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LG

**MULTI V™**

**Outdoor Unit**

**OWNERS MANUAL**

**MODELS:** ARUN50LT2, ARUN60LT2, ARUN80LT2, ARUN100LT2, ARUN120LT2  
ARUN140LT2, ARUN160LT2, ARUV50LT2, ARUV60LT2, ARUV80LT2  
ARUV100LT2, ARUV120LT2, ARUV140LT2, ARUV160LT2  
ARUV80LT2E, ARUV100LT2E, ARUV120LT2E, ARUV140LT2E, ARUV160LT2E  
ARUB80BT2, ARUB100BT2, ARUB120BT2  
ARUN80BT2, ARUN100BT2, ARUN120BT2  
ARUV80BT2, ARUV100BT2, ARUV120BT2  
ARUV80BT2E, ARUV100BT2E, ARUV120BT2E  
ARUN80DT2, ARUN100DT2, ARUN120DT2, ARUN140DT2, ARUN160DT2  
ARUV80DT2, ARUV100DT2, ARUV120DT2, ARUV140DT2, ARUV160DT2  
ARUV80DT2E, ARUV100DT2E, ARUV120DT2E, ARUV140DT2E, ARUV160DT2E  
ARUB80LT2, ARUB100LT2, ARUB120LT2, ARUB140LT2, ARUB160LT2  
ARUB80DT2, ARUB100DT2, ARUB120DT2, ARUB140DT2, ARUB160DT2  
ARUN40GS2, ARUN50GS2, ARUN60GS2, ARUV40GS2, ARUV50GS2,  
ARUV60GS2, ARUN40LS2, ARUN50LS2, ARUN60LS2  
ARUN50LR2, ARUN50LL2, ARUN60LR2, ARUN60LL2, ARUN80LR2, ARUN80LL2

#### IMPORTANT

- Please read this installation manual completely before installing the product.
- Installation work must be performed in accordance with the national wiring standards by authorized personnel only.
- Please retain this installation manual for future reference after reading it thoroughly.

ENGLISH

ESPAÑOL

PORTUGUESE

# 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 to properties only.

■ 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>

## ⚠ WARNING

### ■ Installation

**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 ground the product.**

- There is risk of fire or electric shock.

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

- 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 failure of product.

**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.

**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.

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

- Improper wiring or installation may cause 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.

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

- There is risk of fire or electric shock.

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

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

**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.

**Ventilate before operating air conditioner when gas leaked out.**

- It may cause explosion, fire, and burn.

**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.

**Don't use the existing manifold gage for R22 refrigerant.**

- Use the manifold gage for high pressure (R410A) as possible as for stable refrigerant filling.

**Don't mix and use the R22 pipe and the installation appliances that were used until now**

- Mixing the oil of R22 and R410A may cause failure of the unit due to hydrolysis.

## ■ 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.

**Take care so that children should not randomly operate the wire remote control for play.**

- Frequent conversion to cold or heat mode may cause failure of the unit.

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

- There is risk of fire or electric shock.

**Be cautious not to touch the sharp edges when installing.**

- It may cause injury.

**Take care to ensure that nobody could step on or fall onto the outdoor unit.**

- This could result in personal injury and product damage.

**Do not open the inlet grill 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 failure.

 **CAUTION**

■ **Installation**

**Always check for gas (refrigerant) leakage after installation or repair of product.**

- Low refrigerant levels may cause failure of product.

**Keep level even when installing the product.**

- To avoid vibration or water leakage.

**Use power cables of sufficient current carrying capacity and rating.**

- Cables that are too small may leak, generate heat, and cause a fire.

**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.

**Do not install the product where the noise or hot air from the outdoor unit could damage the neighborhoods.**

- It may cause a problem for your neighbors.

**Do not install the unit where combustible gas may leak.**

- If the gas leaks and accumulates around the unit, an explosion may result.

**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.

■ **Operation**

**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.

**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 a fire.

**Do not block the inlet or outlet.**

- It may cause failure of appliance or accident.

**Be sure the installation area does not deteriorate with age.**

- If the base collapses, the air conditioner could fall with it, causing property damage, product failure, and 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.

**Be very careful about product transportation.**

- Only one person should not carry 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.

**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.

**Do not touch any of the refrigerant piping during and after operation.**

- It can cause a burn or frostbite.

**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.

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

- Be careful and avoid personal injury.

**Avoid a place where rain may enter since the HR unit is for indoor**

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

**Turn on the power at least 6 hours before starting operation.(In case of outdoor temperature below 10°C)**

- 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.

**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.

**Install the HR unit at a place in which it is not affected by operation mode changing noise.**

- Installation within cell such as meeting room etc, may disturb business due to noise.



LG ELECTRONICS MEXICO, S.A. DE C.V.  
SOR JUANA INES DE LA CRUZ No. 555, SAN LORENZO C.P. 54033  
TLALNEPANTLA, EDO. DE MEXICO  
TEL. 01800-3471919  
FAX. 01800-3471918

ELECTRICAL SPECIFICATIONS

- 220V 3~ 60Hz

**ARUB80BT2, ARUB100BT2, ARUB120BT2**  
**ARUN80BT2, ARUN100BT2, ARUN120BT2**  
**ARUV80BT2, ARUV100BT2, ARUV120BT2**  
**ARUV80BT2E, ARUV100BT2E, ARUV120BT2E**

- 380V 3N~ 60Hz

**ARUN50LT2, ARUN60LT2, ARUN80LT2, ARUN100LT2, ARUN120LT2**  
**ARUN140LT2, ARUN160LT2, ARUV50LT2, ARUV60LT2, ARUV80LT2**  
**ARUV100LT2, ARUV120LT2, ARUV140LT2, ARUV160LT2**  
**ARUV80LT2E, ARUV100LT2E, ARUV120LT2E, ARUV140LT2E, ARUV160LT2E**  
**ARUN40GS2, ARUN50GS2, ARUN60GS2, ARUV40GS2, ARUV50GS2,**  
**ARUV60GS2, ARUN40LS2, ARUN50LS2, ARUN60LS2**  
**ARUN50LR2, ARUN50LL2, ARUN60LR2, ARUN60LL2, ARUN80LR2, ARUN80LL2**

- 460V 3~ 60HZ

**ARUN80DT2, ARUN100DT2, ARUN120DT2, ARUN140DT2, ARUN160DT2**  
**ARUV80DT2, ARUV100DT2, ARUV120DT2, ARUV140DT2, ARUV160DT2**  
**ARUB80DT2, ARUB100DT2, ARUB120DT2, ARUB140DT2, ARUB160DT2**  
**ARUV80DT2E, ARUV100DT2E, ARUV120DT2E, ARUV140DT2E, ARUV160DT2E**

