



ENGLISH

OWNER'S MANUAL

REFRIGERATOR

FREEZER

Please read this manual carefully before operating your set and retain it for future reference.



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Registration

The model and serial number are found on the rear of this unit. This number is unique to this unit and not available to others. You should record requested information here and retain this guide as a permanent record of your purchase. Staple your receipt here.

Date of Purchase : _____

Dealer Purchased From : _____

Dealer Address : _____

Dealer Phone No. : _____

Model No. : _____

Serial No. : _____

Important Safety Instruction

⚠ This is the safety alert symbol. It alerts you to safety messages that inform you of hazards that can kill or hurt you or others or cause damage to the product. All safety messages will be preceded by the safety alert symbol and the hazard signal word DANGER, WARNING, or CAUTION.

These words mean:

⚠ WARNING!

You can be killed or seriously injured if you don't follow instructions.

⚠ CAUTION!

Indicates an imminently hazardous situation which, minor or moderate injury, or product damage only.

⚠ WARNING!

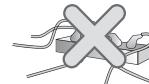
- Before it is used, this refrigerator must be properly installed and located in accordance with the installation instructions in this document.
- All safety messages will identify the hazard, tell you how to reduce the chance of injury, and tell you what can happen if the instructions are not followed.
- To reduce the risk of fire, electric shock, or injury to persons when using your product, basic safety precautions should be followed, including the following. Read all instructions before using this appliance.
- If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

When connecting the power:

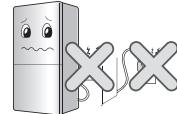
The dedicated outlet should be used.

Using several devices at one outlet may cause fire.

The electric leakage breaker may damage food and the dispenser may be leaked.

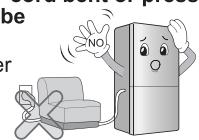


Water may be flown into or the plug may be damaged, which causes fire or electric shock.



Do not allow the power cord bent or pressed by the heavy object to be damaged.

It may damage the power cord to cause fire or electric shock.



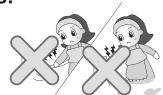
Do not extend or modify the length of the power plug.

It causes electric shock or fire by the electric damage of the power cord or others.



Do not pull out the cord or touch the power plug with wet hands.

It may cause electric shock or injury.



Remove water or dust from the power plug and insert it with the ends of the pins securely connected.

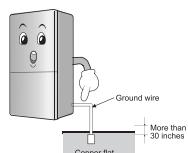
Dust, water or unstable connection may fire or electric shock.



Make sure of grounding.

Consult a qualified electrician or service person if the grounding instructions are not completely understood, or if you have doubts on whether the appliance is properly grounded or not.

The incorrect grounding may cause breakdown and electric shock.



When the power cord or the power plug is damaged or the holes of the outlet are loosed, donot use them.

It may cause electric shock or short circuit to make fire.



When using the fridge-freezer:

Do not place the heavy object or the dangerous object (container with liquid) on the fridge-freezer.

It may be dropped to cause injury, fire or electric shock when opening or closing the door.



Do not cling to the door or the shelves of the door or the home bar of the freezer or the cool chamber.

It may make the fridge-freezer fallen down or damage the hands. Especially, do not allow the children to do the above.



Do not install the fridge-freezer in the wet place or the place which water or rain splashes.

Deterioration of insulation of electric parts may cause electric leakage.



Do not use or store inflammable materials ether, benzene, alcohol, medicine, LP gas, spray or cosmetics near or in the fridge-freezer.

It may cause explosion or fire.



Do not put any living animal in the fridge-freezer.



Do not place the lit candle with in the fridge-freezer to deodorize. Do not use drier to dry the inside, nor light a candle to remove odor.

It may cause explosion or fire.



Do not store the medicine or the academic materials at the fridge-freezer.

When the material with the strict temperature control is stored, it may be deteriorated or it may make an unexpected reaction to cause any risk.



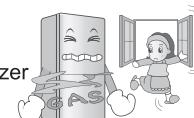
Use the submerged fridge-freezer after checking it.

It may cause electric shock or fire.



When gas is leaked, do not touch the fridge-freezer or the outlet and ventilate the room immediately.

The explosion by spark may cause fire or burn.

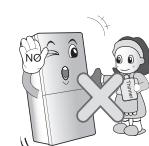


Because this fridge-freezer uses natural gas (isobutene, R600a) as the environment-friendly refrigerant, even a small amount(80~90g) is combustible.

When the gas is leaked by the severe damage during delivering, installing or using the fridge-freezer, any spark may cause fire or burn.

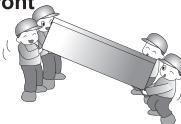
Do not spray water at the outside or the inside of the fridge-freezer or do not clean it with benzene or thinner.

Deterioration of insulation of electric parts may cause electric shock or fire.



Carry the fridge-freezer with the handle bar at the bottom of the front and the top of the rear.

Otherwise, your hands may be slipped to cause injury.



Because opening or closing the door of the fridge-freezer may cause injury to the person around it, be careful, please.

Opening or closing the door may cause feet or hands to be caught in the chink in door or the child to be get hurt by the corner.



When any strange smell or smoke is detected from the fridge-freezer, disconnect the power plug immediately and contact to the service center.

It may cause fire.



Do not allow any person except the qualified engineer to disassemble, repair or alter the fridge-freezer.

It may cause injury, electric shock or fire.



Do not use the fridge-freezer for non-domestic purpose (storing medicine or testing material, using at the ship, etc.).

It may cause an unexpected risk such as fire, electric shock, deterioration of stored material or chemical reaction.



When disposing the fridge-freezer, remove the packing materials from the door.

It may cause to lock out the child.



Install the fridge-freezer on the solid and level floor.

Installing it on the unstable place may cause death by falling down the fridge-freezer when opening or closing the door.



Do not insert the hands or the metal stick into the exit of cool air, the cover, the bottom of the fridge-freezer, the heatproof grill (exhaust hole) at the backside.

It may cause electric shock or injury.



Avoid the heating devices. Install in places away from the fire such as the place where flammable gas is leaked.

It may cause fire.



Do not insert the hands into the bottom of the fridge-freezer.

The iron plate of the bottom may cause injury.



Exclude ingress of fats and oils (including vegetable) onto plastic parts of the refrigerator.

This causes their spoilage and destruction.

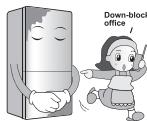


⚠ CAUTION!

**Violating this direction may cause injury or damage house or furniture.
Always be careful, please.**

**When you want to dispose the
fridge-freezer, contact to the
down-block office.**

When you want to dispose the large living waste such as electric home appliance and furniture, you'd better contact the local down-block office.



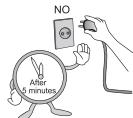
Do not touch food or containers at the freezer with wet hands.

It may cause frostbite.



Wait for 5 minutes or longer when reconnecting the plug.

It may cause the operation of the freezer to fail.



Pull out the power plug not by grasping the cord but the plug of itsend.

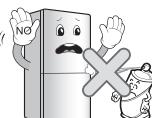
It may cause electric shock or short circuit to fire.



Do not use the combustible spray near the fridge-freezer.

Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.

It may cause fire.



Unplug the power plug when cleaning, handling or replacing the interior lamp of the fridge-freezer.

It may cause electric shock or injury.



When replacing the interior lamp of the fridge-freezer, make sure that the rubber ring for preventing the electric spark within the socket is not taken off.

In case of thunder and lightning, or not in use for along period of time, detach the power plug.

There is a danger of electric shock or fire.



Do not place flower vase, cup, cosmetics, medicine or any container with water on the fridge-freezer.

It may cause fire, electric shock or injury by dropping down.



Upon opening or closing of the door, unstable objects may overturn, fall, and result in injury.

It may cause fire, electric shock or injury by dropping down.



The power outlet should be easily accessible for the event of necessary quick disconnection.

When one door of the refrigerator is closed abruptly, another door may open, since the refrigerator compartments are connected by air ducts.

⚠ CAUTION!

This appliance is intended to be used in household and similar applications such as staff kitchen areas in shops, offices and other working environments; farm houses and by clients in hotels, motels and other residential type environments; bed and breakfast type environments; catering and similar non-retail applications.

⚠ CAUTION!

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.

⚠ WARNING!

Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.

⚠ WARNING!

The refrigerant and insulation blowing gas used in the appliance require special disposal procedures. When disposal, please consult with service agent or a similarly qualified person.

⚠ WARNING!

Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.

⚠ WARNING!

Do not damage the refrigerant circuit.

⚠ WARNING!

Do not use electrical appliances inside the food storage compartments of the appliance, unless the type of the type recommended by the manufacturer.

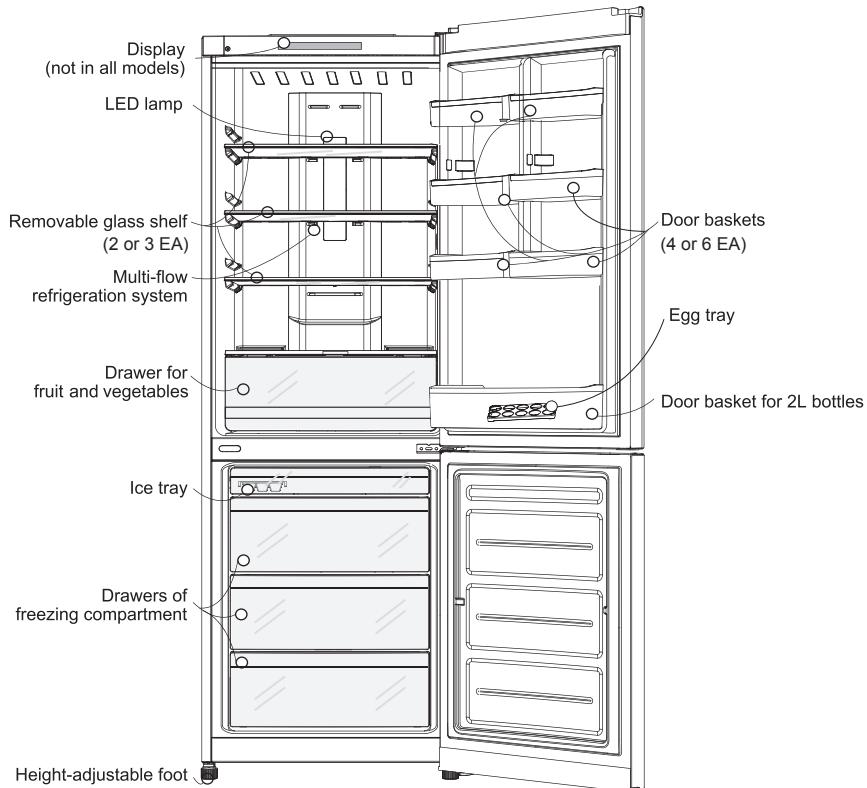


This appliance contains a small amount of isobutane refrigerant (R600a), natural gas with high environmental compatibility, but it is also combustible. When transporting and installing the appliance, care should be taken to ensure that no parts of the refrigerating circuit are damaged. Refrigerant squirting out of the pipes could ignite or cause an eye injury. 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 may be sited depends on the amount of refrigerant used. The room must be 1m² in size for every 8g of R600a refrigerant inside the appliance. 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.

Identification of Parts



NOTE

Parts, features, and options vary by model. Your model may not include every option.

INSTALLATION

- Choose the suitable place. Locate the refrigerator in a place convenient for its use;
- The refrigerator is not a built-in appliance. Free space not less than 5 cm should be provided from above, from its rear and side faces for air circulation and reduction of power consumption. Fig.1;
- Do not install the refrigerator near heat sources and in a zone exposed to direct sunlight or high humidity;
- Make sure that electrical voltage indicated in the manual meets the parameters of your mains;
- Do not remove the round stickers on the rear side of the refrigerator. They have a decorative function closing the fabrication holes;
- To exclude vibration, check the refrigerator installation using a level. If necessary, turn the adjustable feet to compensate irregularity of the floor.
To ensure better closing of the door, the refrigerator should be slightly inclined backwards. To turn the adjustable feet, slightly incline the refrigerator.
To raise the front part of the refrigerator, turn the adjustable feet counter-clockwise () to lower it – turn them clockwise ();
- To ensure proper air circulation around the fridge-freezer, please maintain sufficient space on both the sides as well as top and maintain at least 2 inches (5cm) from the rear wall.
- Before use, carefully wash the refrigerator;
- Install the removable parts, such as ice tray, etc. to the appropriate places.
It is necessary to prevent possible damages during transportation;
- Insert the power cord plug to the power outlet. Do not power other electric appliance from the same outlet.

Climate Class

The appliance is designed to operate at the limited range of ambient temperature, depending on climate zones. Do not use the appliance at the temperature out of the limit. Climate class of your appliance is indicated on the label with technical description inside the fridge compartment.

Class	Symbol	Ambient temperature range °C
Extended temperate	SN	+10 ~ +32
Temperate	N	+16 ~ +32
Subtropical	ST	+16 ~ +38
Tropical	T	+16 ~ +43

CONNECTION

After first installation of the refrigerator, let it work for 2-3 hours for stabilization of the operating temperature inside and only then fill the refrigerator with fresh or frozen foodstuffs. After disconnection of the refrigerator from the mains, wait at least 5 minutes to switch on it again. Now, the refrigerator is ready for service.

Note

Do not move refrigerator while the refrigerator is operating.

Compressor may occur a temporary rattling noise. (This is normal and will not impact on the performance or the life of the compressor. The rattling will stop after the refrigerator comes to a rest.)

Lamp Replacement

- If LED lamp is damaged, it should be replaced by the service center in stead of on your own.

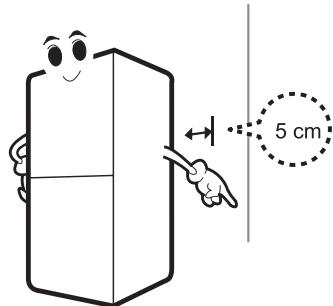


Figure 1. Installation of refrigerator from the wall

NOTE

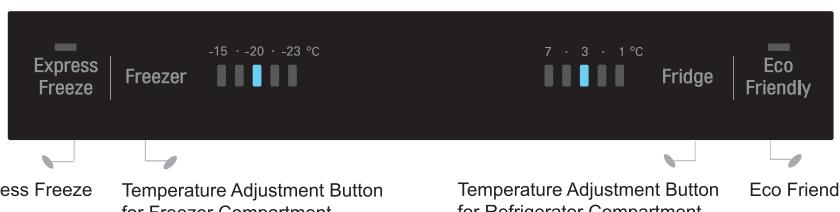
To get higher operational efficiency of the refrigerator,
Maintain at least 5cm from the wall

CONTROL PANEL

External light-emitting-diode (LED) display



Internal display



- The actual control panel may differ from model to model.

TEMPERATURE CONTROL

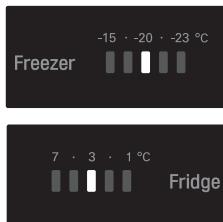
The initial temperature in the refrigeration and freezing compartments is 3 °C and -20 °C, respectively.

If you wish, you can change it pushing the temperature control button of the appropriate compartment.

External LED display



Internal LED display



NOTE

Temperature indicated on the LED display is a target value, since actual temperature inside the refrigerator varies depending on intensity of exposure to external factors, such as temperature of placed foodstuffs and door opening frequency.

After switching on, the refrigerator reaches the set mode for 2-3 days.

Express Freeze

- Select this function for prompt freezing.
- This function is used when you want to freeze the foods quickly. Press the Express Freeze button once, and then the quick freeze operation starts and the Express Freeze lamp will be on.
- The Express Freeze operation takes about 24 hrs. When its operation ends, it automatically returns to the previous temperature setting. If you want to stop the quick freeze operation manually, press the Express Freeze button once more, the lamp goes out, and the Express Freeze operation stops and the refrigerator returns to the previous temperature setting.

External LED display



ON

OFF

ON

Internal LED display



- The Express Freeze indicator remains on after the Express Freeze function is selected.

Operation

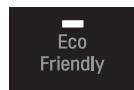
Eco Friendly

- This function makes the refrigerator work in a power saving mode which is useful for when you are away on holiday, by reducing energy consumption.
- Pressing "ECO FRIENDLY" starts the operation and turns the lamp on and pressing it again stops the operation.

External LED display



Internal LED display



Note

When the Eco Friendly mode is "ON", the Refrigerator/Freezer temperature buttons and Express Freezing function will not operate. To cancel the Eco Friendly mode, press the Eco Friendly button off so that the other buttons work and the refrigerator returns to the previous temperature setting.

Self Test

- This function automatically detects certain malfunctions when the refrigerator is in use.
- When a malfunction occurs, the temperature display locks out and cannot be changed. Do not turn off the power. Call your nearest service provider so that they can diagnose the display indicators. If the power is turned off, the error message will be reset and may be difficult to properly diagnose.

Door Alarm

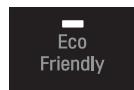
<Exterior Type>

- When the doors of the refrigerator are opened for longer than 1 minute, the alarm sounds repeatedly every 30 seconds until the door is closed. Please contact with the local service center if the alarm continues to sound even after closing the door.
- The door alarm can be muted by pressing the Door Alarm button.

External LED display



Internal LED display



Lock

<Exterior Type>

- Pressing this button stops the operation of other buttons.
- "Locking" or "Un-Locking" is repeated whenever pressing the Lock button.
(For "Locking" press the "Lock" button for 3 secs. For "Un-Locking" press the "Lock" button for 3 secs.)
- When "Lock" is activated, all other buttons will not respond.



Unlock

Lock

Unlock

Setting Wi-Fi

<Exterior Type>

- The Wi-Fi button, when used with the LG Smart ThinQ application, allows the refrigerator to connect to a home Wi-Fi network.
- The Wi-Fi icon shows the status of the refrigerator's network connection. The icon illuminates when the refrigerator is connected to the Wi-Fi network.
- Press and hold the Wi-Fi button for 3 seconds to connect to the network. The icon blinks while the connection is being made, then turns on once the connection is successfully made.

ICE PREPARATION

Fill the ice tray with water and place it to the freezing compartment.



If ice cubes are required as soon as possible, activate the "Express Freeze" function.

To remove ice cubes, hold the tray on ends and slightly bend it.



⚠ WARNING

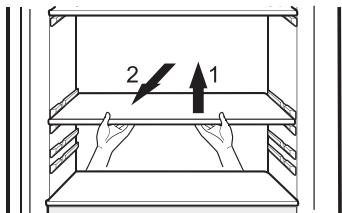
Fill with potable water only.

ADVICE

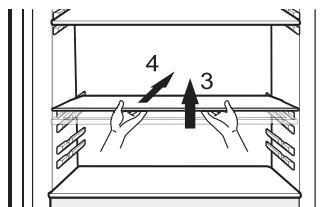
To easily remove cubes, water the tray in advance.

REMOVAL AND INSTALLATION OF DETACHABLE GLASS SHELF

To remove a shelf from the refrigerator, first slightly raise it (1) and then pull (2). Improper removal may result in damage of internal parts in the refrigerator.



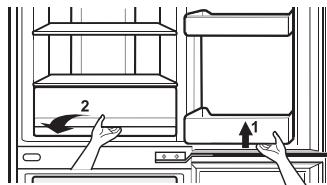
To install a shelf to the refrigerator, proceed in the same way: first raise the front edge of the shelf (3) and then push it to the refrigerator (4). Improper installation may result in damage of internal parts in the refrigerator.



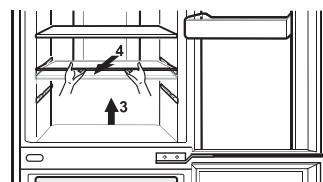
REMOVAL AND INSTALLATION OF DRAWER IN REFRIGERATION COMPARTMENT

To remove the lower drawer from the refrigeration compartment, proceed as follows:

- Remove the lower basket from the door raising the basket;
- Pull the drawer all the way out raising it by the front part and pulling;



- Raise the drawer cover by the front part and pull to remove it;



- To install the drawer back, proceed in the reverse sequence.

⚠ CAUTION!

At that, you should take care to exclude slant. Improper removal and installation may result in damage of internal parts in the refrigerator.

Two stars section (Applicable to some models only)

- Two stars section means the space stored at -12°C~18°C
- Freezer foods for short-terms storage.

NOTE

The guarantee does not cover mechanical damages (cracks, shears, dents, traces of enclosure opening, etc.) caused by violation of the refrigerator storage, transportation, operation, and maintenance rules, application of excessive force.

REMOVAL AND INSTALLATION OF DRAWERS IN FREEZING COMPARTMENT

When a large quantity of foodstuffs is stored in the freezing compartment, you can remove the middle drawer from the appliance and store foodstuffs immediately on foodstuffs placed to the lower drawer.

To remove any drawer of the freezing compartment, proceed as follows:

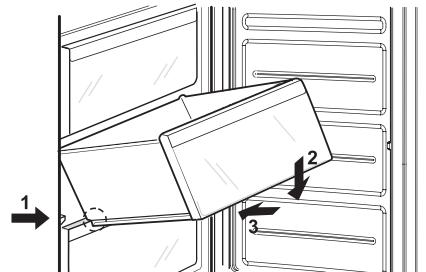
1. Pull the drawer all the way out;
2. Raise it by the front part and pull.



To install any drawer back to the freezing compartment, proceed in the reverse sequence:

1. Place the drawer onto the guides at an angle 45°;
2. Lower the front part of the drawer in parallel to the guides;
3. Push the drawer all the way in.

At that, you should take care to exclude slant.



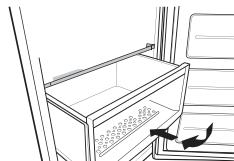
⚠ CAUTION!

Do not apply excessive force to remove the drawers and shelves – this may result in damage of the refrigerator.

Freezer Compartment (Optional)

If a large quantity of food is to be placed in the freezer compartment,

The middle drawer of freezer compartment shall be taken out of the appliance and food shall be stacked directly on the wire shelf. Freezer compartment provides wire shelf on default to maximize food storage capacity. And also the drawer is provided to convenient usage for watery meat or half-liquid state food.



FOODSTUFF STORAGE

- Do not store food which goes bad easily at low temperature, such as banana, and melon.
- 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.
- When storing the food, use 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 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.
- To adjust the temperature control easily, do not store food near the temperature control dial.
- Never keep too many foods in door rack, as this may stop the door from fully closing.
- 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.
- If it is necessary to quickly freeze fresh foodstuffs, place them to the lower drawer of the freezing compartment and push the "Express Freeze" button;
- Frozen foodstuffs should be stored packed (in polyethylene film, aluminum foil, etc.) in the freezing compartment;
- Volume of the upper drawer in the freezing compartment is the "two stars" section. Temperature inside this section does not rise above -12°C. This should be taken into account for storage of foodstuffs.

CLEANING

1. Before cleaning, make sure that power supply is switched off;
2. Outside and inside, the refrigerator should be washed with a clean napkin wetted in warm water with a liquid detergent. Then wipe dry with a dry napkin;
3. After cleaning, make sure that the power cord is not damaged. Then tightly insert the plug to the power outlet.

⚠ CAUTION!

1. It is prohibited to use abrasive materials, gasoline, benzene, solvents, hydrochloride, hot water, hard brushes, etc., which may damage the refrigerator surface.
2. 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.

GENERAL

Electric power failure.

- An interruption in electric power supply for 1-2 hours will not harm the stored foodstuffs. Try to less frequently open and close the refrigerator door during this period.

DURING MOVE:

- Remove all foodstuffs and other objects from the refrigerator. Firmly secure the internal detachable parts (shelves, drawers, door baskets);
- To avoid damage of the floor and adjustable feet of the refrigerator, turn them counter-clockwise before transportation;
- The refrigerator should be firmly secured in the truck to prevent its hits and falling inside the truck during transportation;
- The refrigerator should be transported in vertical position in a covered vehicle. The original package should not be damaged during transportation;
- During loading and unloading, the refrigerator should be protected against hits.

BEFORE SWITCHING ON:

- If the refrigerator is transported in cold season, unpack the refrigerator in a warm room and do not switch on it for at least 12 hours.

▲ CAUTION!

Do not move or incline the refrigerator during its operation.

Noise may occur in the compressor. This feature does not affect operability of the compressor.

To Reverse the Doors(Optional)

Your fridge-freezer is designed with reversible doors, so that they may open from either the left or right hand side to suit your kitchen design.

▲ CAUTION!

However, when you want to reverse the doors, you must call to service agent. Reversing the doors is not covered by the warranty.

REFRIGERATOR OPERATION FEATURES

Cracking noise may be heard due to thermal deformations of the refrigerator components. Typical sounds from activation of the thermostatic controller and compressor are normal sounds occurring during operation of electric equipment in the appliance.

The refrigerant circulating inside the refrigeration system may calmly gurgle, even if the compressor is idle.

Do not worry, this is absolutely normal.

The following sounds may be heard during operation of the refrigerator:

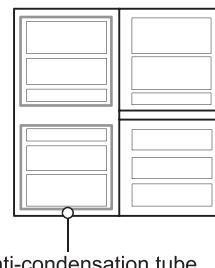
- Clicks from actuation of the temperature sensor/switch;
- Murmur of the refrigerant circulating in tubes of the refrigeration system;
- Slight cracking noise from thermal deformations of materials.

These sounds are not associated with any defect and they have a functional aspect.

ANTI-CONDENSATION TUBE:

- The anti-condensation tube is laid inside the enclosure around the front face of the refrigerator to exclude moisture condensation;

- The refrigerator may greatly heat up in these places, especially immediately after switching on for the first time or at high ambient temperature.



Before calling for service, check this list.

It may save you both time and expense.

This list includes common occurrences that are not the result of defective workmanship or materials in this appliance.

Problem	Possible Causes
Fridge-Freezer does not operate	<ul style="list-style-type: none"> • Power plug may be unplugged from the electric outlet. Plug it in securely. • House fuse has blown or circuit breaker has tripped. Check and/or replace fuse and reset circuit breaker. • Power cut. Check house lights.
Fridge or Freezer Compartment Temperature too warm	<ul style="list-style-type: none"> • Temperature control not set on proper position. Refer to Temperature Control section. • Appliance is placed close to heat source. • Warm weather-frequent door openings. • Door left open for a long time.
Vibration or Rattling or Abnormal Noise	<ul style="list-style-type: none"> • Package holding door open or blocking air duct in freezer compartment.
Frost or Ice Crystals on frozen Food	<ul style="list-style-type: none"> • The floor on which the fridge-freezer is installed may be uneven or the fridge-freezer may be unstable. Make it even by rotating the leveling screw. • Unnecessary objects placed in the back side of the fridge-freezer.
Moisture forms on Cabinet Surface	<ul style="list-style-type: none"> • Door may have been left ajar or package holding door open. • Too frequent or too long door openings. • Frost within package is normal.
Moisture collects inside	<ul style="list-style-type: none"> • This phenomenon is likely to occur in a wet space. Wipe it with a dry towel. • Too frequent or too long door openings. • In humid weather, air carries moisture into fridge when doors are opened.

Problem	Possible Causes
Fridge has odor	<ul style="list-style-type: none">• Foods with strong odors should be tightly covered or wrapped.• Check for spoiled food.• Interior needs cleaning. Refer to CLEANING section
Door not closing properly	<ul style="list-style-type: none">• Food package is keeping door open. Move packages that keep door from closing.• Fridge-freezer is not level. Adjust the leveling screws.• The floor on which the fridge-freezer is installed may be uneven or the fridge-freezer may be unstable. Slightly raise the front side with the leveling screw.
Interior light does not work	<ul style="list-style-type: none">• No power at outlet.• Light lamp needs replacing. Refer to the Lamp Replacement section

Using Smart ThinQ Application (Optional)

Installing Smart ThinQ

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

Wi-Fi Function

- For appliances with the  or  logo

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

- To verify the Wi-Fi connection, check that **Wi-Fi**  icon on the control panel is lit.
- LG Smart ThinQ is not responsible for any network connection problems or any faults, malfunctions, or errors caused by network connection.
- The machine supports 2.4 GHz Wi-Fi networks only.
- 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 application is subject to change for appliance improvement purposes without notice to users.
- Functions may vary by model.

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. This offer is valid for three (3) years from the date on which you purchased the product.

Smart Diagnosis™ Using a Smart Phone

- For appliances with the  logo

Use this function if you need an accurate diagnosis by an LG Electronics customer information centre when the appliance malfunctions or fails.

Smart Diagnosis™ can not be activated unless the appliance is connected to power. If the appliance is unable to turn on, then troubleshooting must be done without using Smart Diagnosis™.

Using Smart Diagnosis™

Smart Diagnosis™ Through the Customer Information Centre

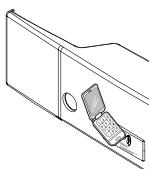
Use this function if you need an accurate diagnosis by an LG Electronics customer information center when the appliance malfunctions or fails. Use this function only to contact the service representative, not during normal operation.

External light-emitting-diode (LED) display

- 1 Press the **Lock** button to activate the lock function.
 - If the lock function has been activated already, press the **Lock** button to deactivate the lock function, and then press the **Lock** button again to activate the lock function.
 - Please note that the Smart Diagnosis function will not operate until five minutes has passed since the lock function was activated.



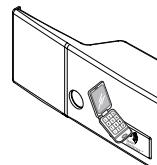
- 2 Press and hold the **Freezer** button for three seconds or longer while continuing to hold your phone to the speaker.
- 3 Open the fridge door and then hold the phone on the upper right speaker hole.
 - Position the phone so that its microphone is aligned with the speaker hole.



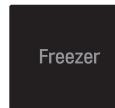
- 4 After the data transfer is complete, the service agent will explain the result of the Smart Diagnosis™.

Internal display

- 1 Open the refrigerator door.
- 2 Hold the mouthpiece of your phone in front of the speaker that is located on the right hinge of the refrigerator door, when instructed to do so by the call center.



- 3 Press and hold the Freezer Temperature button for three seconds while continuing to hold your phone to the speaker.



- 4 After you hear three beeps, release the Freezer Temperature button.
- 5 Keep the phone in place until the tone transmission has finished. This takes about 15 seconds, and the display will count down the time. Once the countdown is over and the tones have stopped, resume your conversation with the specialist, who will then be able to assist you in using the information transmitted for analysis.

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. After 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.

It is normal...		
	Occurrence	Solution
Noise	When you hear "Tak" or "Took" sound	This is the sound of various parts expanding/contracting or various control devices operating depending on the temperature change within the refrigerator.
	When you hear "Deureureuk~", "Dulkuk" or "Woong" sound	This is the compressor or fan operation when the operation of the refrigerator is starting or ending. This is the same phenomenon of the sound generated when starting or turning off the engine of a car.
	When you hear "Kureureuk" sound of water flowing	This is the sound of refrigerator changing the condition in the freezer/refrigerator. When the liquid changes to gas, you will hear the sound of water flowing and when gas changes to liquid, you will hear the "Kureureuk" sound.
	When you hear the sound of wind such as "Shoo~" or "Shik" right after you chose the door	This is the sound generated when the internal pressure is temporarily lowered when the warm air entered through the refrigerator or freezer is rapidly cooled.
	When you hear a vibrating sound	If the refrigerator is installed on wooden floor or wooden wall, or if the refrigerator is not leveled properly, the sound can be loud from the vibration.
	When you hear a loud sound after installing the product for the first time	When you operate the refrigerator for the first time, the refrigerator will operate at high speed to cool fast and the sound can seem louder. When the internal temperature falls below a certain level, the noise will subside.
Door open	When the door is slightly opened after closing the door	Depending on the force or speed of closing the refrigerator or freezer door, the door can open slightly and then close again. Be careful not to close the door too hard.
Icing/ Dew drops	When there is icing or dew drops formed on the inner or outer side of the refrigerator	When warm external air flows into the cool inner surface of the refrigerator, icing /dew drops can be formed. Especially, this will happen more easily when you open and close the refrigerator door more frequently. Also if the humidity of the installed location is high or during the rainy season or a rainy day, condensation can form on the outer side of the refrigerator. This is a natural phenomenon that occurs during the humid weather. Wipe the condensation with a dry cloth.
Temperature	When the front side of the refrigerator is warm	Heat pipes are installed around the front part of the refrigerator and on the divider of the freezer and refrigerator to prevent condensation from forming. The refrigerator may feel warmer after the installation or during summer, this is not a malfunction and is a normal occurrence.

Product Information

MODEL			BF21W / BF21TS	
PRODUCER CATEGORY			LG Electronics Refrigerator-Freezer	
Capacity (ℓ)	ISO Gross	Total	312	
		Freezer	124	
		Two stars section	-	
		Refrigerator	188	
	ISO Storage	Total	277	
		Freezer	85	
		Two stars section	10	
		Refrigerator	182	
Weight (kg)	Net / Packing		66/74	
	Width x Height x Depth	Product (mm)	595x1737x643	
		Packing(mm)	655x1815x742	
Free Standing / Built-In			Free Standing	
Defrost System			Frost Free	
Sound Power (dB)			39	
Energy Class			A++	
Energy Consumption (kWh/year)			229	
Temperature Rise Time (h)			18	
Freezing Capacity (kg/24h)			8	
Refrigerant			R600a	
Freezer Star Rating			***	
Climate Class			T	

※ Climate Class: T (This appliance is intended to be used at an ambient temperature between 16°C and 43°C.)