



OWNER'S MANUAL

AIR CONDITIONER



Read this owner's manual thoroughly before operating the appliance and keep it handy for reference at all times.

TYPE: Fixed Speed Duct

ENGLISH



CAD66PR03301
Rev. 03_040825

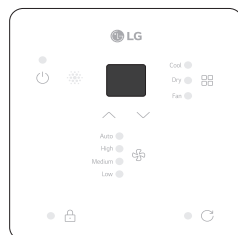
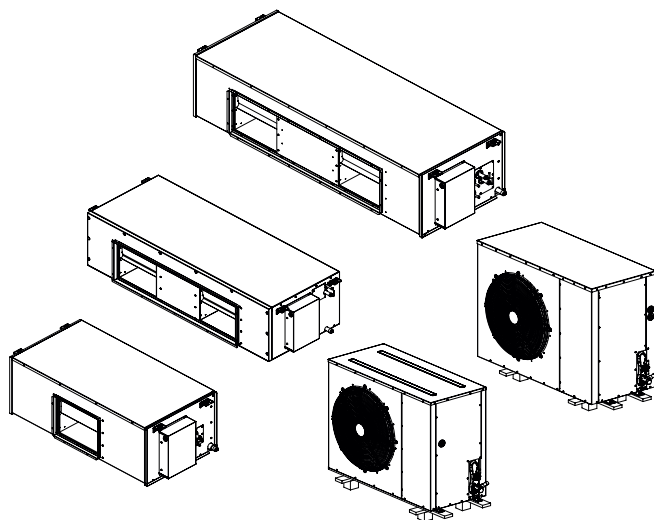
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Operating Instructions

A. HIGH STATIC PRESSURE DUCTED TYPE

For Refrigerant R-410A



Model No.

Indoor Unit

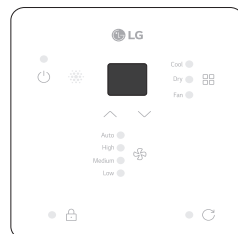
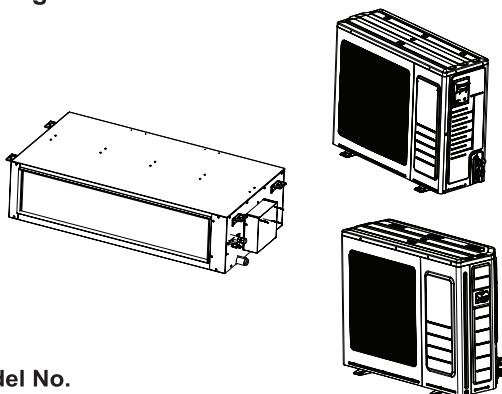
ABNC66LA
ABNC102LA
ABNC132LA

Outdoor Unit

ABUC66LA
ABUC102LA
ABUC132LA x 2

B. MID STATIC PRESSURE DUCTED TYPE

For Refrigerant R-32



Model No.

Indoor Unit

ZBNC36GA
ZBNC48LA

Outdoor Unit

ZBUC36GA
ZBUC48LA

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NOTE:-

The illustrations in this manual are for explanation purposes only and may differ from the actual unit. They are subject to change without notice for future improvement.

2. SAFETY INSTRUCTIONS

READ ALL INSTRUCTIONS BEFORE USE

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.

Safety Messages

- 

This symbol is displayed to indicate matters and operations that can cause risk.
Read the text 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 injuries or death.
- 

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

Notes for Flammable Refrigerant

The following symbols are displayed on units.

- 

This symbol indicates that this appliance uses a flammable refrigerant. If the refrigerant is leaked and exposed to an external ignition source, there is a risk of fire.
- 

This symbol indicates that the Owner's Manual should be read carefully.
- 

This symbol indicates that service personnel should be handling this equipment with reference to the Installation Manual.
- 

This symbol indicates that information is available in the Owner's Manual or Installation Manual.

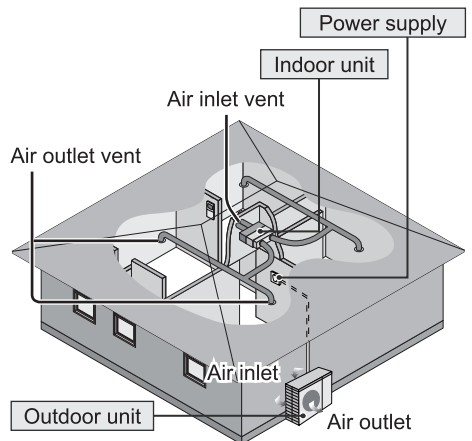
The instructions to be followed are classified by the following symbols:



This symbol denotes an action that is **PROHIBITED**.



These symbols denote actions **COMPULSORY**.



WARNING INSTRUCTIONS

WARNING

- To reduce the risk of explosion, fire, death, electric shock, injury or scalding to persons when using this product, follow basic precautions, including the following:
-

Technical Safety

- 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.
- Installation or repairs made by unauthorized persons can pose hazards to you and others.
- The information contained in the manual is intended for use by a qualified service technician who is familiar with the safety procedures and equipped with the proper tools and test instruments.
- Failure to read and follow all instructions in this manual can result in equipment malfunction, property damage, personal injury and/or death.
- The refrigerant and insulation blowing gas used in the appliance require special disposal procedures. Consult a service agent or a similarly qualified person before disposing of them.
- When the power cord is to be replaced, the replacement work shall be performed by authorized personnel using only genuine replacement parts.
- If the supply cord is damaged, it must be replaced by the manufacturer or its service agents or a similarly qualified person in order to avoid a hazard.
- The appliance shall be installed in accordance with national wiring regulations.
- This appliance must be properly grounded.
- Do not cut or remove the grounding prong from the power plug.
- Attaching the earth wire to the power outlet cover screw does not ground the appliance unless the cover screw is metal, uninsulated, and the power outlet is grounded through house wiring.
- If you have any doubt whether the air conditioner is properly grounded, have the power outlet and circuit checked by a qualified electrician.

Installation

- Contact an authorized service centre when installing or relocating the air conditioner.
- Contact the dealer, seller, qualified electrician or authorized service centre for cleaning or maintenance the air conditioner.
- Do not install, remove, or re-install the unit by yourself (customer). Installation or repairs done by unauthorized persons can pose hazards to you and others.
- For electrical work, contact the dealer, seller, a qualified electrician or an authorized service centre.
- Do not attempt to do electrical work or grounding work unless you are licensed to do so. Consult with the dealer for electrical work and grounding work.
- Do not install the product on a defective installation stand.
- Be sure the installation area does not deteriorate with age.

-
- Be sure to only use accessories made by LG which are specifically designed for use with the equipment and have them installed by a professional.
 - Never install the outdoor unit on a moving base or a place from where it can fall down.
 - Do not install the unit in potentially explosive atmospheres.
 - Do not install the air conditioner in a place where flammable liquids or gases such as gasoline, propane or paint thinner are stored.
 - Install the panel and the cover of the control box safely.
 - Install a dedicated electric outlet and earth leakage breaker before using the appliance.
 - Use a standard circuit breaker and fuse that conform to the rating of the air conditioner.
 - Do not use a multiple socket, extension power cable or adapter with this appliance.
 - The indoor/outdoor wiring connections must be secured tightly, and the cable should be routed properly so that there is no force pulling the cable from the connection terminals. Improper or loose connections can generate heat or cause a fire.
 - Do not connect the ground wire to a gas pipe, a lightning rod, or a telephone ground wire.
 - Use non-flammable gas (nitrogen) to check for leaks and to purge air; using compressed air or flammable gas may cause fire or explosion.

Operation

- Do not modify or extend the power cable. Scratches or peeling insulation on the power cables may result in fire or electric shock, and the cables should be replaced.
- Make sure that the power cable is neither dirty, loose, nor broken.
- Do not place any objects on the power cable.
- Take care to ensure that the power cable could not be pulled out or damaged during operation.
- Never touch, operate, or repair the air conditioner with wet hands.
- Do not insert hands or other objects through the air inlet or outlet while the air conditioner is operating.
- Make sure that nobody, especially children, climbs on or hits the outdoor unit.
- Be sure to use only those parts listed in the service parts list. Never attempt to modify the equipment.
- Do not touch the refrigerant pipe, water pipe or any internal parts while the unit is operating or immediately after operation.
- Do not leave flammable substances such as gasoline, benzene, or thinner near the air conditioner.
- Do not use the air conditioner for an extended period of time in a small place without proper ventilation.
- Be sure to ventilate sufficiently when the air conditioner and a heating appliance such as a heater are used simultaneously.
 - There is the possibility of oxygen deficiency.
- Do not block the inlet or outlet airflow.
- Cut off the power supply if there is any noise, smell, or smoke coming from the air conditioner.
- Contact an authorized service centre if the air conditioner is submerged by flood waters.
- In the event of a gas leak (such as Freon, propane gas, or LP gas), ventilate sufficiently before using the air conditioner again.
- Stop operation and close the window during a storm or hurricane. If possible, remove the product from the window before the hurricane arrives.

Maintenance

- Before cleaning or performing maintenance, disconnect the power supply and wait until the fan stops.
- 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 you are cleaning the inner parts of the unit.
- Appliance shall be disconnected from its power source during service and replacing parts.

Refrigerant

General

- Follow the standards of the corresponding region or country for handling the refrigerant and the air conditioner and for disassembling the air conditioner.
- Use only the refrigerant specified on the air conditioner label.
- Do not input air or gas into the system except the specified refrigerant.
- Do not touch the leaking refrigerant during installation or repair.
- If the refrigerant gas leaks during the installation, ventilate the area immediately.
- Be sure to check for refrigerant leaks after installing or repairing the product.
- In the case of refrigerant leakage, consult the dealer. When the air conditioner is to be installed in a small room, it is necessary to take proper measures so that the amount of any leaked refrigerant does not exceed the limiting concentration even when it leaks. If the refrigerant leaks exceeding the level of limiting concentration, an oxygen deficiency accident may happen.

R32 (3TR, 4TR Model Only)



- The non-fixed appliance shall be stored in an 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.
- Keep any required ventilation openings clear of obstruction.
- The non-fixed appliance shall be stored in a room without continuously operating open flames (for example an operating gas appliance) or other potential ignition sources (for example an operating electric heater, hot surfaces).
- Auxiliary devices which may be a potential ignition source shall not be installed in the duct work. Examples of such potential ignition sources are hot surfaces with a temperature exceeding 700°C and electric switching devices.
- Only auxiliary devices approved by the appliance manufacturer or declared suitable with the refrigerant shall be installed in connecting ductwork.

CAUTION INSTRUCTIONS



CAUTION

- To reduce the risk of minor injury to persons, malfunction, or damage to the product or property when using this product, follow basic precautions, including the following:
-

Installation

- Use a forklift or 2 or more people to transport the air conditioner.
- Do not install the air conditioner in an area where it is directly exposed to sea wind (salt spray).
- Install the drain hose properly for the smooth drainage of water condensation.
- Install the air conditioner in a place where the noise from the outdoor unit or the exhaust fumes will not inconvenience the neighbours.
- Safely dispose of packing materials such as screws, nails, plastic bags or batteries using proper packaging after installation or repair.
- Exercise caution when unpacking or installing the air conditioner.
- Be especially careful of the case edges and the fins on the condenser and evaporator.
- To avoid vibration or water leakage, keep the product level even when installing it.
- When installing the unit, use the installation kit provided with the product.
- The edges of heat exchanger fins are sharp enough to cut. To avoid injury, wear gloves or cover the fins while working around them.

Operation

- Do not drink the water drained from the air conditioner.
- Do not place objects in direct proximity to the outdoor unit and do not let leaves and other debris accumulate around the unit. Leaves are a hotbed for small animals which can enter the unit. Once inside the unit, such animals can cause malfunctions, smoke or fire if they come into contact with electrical parts.
- Do not let the air conditioner run for a long time when humidity is very high or when a door or a window has been left open.
- Do not expose people, animals, or plants to the cold or hot wind from the air conditioner for extended periods of time.
- Do not use the product for special purposes, such as preserving foods, works of art, etc. The air conditioner is designed for consumer purposes, and is not a precision refrigeration system. There is risk of damage or loss of property.
- Do not turn on the breaker or power when the front panel, cabinet, top cover, or control box cover are removed or opened.
- Do not open the front grille of the product during operation. Do not touch the electrostatic filter, if the unit is so equipped. "Means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules".
- Take care to prevent water from entering the product.
- Make sure that there are no obstacles close to the outdoor unit. The presence of obstacles close to the outdoor unit may reduce the performance of the outdoor unit or increase its operating sound.
- Do not turn off the power immediately after stopping operation. Always wait for at least five minutes before turning off the power.

Maintenance

- Use a sturdy stool or ladder when cleaning, maintaining, or repairing the air conditioner at a height.
- Do not plug or unplug the power supply plug to turn the unit on or off.
- Never use strong cleaning agents or solvents or spray water when cleaning the air conditioner. Use a soft cloth.
- Never touch the metal parts of the air conditioner when removing the air filter.
- Tear apart and throw away plastic packaging bags so that children will not play with them.
- When the product will not be used for a long time, disconnect and turn off the breaker.
- Do not tilt the unit when removing or uninstalling it. The condensed water inside can spill.
- Check the foundation for damage on a regular basis, especially if the product has been in use for a long time.
- Always insert the filter securely. Clean the filter every two weeks or more often if necessary. A dirty filter reduces the efficiency of the air conditioner and could cause product malfunction or damage.

OPERATION

Before Use

Notes for Operation

- Adjust the direction of the airflow vertically to circulate indoor air.
- Speed up the fan to cool or warm indoor air quickly, within a short period of time.
- Turn off the appliance and periodically open windows for ventilation. The indoor air quality may deteriorate if the appliance is used for long periods.
- Clean the air filter once every 4 weeks. Dust and impurities collected in the air filter may block the airflow or reduce the appliance performance.

Suggestions for Energy Saving

- Do not over-cool the space. This may be harmful to your health and may consume more electricity.
- Block sunlight with blinds or curtains while you are operating the appliance.
- Keep doors or windows closed tightly while you are operating the appliance.

R32 (3TR, 4TR Model Only)

- The appliance shall be stored so as to prevent mechanical damage from occurring.
- 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)

3. SAFETY PRECAUTIONS

To prevent personal injury, injury to others or property damage, please comply with the following: Incorrect operation due to failure to follow instructions below may cause harm or damage, the seriousness of which is classified as below:

	WARNING	This sign warns of death or serious injury.
---	----------------	---

	CAUTION	This sign warns of injury or damage to property.
---	----------------	--

The instructions to be followed are classified by the following symbols:

	This symbol denotes an action that is PROHIBITED .
---	---

 	These symbols denote actions COMPULSORY .
---	--

	WARNING
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Indoor unit and outdoor unit

-  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.

Please consult authorised dealer or specialist to clean the internal parts, repair, install, remove and reinstall the unit. Improper installation and handling will cause leakage, electric shock or fire.

Confirm with authorised dealer or specialist on usage of any specified refrigerant type. Using refrigerant type other than the specified may cause product damage, burst and injury etc.

-  Do not install the unit in a potentially explosive or flammable atmosphere. Failure to do so could result in fire.

Do not insert your fingers or other objects into the air conditioner indoor or outdoor unit, rotating parts may cause injury.



Do not touch the outdoor unit during lightning, it may cause electric shock.

Do not expose yourself directly to cold air for a long period to avoid excess cooling.

Do not sit or step on the unit, you may fall down accidentally.



Remote control



Do not allow infants and small children to play with the remote control to prevent them from accidentally swallowing the batteries.

Power supply



Do not use a modified cord, joint cord, extension cord or unspecified cord to prevent overheating and fire.



To prevent overheating, fire or electric shock:

- Do not share the same power outlet with other equipment.
- Do not operate with wet hands.
- Do not over bend the power supply cord.



If the supply cord is damaged, it must be replaced by the cord recommended by the manufacturer, service agent or similarly qualified person in order to avoid a hazard.

It is strongly recommended to be installed with Earth Leakage Circuit Breaker (ELCB) or Residual Current Device (RCD) to prevent electric shock or fire.

Stop using the product if any abnormality/failure occurs and disconnect the power plug or turn off the power switch and breaker.

(Risk of smoke/fire/electric shock) Examples of abnormality/failure

- The ELCB trips frequently.
- Burning smell is observed.
- Abnormal noise or vibration of the unit is observed.
- Water leaks from the indoor unit.
- Power cord or plug becomes abnormally hot.
- Fan speed cannot be controlled.
- The unit stops running immediately even if it is switched on for operation.
- The fan does not stop even if the operation is stopped.

Contact your local dealer immediately for maintenance/repair.



This equipment must be earthed to prevent electrical shock or fire.



- Prevent electric shock by switching off the power supply:
- Before cleaning or servicing,
 - When extended non-use, or
 - During abnormally strong lightning activity.



CAUTION

Indoor unit and outdoor unit



Do not wash the indoor unit with water, benzene, thinner or scouring powder to avoid damage or corrosion at the unit.

Do not use for preservation of precise equipment, food, animals, plants, artwork or other objects. This may cause quality deterioration, etc.



Do not use any combustible equipment in front of the airflow outlet to avoid fire propagation.

Do not expose plants or pet directly to airflow to avoid injury, etc.

Do not touch the sharp aluminium fin, sharp parts may cause injury.



Do not switch ON the indoor unit when waxing the floor. After waxing, aerate the room properly before operating the unit.

Do not install the unit in oily and smoky areas to prevent damage to the unit.

Do not dismantle the unit for cleaning purpose to avoid injury.

Do not step onto an unstable bench when cleaning the unit to avoid injury.

Do not place a vase or water container on the unit. Water may enter the unit and degrade the insulation. This may cause an electric shock.

Do not open window or door for long time during operation, it may lead to inefficient power usage and undesirable temperature changes.



Prevent water leakage by ensuring drainage pipe is:

- Connected properly,
- Kept clear of gutters and containers, or
- Not immersed in water

After a long period of use or use with any combustible equipment, aerate the room regularly.

After a long period of use, make sure the installation rack does not deteriorate to prevent the unit from falling down.

Remote control



Do not use rechargeable (Ni-Cd) batteries. It may damage the remote control.



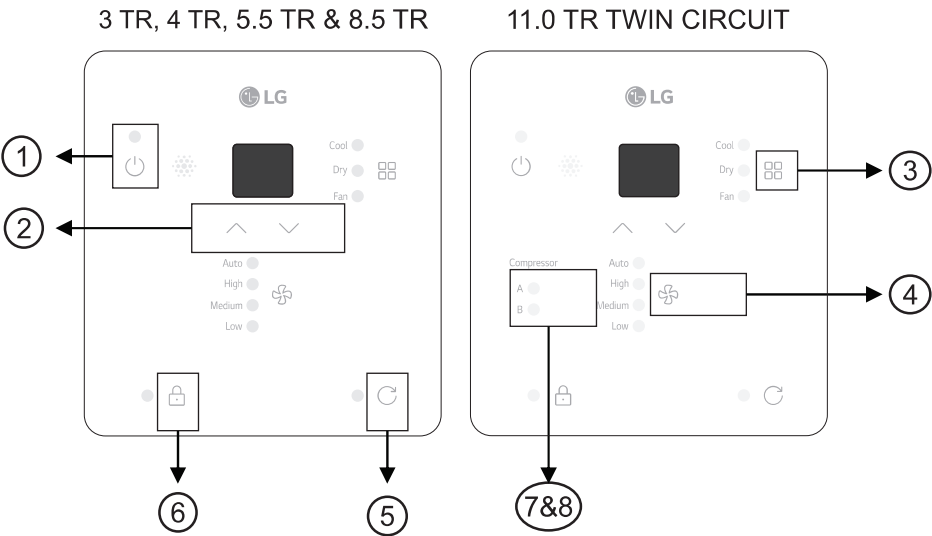
To prevent malfunction or damage of the remote control:

- Remove the batteries if the unit is not going to be used for a long period of time.
- New batteries of the same type must be inserted following the polarity stated.

4. POWER SUPPLY

Model No.	Main Power Supply	Frequency
	Phase ~ Volts	Hz
3 TR	1Ø ~ 230	50
4 TR	3Ø ~ 415	50
5.5 TR	3Ø ~ 415	50
8.5 TR	3Ø ~ 415	50
11.0 TR TWIN CIRCUIT	3Ø ~ 415	50

5. WIRED REMOTE CONTROL



1. ON/OFF KEY
2. TEMPERATURE UP/DOWN KEY
3. MODE KEY
4. FAN SPEED KEY
5. RESET KEY
6. LOCK KEY
7. COMP-A INDICATION

8. COMP-B INDICATION

ONLY FOR 11.0 TR TWIN CIRCUIT

6. WIRED REMOTE CONTROL DISPLAY OPERATION



ON/OFF KEY

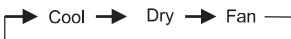
Press this key to turn ON/OFF the unit

TEMPERATURE UP/DOWN KEY

Press UP/DOWN key to increase/decrease the set temperature when the unit is ON in Cool/Dry mode. In Fan mode, the temperature cannot be set. The 2 digit seven segment display will show the Set Temperature. Set Temperature can be adjusted from 16 °C - 30 °C.

MODE KEY

Press this key to select Cool, Dry & Fan mode.



FAN SPEED KEY

By pressing this key, speed can be varied between Auto, High, Medium & Low.



RESET KEY

Press this key to reset the error displayed on 2-digit seven segment display. Reset LED will glow in RED color when Er error is displayed on 2-digit seven segment display and when we press Reset key, LED will turn off.

LOCK KEY

When you long press the LOCK key for 5 seconds all current settings on wired remote will be locked and YELLOW LED will glow continuously. Wired remote control will not accept any operation except the LOCK key. Press LOCK key again for 5 Seconds to cancel the LOCK mode and YELLOW LED will turn off.

COMP-A

To indicate that compressor of ODU 1 is ON.

COMP-B

To indicate that compressor of ODU 2 is ON.

7. ELECTRICAL SALIENT FEATURES

1. Digital Control and setting of Temperature values in 1°C.
2. Non Volatile Memory backup for all set value parameter.
3. Automatic starting of unit in case of power failure.
4. Built-in time delay of 3 minutes for Compressor and Outdoor fan.

❖ SPECIFICATIONS: For 3 TR, 4 TR

Power Supply	Single Phase, Voltage: 230V AC Three Phase, Voltage: 415V AC Frequency: 50Hz±3%
Operating temperature limit	Max. up to 50°C
Display	2 Digit-7 Segment LED Display, LED indicators
Temperature control accuracy	± 1%
Set Temperature range	16°C -30°C
Temperature sensors	Room sensor and coil sensor
LED Display & Keypad hand set	Pendant mounting with 5.0 meter long cable

❖ SPECIFICATIONS: For 5.5 TR, 8.5 TR, 11 TR

Power Supply	Three Phase, Voltage: 415V AC, Frequency: 50Hz ± 3%
Operating temperature limit	Max. up to 48°C
Display	2 Digit 7-Segment LED Display, LED indicators and Press Key pad
Temperature control accuracy	± 1%
Set Temperature range	16°C - 30°C
Temperature sensors	NTC thermistor bit sensor with 5 meter Long cable
LED Display & Key pad hand set	Pendant mounting

❖ SETTING OF TEMPERATURE

The 2-digit seven segment display will show the Set Temperature. Set Temperature can be adjusted between 16-30°C by pressing UP/DOWN keys. Press desired key to set new values. As soon as you reach the desired temperature stop adjusting the keys.

❖ ELECTRICAL FEATURE

1. Non Volatile Memory backup for all set value parameters such as Mode, Temperature, Fan Speed and Lock.
2. Automatic starting of unit in case of power failure.
3. Built in time delay of 3 minutes for Compressor and Outdoor Fan.

8. FAULT & ALARMS DISPLAY

(A) For 3 TR

LED indicators displays the various faults occurring in the indoor unit are as following.

S.No	NATURE OF FAULT	ERROR ON REMOTE DISPLAY
1	Room Sensor open / Short	E1
2	Coil Sensor open / Short	E2
3	Defrost	dF
4	HP/LP Trip, over and under voltage, phase loss, phase unbalance, phase reverse, contactor fail over current.	Er

Note: Only Er error will show in Remote control if any fault happend in outdoor side.

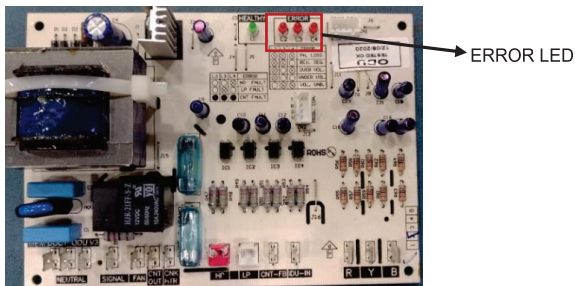
(B) For 4 TR

LED indicators displays the various faults occurring in the indoor unit are as following.

S.No	NATURE OF FAULT	ERROR ON REMOTE DISPLAY
1	Room Sensor open / Short	E1
2	Coil Sensor open / Short	E2
3	Defrost	dF
4	HP/LP Trip, over and under voltage, phase loss, phase unbalance, phase reverse, contactor fail over current.	Er

LED indicators displays the various faults occurring in the outdoor unit are as following.

Outdoor Error codes



Note: This error (L2,L3,L4) will come on ODU side only.

The GREEN Led will get ON if Supply is Healthy and in case of any Voltage, Pressure & Contactor errors, this led will not glow.

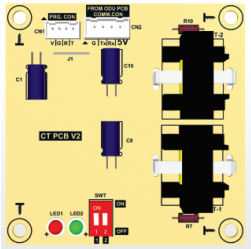
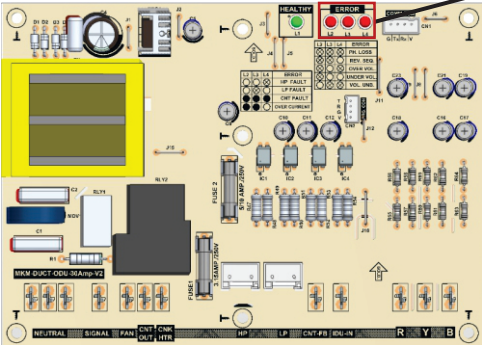
S.NO	NATURE OF FAULT	ERROR ON PENDANT DISPLAY	L1	L2	L3	L4	RESET TYPE
1	SUPPLY HEALTHY		ON	OFF	OFF	OFF	
2	HP FAULT	ER	OFF	OFF	OFF	BLINK	POWER RESET
3	LP FAULT	ER	OFF	OFF	BLINK	OFF	POWER RESET
4	CONTACTOR FAULT	ER	OFF	ON	ON	ON	POWER RESET
5	PHASE LOSS ERROR	ER	OFF	BLINK	BLINK	BLINK	AUTO RESET
6	PHASE SEQUENCE ERROR	ER	OFF	BLINK	BLINK	OFF	POWER RESET
7	OVER VOLTAGE ERROR	ER	OFF	BLINK	OFF	BLINK	AUTO RESET
8	UNDER VOLTAGE ERROR	ER	OFF	BLINK	OFF	OFF	AUTO RESET
9	PHASE UNBALANCE ERROR	ER	OFF	OFF	BLINK	BLINK	AUTO RESET

(c) For 5.5 TR AND 8.5 TR:

LED indicators displays the various faults occurring in the indoor unit are as following.

S.No	NATURE OF FAULT	ERROR ON REMOTE DISPLAY
1	Room Sensor open / Short	E1
2	Coil Sensor open / Short	E2
3	Defrost	dF
4	HP/LP Trip, over and under voltage, phase loss, phase unbalance, phase reverse, contactor fail over current.	Er

LED indicators displays the various faults occurring in the outdoor unit are as following:



CURRENT TRANSFORMER SPECIFICATION		
Sr. No.	SWT	MODEL
1	OFF	5.5 TR
2	ON	8.5 TR

Note: L2, L3,L4 LED's are available on ODU PCB.

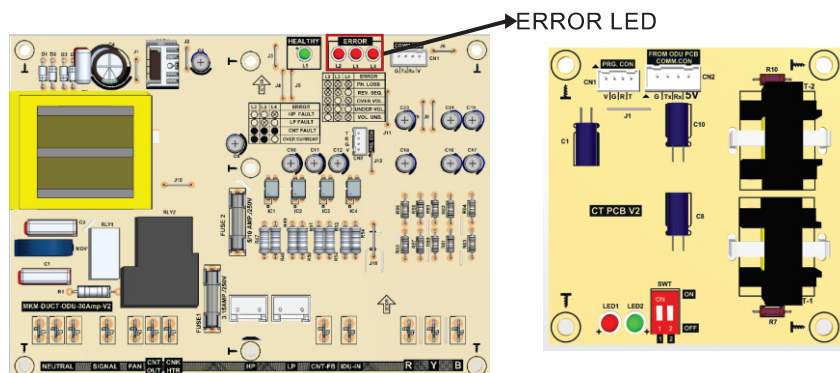
S.NO	NATURE OF FAULT	ERROR ON PENDANT DISPLAY	L2	L3	L4
1	HP Fault	Er	OFF	OFF	BLINK
2	LP Fault	Er	OFF	BLINK	OFF
3	Contactor Fault	Er	ON	ON	ON
4	Phase loss Error	Er	BLINK	BLINK	BLINK
5	Phase sequence Error	Er	BLINK	BLINK	OFF
6	Over Voltage Error	Er	BLINK	OFF	BLINK
7	Under voltage Error	Er	BLINK	OFF	OFF
8	Over current	Er	ON	ON	OFF

(D) For 11 TR TWIN CIRCUIT (2XODU) :

LED indicators displays the various faults occurring in the indoor unit are as following.

S.No	NATURE OF FAULT	ERROR ON REMOTE DISPLAY
1	Room Sensor open / Short	E1
2	Indoor Coil Sensor -1 open /short	E2
3	Indoor Coil Sensor -2 Open /Short	E3
4	Defrost For Coil -1	E4
5	Defrost For Coil -2	E5
6	HP/LP Trip, over and under voltage, phase loss, phase unbalance, phase reverse, contactor fail over current.	Er

LED indicators displays the various faults occurring in the outdoor unit are as following.



Note: L2, L3,L4 LED's are available on ODU PCB.

S.NO	NATURE OF FAULT	ERROR ON PENDANT DISPLAY	L2	L3	L4
1	HP Fault	Er	OFF	OFF	BLINK
2	LP Fault	Er	OFF	BLINK	OFF
3	Contactor Fault	Er	ON	ON	ON
4	Phase Loss Error	Er	BLINK	BLINK	BLINK
5	Phase Sequence Error	Er	BLINK	BLINK	OFF
6	Over Voltage Error	Er	BLINK	OFF	BLINK
7	Under voltage Error	Er	BLINK	OFF	OFF
8	Over current	Er	ON	ON	OFF

9. OPERATING INSTRUCTION

- **COOL MODE** :In COOL mode cooling function allows air conditioner to cool the room by turning ON the compressor with preset delay of 3 minutes and the set temperature is adjustable between 16-30°C and indoor fan will run at selected fan speed.
- **DRY MODE** :In DRY mode, air conditioner reduces the humidity of the air to make the room more comfortable The indoor fan will run at low speed. Fan speed cannot be changed. Set temperature can be changed from 16°C to 30°C.
- **FAN MODE** :In FAN mode compressor and outdoor fan are turned off. Indoor fan speed can be varied between Low, Medium & High speed using wired remote control.

(A) OPERATING CONDITION

Use this air conditioner in the temperature range indicated in the table.

Temperature (°C)		Indoor	Outdoor
COOL	Max.	35	50
	Min.	16	16

10. TROUBLESHOOTING

The following symptoms do not indicate malfunction

SYMPTOM	CAUSE
Mist emerges from indoor unit.	Condensation effect due to cooling process
Water flowing sound during operation.	Refrigerant flow inside the unit.
The room has a peculiar odor.	This may be due to damp smell emitted by the wall, carpet, furniture or clothing
Operation is delayed a few minutes after restart.	The delay is a protection to the unit's compressor
Outdoor unit emits water/steam	Condensation or evaporation occurs on pipes.
Cracking sound can be heard during operation.	Changes of temperature cause the expansion/contraction of the unit.
Unit switch to FAN operation and air become humid.	This happens when the room temperature, operation switches to FAN mode and humidity increases.
Operation does not stop immediately after pressing the ON/OFF key.	Discharging heat is in process. Operation will stop automatically after approximately 60 seconds.
Operation starts after power resumes.	Auto restart is in function and operates under previous setting.

Check the following before calling for servicing

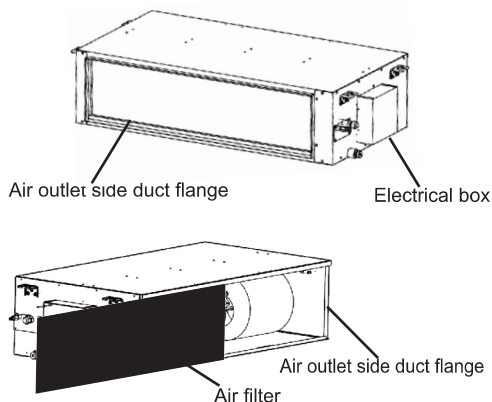
SYMPTOM	CHECK
Cooling operation is not working efficiently.	• Set the temperature correctly. • Close all doors and windows. • Clean or replace the filters. • Clear any obstruction the air inlet and air outlet vents.
Noise during operation	Check if the unit has been installed at an incline or the grill is not fixed properly.
Remote control does not work.	May be wire disconnection from Indoor unit.
The unit does not work.	Please consult with authorized dealer.
Indoor unit fail to start	• Check if the circuit breaker is tripped. • An abnormality with unit and please consult with authorized dealer.
Outdoor unit fail to start	An abnormality with unit and please consult with authorized dealer.
Remote Control Led is blinking.	Following alarm status is display on Remote Control: HP/LP, Overload, Load unbalance, Phase loss, Phase sequence, Phase unbalance, Under voltage and Over voltage. Please consult with authorized dealer.

11. CLEANING INSTRUCTION

Cleaning has to be carried out at regular intervals to ensure the unit is at optimal performance. A dirty unit may cause malfunction. Consult an authorised dealer.

- Before cleaning, switch off the power supply and unplug the unit.
- Do not touch the aluminium fin as the sharp parts may cause injury.
- Do not use benzine, thinner or scouring powder.
- Use soap (≈ pH 7) or neutral household detergent only.
- Do not use water hotter than 40 °C / 104 °F.

Indoor unit



WARNING

Please shut down the unit and cut off the power before cleaning for safe.

Maintenance

1. Please do the following job well if the air conditioner is not used for a long time.
 - In order to dry the unit completely, set the FAN mode and run for 3-4 hours. Shut down the air conditioner and cut off the power supply.
2. When used again after the unit stops for a long period.
 - When cleaning the filter and indoor unit, you must stop the unit and cut off power supply. Wipe the indoor unit with soft cloth. It is forbidden to push the machine with petrol, benzene, lye, powder, detergent, insecticide etc., Which will damage the unit.
 - Ensure air inlet and outlet of indoor and outdoor unit are not blocked by rubbish.
 - Check whether the grounded wire is loose and flexible, then connect the power.

After-sale service

When your air conditioner can not run in order, please shut down the machine and cut off the power supply immediately. Then contact dealers.

Outdoor unit

Clean the debris that surround the unit.
Clear any blockage from the drain pipe.



Air Filter

- Unit is a rear ventilated one, remove the filter by sliding sideways.
 - Clean the unloaded filter with vacuum cleaner or water
 - Scrub with neutral detergent if the filter is too dirty. Do not wash with hot water
 - Place it on ventilated place and should not be under sunshine directly after washing it out of shape.
- Air intake side duct flange

12. APPENDIX

CARING FOR THE ENVIRONMENT

Disposal of Your Old Appliance (as per e-waste Rules)



- 1) When this crossed out wheeled bin symbol is depicted on the product and its operator's manual, it means the product is covered by E-Waste Management Rules India published by MoEF & CC, Govt. of India and are meant to be recycled, dismantled, refurbished or disposed off.
- 2) Do's
 - a. The product is required to be handed over only to the authorized recycler for disposal.
 - b. Keep the product in isolated area, after it becomes non-functional/unrepairable so as to prevent its accidental breakage.Don'ts
 - a. The product should not be opened by the user himself/herself, but only by authorized service personnel.
 - b. The product is not meant for re-sale to any unauthorized agencies/scrap dealer/kabariwalah.
 - c. The product is not meant for mixing into household waste stream.
 - d. Do not keep any replaced spare part(s) from the product in exposed area.
- 3) Any disposal through unauthorized agencies/person will attract action under Environment (Protection) Act 1986.
- 4) Hazards of improper handling or accidental breakage.
 - a. The refrigerant used can be combustible at low pressure. The potential health effect of over exposure is dizziness, headache and heart irregularities.
- 5) This product is complied with the requirement of Hazardous Substances as specified under E-Waste Management Rules India published by MoEF & CC, Govt. of India.
- 6) To locate a nearest collection centre or call for pick-up (limited area only) for disposal of this appliance, please contact No. 08069379999, Toll Free No. 1800-315-9999 for details. All collection centre and pick up facilities are done by third parties with LG Electronics India Ltd. Merely as a facilitator. For more detailed information, please visit : <http://www.lg.com>

Brand Owner (LG Electronics India Ltd.) & Packaging Type Details as per PWM Rules

Packaging Type	Company Name	Registration Number	Thickness
Plastic Sheet	LG Electronics India Ltd	BO-13-000-07-AAACL1745Q-22	0.05mm & Above
Multilayered Bag	LG Electronics India Ltd		N/A

अपने पुराने उपकरण का निपटान (ई- अपशिष्ट नियमों के अनुसार)



1. जब इस काटे गए पहिये वाले बिन का चिह्न किसी उपकरण और इसके ऑपरेटर और उसके ऑपरेटर की पुस्तिका के साथ संलग्न होता है, तो इसका मतलब है कि इसे "ई-अपशिष्ट" (प्रबंधन और हथालन) नियम के अंतर्गत सम्मिलित किया गया है और इसके पुनर्नवीनीकरण, नवीनीकरण, विघटन और निपटान के लिए बनाया गया है।
MoEF & CC भारत सरकार द्वारा प्रकाशित (भारतीय "ई- अपशिष्ट" (प्रबंधन और हथालन))

2. करें

क. उपकरण को सिर्फ अधिकृत पुनः नवीनीकरणकर्ता को ही निपटारन करने हेतु हस्तांतरित करें।

ख. जब उपकरण कार्यरत ना हो, इसे अलग क्षेत्र में रखें ताकि उपकरण से होने वाली दुर्घटनाओं से बचा जा सके।

ना करें

क. इस उपकरण को स्वयं उपयोगकर्ता द्वारा नहीं खोला जाना चाहिए, बल्कि केवल अधिकृत सेवा कर्मियों द्वारा ही खोला जाना चाहिए।

ख. इस उपकरण को पुनः बिक्री के लिए किसी भी अनधिकृत संस्था / भंगार वाला / कबाड़ीवाला को ना दे।

ग. इस उपकरण को किसी घरेलू अपशिष्ट सामान के साथ मिलाकर ना रखें।

घ. उपकरण के बदले हुए या आंतरिक पुरजों को खुले क्षेत्र में ना रखें।

3. यदि किसी अनधिकृत विभाग या व्यक्ति के द्वारा निपटारन किया जाता है तो यह पर्यावरण (सुरक्षा) अधिनियम १९८६ के अंतर्गत आता है।

4. दुर्घटना टूट/ फूट अव्यवस्थित रख-रखाव से बचें ।

- क. रेफ्रिजरेट कम दबाव पर दहनशील हो सकती है तथा इससे स्वास्थ्य पर दुष्प्रभाव पड़ सकता है जैसे चक्कर आना, सर दर्द और हृदय गति रुकना।

5. यह उत्पाद ई- अपशिष्ट (प्रबंधन और हथालन) नियम के तहत निर्दिष्ट खतरनाक पदार्थों की आवश्यकता का पालन करता है।

MoEF & CC, भारत सरकार द्वारा प्रकाशित (भारतीय "ई- अपशिष्ट" (प्रबंधन और हथालन))

6. उपरोक्त पदार्थों के निपटारन के लिए नजदीकी निपटारन संस्थान (संकीर्ण क्षेत्र) में कॉल करें। अधिक जानकारी के लिए हमारे नंबर **08069379999**, टोल फ्री नंबर **1800-315-9999** पर पर कॉल करें। सभी संग्रहण केंद्र व पिक-अप की सुविधाएं किसी थर्ड -पार्टी जो "LG Electronics India Ltd." को अपनी सेवाएं प्रदान कर रही हों से करवाएं।

अधिक जानकारी के लिए, कृपया देखें वेब साइट : <http://www.lg.com>

BWM (Battery Waste Management)

Company Name	LG Electronics India Limited
EPR Registration Number	1.1595375254588E+20

QR Code for E-Waste,
PWM and BWM



WARRANTY

This LG Air Conditioner comes with a warranty of 15 months from the date of purchase of equipment or 12 months from the date of installation/Commissioning on all parts against defective material or workmanship, whichever is earlier. In case of defect, LG Electronics India Ltd. undertakes to get the set repaired free of charge.

IMPORTANT INFORMATION FOR THE CUSTOMER

1. This warranty card has 2 parts. Kindly ensure that the dealer fills all parts correctly.
2. Part A is the customer's copy. It should be retained by you for record.
3. Part B must be torn and mailed to the nearest LG ELECTRONICS CUSTOMER CARE CENTRE listed in this booklet. If not, please tell the dealer to keep Part B for collection.
4. In the event of a defect developing in the product, contact the authorised LG Electronics Customer Care Centre with whom you have registered, for obtaining warranty service and inform him of the defect, Model No. & Sl. No.

TERMS AND CONDITIONS

1. Installation, Repairs & Replacement will be carried out either by the dealer from who the set has been purchased, or through a Company Customer Care Centre, or the Authorised Franchised Customer Care Centre with whom the set has been registered.
2. Any parts of the sealed system replaced by the Company at its discretion shall be with a functionally operative part.
3. For Units installed beyond the municipal limits of the jurisdiction of the authorised customer care centre, all expenses incurred in collecting the units or parts thereof from the company's customer care centre, as well as expenses incurred with deputising of service personnel/technicians towards conveyance and other incidentals etc. will be borne by the customer.
4. The concerned customer care centre will advise the customer whether to effect the repair at site or at the customer care centre.
5. While the company will make every effort to carry out repairs at the earliest, it however is made expressly clear that the company is under no obligation to do so in a specified period of time.
6. The company or its authorised customer care centre/service dealer reserves the right to retain any part/s or components replaced at its discretion, in the event of a defect being noticed in the equipment during the warranty period.
7. Warranty does not cover accessories external to the equipment supplied by the dealer.
8. Any alteration in the installation position or shifting of the Air-Conditioner from one premises to another should be carried out by the LG Electronics Customer Care Centre or its Authorised Service Franchised / Sale & Service Dealer only. Such change of address of installation must be notified to LG Electronics Customer Care Centre by the original purchaser in writing, within 10 days of such alteration.
9. The unit shall be operated with variation of +/- 5% of rated voltage at 50Hz. Any failure due to voltage variation/fluctuations beyond specified tolerance will not be covered under warranty.
10. Duct design and installation should be done by authorised person only. Any defect/damage caused due to improper installation/defective duct design will not be covered under warranty.

CUSTOMER COPY

PART A

MODEL No. :

COMPRESSOR Sr. No. :

UNIT Sr. No. :

DATE OF PURCHASE

CUSTOMER NAME & ADDRESS

TEL. _____

DEALER NAME & ADDRESS

TEL. _____

Customer's Signature

Dealer's Signature

This card is valid only if it is filled in and stamped by our authorised dealer on the date of purchase.

Warranty voids if :

1. The warranty card is not completed properly at the time of purchase.
2. The completed warranty card is not presented to authorised personnel at the time of service of the product.
3. The Air Conditioner is not operated according to instructions given in the "Operating Instructions Booklet".
4. Defects are caused by improper or reckless use, which shall be determined by company personnel.
5. Any installation/ Modification/Shifting/ Change in ancillary design/Repair work is carried out by persons other than authorised company personnel.
6. Defects are caused due to causes beyond control like lightning, abnormal voltage, acts of God or while in transit to service centre or purchaser's residence.
7. The warranty is not valid in case, the Serial Number is deleted, defected or altered.

COMPANY COPY

PART B

This LG Air Conditioner comes with a warranty of 15 months from the date of purchase of equipment or 12 months from the date of installation/Commissioning on all parts against defective material or workmanship, whichever is earlier. In case of defect, LG Electronics India Ltd. undertakes to get the set repaired free of charge.

MODEL No. :

COMPRESSOR Sr. No. :

UNIT Sr. No. :

DATE OF PURCHASE

CUSTOMER NAME & ADDRESS

TEL. _____

DEALER NAME & ADDRESS

TEL. _____

Customer's Signature

Dealer's Signature

This card is valid only if it is filled in and stamped by our authorised dealer on the date of purchase.

For any further information, please contact LGEIL Branches

<u>BRANCH</u>	<u>BRANCH OFFICE ADDRESS</u>	<u>PHONE NO. / FAX NO.</u>
Ahmedabad	LGEIL, 233-234, Platinum Plaza, Nr. Judges Bungalow Cross Road, Bodakdev, Ahmedabad-54	40040013-14
Asansol	LGEIL, Block-E, 1st Floor, P C Chattarjee Market, Rambandhu Tala, GT Road (E) Asansol-713303	3292009/3292010 (Fax) 2215170
Aurangabad	LGEIL, 302 CIDCO No. 3, Opp. Hotel Ramgiri, Jalna Road, Aurangabad-431003	5625705 / (Fax) 2474055/3209543/32095437/32095438
Bangalore	LGEIL, No. 914, 2nd Floor, Shri Venkateshwara Complex, Opp. IBP Petrol Bunk, 80ft Road, 6th Block, Koramangala - Bangalore - 560095	41145145/41144750/41144751
Bhopal	LG Electronics India Ltd. 2nd Floor, Alankar Complex, Plot No. 10, M.P. Nagar, Zone-II, Bhopal-462011	4262847/4229861 (Fax) 4262848
Bhubaneshwar	LGEIL, Plot No. 02, 1st Flr., Bapuji Nagar, Bhubaneshwar-751009	2531430, 2534280
Calcutta	LGEIL, 1, Ho-Chi-Min-Sarani, 8th Floor, Metro Towers, Calcutta-700071	22883254 (51) Fax
Chandigarh	LGEIL, SCO No. 142-143, 3rd Floor, Sector-34A, Chandigarh-160002	508738990 (Fax) 5089107
Chennai	LGEIL, AA11, 2nd Avenue, Fatima Tower, Anna Nagar West, Chennai-600040	85510501-04 (Fax) 26203506
Cochin	LGEIL, 40/1207, Vasudeva Buildings, T.D. Road, Ernakulam Cochin-682011	2369765/2369743/2370744/4027444/4027555/2360977 (Fax)
Coimbatore	LGEIL, 250A, Sanganur Main Road, Kannappa Nagar, Coimbatore-641027	2332197, 2332195
Delhi	LGEIL, A-27, Mohan Co-operative, Industrial Estate, New Delhi	26991412/11/13 (Fax) 26991410
Dehradun	LGEIL, M-22, Commercial Motors Compound, Mohabewala Indl. Area, Delhi-Saharanpur Road, Dehradun (Uttarakhand)	2644213/283
Gurgaon	LGEIL, IInd Fir, A Block, Centre Point Bldg, Sushant Lok - Ph-I, Gurgaon-122001	4047461- 62 - 63/4272867, 4047460 (Fax)
Ghaziabad	LGEIL, J-10, RDC Rajnagar, Ghaziabad - 201001	9811354152/3/64/65/266
Guwahati	LGEIL, Shantitree Bhawan, C K Aggarwal Path, Chenikurthi, Guwahati-781003	2663895/2666958/2665983/2668984 (Telefax)
Hyderabad	LGEIL, 1st Floor, Survey No. 54, Pulla Reddy Building, Vikarampur, Main Road, Kharkhana, Secunderabad-500009	27207504, 05, 06/27204094 27201462 (Fax)
Hubli	LGEIL, 1 Floor, Above Bellad & Co., Near Bannigida Busstop, Gokul Road, Hubli-580030	4250251/52
Indore	LGEIL, 3rd flr., 304 Bansri Trade Centre, 581/5 M.G. Road, Indore-452003	4065523-24, 4082157 (Fax)
Jaipur	LGEIL, B-71, Sahakar Marg, Lal Kothi Scheme, Jaipur-302015	5111118/5113028/5105392, 5111540 (Fax)
Jammu	LGEIL, Plot No. 52, Yard No. 6, Transport Nagar, Narwal, Jammu-180006	2477420, 2477419, 2474396, 2474384
Jodhpur	LGEIL, 22(1-A)/21(2-B)/2, RIICO Heavy Industrial Area, Jodhpur-342003	2742384, 392 / 5120030 (Fax)
Karnal	LG Electronics India Ltd, Super Tyre Building, Near New Anaj Mandi, Opp. New World Restauraent, G.T. Road Karnal, Haryana	2219201, 2219202 (Telefax)
Lucknow	LGEIL, B-537, Hari Kunj, Keshav Nagar, Sitapur Road, Lucknow-226020	2757538, 39, 2759121 (Fax) 2757559
Ludhiana	LGEIL, Village Jhande, Near Badowal Railway Station, Opp. Ferozpur Road, Ludhiana	2804412 - 19
Mumbai(N & S)	LGEIL, Trade Star, 4th Floor, A Wing, J.B. Nagar, Andheri Kurla Road, Andheri (E) Mumbai-400059	28352882-2887 / 28352889 (Fax)
Nagpur	LGEIL, 5A, Road No.13, Behind Martc Workshop, MIDC Hinga, Nagpur-440016	235120, 235122, Fax : 234401
Patna	LGEIL, 2nd Floor, Ankit Chandra Deep Complex, Bander Bageecha, Near Samrat Hotel, Patna-800001.	3298714, 2541845 (Fax)
Pune	LGEIL, 201, 2nd Floor, Plexus Complex, at 134/1, CTS No. 1337/1, Nr Parihar Chowk, Aundh, Pune-411 007.	020 41474100, 41474111 (Fax)
Rajkot	LGEIL, Sanskruti Apartment, Opp. Dr. Ambedkar Bhawan, Near Alithi Chowk, Akshar Road , Rajkot - 360004	2481499, 2467692 (Fax)
Raipur	LGEIL, 613 to 616 , 6th Floor, Offizo, Magneto - The Mall, GE Road, Raipur - 492001	4053171/4037470 (Fax) 4038426/10/11
Ranchi	LGEIL, 402, Commerce Tower, Opp. Gel Church Complex, Main Road, Ranchi	3294026, 2331815
Surat	LGEIL, 1001-1004, Ascon Plaza, IInd Fir, Anand Mahal Road, Behind Bhulka Bhavan School, Adajan, Surat-395009	2730982/83, 2730984 (Fax)
Thane	LGEIL, Gall Shop No - 206,207, 2nd Floor, Sai Plaza , Above Vijay Sales Opp. Cine Wonder Mall, Ghodbunder Road , Thane(West)-400607	25472633/2637 25472602(Fax)
Varanasi	LGEIL, Pama Complex, DLW, Lahartara Road, Shivdaspur, Manduadih, Varanasi, UP-221002	2373432/36/37
Vijaywada	LGEIL, Door No. 32-2/1-7, Ratnamamba Street, Prajasakti Nagar, Vijaywada-520010, Andhra Pradesh	2497283/87, (Fax) 2497284
Warangal	LGEIL, House No. 1-6-598/1, First Floor, Beside HDFC Bank, Nakkalgutta, Hanamakonda-506001 (Warangal)	2551453
Kozhikode	3/568, Thripuri Building, Wayanadu Road, First Floor, Near K.S.F.E., East Nadakkavu, Calicut-673011	2366755, 2366756, 2366678, (Fax) 2766678

LG Electronics India Ltd.

Regd. Office : A-24/6, Mohan Cooperative Industrial Estate, Mathura Road, New Delhi-110017



LG ELECTRONICS INDIA LTD. CUSTOMER CARE CENTRE



 WARNING	This symbol shown that this equipment uses a flammable refrigerant. If the refrigerant is leaked, together with an external ignition source, there is a possibility of ignition.		This symbol shown that the Operation Instruction should be read carefully.
	This symbol shown that a service personnel should be handling this equipment with reference to the installation Instruction.		This symbol shown that there is information included in the Operation instruction and/or installation Instruction.

LG Electronics India Ltd.

Phone	1800 180 3575 (Toll Free) 9 x 7 (09:00AM to 06:00PM)
Address	Regd. Office: LG Electronics India Ltd., A-24/6 Mohan Cooperative Industrial Estate, Mathura Road, New Delhi-110044 CIN No. U32107DL1997PLC220109

