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OWNER'S & INSTALLATION MANUAL

AIR CONDITIONER

Please read this installation manual completely before installing the product.

Original instruction (R410A/R32)

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

MFL71961001
Rev.00_120722

www.lg.com

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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. (for 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

- Compliance with national gas regulations shall be observed.
- Ask the dealer or an authorized technician to install the air conditioner.
  - Improper installation by the user may result in water leakage, electric shock, or fire.
- This appliance must be properly grounded.
  - It may result in fire or electric shock.
- Ducts connected to an appliance shall not contain an ignition source. (for R32)

- Do not install the product on a non-parallel or defective installation stand.
  - It may cause injury, accident, or damage to the product.
- Ventilate before operating the air conditioner when gas leaked out.
  - It may cause explosion, fire, and burn.
- 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)
- The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater.)
- Keep any required ventilation openings clear of obstruction.
- Mechanical connections shall be accessible for maintenance purposes.
- Connect the water for filling or refilling the heating system as specified by EN 1717/EN 61770 to avoid contamination of drinking water by return flow.
- 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 Centre.
  - There is risk of fire or electric shock.
- Take care to ensure that nobody could step on or fall onto the unit.
  - This could result in personal injury and product damage.
- Take care to ensure that power cable could not be pulled out or damaged during operation.
  - There is risk of fire or electric shock.
- When mechanical connectors are reused indoors, sealing parts shall be renewed. (for R32)
- When flared joints are reused indoors, the flare part shall be re-fabricated. (for R32)
- Do the Periodic (more than once/year) cleaning of the dust or salt particles stuck on the heat exchanger by using water.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- Do not pierce or burn refrigerant cycle part.

- Be aware that refrigerants may not contain an odour.

⚠ CAUTION

Installation

- Always check for gas (refrigerant) leakage after installation or repair of product.
  - Low refrigerant levels may cause product malfunction.
- Do not install the product where the noise or hot air from the outdoor unit could damage the neighbourhoods.
  - It may cause a problem for your neighbours.
- Keep level even when installing the product.
  - To avoid vibration or water leakage.
- Keep the unit away from children. The heat exchanger is very sharp.
  - It can cause the injury, such as cutting the finger. Also the damaged fin may result in degradation of capacity.
- 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)
- The appliance shall be stored so as to prevent mechanical damage from occurring.
- Refrigerant tubing shall be protected or enclosed to avoid damage.
- Flexible refrigerant connectors (such as connecting lines between the indoor and outdoor unit) that may be displaced during normal operations shall be protected against mechanical damage.
- The installation of pipe-work shall be kept to a minimum.
- Pipe-work shall be protected from physical damage.
- A brazed, welded, or mechanical connection shall be made before opening the valves to permit refrigerant to flow between the refrigerating system parts.
- Dismantling the unit, treatment of the refrigerant oil and eventual parts should be done in accordance with local and national standards.
- Means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.
- Do not install the unit in potentially explosive atmospheres.

Operation

- 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 heat and cause fire.
- Be very careful about product transportation.
  - Two or more people must lift and transport the product if it weighs more than 20 kg.
  - Some products use PP bands for packaging. Do not use any PP bands for a means of transportation. It is dangerous.
  - Do not touch the heat exchanger fins. Doing so may cut your fingers.
  - When transporting the outdoor unit, suspending it at the specified positions on the unit base. Also support the outdoor unit at four points so that it cannot slip sideways.
- 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.
- Use a firm stool or ladder when cleaning or maintaining the air conditioner.
  - Be careful and avoid personal injury.
- 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 be supervised to ensure that they do not play with the appliance.
- 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.
- Appliance shall be disconnected from its power source during service and when replacing parts.
- 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.

- 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)

Installation

- Installation, repairs or breakdown by unqualified persons can result in hazards to you and others.
- The information contained in the 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 carefully read and follow all instructions in this manual can result in equipment malfunction, property damage, personal injury and/or death.
- Compliance with national gas regulations shall be observed.
- Have all electric work done by a licensed electrician according to "Electric Facility Engineering Standard" and "Interior Wire Regulations" and the instructions given in this manual and always use a special circuit.
  - If the power source capacity is inadequate or electric work is performed improperly, electric shock or fire may result.
- Always install a dedicated circuit and breaker.
  - Improper wiring or installation may cause fire or electric shock.
- For re-installation of the installed product, always contact a dealer or an Authorized Service Centre.
  - There is risk of fire, electric shock, explosion, or injury.
- Do not install, remove, or re-install the unit by yourself (customer).
  - There is risk of fire, electric shock, explosion, or injury.
- Do not store or use flammable gas or combustibles near the air conditioner.
  - There is risk of fire or product malfunction.
- Use the correctly rated breaker or fuse.
  - There is risk of fire or electric shock.
- Prepare for strong wind or earthquake and install the unit at the specified place.
  - Improper installation may cause the unit to topple and result in injury.
- Use a vacuum pump or Inert(nitrogen) gas when doing leakage test or air purge. Do not compress air or Oxygen and do not use Flammable gases.
  - There is the risk of death, injury, fire or explosion.
- When installing and moving the air conditioner to another site, do not charge it with a different refrigerant from the refrigerant specified on the unit.
  - If a different refrigerant or air is mixed with the original refrigerant, the refrigerant cycle may malfunction and the unit may be damaged.
- Do not reconstruct to change the settings of the protection devices.
  - If the pressure switch, thermal switch, or other protection device is shorted and operated forcibly, or parts other than those specified by LGE are used, fire or explosion may result.
- Securely install the cover of control box and the panel.
  - If the cover and panel are not installed securely, dust or water may enter the outdoor unit and fire or electric shock may result.
- If the air conditioner is installed in a small room, measures must be taken to prevent the refrigerant concentration from exceeding the safety limit when the refrigerant leaks.
  - Consult the dealer regarding the appropriate measures to prevent the safety limit from being exceeded. Should the refrigerant leak and cause the safety limit to be exceeded, hazards due to lack of oxygen in the room could result.
- To prevent the mixing of different types of refrigerants, be sure to check the type of refrigerant used in the outdoor unit.
  - The mixing of refrigerants could lead to malfunction.

Operation

- Do not damage or use an unspecified power cord.
  - There is risk of fire, electric shock, explosion, or injury.
- Use a dedicated outlet for this appliance.
  - There is risk of fire or electrical shock.

- Be cautious that water could not enter the product.
  - There is risk of fire, electric shock, or product damage.
- Do not touch the power switch with wet hands.
  - There is risk of fire, electric shock, explosion, or injury.
- Be cautious not to touch the sharp edges when installing.
  - It may cause injury.
- Do not open the inlet grille of the product during operation. (Do not touch the electrostatic filter, if the unit is so equipped.)
  - There is risk of physical injury, electric shock, or product malfunction.
- 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 where combustible gas may leak.
  - If the gas leaks and accumulates around the unit, explosion may result.
- Use power cables of sufficient current carrying capacity and rating.
  - Cables that are too small may leak, generate heat, and cause fire.
- Do not use the product for special purposes, such as preserving foods, works of art, etc. It is a consumer air conditioner, not a precision refrigeration system.
  - There is risk of damage or loss of property.
- When installing the unit in a hospital, communication station, or similar place, provide sufficient protection against noise.
  - The inverter equipment, private power generator, high-frequency medical equipment, or radio communication equipment may cause the air conditioner to operate erroneously, or fail to operate. On the other hand, the air conditioner may affect such equipment by creating noise that disturbs medical treatment or image broadcasting.
- Do not install the product where it is 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 insert a drain hose in drain or soil pipe.
  - Bad smells can occur and it results in corrosion of a heat exchanger or pipe.
- When using an auxiliary heater, refer to the installation manual of the product for installation and details.
- Do not use the air conditioner in special environments.
  - Oil, steam, sulfuric smoke, etc. can significantly reduce the performance of the air conditioner or damage its parts.
- Do not block the inlet or outlet.
  - It may cause product malfunction or accident.
- Be sure the installation area does not deteriorate over time.
  - If the base collapses, the air conditioner could fall with it, causing property damage, product malfunction, or personal injury.
- Install and insulate the drain hose to ensure that water is drained away properly based on the installation manual.
  - A bad connection may cause water leakage.
- Safely dispose of the packing materials.
  - Packing materials, such as nails and other metal or wooden parts, may cause stabs or other injuries.
  - Tear apart and throw away plastic packaging bags so that children may not play with them. If children play with a plastic bag which was not torn apart, they face the risk of suffocation.
- Turn on the power at least 6 hours before starting operation.
  - Starting operation immediately after turning on the main power switch can result in severe damage to internal parts. Keep the power switch turned on during the operational season.
- Do not operate the air conditioner with the panels or guards removed.
  - Rotating, hot, or high-voltage parts can cause injuries.
- Do not directly turn off the main power switch after stopping operation.
  - Wait at least 5 minutes before turning off the main power switch. Otherwise it may result in water leakage or other problems.
- Auto-addressing should be done in condition of connecting the power of all indoor and outdoor units. Auto-addressing should also be done in case of changing the indoor unit PCB.
- Do not insert hands or other objects through the air inlet or outlet while the air conditioner is plugged in.
  - There are sharp and moving parts that could cause personal injury.
- Children should be supervised to ensure that they do not play with the appliance.

Airborne Noise Emission

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

Limiting concentration

Limiting concentration: 0.44 kg/m^3(R410A)

$$\text{Refrigerant concentration } (kg/m^3) = \frac{\text{Total amount of replenished refrigerant in refrigerant facility } (kg)}{\text{Capacity of smallest room where indoor unit is installed } (m^3)}$$

Product information

- Product Name : Air conditioner
- Model Name :

Product Sales Name	Model Factory Name
ARNa***Gxy# series a = U(DC Inverter and H/P and C/O) , H(Hydro Kit) x = Chassis Name y = Combinations of functions *** = Numeric; (Cooling capacity) # = Numeric; (Series No)	

- Max Allowable water temperature
  High side : 80 °C / Low side : 10 °C
  (ARNH***Gxy# series)
- Allowable water pressure
  ~ 0.98 MPa (0.3~10 kg f/cm^2)
  (ARNH***Gxy# series)

Maintenance and Service

⚠ CAUTION

Before performing any maintenance, turn off the main power to the system.

Never use any of the followings:

- Water hotter than 40 °C could cause deformation and/or discolouration.
- Volatile substances could damage the surfaces of the air conditioner.

INSTALLATION SPACE

- There should not be any heat source or steam near the unit.
- There should not be any obstacles to the air circulation.
- A place where air circulation in the room will be good.
- A place where drainage can be easily obtained.
- A place where noise prevention is taken into consideration.
- Do not install the unit near the door way.
- Ensure the spaces indicated by arrows from the wall, ceiling, or other obstacles.
- The indoor unit must have the maintenance space.
- For more information, refer to installation manual.

⚠ CAUTION

In case that the unit is installed near the sea, the installation parts may be corroded by salt. The installation parts (and the unit) should be taken appropriate anti-corrosion measures.

LIFTING METHOD

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

⚠ CAUTION

- Use 2 belts of at least longer than 8 m.
- Place extra cloth or boards in the locations where the casing comes in contact with the sling to prevent damage.
- Hoist the unit making sure it is being lifted at its center of gravity.

ELECTRICAL WIRING

- Follow ordinance of your governmental organization for technical standard related to electrical equipment, wiring regulations and guidance of each electric power company.

⚠ WARNING

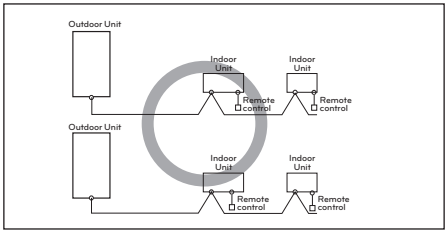
Be sure to have authorized electrical engineers do the electric work using special circuits in accordance with regulations and installation manual.
If power supply circuit has a lack of capacity or electric work deficiency, it may cause an electric shock or fire.

- Install the Outdoor Unit communication cable away from the power source wiring so that it is not affected by electric noise from the power source. (Do not run it through the same conduit.)
- Be sure to provide designated grounding work to Outdoor Unit.

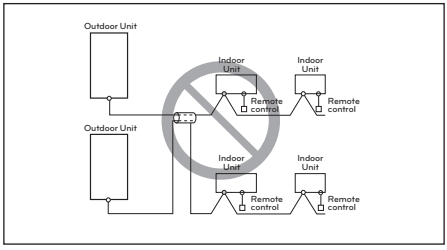
⚠ CAUTION

Be sure to correct the outdoor unit to earth. Do not connect ground wire to any gas pipe, liquid pipe, lightening rod or telephone earth line. If earth is incomplete, it may cause an electric shock.

- Give some allowance to wiring for electrical part box of Indoor and Outdoor Units, because the box is sometimes removed at the time of service work.
- Never connect the main power source to terminal block of communication cable. If connected, electrical parts will be burnt out.
- Use 2-core shield cable for communication cable.(◯ mark in the figure below) If communication cable of different systems are wired with the same multiple core cable, the resultant poor transmitting and receiving will cause erroneous operations. (⃠ mark in the figure below)
- Only the communication cable specified should be connected to the terminal block for Outdoor Unit communication.
- Supply line of appliances shall not be lighter than polychloroprene sheathed. (code designation 60245 IEC 57)



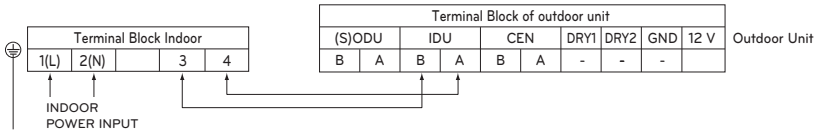
2-Core Shield Cable



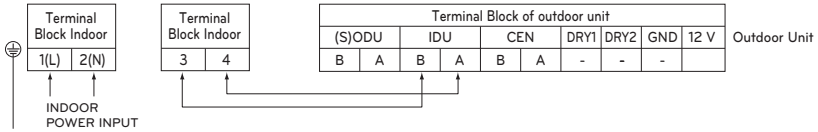
Multi-Core Cable

ELECTRIC WIRING WORK

• Type 1



• Type 2



The feature may be changed according to the type of model.

⚠ CAUTION

- Use the 2-core shield cables for communication cables. Never use them together with power cables.
- The conductive shielding layer of cable should be grounded to the metal part of both units.
- Never use multi-core cable.
- As this unit is equipped with an inverter, to install a phase leading capacitor not only will deteriorate power factor improvement effect, but also may cause capacitor abnormal heating. Therefore, never install a phase leading capacitor.
- Make sure that the power unbalance ratio is not greater than 2 %. If it is greater the units lifespan will be reduced.

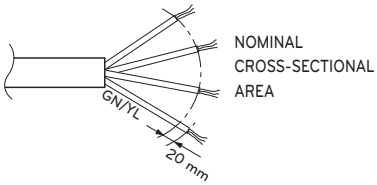
Electric Characteristics

- Recommended circuit breaker is ELCB
- MFA is used to select the circuit breaker and ground fault circuit interrupter
- Refer to the PDB about detail electric characteristics

ELCB : Earth Leakage Circuit Breaker
MFA : Maximum Fuse Amperes(A)
PDB : Product Data Book

⚠ CAUTION

- The connecting cable connected to the indoor and outdoor unit should be complied with the following specifications (Rubber insulation, type H05RN-F approved by HAR or SAA).

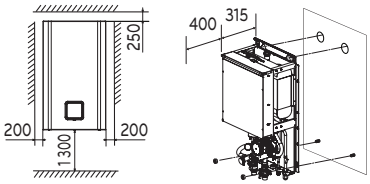


Rated current of appliance (A)	Nominal cross-sectional area (mm^2)
≤ 0.2	Tinsel cord
> 0.2 and ≤ 3	0.5
> 3 and ≤ 6	0.75
> 6 and ≤ 10	1.0 (0.75)
> 10 and ≤ 16	1.5 (1.0)
> 16 and ≤ 25	2.5
> 25 and ≤ 32	4
> 32 and ≤ 40	6
> 40 and ≤ 63	10

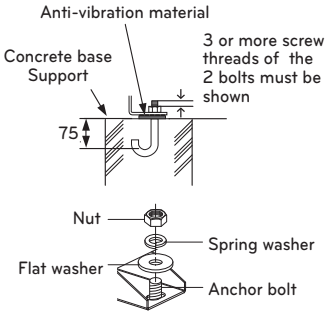
NOTE For **supply cords** supplied with multi-phase appliances, the nominal cross-sectional area of the conductors is based on the maximum cross-sectional area of the conductors per phase at the **supply cord** connection to the appliance terminals.

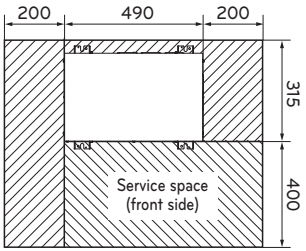
INSTALLATION PLACES

Wall Mounted
(Medium Temperature)



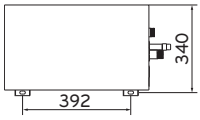
Minimum service space (unit: mm)



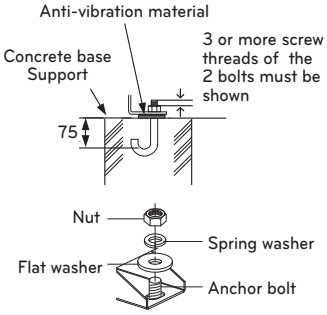


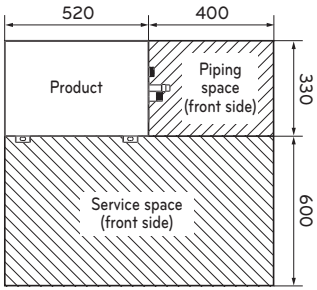
(unit: mm)

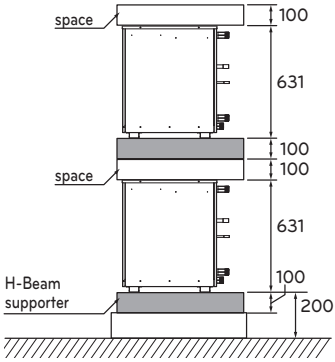
Floor Standing
(Medium Temperature)



(unit: mm)

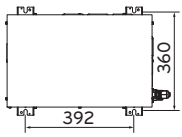




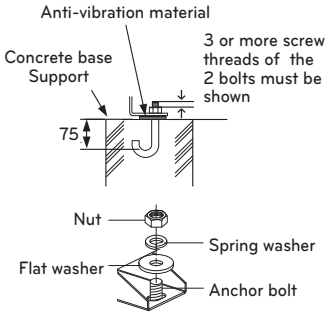


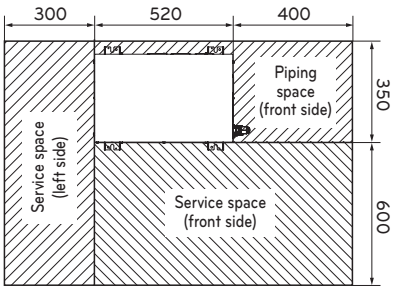
(unit: mm)

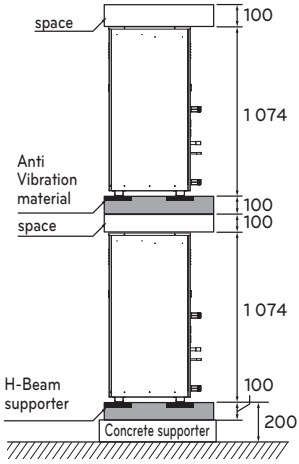
Floor Standing (High Temperature)



(unit: mm)





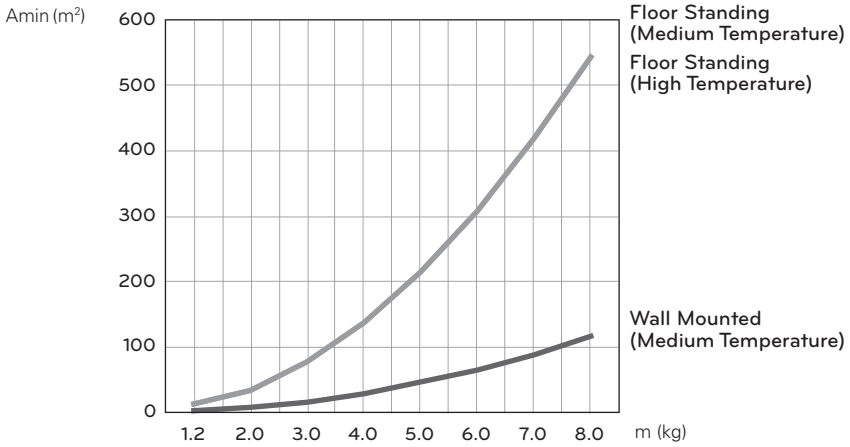


(unit: mm)

- Wall Mounted(Medium Temperature) : ARNH**GK1A4
- Floor Standing(Medium Temperature) : ARNH**GK2A4
- Floor Standing(High Temperature) : ARNH**GK3A4

Minimum floor area (for R32)

- The appliance shall be installed, operated and stored in a room with a floor area larger than the minimum area.
- Use the graph of table to determine the minimum area.



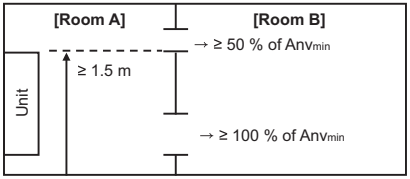
- m : Total refrigerant amount in the system
- Total refrigerant amount : factory refrigerant charge + additional refrigerant amount
- Amin : minimum area for installation

	Wall Mounted	Floor Standing
	(h0 = 1.3)	(h0 = 0.6)
m (kg)	A_{min} (m²)	
< 1.224	-	-
1.224	2.74	12.86
1.40	3.58	16.82
1.60	4.68	21.97
1.80	5.92	27.80
2.00	7.31	34.32
2.20	8.85	41.53
2.40	10.53	49.42
2.60	12.36	58.00
2.80	14.33	67.27
3.00	16.45	77.22
3.20	18.72	87.86
3.40	21.13	99.19
3.60	23.69	111.20
3.80	26.39	123.90
4.00	29.24	137.29
4.20	32.24	151.36
4.40	35.39	166.12
4.60	38.68	181.56

	Wall Mounted	Floor Standing
	(h0 = 1.3)	(h0 = 0.6)
m (kg)	A_{min} (m²)	
4.80	42.11	197.70
5.00	45.70	214.51
5.20	49.42	232.02
5.40	53.30	250.21
5.60	57.32	269.09
5.80	61.49	288.65
6.00	65.80	308.90
6.20	70.26	329.84
6.40	74.87	351.46
6.60	79.62	373.77
6.80	84.52	396.76
7.00	89.56	420.45
7.20	94.75	444.81
7.40	100.09	469.87
7.60	105.57	495.61
7.80	111.20	522.04
7.956	115.70	543.13
39 > m > 7.956	Ventilation	Ventilation

If this product is installed in the a room smaller than minimum floor area, there shall be continuously operated mechanical ventilation system or natural ventilation openings (for R32).

Natural ventilation



The floor area of "Room A + Room B" is considered as floor area instead of "room A" for complying with minimum floor area "A_{min}"

- Openings are permanent openings which cannot be closed.

Bottom opening:

- The area of any openings above 300 mm from the floor shall not be considered in determining compliance with Anv_{min}.
- At least 50 % of the required opening area Anv_{min} shall be below 200 mm from the floor.
- The bottom of the lowest openings shall not be higher than 100 mm from the floor.
- If the openings starts from the floor, the height must be higher than 20 mm.

Top opening:

- The total size of the top opening shall not be less than 50 % of minimum opening area for Anv_{min} and shall be at least 1.5 m above the floor.

- Anv_{min} : the minimum opening for natural ventilation

Wall Mounted (Medium temperature)			
m (kg)	Anv_{min} (cm^2)	m (kg)	Anv_{min} (cm^2)
1.224	99.2	4.8	660.2
1.4	126.8	5.0	691.6
1.6	158.2	5.2	723.0
1.8	189.6	5.4	754.3
2.0	220.9	5.6	785.7
2.2	252.3	5.8	817.1
2.4	283.7	6.0	848.5
2.6	315.1	6.2	879.8
2.8	346.4	6.4	911.2
3.0	377.8	6.6	942.6
3.2	409.2	6.8	974.0
3.4	440.6	7.0	1005.3
3.6	471.9	7.2	1036.7
3.8	503.3	7.4	1068.1
4.0	534.7	7.6	1099.5
4.2	566.1	7.8	1130.9
4.4	597.5	8.0	1162.2
4.6	628.8		

Floor Standing (Medium temperature)			
m (kg)	Anv_{min} (cm^2)	m (kg)	Anv_{min} (cm^2)
1.224	225.6	4.8	1114.7
1.4	269.4	5.0	1164.4
1.6	319.1	5.2	1214.2
1.8	368.8	5.4	1263.9
2.0	418.5	5.6	1313.6
2.2	468.3	5.8	1363.3
2.4	518.0	6.0	1413.1
2.6	567.7	6.2	1462.8
2.8	617.4	6.4	1512.5
3.0	667.2	6.6	1562.2
3.2	716.9	6.8	1612.0
3.4	766.6	7.0	1661.7
3.6	816.4	7.2	1711.4
3.8	866.1	7.4	1761.1
4.0	915.8	7.6	1810.9
4.2	965.5	7.8	1860.6
4.4	1015.3	8.0	1910.3
4.6	1065.0		

Floor Standing (High Temperature)			
m (kg)	Anv_{min} (cm^2)	m (kg)	Anv_{min} (cm^2)
1.224	229.4	4.8	1187.4
1.4	276.6	5.0	1241.0
1.6	330.2	5.2	1294.5
1.8	383.7	5.4	1348.1
2.0	437.3	5.6	1401.7
2.2	490.9	5.8	1455.3
2.4	544.5	6.0	1508.9
2.6	598.0	6.2	1562.4
2.8	651.6	6.4	1616.0
3.0	705.2	6.6	1669.6
3.2	758.8	6.8	1723.2
3.4	812.4	7.0	1776.7
3.6	865.9	7.2	1830.3
3.8	919.5	7.4	1883.9
4.0	973.1	7.6	1937.5
4.2	1026.7	7.8	1991.0
4.4	1080.2	8.0	2044.6
4.6	1133.8		

- Wall Mounted(Medium Temperature) : ARNH**GK1A4
- Floor Standing(Medium Temperature) : ARNH**GK2A4
- Floor Standing(High Temperature) : ARNH**GK3A4

Mechanical ventilation

If there is a mechanical ventilation system that satisfies with minimum air flow, a product can be installed in the room smaller than the minimum floor area.

• The room shall comply with machinery room's requirements of ISO 5149.

m (kg)	min.air flow (m^3/h)
<1.224	-
1.224	57.2
1.4	62.5
1.6	68.4
1.8	73.9
2.0	79.3
2.2	84.5
2.4	89.6
2.6	94.5
2.8	99.3
3.0	103.9
3.2	108.5
3.4	113.0
3.6	117.4
3.8	121.7
4.0	125.9
4.2	130.1
4.4	134.2

m (kg)	min.air flow (m^3/h)
4.6	138.2
4.8	142.2
5.0	146.1
5.2	150.0
5.4	153.8
5.6	157.6
5.8	161.3
6.0	165.0
6.2	168.6
6.4	172.2
6.6	175.8
6.8	179.3
7.0	182.8
7.2	186.3
7.4	189.7
7.6	193.2
7.8	196.5

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LG Electronics España S.A.U.	Calle Chile 1, 28290, Las Rozas, Madrid, Spain
LG Electronics Portugal S.A.	Taguspark, Av. Jacques Delors 3, Edifício Inovacao I, Corpo 1, 2740-122, Porto Salvo, Portugal
LG Electronics Hellas S.A.	Ethnarhou Makariou str. 1, 17501, Delta Paleo Faliro, Greece
LG Electronics Italia S.p.A.	Via Aldo Rossi 4, 20149, Milan, Italy
LG Electronics Latvia SIA	Gustava Zemgala gatve 74A, Rīga, LV-1039, Latvia
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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