



OWNER'S MANUAL

# FRIDGE & FREEZER

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

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This manual may contain images or content different from the model you purchased.  
This manual is subject to revision by the manufacturer.

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# SAFETY INSTRUCTIONS

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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.

## IMPORTANT SAFETY 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:

### Children in the Household

- 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.

- If the appliance is equipped with a lock (some models only), keep the key out of reach of children.

## Installation

- This appliance should only be transported by two or more people holding the appliance securely.
- Ensure that the socket outlet is properly grounded, and that the earth pin on the power cord is not damaged or removed from the power plug. For more details on grounding, inquire at an LG Electronics customer information centre.
- This appliance is equipped with a power cord having an equipment-grounding conductor and a grounding power plug. The power plug must be plugged into an appropriate socket outlet that is installed and grounded in accordance with all local codes and ordinances.
- If the power cord is damaged or the hole of the socket outlet is loose, do not use the power cord and contact an authorized service centre.
- Do not plug the appliance into a multi socket adapter which does not have a power cable (mounted).
- Do not modify or extend the power cable.
- The appliance should be connected to a dedicated power line which is separately fused.
- Do not use a multi socket outlet which is not properly grounded (portable). In case of using a properly-grounded multi socket outlet (portable), use the multi socket outlet with the current capacity of the power code rating or higher and use the multi socket outlet only for the appliance.
- Install the appliance in a place where is easy to unplug the power plug of the appliance.
- Be careful not to point the power plug up or let the appliance lean against the power plug.

- Install the appliance on a firm and level floor.
- Do not install the appliance in a damp and dusty place. Do not install or store the appliance in any outdoor area, or any area that is subject to weathering conditions such as direct sunlight, wind, rain, or temperatures below freezing.
- Do not place the appliance in direct sunlight or expose it to the heat from heating appliances such as stoves or heaters.
- Be careful not to expose the rear of the appliance when installing.
- Be careful not to let the appliance door fall during assembly or disassembly.
- Be careful not to pinch, crush, or damage the power cable during assembly or disassembly of the appliance door.
- Do not connect a plug adapter or other accessories to the power plug.

## Operation

- Do not use the appliance for any purpose (storage of medical or experimental materials or shipping) other than any domestic household food storage use.
- Unplug the power plug during a severe thunderstorm or lightning or when not in use for a long period of time.
- Do not touch the power plug or the appliance controls with wet hands.
- Do not bend the power cable excessively or place a heavy object on it.
- If water penetrates electrical parts of the appliance, disconnect power plug and contact an LG Electronics customer information centre.
- Do not place hands or metallic objects inside the area emitting the cold air, cover or heat releasing grille on the back.

- Do not apply excessive force or impact to the back cover of the appliance.
- Do not put animals, such as pets into the appliance.
- Be careful of nearby children when you open or close the appliance door. The door may bump the child and cause injury.
- Avoid the danger of children getting trapped inside the appliance. A child trapped inside the appliance can cause suffocation.
- Do not place heavy or fragile objects, containers filled with liquid, combustible substances, flammable objects (such candles, lamps, etc.), or heating devices (such as stoves, heaters, etc.) on the appliance.
- If there is a gas leakage (isobutane, propane, natural gas, etc.), do not touch the appliance or power plug and ventilate the area immediately. This appliance uses a refrigerant gas (isobutane, R600a). Although it uses a small amount of the gas, it is still combustible gas. Gas leakage during appliance transport, installation or operation can cause fire, explosion or injury if sparks are caused.
- Do not use or store flammable or combustible substances (ether, benzene, alcohol, chemical, LPG, combustible spray, insecticide, air freshener, cosmetics, etc.) near the appliance.
- Immediately unplug the power plug and contact an LG Electronics customer information centre if you detect a strange sound, odour, or smoke coming from the appliance.
- Fill with potable water only into icemaker or dispenser water tank.
- Do not damage the refrigerant circuit.
- Do not place any electronic appliance (such as heater and mobile phone) inside the appliance.

## Maintenance

- Disconnect the power cord before cleaning the appliance or replacing the inside lamp (where fitted).
- Securely plug the power plug in the socket outlet after completely removing any moisture and dust.
- Never unplug the appliance by pulling on the power cable. Always grip the power plug firmly and pull straight out from the socket outlet.
- Do not spray water or inflammable substances (toothpaste, alcohol, thinner, benzene, flammable liquid, abrasive, etc.) over the interior or exterior of the appliance to clean it.
- Do not clean the appliance with brushes, cloths or sponges with rough surfaces or which are made of metallic material.
- Only qualified service personnel from LG Electronics service centre should disassemble, repair, or modify the appliance. Contact an LG Electronics customer information centre if you move and install the appliance in a different location.
- Do not use a hair drier to dry the inside of the appliance or place a candle inside to remove the odours.
- Do not use mechanical devices or other means to accelerate the defrosting process.

## Disposal

- When discarding the appliance, remove the door gasket while leaving the shelves and baskets in place and keep children away from the appliance.
- Dispose of all packaging materials (such as plastic bags and styrofoam) away from children. The packaging materials can cause suffocation.

## Technical Safety

- Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.
- Do not use electrical appliances inside the refrigerator.
- The refrigerant and insulation blowing gas used in the appliance require special disposal procedures. Consult with service agent or a similarly qualified person before disposing of them.
- Refrigerant leaking out of the pipes could ignite or cause an explosion.
- The amount of refrigerant in your particular appliance is shown on the identification plate inside the appliance.
- Never start up an appliance showing any signs of damage. If in doubt, consult your dealer.
- This appliance is intended to be used in household and similar applications only. It should not be used for commercial, or catering purposes, or in any mobile application such as a caravan or boat.
- Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.

## Risk of Fire and Flammable Materials



This symbol alerts you to flammable materials that can ignite and cause a fire if you do not take care.

- This appliance contains a small amount of isobutane refrigerant (R600a), but it is also combustible. When transporting and installing the appliance, care should be taken to ensure that no parts of the refrigerating circuit are damaged.

- If a leak is detected, avoid any naked flames or potential sources of ignition and air the room in which the appliance is standing for several minutes. In order to avoid the creation of a flammable gas air mixture if a leak in the refrigerating circuit occurs, the size of the room in which the appliance is used should correspond to the amount of refrigerant used. The room must be 1 m<sup>2</sup> in size for every 8 g of R600a refrigerant inside the appliance.
- When positioning the appliance, ensure the supply cord is not trapped or damaged.
- Do not locate multiple portable socket-outlets or portable power supplies at the rear of the appliance.

### 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**

- Do not tilt the appliance to pull or push it when transporting.
- Make sure not to get a body part such as a hand or foot stuck while moving the appliance.

### **Operation**

- Do not touch frozen food or the metal parts in the freezer compartment with wet or damp hands. It may cause frostbite.
- Do not place glass containers, bottles or cans (especially those containing carbonated drinks) in the freezer compartment, shelves or ice bin that will be exposed to temperatures below freezing.

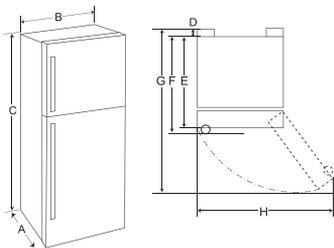
- The tempered glass on the front side of the appliance door or the shelves can be damaged by an impact. If it is broken, do not touch it with hands.
- Do not hang from the appliance doors, storage room, shelf or climb up into it.
- Do not store an excessive amount of water bottles or containers for side dishes on the door baskets.
- Prevent animals from nibbling on the power cable or water hose.
- Do not open or close the appliance door with excessive force.
- If the hinge of the appliance door is damaged or operates improperly, stop using the appliance and contact an authorized service centre.
- Do not clean glass shelves or covers with warm water when they are cold. They may break if exposed to sudden temperature changes.
- Never eat frozen foods immediately after they have been taken out in the freezer compartment.
- Do not use a thin crystal cup or chinaware when dispensing.
- Make sure not to get a hand or foot stuck upon opening or closing the appliance door or door in door.

## **Maintenance**

- Do not insert the shelves upside down. The shelves may fall.
- To remove frost from the appliance, contact an LG Electronics customer information centre.
- Dispose of the ice inside the ice bin in the freezer compartment during an extended power outage.

## Dimensions and Clearances

- Too small of a distance from adjacent items may result in the degradation of freezing capability and increased electricity costs. Allow over 50 mm of clearance from each adjacent wall when installing the appliance.



-	Size
A	730 mm
B	700 mm
C	1780 mm
D	27 mm
E	658 mm
F	703 mm
G	1135 mm
H	1225 mm

## Ambient Temperature

- The appliance is designed to operate within a limited range of ambient temperatures, depending on the climate zone.
- The internal temperature could be affected by the location of the appliance, the ambient temperature, the frequency of door opening and so on.
- The climate class can be found on the rating label.

Climate Class	Ambient Temperature Range °C
SN (Extended Temperate)	+10 - +32
N (Temperate)	+16 - +32
ST (Subtropical)	+16 - +38
T (Tropical)	+16 - +43 / +10 - +43*

\*Australia, India, Kenya

### NOTE

- The appliances rated from SN to T are intended to be used at an ambient temperature between 10 °C and 43 °C.

## Leveling the Appliance

To avoid vibration, the unit must be leveled.

If required, adjust the leveling screws to compensate for the uneven floor.

The front should be slightly higher than the rear to aid in door closing.

Leveling screws can be turned easily by tipping the cabinet slightly.

Turn the leveling screws counterclockwise  to raise the unit, clockwise  to lower it.

## Connecting the Appliance

After installing the appliance, connect the power plug into a socket outlet.

### NOTE

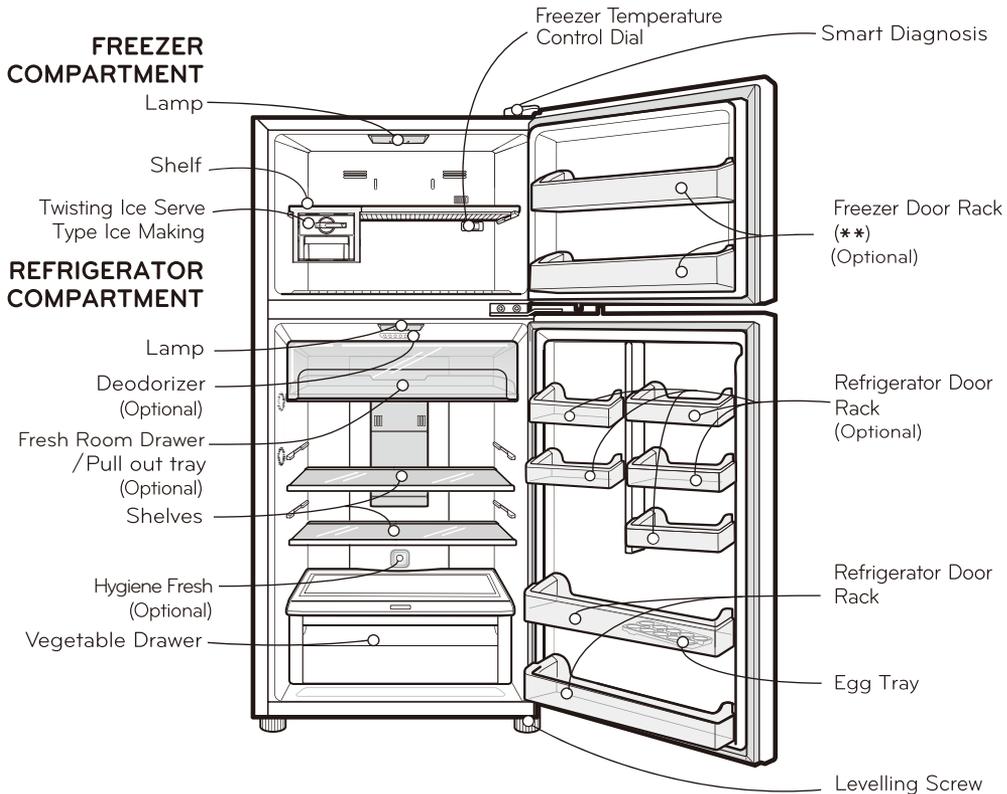
- After connecting the power supply cord (or plug) to the outlet, wait 2 or 3 hours before you put food into the appliance. If you add food before the appliance has cooled completely, your food may spoil.

## Moving the Appliance

- 1 Remove all food from inside the appliance.
- 2 Pull the power plug out, insert and fix it into the power plug hook at the rear or on top of the appliance.
- 3 Tape parts such as shelves and the door handle to prevent from falling off while moving the appliance.
- 4 Move the appliance with more than two people carefully. When transporting the appliance over a long distance, keep the appliance upright.
- 5 After installing the appliance, connect the power plug into a socket out to switch on the appliance.

## Parts and Functions

\* This feature is only available on some models.



- NOTE**
- This guide covers several different models. The refrigerator you have purchased may have some or all of the features shown above.
  - To keep a position of inner parts like as baskets, drawers and shelves supplied by manufactureris the most efficient usage for energy saving.

## SUGGESTION FOR ENERGY SAVING

- Please do not keep the door open for a long time, close door in the shortest time.
- Too much food are not advised to be put in. Enough space should be kept for cool air circulating freely.
- Do not set the temperature of refrigerator lower than needed. Do not put the food near the temperature sensor.
- Allow hot food to cool prior to storing. Placing hot food in the fridge-freezer could spoil other food, and lead to higher electric bills.
- Do not block air vents with food. Smooth circulation of cold air keeps fridge-freezer temperature even.
- Do not open the door frequently. Opening the door lets warm air enter the fridge-freezer, and cause temperature to rise.
- The automatic defrosting system in the appliance ensures that the compartment remains free of ice buildup under normal operating conditions.

## STARTING

When your refrigerator is first installed, allow it 2-3 hours to stabilize at normal operating temperatures prior to filling it with fresh or frozen foods.

If operation is interrupted, wait 5 minutes before restarting.

## BEFORE SETTING THE TEMPERATURE

- The temperature of the refrigerator is kept constant regardless of changes in room temperature. It is recommended that, once set, the temperature settings (the controls for the refrigerator and freezer compartments) not be changed unless necessary.
- This refrigerator has one temperature control button for the refrigerator compartment and one temperature control dial for the freezer compartment.
- The default setting of the temperature control button for the refrigerator compartment is '3°C'. (for external controller model),
- The default setting of the temperature control dial for the freezer compartment is '5'.
- This refrigerator has a temperature sensor in the refrigerator compartment. It will start and stop the compressor automatically as needed.

## DOOR ALARM

When the door of the refrigerator or the freezer is open for 1 minute, an alarm will sound three times. If the door remains open, the alarm will repeat every 30 seconds.

## SELF TEST

- Your refrigerator contains a built in diagnostic capability. If it develops a malfunction in certain areas, it will display an error code to assist the repair technician. While an error code is displayed, other control and display functions will not operate.
- If an error code is displayed, contact a service center. Do not disconnect the power cord from the outlet.

## CONTROLS FOR REFRIGERATOR COMPARTMENT



- Touch 'Fridge' button to control refrigerator temperature.
- Whenever touching the button, the LED emits light.
- Touch 'Hygiene Fresh' button to operate hygiene motor.
- The number showing up on the LED luminesce indicate the temperature of refrigerator compartment.
- You can select the desired setting point seven steps, from '0°C' to '6°C'.
  - Touch **a** button, Fridge temperature will be down each 1°C.
  - Touch **b** button, Hygiene Fresh motor will be on, power mode, off.

### EXPRESS FREEZE (Optional)

- The Express Freeze feature operates when the refrigerator first turn on. The compressor and circulating fan operate at maximum cooling capacity to quickly lower the refrigerator temperature. It shuts off automatically.
- If warm food is placed into the refrigerator, Express Freeze can be started with the button on the control panel. Express Freeze will shut off when the temperature reaches the proper level or it can be shut off manually by touching the Express Freeze button.



### LOCK (Optional)

- LOCK  
Touch and hold the Lock button for 3 seconds to lock the Lock. When it is locked, the Lock LED will be on and the other button will not operate. To unlock, touch and hold the Lock button for 3 seconds again.



### Wi-Fi (Optional)

This sets the refrigerator to connect to your home's Wi-Fi network.



## HYGIENE FRESH (Optional)

### CAUTION

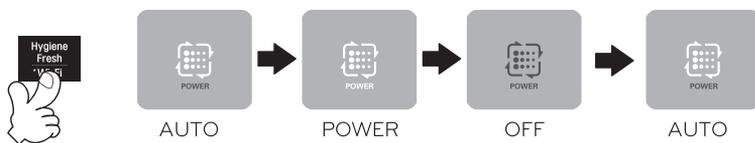
Before installing or using the product, make sure to read the owner's manual carefully to use the product accurately as intended. This HYGIENE FRESH filter has the antibacterial function of removing the virus or bacteria inside the refrigerator and the deodorizer function to remove the scent.

- Switch over to use mode

Switch over to use mode.

- To use the HYGIENE FRESH filter, touch the  button on the display panel on the front side of the door and switch over to the AUTO or POWER mode.

(Whenever you touch the button, the HYGIENE FRESH filter will be switched to AUTO → POWER → OFF → AUTO.)



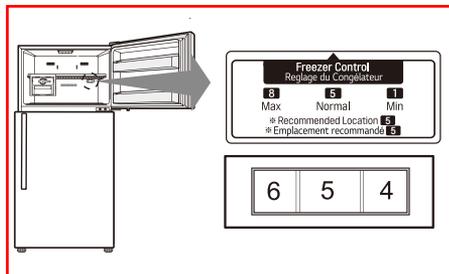
### CAUTION

When the user switches to AUTO or POWER mode, the LED around the filter is also turned on. Open the door to check whether the LED around the filter is also turned on. Do not put in your finger or alien particles inside the fan. It can be caused of an injury or malfunction.

### CAUTION

- Do not wash the HYGIENE FRESH filter by using water because It can be caused of malfunction.
- This filter may not be effective for all types of bacteria and virus.
- This is effective to remove the bacteria which is not on the food in the refrigerator.

## CONTROLS FOR FREEZER COMPARTMENT



- To lower the temperature in the freezer, turn the knob right and set to a higher number.
- To raise the temperature in the freezer, turn the knob left and set to a smaller number.
- When the freezer compartment is not cold enough in winter, adjust the control for the freezer to High ( **6**~**8** ).
- Knob **8** is for quick freezing in the freezer compartment. The refrigerator can be operated continuously or the refrigerator compartment can be warmer. When the quick freezing is finished, please return to set the Knob at Recommended Location **5**

- Setting the Freezer Knob at **8** will satisfy **✱✱✱**. Setting the Freezer Knob at Recommended Location **5** will have sufficient freezing effect, so it is recommended to set the Knob at Recommended Location **5**
- Refrigerator temperature would be warmer when the Freezer temperature set to be colder.

## ICE MAKING

### Twisting Ice Serve Type

- To make ice cubes, fill the ice tray with water and insert in its position.
- To remove ice cubes, hold the lever of the tray and pull turn gently. Then, ice cubes drop in to the ice cube box.



### **!** WARNING

Fill with potable water only.

### NOTE

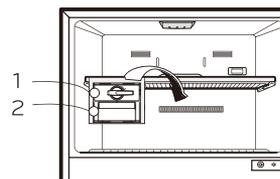
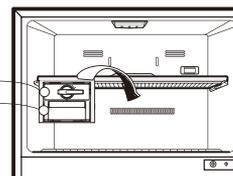
You can disassemble the Ice Maker to secure space in the freezer.

- **Twisting Ice Serve Type:** Remove 1 and 2
  1. Ice Tray
  2. Ice Cube Box.

### **!** WARNING

- Do not use anything other than water.
- Fill the water up to the marked line.

Ice Trays  
Ice Cube Box



<Twisting Ice Serve Type>

## DEFROSTING

- Defrosting takes place automatically.
- The defrosted water flows down to the evaporating tray which located in the lower back side of the refrigerator and is evaporated automatically.

## VEGETABLE DRAWER

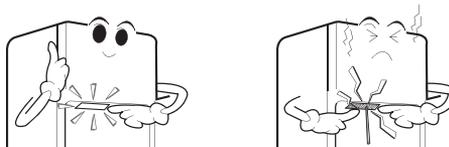
### How to use

- Vegetable drawer can be used through the control of knob.
- Check the position of knob prior to store the food.
- Do not locate the knob on the middle point.



## DEODORIZER (Optional)

- Unpleasant odor of food in fresh food compartment is deodorized with no harm to you and the food.

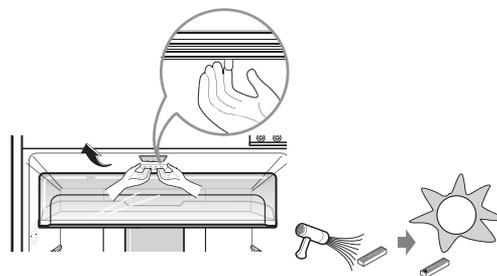


### How to use

- As Deodorizer is located in cooling air inlet for circulating air in fresh food compartment, there is no need for any handling.
- Do not prick the cooling air inlet with a sharp tip because Deodorizer may be damaged.
- When storing food with a strong odor, wrap it or store it in a container with a lid because odor may be passed on to other foods.

### Re-Using of Deodorizer

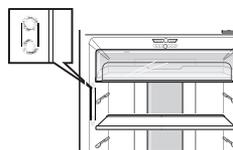
- Used some length and the odor is strong, Deodorizer can be revived and re-used.
- Separate Deodorizer in ceiling of refrigerator compartment, using hair drier to remove moisture or malodor and oxidize under sunlight to decomposing malodor by ultraviolet.



## GREEN ION DOOR COOLING

- The anion coating in the duct cover purifies the air and helps stored foods remain fresh longer.
- If water of foreign substances enter the cool air vent while cleaning, efficiency will be lowered. In addition, if gasket is damaged, efficiency may be lowered owing to the escape of cool air.

### Cool air vent



# MAINTENANCE

## SUGGESTION ON FOOD STORAGE

### STORING FOOD

- Store fresh food in the refrigerator compartment. How food is frozen and thawed is an important factor in maintaining its freshness and flavor.
- Do not store food which goes bad easily at low temperatures, such as bananas, pineapples, and melons.
- Allow hot food to cool prior to storing. Placing hot food in the refrigerator could spoil other food, and lead to higher electric bills!
- When storing the food, cover it with vinyl wrap or store in a container with a lid. This prevents moisture from evaporating, and helps food to keep its taste and nutrients.
- Do not block air vents with food. Smooth circulation of chilled air keeps refrigerator temperatures even.
- Do not open the door frequently. Opening the door lets warm air enter the refrigerator, and cause temperatures to rise.
- If there are chill compartments in the appliance, do not store vegetables and fruits with higher moisture content in the chill compartments as they may freeze due to the lower temperature.
- In the event of a blackout, call the electricity company and ask how long it is going to last.
  - You should avoid door openings while the power is off.
  - When the power supply gets back to normal, check the condition of the food.

### FREEZER COMPARTMENT

- Do not store bottles in the freezer compartment - they may break when frozen.
- Do not refreeze food that has been thawed. This causes loss of taste and nutrition.
- When storing frozen food like ice cream for a long period, place it on the freezer shelf, not in the door rack.
- It is recommended to load food at least 15mm against back of freezer wall, it will keep good air circulation in the freezer compartment.
- Loading for Freezing - It is recommended to load newly introduced foods on the following position for freezing:

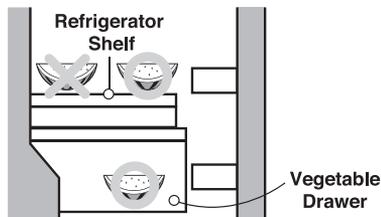


Newly Introduced Food

- Freezer Door Basket, marked (✳ ✳) is -12°C compartment, that is suitable for short term storage of frozen food (optional).

## REFRIGERATOR COMPARTMENT

- Avoid placing moist food on deep interior refrigerator shelves, it could freeze upon direct contact with chilled air. To avoid this it is better to store food in the covered container.
- It is desirable to store moist food (especially vegetable and fruit) in the vegetable storage compartment. If it is necessary to store on a shelf of the refrigerator, put it close to the door away from the back wall of the refrigerator to avoid being frozen by the cool circulating in the refrigerator.
- Always clean food prior to refrigeration. Vegetables and fruits should be washed and wiped, and packed food should be wiped clean, to prevent adjacent food from spoiling.
- When storing eggs in their storage rack, ensure that they are fresh, and always store them in a up-right position, which keeps them fresh longer.



## CLEANING

It is important that your refrigerator be kept clean to prevent undesirable odors. Spilled food should be wiped up immediately, since it may acidify and stain plastic surfaces if allowed to settle.

Never use metallic scouring pads, brushes, coarse abrasive cleaners or strong alkaline solutions on any surface.

Before you clean, however, remember that damp objects will stick or adhere to extremely cold surfaces. Do not touch frozen surfaces with wet or damp hands.

**EXTERIOR** - Use a lukewarm solution of mild soap or dish washable solution to clean the durable finish of your refrigerator. Wipe with a clean, damp cloth and then dry.

For products with a stainless steel exterior, use a clean sponge or soft cloth and a mild Detergent in warm water. Do not use abrasive or harsh cleaners. Dry thoroughly with a Soft cloth. Do not use appliance wax, bleach, or other products containing chlorine on stainless steel.

**INTERIOR** - Regular cleaning of the interior and interior parts is recommended. Use a lukewarm solution of mild soap or dish washable solution to clean the durable finish of your refrigerator. Wipe with a clean, damp cloth and then dry.

**INTERIOR PARTS** - Wash compartment shelves, door racks, storage trays and magnetic door seals etc. Use a lukewarm solution of mild soap or dish washable solution to clean the durable finish of your refrigerator. Wipe with a clean damp cloth and then dry.

### WARNING

Always remove power cord from the wall outlet prior to cleaning in the vicinity of electrical parts (lamps, switches, controls, etc.). Wipe up excess moisture with a sponge or cloth to prevent water or liquid from getting into any electrical part and causing electric shock. Do not use flammable or toxic cleaning liquids.

- Caution for Cleaning Not in use : Surface active agent, Car wax, Anticorrosive, All sorts of oil, Gasoline, Acids, Wax.
- Usable Detergent Vegetable dish washable solution, Soapy water.
- When careless using, it can occur a color change.

## GENERAL INFORMATION

### VACATION TIME

If you are leaving the appliance turned off for an extended period of time, remove all food and unplug the power cord. Clean the interior, and leave the doors slightly ajar to prevent mold from growing in the appliance.

### POWER FAILURE

Most power failures are corrected in an hour or two and will not affect your refrigerator temperatures. However, you should minimize the number of door openings while the power is off. During power failures of longer duration, place a block of dry ice on top of your frozen packages.

### IF YOU MOVE

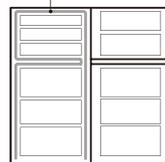
Remove or securely fasten down all loose items inside the refrigerator. To avoid damaging the leveling screw(s), turn them all the way into the base.

### ANTI-CONDENSATION PIPE

The outside wall of the refrigerator cabinet may sometimes get warm, especially just after installation.

Don't be alarmed. This is due to the anti-condensation pipe, which pumps hot refrigerant to prevent "sweating" on the outer cabinet wall.

**Anti-Condensation Pipe**



## LAMP REPLACEMENT

### NOTE

- This product use LED lamp which not intend to be replaced by user, please contact authorized service center for lamp replacement.

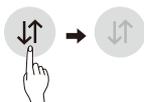
## Using LG SmartThinQ Application

- For appliances with the  or  logo

The LG SmartThinQ application allows you to communicate with the appliance using a smartphone.

### Before Using LG SmartThinQ

- 1 Check the distance between the appliance and the wireless router (Wi-Fi network).
  - If the distance between the appliance and the wireless router is too far, the signal strength becomes weak. It may take a long time to register or installation may fail.
- 2 Turn off the **Mobile data** or **Cellular Data** on your smartphone.



- 3 Connect your smartphone to the wireless router.



### NOTE

- To verify the Wi-Fi connection, check that **Wi-Fi**  icon on the control panel is lit.
- The appliance supports 2.4 GHz Wi-Fi networks only. To check your network frequency, contact your Internet service provider or refer to your wireless router manual.
- LG SmartThinQ is not responsible for any network connection problems or any faults, malfunctions, or errors caused by network connection.

- If the appliance is having trouble connecting to the Wi-Fi network, it may be too far from the router. Purchase a Wi-Fi repeater (range extender) to improve the Wi-Fi signal strength.
- The Wi-Fi connection may not connect or may be interrupted because of the home network environment.
- The network connection may not work properly depending on the Internet service provider.
- The surrounding wireless environment can make the wireless network service run slowly.
- The appliance cannot be registered due to problems with the wireless signal transmission. Unplug the appliance and wait about a minute before trying again.
- If the firewall on your wireless router is enabled, disable the firewall or add an exception to it.
- The wireless network name (SSID) should be a combination of English letters and numbers. (Do not use special characters.)
- Smartphone user interface (UI) may vary depending on the mobile operating system (OS) and the manufacturer.

- If the security protocol of the router is set to **WEP**, you may fail to set up the network. Please change it to other security protocols (**WPA2** is recommended) and register the product again.
- This product contains the LCW-004 plate, homologation code ANATEL 04996-16-00574.

### Installing LG SmartThinQ

Search for the LG SmartThinQ application from the Google Play Store or Apple App Store on a smart phone. Follow instructions to download and install the application.

## LG SmartThinQ Application Features

Communicate with the appliance from a smart phone using the convenient smart features.

### Firmware Update

Keep the appliance performance updated.

### Smart Diagnosis™

If you use the Smart Diagnosis function, you will be provided with the useful information such as a correct way of using the appliance based on the pattern of use.

### Settings

Allows you to set various options on the refrigerator and in the application.

### NOTE

- If you change your wireless router, Internet service provider, or password, delete the registered appliance from the LG SmartThinQ application and register it again.
- The application is subject to change for appliance improvement purposes without notice to users.
- Functions may vary by model.

## Connecting to Wi-Fi

The **Wi-Fi** button, when used with the LG SmartThinQ application, allows the appliance to connect to a home Wi-Fi network. The **Wi-Fi** icon shows the status of the appliance's network connection. The icon illuminates when the appliance is connected to the Wi-Fi network.

### Initial Appliance Registration

Run the LG SmartThinQ application and follow the instructions in the application to register the appliance.

## Re-registering the Appliance or Registering Another User

Press and hold the **Wi-Fi** button for 3 seconds to temporarily turn it off. Run the LG SmartThinQ application and follow the instructions in the application to register the appliance.

### NOTE

- To disable the Wi-Fi function, press and hold the **Wi-Fi** button for 3 seconds. Wi-Fi icon will be turned off.

## Open Source Software Notice Information

To obtain the source code under GPL, LGPL, MPL, and other open source licenses, that is contained in this product, please visit <http://opensource.lge.com>.

In addition to the source code, all referred license terms, warranty disclaimers and copyright notices are available for download.

LG Electronics will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping, and handling) upon email request to [opensource@lge.com](mailto:opensource@lge.com). This offer is valid for a period of three years after our last shipment of this product. This offer is valid to anyone in receipt of this information.

## Using Smart Diagnosis™

- For appliances with the  or  logo

### Smart Diagnosis™ Through the Customer Information Centre

Use this function if you need an accurate diagnosis by an LG Electronics customer information centre when the appliance malfunctions or fails. Use this function only to contact the service representative, not during normal operation.

#### 1 Close all refrigerator doors, and press and hold display lock button to make it locked state.

- If the display is already in locked state, press and hold lock button to reset the lock and press and hold the lock button again to make it locked state.



#### ⚠ Caution

If it passes 5 minutes in locked state, smart diagnosis function will not be activated, so be careful.

#### 2 Press and hold fridge temperature button for 3 seconds or longer.

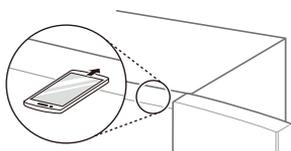
(All display screens will be turned off, and in a while, 3 will be displayed on the fridge temperature display part.)



#### 3 Open all refrigerator compartment and freezer compartment doors, and place the telephone near the speaker hole at the top right side.

alto-falante no lado superior direito.

Check if the speaking side(microphone) of the telephone is toward the speaker hole.



#### 4 Do not take away the telephone while data is being transmitted.

During the data transmission for smart diagnosis, wait with the telephone placed near the speaker hole at the top right side. The remaining time for data transmission is displayed on the display screen.

#### ⚠ Caution

- The transmission sound may be irritating. Do not take away the telephone until the sound stops for good diagnosis.

#### 5 After the completion of the data transmission, listen to the explanation of the consultant about the result of the smart diagnosis.

When the data transmission is completed, along with the display of the data transmission completion, the refrigerator will be automatically turned off and on a few seconds later.

Listen to the explanation of the consultant about the result of the analyzed diagnosis and follow the instructions.

#### NOTE

- Position the phone so that its microphone is aligned with the speaker hole.
- The Smart Diagnosis™ sound is generated after around three seconds.
- Do not take the phone off the speaker hole while the data is transmitted.
- Hold the phone to the upper right speaker hole and wait while the data is transmitted.
- The data transfer sound may be harsh to the ear while the Smart Diagnosis™ data is being transmitted, but do not take the phone off the speaker hole for accurate diagnosis until the data transfer sound has stopped.
- When the data transfer is complete, the transfer completion message is displayed and the control panel is automatically turned off and then on again after a few seconds. Afterwards the customer information centre explains the diagnosis result.
- The Smart Diagnosis™ function depends on the local call quality.
- The communication performance will improve and you can transmit a better signal if you use a land line home phone.
- If the Smart Diagnosis™ data transfer is poor due to poor call quality, you may not receive the best Smart Diagnosis™ service.

Symptoms	Reason	Solution
There is no refrigeration or freezing.	Is there a power interruption?	<ul style="list-style-type: none"> <li>• Check the power of other appliances.</li> </ul>
	If the power plug unplugged from the outlet?	<ul style="list-style-type: none"> <li>• Plug the power plug in the outlet properly.</li> </ul>
There is poor refrigeration or freezing.	Is the fridge or freezer temperature set to its warmest setting?	<ul style="list-style-type: none"> <li>• Set the fridge or freezer temperature to 'Medium'.</li> </ul>
	Is the appliance in direct sunlight, or is it near a heat generating object such as cooking oven or heater?	<ul style="list-style-type: none"> <li>• Check the installation area and reinstall it away from heat generating objects.</li> </ul>
	Did you store hot food without cooling it first?	<ul style="list-style-type: none"> <li>• Cool the hot food first before putting it in the fridge or freezer compartment.</li> </ul>
	Did you put in too much food?	<ul style="list-style-type: none"> <li>• Maintain an appropriate space between food.</li> </ul>
	Are the appliance doors completely closed?	<ul style="list-style-type: none"> <li>• Completely close the door and make sure that stored food is not obstructing in the door.</li> </ul>
	Is there enough space around the appliance?	<ul style="list-style-type: none"> <li>• Adjust the installation position to make enough space around the appliance.</li> </ul>
The appliance contains a bad smell.	Is the fridge or freezer temperature set to 'Warm'?	<ul style="list-style-type: none"> <li>• Set the fridge or freezer temperature to 'Medium'.</li> </ul>
	Did you put in food with a strong smell?	<ul style="list-style-type: none"> <li>• Store foods with strong smells in a sealed containers.</li> </ul>
	Vegetables or fruit may have spoiled in the drawer?	<ul style="list-style-type: none"> <li>• Throw away rotten vegetables and clean the vegetable drawer. Do not store vegetables too long in the vegetable drawer.</li> </ul>
The inside lamp in the appliance does not turn on.	Does the inside lamp in the appliance turn off?	<ul style="list-style-type: none"> <li>• It is not possible for customers to replace the inside lamp in the appliance as they are not serviceable. If the inside lamp does not turn on, please contact the LG Electronics customer information centre.</li> </ul>

Symptoms	Reason	Solution
The appliance door is not closed tightly.	Is the appliance leaning forward?	<ul style="list-style-type: none"> <li>Adjust the front feet to raise the front side slightly.</li> </ul>
	Were the shelves properly assembled?	<ul style="list-style-type: none"> <li>Refit the shelves if needed.</li> </ul>
	Did you close the door with excessive force?	<ul style="list-style-type: none"> <li>If you apply too much force or speed when closing the door, it may remain briefly open before closing. Make sure that you do not slam the door closed. Close without force.</li> </ul>
It is difficult to open the appliance door.	Did you open the door right after you closed it?	<ul style="list-style-type: none"> <li>If you try to open the appliance door within one minute after you closed it, you may have difficulties because of the pressure inside the appliance. Try to open the appliance door again in a few minutes so that the internal pressure stabilizes.</li> </ul>
There is condensation inside the appliance or on the bottom of the vegetable drawer cover.	Did you store hot food without cooling it first?	<ul style="list-style-type: none"> <li>Cool the hot food first before putting it in the fridge or freezer compartment.</li> </ul>
	Did you leave the appliance door open?	<ul style="list-style-type: none"> <li>Although the condensation will disappear soon after you close the appliance door, you can wipe it with a dry cloth.</li> </ul>
	Do you open and close the appliance door too frequently?	<ul style="list-style-type: none"> <li>Condensation can form due to the temperature difference from the outside. Wipe out the dampness with a dry cloth.</li> </ul>
	Did you put warm or moist food inside without sealing it in a container?	<ul style="list-style-type: none"> <li>Store food in a covered or sealed container.</li> </ul>
Frost has formed in the freezer compartment.	Doors may not be closed properly?	<ul style="list-style-type: none"> <li>Check if the food item inside the appliance is blocking the door and make sure that the door is tightly closed.</li> </ul>
	Did you store hot food without cooling it first?	<ul style="list-style-type: none"> <li>Cool the hot food first before putting it in the fridge or freezer compartment.</li> </ul>

Symptoms	Reason	Solution
Frost has formed in the freezer compartment.	Is the air entry or exit of the freezer compartment blocked?	<ul style="list-style-type: none"> <li>• Make sure that air entry or exit is not blocked so that the air can circulate inside.</li> </ul>
	Is the freezer compartment overfilled?	<ul style="list-style-type: none"> <li>• Maintain an appropriate space between items.</li> </ul>
Frost or condensation has formed inside or outside the appliance.	Did you open and close the appliance door frequently or is the appliance door improperly closed?	<ul style="list-style-type: none"> <li>• Frost or condensation can form if the outside air penetrates inside the appliance.</li> </ul>
	Is the installation environment humid?	<ul style="list-style-type: none"> <li>• Condensation can appear on the exterior of the appliance if the installation area is too humid or on a humid day such as a rainy day. Wipe off any moisture with a dry cloth.</li> </ul>
The appliance is noisy and generates abnormal sounds.	Is the appliance installed on a weak floor or improperly leveled?	<ul style="list-style-type: none"> <li>• Install the appliance on a solid and flat area.</li> </ul>
	Does the rear of the appliance touch the wall?	<ul style="list-style-type: none"> <li>• Adjust the installation position to allow enough clearance around the appliance.</li> </ul>
	Are objects scattered behind the appliance?	<ul style="list-style-type: none"> <li>• Remove the scattered objects from behind the appliance.</li> </ul>
	Is there an object on top of the appliance?	<ul style="list-style-type: none"> <li>• Remove the object on top of the appliance.</li> </ul>
The side or front of the appliance is warm.	There are anti condensation pipes fitted to these areas of the appliance to reduce condensation forming from around the door area.	<ul style="list-style-type: none"> <li>• The heat releasing pipe to prevent condensation is installed on the front and side of the appliance. You may feel it particularly hot right after the appliance is installed or during the summer. You can be assured that this is not a problem and is quite normal.</li> </ul>
There is water inside or outside of the appliance.	Is there water leakage around the appliance?	<ul style="list-style-type: none"> <li>• Check if the water has leaked from a sink or another place.</li> </ul>
	Is there water on the bottom of the appliance?	<ul style="list-style-type: none"> <li>• Check if the water is from the thawed frozen food or a broken or dropped container.</li> </ul>

Symptoms	Reason	Solution
Clicking noises	The defrost control will click when the automatic defrost cycle begins and ends. The thermostat control (or appliance control on some models) will also click when cycling on and off.	<ul style="list-style-type: none"> <li>• Normal Operation</li> </ul>
Rattling noises	Rattling noises may come from the flow of appliance, the water line on the back of the unit (for plumbed models only), or items stored on top of or around the appliance.	<ul style="list-style-type: none"> <li>• Normal Operation</li> </ul>
	Appliance is not resting evenly on the floor.	<ul style="list-style-type: none"> <li>• Floor is weak or uneven or leveling legs need to be adjusted. See the Door Alignment section.</li> </ul>
	Appliance with linear compressor was moved while operating.	<ul style="list-style-type: none"> <li>• Normal operation. If the compressor does not stop rattling after three minutes, turn the power to the appliance off and then on again.</li> </ul>
Whooshing noises	Evaporator fan motor is circulating air through the fridge and freezer compartments.	<ul style="list-style-type: none"> <li>• Normal Operation</li> </ul>
	Air is being forced over the condenser by the condenser fan.	<ul style="list-style-type: none"> <li>• Normal Operation</li> </ul>
Gurgling noises	Appliance flowing through the cooling system	<ul style="list-style-type: none"> <li>• Normal Operation</li> </ul>
Popping noises	Contraction and expansion of the inside walls due to changes in temperature.	<ul style="list-style-type: none"> <li>• Normal Operation</li> </ul>
Vibrating	If the side or back of the appliance is touching a cabinet or wall, some of the normal vibrations may make an audible sound.	<ul style="list-style-type: none"> <li>• To eliminate the noise, make sure that the sides and back do not make any contact with any wall or cabinet.</li> </ul>

Symptoms	Reason	Solution
<p><b>Your home appliance and smartphone are not connected to the Wi-Fi network.</b></p>	<p><b>The password for the Wi-Fi that you are trying to connect to is incorrect.</b></p>	<ul style="list-style-type: none"> <li>Find the Wi-Fi network connected to your smartphone and remove it, then register your appliance on LG SmartThinQ.</li> </ul>
	<p><b>Mobile data for your smartphone is turned on.</b></p>	<ul style="list-style-type: none"> <li>Turn off the <b>Mobile data</b> of your smartphone and register the appliance using the Wi-Fi network.</li> </ul>
	<p><b>The wireless network name (SSID) is set incorrectly.</b></p>	<ul style="list-style-type: none"> <li>The wireless network name (SSID) should be a combination of English letters and numbers. (Do not use special characters.)</li> </ul>
	<p><b>The router frequency is not 2.4 GHz.</b></p>	<ul style="list-style-type: none"> <li>Only a 2.4 GHz router frequency is supported. Set the wireless router to 2.4 GHz and connect the appliance to the wireless router. To check the router frequency, check with your Internet service provider or the router manufacturer.</li> </ul>
	<p><b>The distance between the appliance and the router is too far.</b></p>	<ul style="list-style-type: none"> <li>If the distance between the appliance and the router is too far, the signal may be weak and the connection may not be configured correctly. Move the location of the router so that it is closer to the appliance.</li> </ul>

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