reading it thoroughly.

**VENTILATOR** Original instruction For commercial use

This manual is the simplified version of original manual. You can obtain the original manual from website.



Rev.09\_021925



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# SAFETY INSTRUCTIONS

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.



 $\Lambda$  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 reinstall 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.
- 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 product run for a long time when the humidity is very high and a door or a window is left
  - Moisture may condense and wet or damage furniture.
- For reinstallation 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.)

- Do not install this product in a refrigerated warehouse, heated swimming pool or other location where the temperature and humidity are significantly different.
  - There is risk of electrical shock, malfunctioning.
- Install this product in an environment where the temperature ranges from -10 °C to +45 °C and the relative humidity is less than 80 %. Its condensation is expected to form, heat up the fresh outside air using a duct heater etc.
- Take care to ensure that power cable could not be pulled out or damaged during operation.
  - There is risk of fire or electric shock.
- Make the connections securely so that the outside force of the cable may not be applied to the terminals.
  - Inadequate connection and fastening may generate a heat and cause a fire.
- Use the designated electrical wires for the terminal board connections, and connect the wires securely so that they will not become disconnected. (Failure to ensure proper connections may cause fire.)
- When passing metal ducts through wooden buildings clad with metal laths, wire laths or metal, these ducts must be installed in such a way that they will not make electrical contact with the metal laths, wire laths or metal sheets. (Power leakage can cause ignition)
- The appliance shall be installed in accordance with the national wiring regulation.

# Operation

- When the product is soaked (flooded or submerged), contact an authorized service center.
  - There is risk of fire or electric shock.
- Don't touch a dedicated circuit or breaker with wet hands.
  - There is risk of 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
- 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.
- The outside ducts must be tilted at a gradient (1/30 or more) down toward the outdoor area from the ventilator unit, and properly insulated. (The entry of rain water may cause power leaks, fire or damage to household property.)
- Glove should be worn when doing the installation work. (There is risk of injury.)

# **A** CAUTION

#### Installation

- Don't connect the ground wire to the window frame or water cock.
  - There is risk of electric shock.
- Do not install the product at a smoky and oily place like kitchen or factory.
  - Otherwise, oil may adhere to the filter or heating exchanger and cause trouble.
- Install the product in an insulated space from outdoor air.
  - In case of installing the product outside of the insulated layer, dewing occurs inside of the main body in winter. And it causes electrical shock or falling of condensed water.
- Keep level even when installing the product.
  - To avoid vibration or water leakage.

- 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.
- Install the product so that the noise or hot wind from the outdoor unit may not cause any damage to the neighbors.
  - Otherwise, it may cause dispute with the neighbors.
- 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.
- Means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.
- Do not insert a drain hose in drain or soil pipe.
  - Bad smells can occur and it results in a corrosion of a heat exchanger or pipe.
- Do not install the unit in potentially explosive atmospheres.
- (Australia only) This product must be installed by a professional installer.
- After the installation of the product in the customer premises, fully remove all product packaging (including any expanded or moulded plastic packaging materials) and recycle or dispose of such packaging responsibly. Do not dispose any expanded plastic packaging in the household bin.

## Operation

- Use a soft cloth to clean. Do not use harsh detergents, wax or thinner, etc.
  - Otherwise, color or surface of the product may deteriorate.
- Clean the filter and the heat exchanger regularly and use the gloves for cleaning.
  - Adhering to a mass of dust may cause the deterioration of air volume.
- 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.
- Do not block the inlet or outlet of air flow.
  - It may cause product failure.
- Do not step on or put anything on the product.
  - There is risk of personal injury and failure of product.
- This appliance is not intended to be accessible to the general public.
- Do not touch refrigerant pipe and water pipe or any internal parts while the unit is operating or immediately after operation.
  - It can cause a burn or frostbite.
- Take care to ensure that nobody could step on or fall onto the unit.
  - This could result in personal injury and product damage.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

# PRIOR TO OPERATION

## Preparing for operation

- 1 Contact an installation specialist for installation.
- 2 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 supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

## 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.

#### 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

- 1 For repair and maintenance, contact your authorized service dealer.
- 2 The appliance shall be disconnected from its power source during service and when replacing parts.

#### Airborne noise emission

The A-weighted sound pressure emitted by this product is below 70 dB.

\*\* The noise level can vary depending on the site.

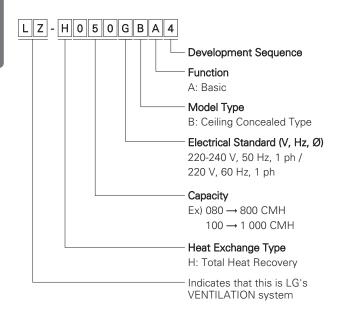
The figures quoted are emission level and are not necessarily safe working levels.

Whilst there is a correlation between the emission and exposure levels, this cannot be used reliably to determine whether or not further precautions are required.

Factor that influence the actual level of exposure of the workforce include the characteristics of the work room and the other sources of noise, i.e. the number of equipment and other adjacent processes and the length of time for which an operator exposed to the noise. Also, the permissible exposure level can vary from country to country.

This information, however, will enable the user of the equipment to make a better evaluation of the hazard and risk.

# STANDARDS FOR MODEL

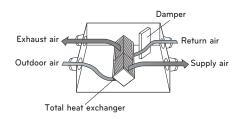


# **CHARACTERISTICS**

## Ventilation via total heat exchanger

Exhausts indoor air via the total heat exchanger outdoor.

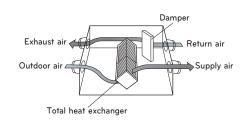
- The outdoor air heat exchanged is supplied to indoor. Operate the ventilator in the ventilation via total heat exchanger in summer/winter when cool/heat operation is done.



#### Normal ventilation

Exhausts the polluted indoor-air directly without via the total heat

- Operate the ventilator in the normal ventilation in spring/autumn when the total heat exchanger is not required.



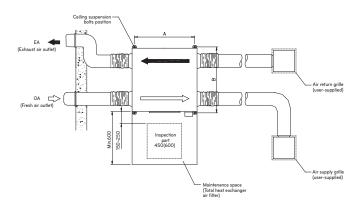


# **▲** CAUTION :

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

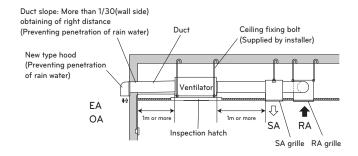
# **INSTALLATION**

# Capacity: 250 / 350 / 500 / 800 / 1000 CMH

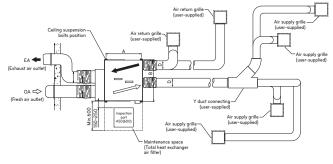


(Unit: mm)

Capacity	А	В
250 / 350 / 500	939	1 020
/ 800 / 1 000 CMH	1 026	1 263

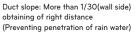


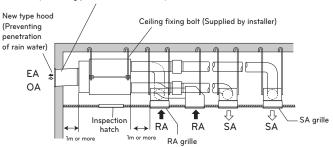
## Capacity: 1500 / 2000 CMH



(Unit: mm)

Capacity	А	В
1 500 / 2 000 CMH	1 031	1 288



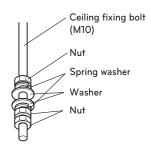


#### Method to connect power cord

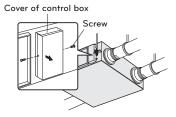
#### Assembly of washer, nut

Tighten the common washer and nut (more than 21mm for the outside diameter of M10, to the commercial ceiling fixing bolt (M10) as shown in the right figure.

- For the ceiling fixing bolt, perform work less than 50mm under the ceiling fixing bracket.

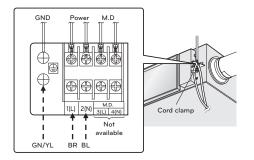


- 1 Release two screws and then open the cover of the control box.
  - With reference to the below wiring diagram, accurately connect the main power cords into the terminal block.



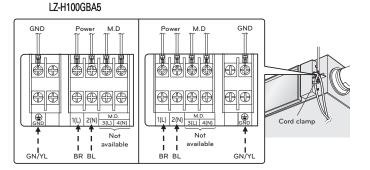
- 2 After inserting the power cord into the bushing, fully insert it into the terminal block for connection.
  - Fix the power cords with the clamp.
  - Make sure that the power cords may not be removed by pulling them.

# LZ-H050GBA2 / LZ-H080GBA2 / LZ-H100GBA2 / LZ-H150GBA2 / LZ-H200GBA2



LZ-H025GBA4 / LZ-H035GBA4 / LZ-H050GBA4 / LZ-H080GBA4 / LZ-H100GBA4 / LZ-H035GBA5 / LZ-H050GBA5 / LZ-H080GBA5 /

LZ-H150GBA4 / LZ-H200GBA4 LZ-H150GBA5 / LZ-H200GBA5



# **M** WARNING

This appliance must be properly grounded.



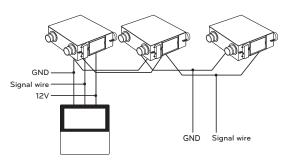
## ▲ CAUTION -

The power cord connected to the unit should be selected according to the following specifications.

Capacity	250 / 350 / 500 CMH	800 / 1 000 / 1 500 / 2 000 CMH	
Circuit Breaker	250 V / 5 A	250 V / 8 A	

## **Group control**

- 1 When installing more than 2 units of air conditioner to one wired remote controller, please connect as the right figure.
  - If it is not event communication indoor unit, set the unit as slave.
  - Check for event communication through the product manual.



When controlling multiple indoor units with event communication function with one remote controller, you must change the master/slave setting from the indoor unit.

- Alter the master/slave switch while power stays 'Off' and then turn the power 'On' after one minute from the alteration.
- For ceiling type cassette and duct product group, change the switch setting of the indoor PCB.



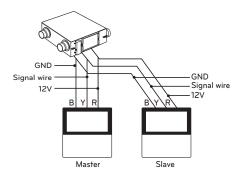


#1 switch Off: Master (Factory default setting) #1 switch On: Slave

- For wall-mount type and stand type product, change the master/slave setting with the wireless remote controller. (Refer to wireless remote controller manual for detail)
- \* When installing 2 remote controllers to one indoor unit with event communication function, set the master/slave of the remote controller. (Refer to remote controller master/slave selection)

When controlling the group, some functions excluding basic operation setting, fan level min/mid/max, remote controller lock setting and time setting may be limited.

- 2 When installing more than 2 wired remote controllers to one air conditioner, please connect as the right picture.
  - When installing more than 2 units of wired remote controller to one air conditioner, set one wired remote controller as master and the others all as slaves, as shown in the right picture.
  - You cannot control the group as shown in the right for some products.
  - Refer to the product manual for more detail.



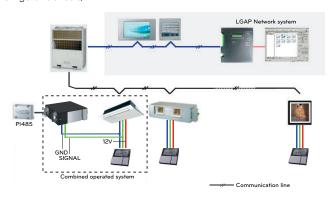
<When simultaneously connecting 2 sets of wired remote controller>

When controlling in groups, set the master/slaver of the remote controller. Refer to Installer setting section on how to set master/slave for more detail.

This unit can be used as part of the combined operation system used together with indoor units(Multi-V system air conditioners), or as an independent system for processing outside air.

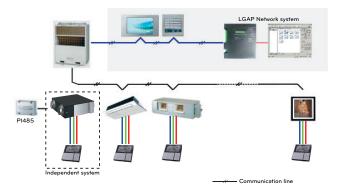
#### Combined operation system with Multi-V system

(connected with ventilation units and standard indoor units in a single refrigerant circuit)



#### Independent system

(connected only with a ventilation unit in a single refrigerant circuit)

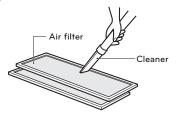


## Method to clean and replace each part

1 Cleaning of air filter

Clean once every 6 months.

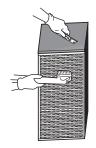
- Clean dirt from the air filter using a vacuum cleaner or wash with water. (if dirt is conspicuous, wash with a neutral detergent in lukewarm water)
- After washing with water, dry well in the shade. (Do not expose the air filter to direct sunlight or heat from a fire when drying it)
- If the air filter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



Air filter

Total heat exchanger

- Never wash the total heat exchanger with water.
- Consider replacing after two years from the date of purchase.
- Please inquire to the service center about replacement costs within two years from the date of purchase.
- For service, always contact the dealer or an authorized service center.

Insulation material of supply line shall be at least those of ordinary tough rubber sheathed. (code designation 60245 IEC 53)

#### Minimum cross-sectional area of conductors

Rated current of appliance A		ppliance	Nominal cross-sectional area mm²	
> 0.2 > 3 > 6	and and	≤ 0.2 ≤ 3 ≤ 6 < 10	Tinsel cord <sup>a</sup> 0.5 <sup>a</sup> 0.75 1.0	

\* a These cords may only be used if their length does not exceed 2 m between the point where the cord or cord guard enters the appliance and the entry to the plug.

NOTE: For supply cords supplied with multi-phase appliances, the nominal cross-sectional area of the conductors is based on the maximum cross-sectional area of the conductors per phase at the supply cord connection to the appliance terminals.

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Depending on products or models, actual importers may be limited to some subsidiaries. For EU-produced units. there is no applicable EU importer. / В зависимост от продуктите или моделите действителните вносители може да са ограничени до някои дъщерни дружества. За апарати, произведени в ЕС, няма приложим вносител в EC. / U zavisnosti od proizvoda ili modela, uvoznici mogu biti ograničeni na neka povezana društva. Za jedinice proizvedene u EU ne postoji važeći uvoznik iz EU. / U zavisnosti od proizvoda ili modela, uvoznici mogu biti ograničeni na određene podružnice. Za jedinice proizvedene u EU ne postoji EU uvoznik. / V závislosti na výrobcích nebo modelech mohou být aktuální dovozci omezeni na některé dceřiné společnosti. U výrobků vyráběných v EU není žádný relevantní dovozce do EU. / Afhængigt af produkter eller modeller kan de faktiske importører være begrænset til enkelte datterselskaber. For EU-fremstillede enheder er der ingen relevant EUimportør. / Je nach Produkt oder Modell können die tatsächlichen Importeure auf einige Tochtergesellschaften beschränkt sein. Für in der EU produzierte Geräte gibt es keinen anwendbaren EU-Importeur. / Ανάλογα με τα προϊόντα ή τα μοντέλα, οι πραγματικοί εισαγωγείς ενδέχεται να περιορίζονται σε ορισμένες θυγατρικές. Για μονάδες που παράγονται στην ΕΕ δεν υπάρχει ισχύων εισαγωγέας της ΕΕ. / Dependiendo de los productos o modelos, los importadores efectivos podrían quedar limitados a algunos subsidiarios. Para las unidades producidas en la UE, no hay ningún importador para la UE aplicable. / Sõltuvalt toodetest või mudelitest võivad tegelikud maaletoojad olla piiratud mõnede tütarettevõtetega. EL-is toodetud seadmete puhul ei ole kohaldatavat EL maaletoojat. / Tuotteista tai malleista riippuen todelliset maahantuojat voivat rajoittua muutamiin tytäryhtiöihin. EU:ssa valmistetuilla laitteilla ei ole sovellettavaa EU:n maahantuojaa. / Selon les produits ou les modèles, les importateurs effectifs peuvent être limités à certaines filiales. Pour les unités produites dans l'UE, il n'y a pas d'importateur applicable pour l'UE. / Ag brath ar tháirgí nó múnlaí, d'fhéadfaí go mbeadh iompórtálaithe iarmhír srianta go roinnt fochomhlachtaí. Maidir le aonaid déanta sa AE, níl iompórtálaí AE infheidhme. / Ovisno o proizvodima ili modelima uvoznici mogu biti ograničeni na neke podružnice. Za uređaje proizvedene u Europskoj uniji nije predviđena tvrtka za uvoz iz EU. / A termékektől vagy modellektől függően előfordulhat, hogy a tényleges importőrök egyes leányvállalatokra korlátozódnak. Az EU-ban gyártott készülékek esetében nincs vonatkozó európai uniós importőr. / Raunverulegir framleiðendur geta verið takmarkaðir við tiltekin dótturfélög, en það fer eftir vörum eða vörumódelum. Engin ESB innflytjandi er fyrir hluti sem eru framleiddir innan ESB. / A seconda dei prodotti o dei modelli, gli importatori effettivi potrebbero essere limitati ad alcune filiali. Per le unità prodotte nell'UE, non esiste un importatore UE applicabile. / Priklausomai nuo gaminiu ar modeliu, tikrieji importuotojai gali apsiriboti kai kuriomis dukterinėmis įmonėmis. ES pagamintiems vienetams nėra tinkamo ES importuotojo. / Atkarībā no produktiem vai modeļiem, faktiskie importētāji var būt dažādi meitasuzņēmumi. ES ražotām vienībām nav piemērojama ES importētāja. / Зависно од производите или моделите, актуелните увозници можеби се ограничени на некои подружници. За единиците произведени за ЕУ, нема применлив vвозник за ЕУ. /

Skont il-prodott jew il-mudell, I-importaturi attwali jistqħu jkunu limitati qħal certi sussidjarji. Għall-unitajiet prodotti fl-UE, m'hemmx importatur applikabbli tal-UE. / Afhankelijk van de producten of modellen, kunnen de eigenlijke importeurs beperkt zijn tot enkele dochterondernemingen. Voor in de EU geproduceerde eenheden is er geen toepasselijke EU-importeur. / Avhengig av produkter eller modeller, kan faktiske importører være begrenset til enkelte datterselskaper. Det er ingen gjeldende EU-importør for EU-produserte enheter. / W zależności od produktów lub modeli, rzeczywiści importerzy moga polegać na swoich podmiotach zależnych. W przypadku wyrobów produkowanych w UE nie ma odpowiedniego importera na region Unii. / Dependendo dos produtos ou modelos, os importadores existentes podem ser limitados a algumas filiais. Para as unidades produzidas na UE, não há nenhum importador da UE aplicável. / În funcție de produse sau modele, importatorii actuali ar putea fi limitați la anumite filiale. Pentru unitățile produse în UE, nu există niciun importator UE aplicabil. / V závislosti od výrobkov alebo modelov môžu byť skutoční dovozcovia obmedzení na niektoré dcérske spoločnosti. Pre zariadenia vyrobené v EÚ neexistuje žiadny príslušný dovozca do EÚ. / Odvisno od izdelkov ali modelov so lahko dejanski uvozniki omejeni na nekatere hčerinske družbe. Za enote, proizvedene v EU, ni ustreznega uvoznika iz EU. / Në varësi të produkteve ose modeleve, importuesit aktual mund të jenë të kufizuar vetëm në disa degë. Për njësitë e prodhuara në BE, nuk ka importues të zbatueshëm të BE-së. / U zavisnosti od proizvoda ili modela, stvarni uvoznici mogu biti ograničeni na neke podružnice. Za jedinice proizvedene u EU ne postoji merodavni EU uvoznik. / Beroende på produkter eller modeller kan faktiska importörer vara begränsade till vissa dotterbolag. För EUtillverkade enheter finns det ingen tillämplig EU-importör.

LG Electronics Deutschland GmbH

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ENGLISH	Single Contact Point	EU	Germany
ITALIANO	ALIANO Punto di contatto unico		Germania
ESPAÑOL	ESPAÑOL Punto de contacto único		Alemania
FRANÇAIS	FRANÇAIS Point de contact unique		Allemagne
DEUTSCH	Einheitliche Anlaufstelle	EU	Deutschland
ΕΛΛΗΝΙΚΆ	Ενιαίο σημείο επαφής	EE	Γερμανία
ČEŠTINA	Jednotné kontaktní místo	EU	Německo
NEDERLANDS	Eén enkel contactpunt	EU	Duitsland
POLSKI	Punkt kontaktowy	UE	Niemcy
LIMBA ROMÂNĂ	Punct unic de contact	UE	Germania
PORTUGUÊS	Ponto de contacto único	UE	Alemanha
MAGYAR	Egyetlen kapcsolattartó pont	EU	Németország
БЪЛГАРСКИ	Единна контактна точка	EC	Германия
SRPSKI	Jedinstvena kontaktna tačka	EU	Nemačka
HRVATSKI	Jedinstvena kontaktna točka	EU	Njemačka
SVENSKA	Enskild kontaktpunkt	EU	Tyskland
NORSK	Enkelt kontaktpunkt	EU	Tyskland
DANSK	Enkelt kontaktpunkt	EU	Tyskland
SLOVENČINA	Jednotné kontaktné miesto	ΕÚ	Nemecko
SLOVENŠČINA	Enotna kontaktna točka	EU	Nemčija
GAEILGE	Pointe Teagmhála Aonair	AE	an Ghearmáin
SHQIP	Pikë e vetme kontakti	BE	Gjermania
BOSANSKI	Jedinstvena kontaktna tačka	EU	Njemačka
EESTI KEEL Üks kontaktpunkt		EL	Saksamaa
LATVIEŠU VALODA	LATVIEŠU VALODA Vienotais kontaktpunkts		Vācija
LIETUVIŲ KALBA	Bendras kontaktas visiems	ES	Vokietija
MALTI	Punt ta' Kuntatt Uniku	UE	il-Ġermanja



Manufacturer : LG Electronics Inc.

84, Wanam-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, KOREA

UK Importer :

LG Electronics U.K. Ltd

Velocity 2, Brooklands Drive, Weybridge, KT13 OSL

## Eco design requirement

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