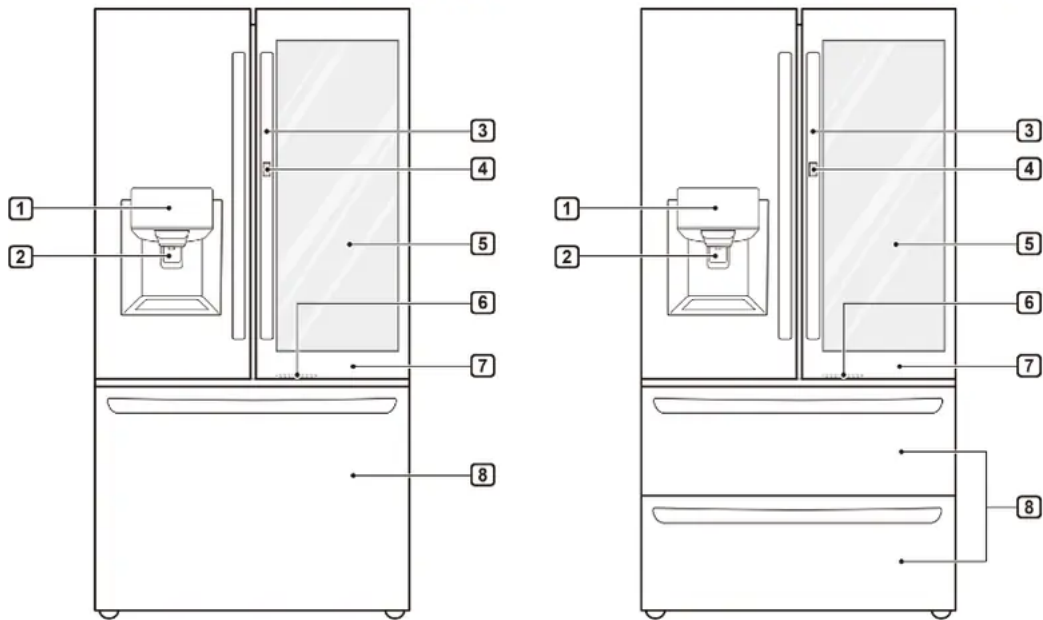


PRODUCT OVERVIEW

Exterior



1. Control Panel
2. Filtered Water and Ice Dispenser
3. Handle
4. Door Button
5. InstaView Door-in-Door
6. LED Light
7. Refrigerator
8. Freezer

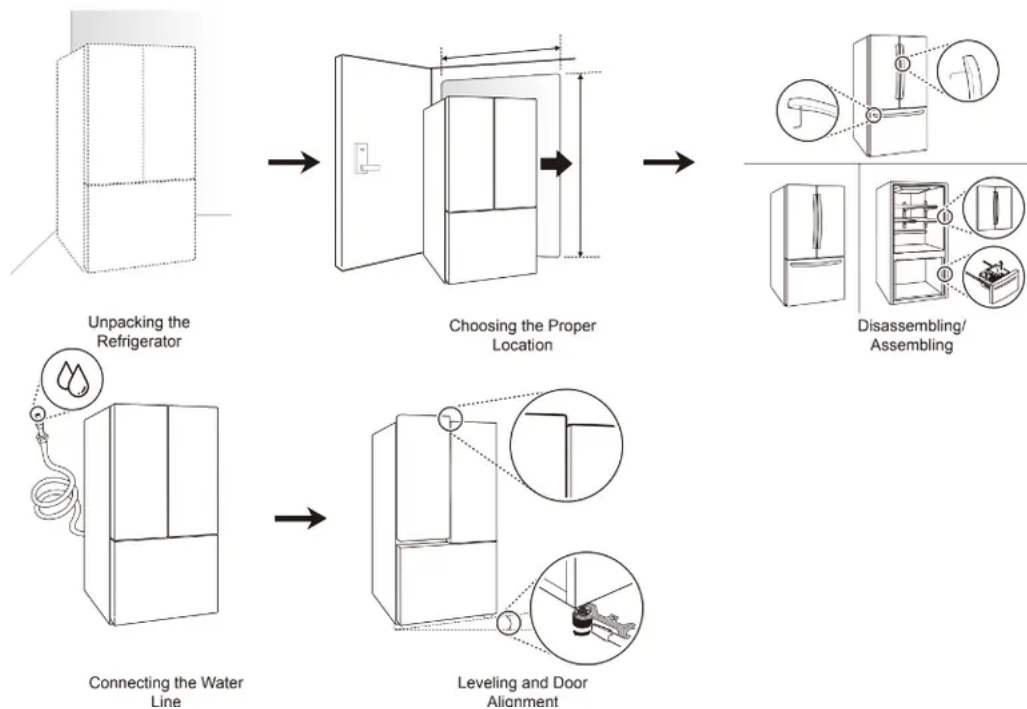
Interior



1. LED Interior Lighting
2. Water filter Filter section in this manual for details.
3. In-door Icemaker (Refrigerator)
4. Crisper
 - Humidity Controlled Crisper (On Some Models)
5. Fixed Door Bin
6. Auto-Closing Hinge (On Some Models)
7. Removable Ice Storage Bin
8. Door-in-Door Case
9. Folding Shelf
10. Adjustable Refrigerator Shelf
11. Glide'N'Serve
12. Automatic Icemaker (Freezer)
13. Pullout Drawer
14. Durabase® and Durabase® Divider

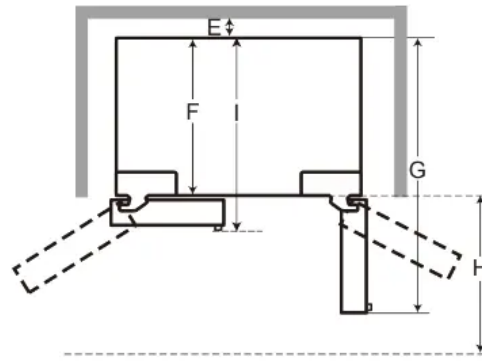
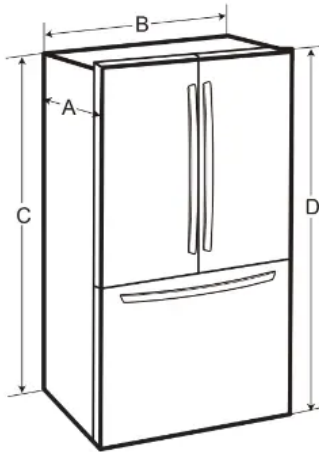
INSTALLATION

Overview



Dimensions and Clearances

- Check the dimensions of the appliance and the installation path to ensure there is sufficient room to move the refrigerator through doors or narrow openings.
- If an opening is too narrow to fit the refrigerator through, the doors must be removed.
- The installation location chosen for the refrigerator should allow space behind the unit for connections and airflow and space in front to open the doors and drawers.
- Too small of a distance from adjacent items may result in lowered freezing capability and increased electricity consumption charges. Allow at least 24 inches (610 mm) in front of the refrigerator to open the doors, and at least 2 inches (50.8 mm) between the back of the refrigerator and the wall.



-	List	LFXS28596*/ LMXS28596*	LFXS26596*	LFXC22596*
A	Depth without handle	33 3/4" (857 mm)	32 3/8" (822 mm)	28 3/4" (728 mm)
B	Width	35 3/4" (908 mm)	35 3/4" (908 mm)	35 3/4" (908 mm)
C	Height to Top of Case	68 3/8" (1737 mm)	68 3/8" (1737 mm)	68 3/8" (1737 mm)
D	Height to Top of Hinge	69 3/4" (1772 mm)	69 3/4" (1772 mm)	69 3/4" (1772 mm)
E	Back Clearance	2" (50 mm)	2" (50 mm)	2" (50 mm)
F	Depth without Door	29 7/8" (759 mm)	28 1/2" (724 mm)	24 3/4" (630 mm)
G	Depth (Total with Door Open 90°)	48 1/2" (1232 mm)	47 1/8" (1197 mm)	43 1/2" (1103 mm)
H	Front Clearance	24" (610 mm)	24" (610 mm)	24" (610 mm)
I	Depth With handle	36 1/4" (921 mm)	34 7/8" (886 mm)	31 1/4" (792 mm)

Connecting the Water Line

Before Beginning

This water line installation is not covered by the refrigerator warranty. Follow these instructions carefully to minimize the risk of expensive water damage.

If necessary, call a qualified plumber to correct water hammer before installing the water supply line to the refrigerator. Water banging in the pipes, or water hammer in residential plumbing can cause damage to refrigerator parts and lead to water leakage or flooding.

- Turn the icemaker OFF if the refrigerator will be used before the water line is connected.
- Do not install the icemaker tubing in areas where the ambient temperatures fall below freezing.

WARNING Connect to potable water supply only.

CAUTION

- To prevent burns and product damage, only connect the refrigerator water line to a cold water supply.
- Wear eye protection during installation to prevent injury.

If the water pressure from the reverse osmosis system is less than 20 psi or 138 kPa or 1.4 kgf/cm² takes more than 4 seconds to fill a cup of 7 oz or cc capacity):

- Check to see if the sediment filter in the reverse osmosis system is blocked. Replace the filter if necessary.
- Allow the storage tank on the reverse osmosis system to refill after heavy usage.
- If the water pressure remains low, call a licensed, qualified plumber.
- All installations must be in accordance with local plumbing code requirements.

Supplies Needed

- **Copper or PEX Tubing**, 1/4 in. outer diameter, to connect the refrigerator to the water supply. Be sure both ends of the tubing are cut square. To determine how much tubing you need, measure the distance from the water valve on the back of the refrigerator to the water supply pipe. Then, add 8 feet (2.4 m).

Be sure there is sufficient extra tubing (about 8 feet m] coiled into 3 turns of about 10 in. [25 cm] diameter) to allow the refrigerator to move out from the wall after installation.

- **Power drill.**
- **½ in. or adjustable wrench.**
- **Flat-blade and Phillips-head screwdrivers.**
- **Two 1/4 in. outer diameter compression nuts and ferrules (sleeves)** to connect the copper tubing to the shutoff valve and the refrigerator water valve.
- If your existing copper water line has a flared fitting at the end, purchase an adapter (available at plumbing supply stores) to connect the water line to the refrigerator OR cut off the flared fitting with a tube cutter and then use a compression fitting.
- Shutoff valve to connect to the cold water line.

The shutoff valve should have a water inlet with a minimum inside diameter of 5/32 in. at the point of connection to the COLD WATER LINE. Saddle-type shutoff valves are included in many water supply kits. Before purchasing, make sure a saddle-type valve complies with your local plumbing codes.

Water Line Installation Instructions

WARNING Electric Shock Hazard:

- When using any electrical device (such as a power drill) during installation, be sure the device is battery-powered, double-insulated or grounded in a manner that will prevent the hazard of electric shock.

Install the shutoff valve on the nearest frequently used drinking water line.

1. Shut off the main water supply.

Turn on the nearest faucet to relieve the pressure on the line.

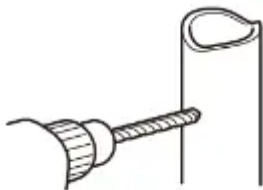
2. Choose the valve location.

Choose a location for the valve that is easily accessible. It is best to connect into the side of a vertical water pipe. When it is necessary to connect into a horizontal water pipe, make the connection to the top or side, rather than at the bottom, to avoid drawing off any sediment from the water pipe.



3. Drill the hole for the valve.

Drill a 1/4 in. hole in the water pipe using a sharp bit. Remove any burrs resulting from drilling the hole in the pipe. Be careful not to allow water to drain into the drill. Failure to drill a 1/4 in. hole may result in reduced ice production or smaller cubes.



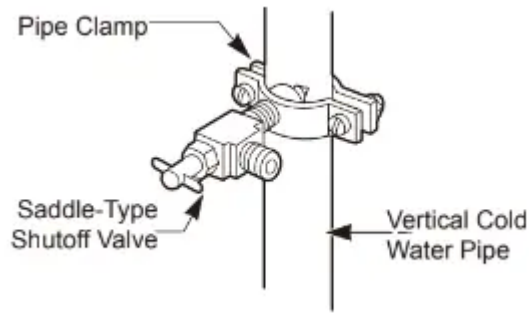
NOTE

The hookup line cannot be white, plastic tubing. Licensed plumbers must use only copper tubing NDA tubing #49595 or #49599) or Cross Link Polyethylene (PEX) tubing.

4. Fasten the shutoff valve.

Fasten the shutoff valve to the cold water pipe with the pipe clamp.



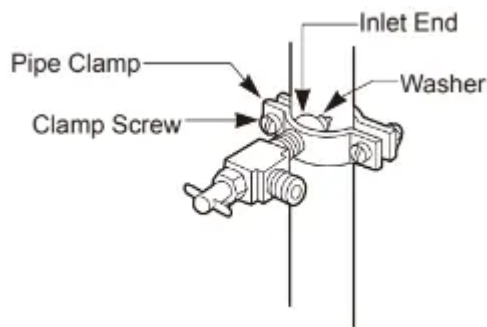


NOTE

- Commonwealth of Massachusetts Plumbing Codes 248CMR shall be adhered to. Saddle valves are illegal and their use is not permitted in Massachusetts. Consult with your licensed plumber.

5. Tighten the pipe clamp.

Tighten the clamp screws until the sealing washer begins to swell.



NOTE

Do not over tighten clamp or you may crush the tubing.

6. Route the tubing.

Route the tubing between the cold water line and the refrigerator.

Route the tubing through a hole drilled in the wall or floor (behind the refrigerator or adjacent base cabinet) as close to the wall as possible.

NOTE

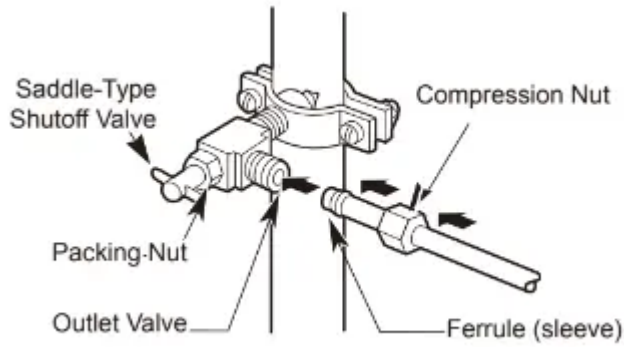
- Be sure there is sufficient extra tubing (about 8 ft. coiled into three turns of about 10 in. diameter) to allow the refrigerator to move out from the wall after installation.

7. Connect the tubing to the valve.

Place the compression nut and ferrule (sleeve) for copper tubing onto the end of the tubing and connect it to the shutoff valve.

Make sure the tubing is fully inserted into the valve. Tighten the compression nut securely.





8. Flush out the tubing.

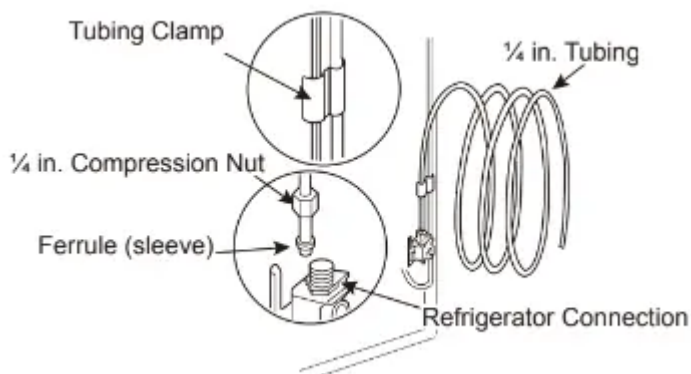
Turn the main water supply on and flush out the tubing until the water is clear. Shut the water off at the water valve after about one quart of water has been flushed through the tubing.



9. Connect the tubing to the refrigerator.

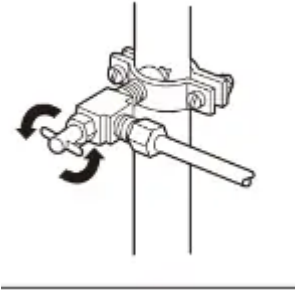
NOTE

- Before making the connection to the refrigerator, be sure that the refrigerator power cord is not plugged into the wall outlet.
- Remove the plastic flexible cap from the water valve.
- Place the compression nut and ferrule (sleeve) onto the end of the tubing as shown.
- Insert the end of the copper tubing into the connection as far as possible. While holding the tubing, tighten the fitting.



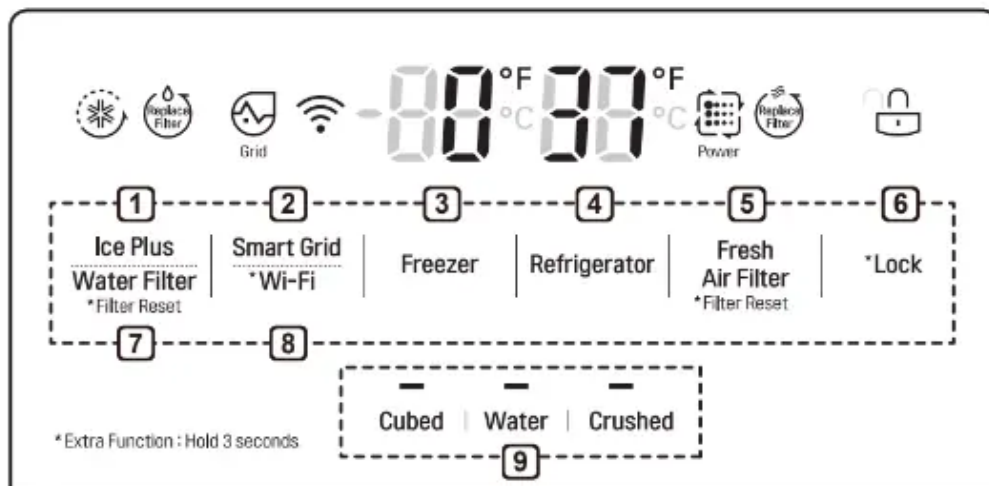
10. Turn the water on at the shutoff valve.

Tighten any connections that leak.



OPERATION

Control Panel



1. Ice Plus

This function increases both ice making and freezing capabilities.

- Press the Ice Plus button to illuminate the icon and activate the function for 24 hours. The function automatically shuts off after 24 hours.
- Stop the function manually by pressing the button once more.

2. Smart Grid

Press the Smart Grid button to turn the Smart Grid function On/Off. When the function is on, the icon illuminates. The Smart Grid function automatically turns on when the refrigerator is connected to the Wi-Fi network.

When the refrigerator is responding to a Demand Response (DR) message from the electric company, the Grid text illuminates.

3. Freezer

Indicates the set temperature of the freezer compartment in Celsius (°C) or Fahrenheit (°F).

The default freezer temperature is 0°F (-18 °C). Press the Freezer button repeatedly to select a new set temperature from -6 °F to 8 °F (-21 °C to -13 °C).

4. Refrigerator Temperature

Indicates the set temperature of the refrigerator compartment in Celsius (°C) or Fahrenheit (°F). The default refrigerator temperature is 37 °F (3°C). Press the Refrigerator button repeatedly to select a new set temperature from 33 °F to 46 °F (1°C to 8 °C).

NOTE

- To change the temperature mode from °F to °C (or vice versa) press and hold the Refrigerator and Freezer Temperature buttons simultaneously for approximately five seconds. The temperature indicator on the display window switches between Celsius and Fahrenheit.
- The displayed temperature is the target temperature, and not the actual temperature of the refrigerator. The actual refrigerator temperature depends on the food inside the refrigerator.

5. Fresh Air Filter

The Fresh Air Filter helps remove odors from the refrigerator. The Fresh Air Filter has two settings, Auto and Power. In Auto mode, the

Fresh Air Filter cycles on and off in increments of ten minutes on and 110 minutes off. If set to the Power mode, the Fresh Air Filter stays on continuously for four hours, cycling on and off in increments of ten minutes on and five minutes off. After four hours, the Fresh Air Filter switches back to Auto mode.

- Press the Fresh Air Filter button repeatedly to toggle between Power mode and Auto mode.

NOTE

Replace the air filter when the Replace Filter icon turns on. After replacing the air filter, press and hold the Fresh Air Filter button for three seconds to turn the icon light off. Replace the air filter approximately every six months.

Refer to the Replacing the Fresh Air Filter section for details.

6. Lock

- The Lock function disables every other button on the display.
- When power is initially connected to the refrigerator, the Lock function is off.
- To lock the control panel buttons, press and hold the Lock button until the closed Lock icon appears in the display and the function is activated.

To disable the Lock function, press and hold the Lock button for approximately three seconds.

7. Water Filter

Replace the water filter when the Replace Filter icon turns on. After replacing the water filter, press and hold the Water Filter button for three seconds to turn the icon light off. Replace the water filter approximately every six months.

8. Wi-Fi

The Wi-Fi button, when used with the LG SmartThinQ app, 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.

3 and 8 SABBATH (On Some Models) Sabbath mode is used on the Jewish Sabbath and holidays.

- To turn Sabbath mode on, touch the display to activate it, then press and hold the Freezer and
- Wi-Fi buttons for 3 seconds until Sb appears in the display.
- Sabbath mode automatically turns off after 96 hours.
- To turn Sabbath mode off manually, press and hold the Freezer and Wi-Fi buttons for 3 seconds.
- Once turned on, Sabbath mode is maintained even after a power outage.
- Selecting Sabbath mode automatically turns off the Alarm functions. The dispenser and InstaView function are disabled.

9. Dispenser Mode

Press the buttons to select cubed ice, water, or crushed ice. The LED illuminates over the mode selected.

CAUTION

Display Mode (For Store Use Only)

- The Display Mode disables all cooling in the refrigerator and freezer sections to conserve energy while on display in a retail store. When activated, OFF is displayed on the control panel and the display remains on for 20 seconds.

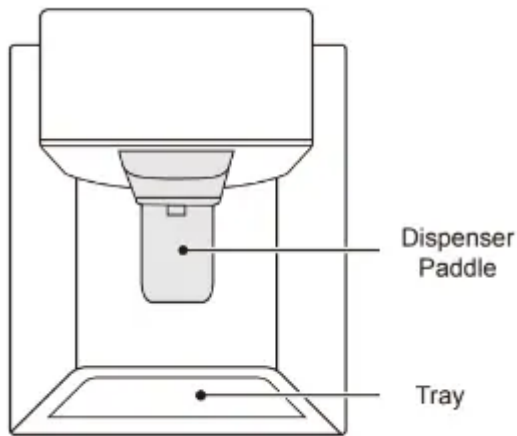
To deactivate / activate:

- With either refrigerator door opened, press and hold the Refrigerator and Ice Plus buttons at the same time for five seconds. The control panel beeps and the temperature

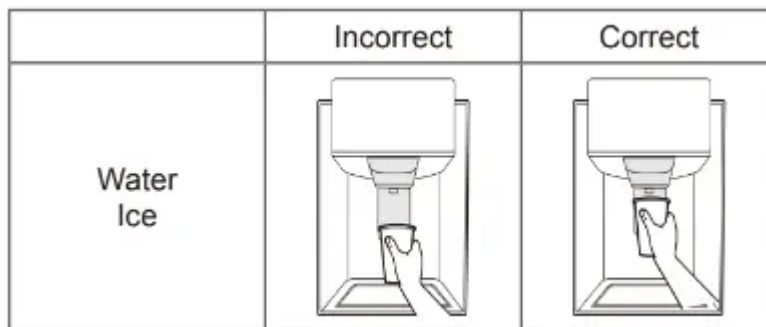
settings display to confirm that Display Mode is deactivated. Use the same procedure to activate Display Mode.

Ice and Water Dispenser

Dispenser Structure



Using the Dispenser



CAUTION

- Keep children away from the dispenser. Children may play with or damage the controls.
- Throw away the first few batches of ice (about cubes) after installation. This is also necessary if the refrigerator has not been used for a long time.
- If ice or water dispenses unexpectedly, turn off the water supply and contact an LG Electronics Customer Information Center.
- Never use a glass that is exceptionally narrow or deep. Ice may jam in the ice passage and refrigerator performance may be affected.

NOTE

- To dispense cold water or ice, push on the dispenser paddle with a glass.

- The first ice and water dispensed may include particles or odor from the water supply line or the water tank. Throw away the first few batches of ice about 140 - 160 cubes). This is also necessary if the refrigerator has not been used for a long time.
- The dispenser will not operate when either of the refrigerator doors is open.
- If discolored ice is dispensed, check the water filter and water supply. If the problem continues, contact an LG Electronics Customer Information Center.
- Do not use the water or ice until the problem is corrected.
- Dispense ice into a glass before filling it with water or other beverages. Splashing may occur if ice is dispensed into a glass that already contains liquid.
- Some dripping may occur after dispensing. Hold the cup beneath the dispenser for a few seconds after dispensing to catch all of the drops.
- Keep containers at an appropriate distance from the dispensers. Tall, narrow glasses should be held far enough from the ice outlet to prevent ice from jamming in the ice chute. A container with a very small opening should be held as close to the dispenser as possible to avoid spilling.
- Keep the glass at a proper distance from the ice outlet. A glass held too close to the outlet may prevent ice from dispensing.

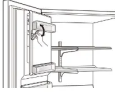

Locking the Dispenser

Press the Lock button on the control panel for 3 seconds to lock or unlock the dispenser and all of the control panel functions.

Ice Compartment

Keep the ice compartment door closed tightly. If the ice compartment door is not closed tightly, the cold air in the ice bin will freeze food in the refrigerator compartment. This could also cause the icemaker to stop producing ice.

Detaching the In-Door Ice Bin

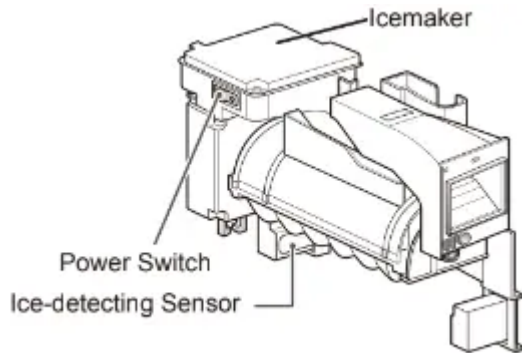
<p>1 Gently pull the handle to open the ice compartment.</p>	
<p>2 To remove the in-door ice bin, grip the front handle, slightly lift the lower part, and slowly pull out the bin as shown.</p>	

Assembling the In-Door Ice Bin

- 1 Carefully insert the in-door ice bin, slanting the top slightly to fit it under the icemaker.
- 2 Gently push the handle to close the ice compartment.

Automatic Icemaker

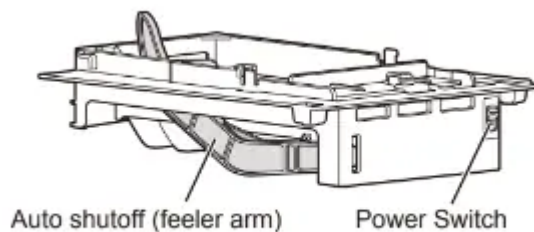
In-Door Icemaker



NOTE

- Ice is made in the automatic in-door icemaker and sent to the dispenser. The icemaker produces cubes in a 24-hour period, depending on freezer compartment temperature, room temperature, number of door openings and other operating conditions.
- It takes about 12 to 24 hours for a newly installed refrigerator to begin making ice.
- Ice-making stops when the in-door ice bin is full. When full, the in-door ice bin holds approximately 6 to 8 (12-16 oz.) glasses of ice.
- Foreign substances or frost on the ice-detecting sensor can interrupt ice production. Make sure the sensor area is clean at all times for proper operation.
- To increase ice production, use the Ice Plus function. The function increases both ice making and freezing capabilities.

Freezer Icemaker (On Some Models)



NOTE

- The automatic freezer icemaker produces 12 cubes at a time, 50-110 pieces within a 24 hour period if conditions are favorable. This amount may vary according to the

environment (ambient temperature around the appliance, frequency of the door being opened, amount of food stored in the appliance, etc.).

- If the ice bin is completely filled with ice, ice production will stop.
- Sound of ice dropping into the ice bin is normal.
- The icemaker produces ice once approximately 48 hours have passed after the appliance is initially installed.
- Discard the first ice cubes produced after initial install.
- Ice cubes which are stored in the ice bin for a long time may clump together and be difficult to separate. If this happens, empty the ice bin completely and clean it before reinstalling it.

WARNING Personal Injury Hazard

- DO NOT place fingers or hands on the automatic ice making mechanism while the refrigerator is plugged in.
- To avoid personal injury, keep hands out of the ice door and passage.

CAUTION

Never store beverage cans or other items in the ice bin for the purpose of rapid cooling. Doing so may damage the icemaker or the containers may burst.

Storing Food

NOTE

- If you are leaving home for a short period, like a short vacation, the refrigerator should be left on. Refrigerated foods that are able to be frozen will stay preserved longer if stored in the freezer.
- If you are leaving the refrigerator turned off for an extended period, remove all food and unplug the power cord. Clean the interior, and leave the doors open to prevent fungi from growing in the refrigerator.
- Do not store food with high moisture content towards the top of the refrigerator. The moisture could come in direct contact with the cold air and freeze.
- Wash food before storing it in the refrigerator. Vegetables should be washed, and food packaging should be wiped down to prevent adjacent foods from being contaminated.
- If the refrigerator is kept in a hot and humid place, frequent opening of the door or storing a lot of vegetables in the refrigerator may cause condensation to form. Wipe off the condensation with a clean cloth or a paper towel.
- If the refrigerator door or freezer drawer is opened or closed too often, warm air may penetrate the refrigerator and raise its temperature. This can increase the running costs of the unit.

Food Storage Tips

Wrap or store food in the refrigerator in airtight and moisture-proof material unless otherwise noted. This prevents food odor and taste transfer throughout the refrigerator. For dated products, check date code to ensure freshness.

Food	How to
Butter or Margarine	Keep opened butter in covered dish or closed compartment. When storing an extra supply, wrap in freezer packaging and freeze.
Cheese	Store in original wrapping until used. Once opened, rewrap tightly in plastic wrap or aluminum foil.
Milk	Wipe milk cartons. For coldest milk, place containers on an interior shelf.
Eggs	Store in original carton on interior shelf, not on door shelf.
Fruit	Do not wash or hull fruit until it is ready to be used. Sort and keep fruit in original container in a crisper, or store in completely closed paper bag on refrigerator shelf.
Leafy Vegetables	Remove store wrapping, trim or tear off bruised and discolored areas, wash in cold water, and drain. Place in plastic bag or plastic container and store in crisper.
Vegetables with skins(carrots,peppers)	Place in plastic bags or plastic container and store in crisper.
Fish	Freeze fresh fish and shellfish if they are not being eaten the same day purchased. Eating fresh fish and shellfish the same day purchased is recommended.
Leftovers	Cover leftovers with plastic wrap or aluminum foil, or store in plastic containers with tight lids.

Storing Frozen Food

Check a freezer guide or a reliable cookbook for further information about preparing food for freezing or food storage times.

Freezing

Your freezer will not quick-freeze a large quantity of food. Do not put more unfrozen food into the freezer than will freeze within 24 hours (no more than 2 to pounds of food per cubic foot of freezer space).

Leave enough space in the freezer for air to circulate around packages. Be careful to leave enough room at the front so the door can close tightly.

Storage times will vary according to the quality and type of food, the type of packaging or wrap used (how airtight and moisture-proof) and the storage temperature. Ice crystals inside a sealed package are normal. This simply means that moisture in the food and air inside the package have condensed, creating ice crystals.

NOTE

- Allow hot foods to cool at room temperature for 30 minutes, and then package and freeze. Cooling hot foods before freezing saves energy.

Packaging

Successful freezing depends on correct packaging.

When you close and seal the package, it must not allow air or moisture in or out. If it does, you could have food odor and taste transfer throughout the refrigerator and could also dry out frozen food.

Packaging recommendations

- Rigid plastic containers with tight-fitting lids
- Straight-sided canning/freezing jars
- Heavy-duty aluminum foil
- Plastic-coated paper
- Non-permeable plastic wraps
- Specified freezer-grade self-sealing plastic bags
- Follow package or container instructions for proper freezing methods.

Do not use

- Bread wrappers
- Non-polyethylene plastic containers
- Containers without tight lids
- Wax paper or wax-coated freezer wrap

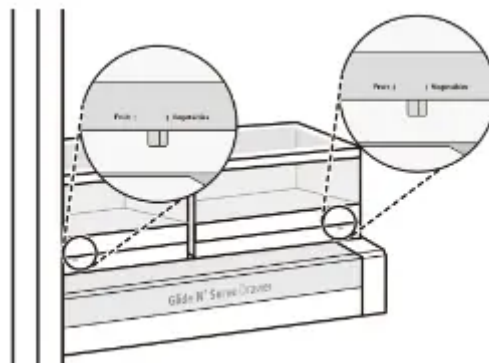
- Thin, semi-permeable wrap

Humidity Controlled Crispers

The crispers provide fresher tasting fruit and vegetables by letting you easily control humidity inside the drawer.

You can control the amount of humidity in the moisture-sealed crispers by adjusting the control to any setting between Vegetables and Fruit.

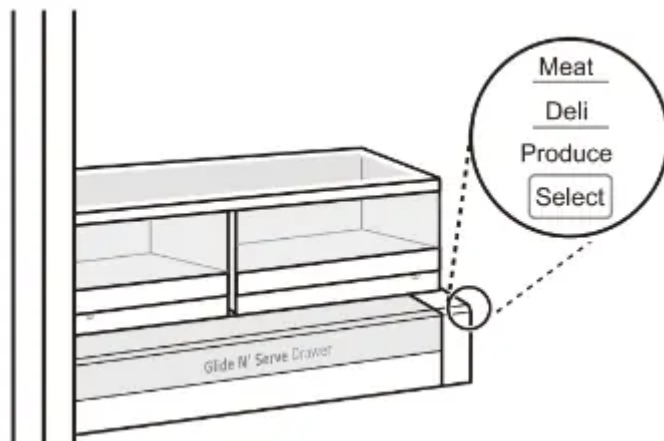
- Vegetables keeps moist air in the crisper for best storage of fresh, leafy vegetables.
- Fruit lets moist air out of the crisper for best storage of fruit.



Glide'N'Serve

The Glide'N'Serve provides storage space with a variable temperature control that can keep the compartment at a slightly different temperature than the refrigerator section. This drawer can be used for large party trays, deli items and beverages. (This drawer should not be used to store vegetables that require high humidity.)

Press the Select button to choose between Produce Cold), Deli (Colder) and Meat (Coldest).



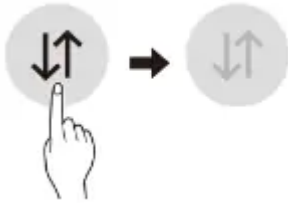
SMART FUNCTIONS

Before Using LG SmartThinQ

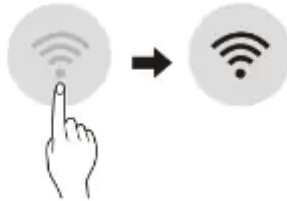
1. Use a smartphone to check the strength of the wireless router (Wi-Fi network) near the appliance.

- 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.
- The surrounding wireless environment can make the wireless network service run slowly.
- 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 network connection may not work properly depending on the Internet service provider.
- The Wi-Fi connection may not connect or may be interrupted because of the home network environment.
- If the appliance cannot be registered due to problems with the wireless signal transmission, unplug the appliance for about a minute, then plug in the appliance and try 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, network setup may fail. Change the security protocol (WPA2 is recommended), and register the product again.

LG SmartThinQ Application Features

Firmware Update

Keep the appliance performance updated.

Energy Monitoring (On Some Models)

This feature keeps track of the refrigerator's power consumption and the number of door openings.

Remote Control

Control the refrigerator set temperature, Fresh Air

Filter and Ice Plus from the smart phone app.

Push Messages

If the door remains open for more than ten minutes, you will receive a push message. When Ice Plus is finished, you will receive a push message.

Smart Diagnosis™

This function provides useful information for diagnosing and solving issues with 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.
- This information is current at the time of publication.

The application is subject to change for product improvement purposes without notice to users.

Connecting to Wi-Fi

The Wi-Fi button, when used with the LG SmartThinQ 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.

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.

Wireless LAN Module Specifications

Model	LCW-004
Frequency Range	2412 - 2462 MHz
Output Power (Max)	IEEE 802.11 b : 22.44 dBm IEEE 802.11 g : 24.68 dBm IEEE 802.11 n : 24.11 dBm

Smart Grid Application Features

Smart Saving_Demand Response

You can lower energy usage based on Demand

Response (DR) signals from the utility company. If the refrigerator is operating in Smart Saving mode according to the DR signal, you can see a pop up.

Seasonal Energy Savings

Lower energy usage based on time period.

Using the Smart Grid Function

This feature responds to notification events from your utility company to run high energy consuming tasks during off-peak periods when demand is lower. These notification events are known as Demand Response signals.

If the refrigerator receives a Demand Response signal from the utility company, the refrigerator will turn on the Grid LED on the refrigerator display and control its power consumption according to the signal.

The refrigerator will respond to the signals received from the utility company as long as product performance is maintained.

If the refrigerator receives a Demand Response signal, the refrigerator will operate in Delay Appliance Load (DAL) or Temporary Appliance Load Reduction (TALR) mode.

Delay Appliance Load (DAL)

The refrigerator responds to a DAL signal by providing a moderate load reduction for the duration of the delay period.

This mode controls functions that consume a lot of energy such as adjusting the cooling system, running the defrost cycle, and making ice.

- When the refrigerator operates in DAL mode, the Grid LED is illuminated on the refrigerator display.
- DAL mode is automatically deactivated after the period stipulated by the DAL signal (max. 4 hours) or when you override the Smart Grid function.

Temporary Appliance Load Reduction (TALR)

The refrigerator responds to a TALR signal by aggressively reducing the load for a short time period, typically 10 minutes. This mode reduces energy consumption by stopping the compressor and controlling the functions that consume a lot of energy such as the defrost cycle and fan.

- When the refrigerator operates in TALR mode, the Grid LED is illuminated on the refrigerator display.
- TALR mode is automatically deactivated after the received duration (max. 10 minutes), or when you override the Smart Grid function. The mode is immediately deactivated and the refrigerator returns to its normal state when the door is opened or closed, or the dispenser is used.

Override Smart Grid Mode

To ignore the Demand Response signal from the utility company and override the Smart Grid function, push the Smart Grid button while the refrigerator is in Smart Grid mode.

When you override the Smart Grid function, the refrigerator ignores the Demand Response signal and is no longer controlled by the utility company until the next Demand Response signal is sent. You can also override the Smart Grid function using the smart phone app.

LG Open API

You can manage Smart Grid features for the LG Smart Refrigerator.


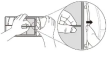

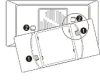


Please check the detailed specifications on the notice page on us.smarthinq.com.

MAINTENANCE

Replacing the Fresh Air Filter

Replace the Fresh Air Filter:

- Approximately every six months.
- When the Replace Filter icon turns on.

1 Rotate the filter cover counterclockwise to release the tabs, and remove the cover.	
2 Remove the filter from the inside of the cover by pressing the side of the filter in and pulling the center out.	
3 Place the new filter inside of the cover with the side that says FRONT facing outward.	
4 Align tabs (1) on the filter cover with hooks (2) on the refrigerator wall.	
5 Rotate the air filter cover clockwise until the hooks engage and the cover locks in place.	
6 Press and hold the Fresh Air Filter button on the control panel for 3 seconds to reset the filter sensor.	

Replacing the Water Filter

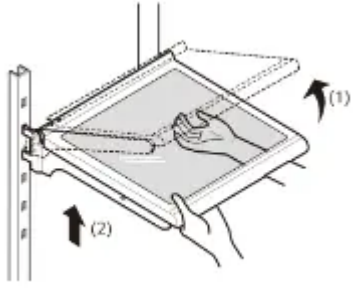
- Approximately every six months.
- When the Replace Filter icon turns on.
- When the water dispenser output decreases.





Before Replacing the Water Filter:

If the top shelf, located below the water filter, is in the highest position, it will need to be removed prior to replacing the water filter.

To remove any shelf : Tilt up the front of the shelf (1) and lift (2). Pull the shelf out.





<p>1. Remove the old water filter.</p> <p>Lower or remove the top left shelf to allow the water filter to rotate all the way down.</p> <p>Pinch the sides to open the water filter cover.</p> <p>NOTE</p> <ul style="list-style-type: none"> • Replacing the water filter causes a small amount of water (around 1 oz. or 25 cc) to drain. • Wrap a cloth around the front end of the water filter cover to collect any leaking water. Hold the water filter upright, once it is removed, to prevent any remaining water from spilling out of the water filter. 	
<p>2. Pull the water filter downward and turn it counterclockwise before pulling it out. Make sure to rotate the filter down completely before pulling it out of the manifold hole.</p>	
<p>3. Replace with a new water filter.</p> <p>Take the new water filter out of its packing and remove the protective cover from the o-rings.</p> <p>With the water filter tabs in the horizontal position, push the new water filter into the manifold hole and turn it clockwise until it stops.</p>	
<p>4 Close the water filter cover. The cover will click when closed correctly.</p>	
<p>5 After the water filter is replaced, dispense 2.5 gallons of water (flush for approximately 5 minutes) to remove trapped air and contaminants from the system.</p> <p>• NOTE</p> <p>Do not dispense the entire 2.5 gallon amount continuously. Press and release the dispenser pad for cycles of 30 seconds ON and 60 seconds OFF.</p>	

6 After changing the filter, press and hold the Water Filter button for three seconds to reset the indicator light.

NOTE

To purchase a replacement water filter:

- Visit your local dealer or distributor
- Search using "water filter" on lg.com
- Use replacement cartridge: ADQ747935**



TROUBLESHOOTING

Refrigerator and Freezer section are not cooling.

- The refrigerator control is set to OFF (some models).

=> Turn the control ON. Refer to the Setting the Controls section for proper temperature settings.

- Refrigerator is set to Demo Mode.

=> Demo Mode allows the lights and control display to work normally while disabling cooling, to save energy while the refrigerator is on the showroom floor.

- Refrigerator is in the defrost cycle.

=> During the defrost cycle, the temperature of each compartment may rise slightly. Wait 30 minutes and confirm the proper temperature has been restored once the defrost cycle has completed.

- Refrigerator was recently installed.

=> It may take up to 24 hours for each compartment to reach the desired temperature.

- Refrigerator was recently relocated.

=> If the refrigerator was stored for a long period of time or moved on its side, it is necessary for the refrigerator to stand upright for 24 hours before connecting it to power.

Cooling system runs too much.

- Refrigerator is replacing an older model.

=> Modern refrigerators require more operating time but use less energy due to more efficient technology.

- Refrigerator was recently plugged in or power restored.

=>The refrigerator will take up to 24 hours to cool completely.

- The door is opened often or a large amount of food / hot food was added.

=> Adding food and opening the door warms the refrigerator, requiring the compressor to run longer in order to cool the refrigerator back down. In order to conserve energy, try to get everything you need out of the refrigerator at once, keep food organized so it is easy to find, and close the door as soon as the food is removed. (Refer to the Food Storage Guide.)

- Doors are not closed completely.

=> Firmly push the doors shut. If they will not shut all the way, the "Doors will not close correctly or pop open" section.

- Refrigerator is installed in a hot location.

=> The compressor will run longer under warm conditions. At normal room temperatures (70 °F) expect your compressor to run about 40 % to 80 % of the time. Under warmer conditions, expect it to run even more often. The refrigerator should not be operated above

- Condenser / back cover is clogged.

=> Use a vacuum cleaner with an attachment to clean the condenser cover and vents. Do not remove the panel covering the condenser coil area.

Interior moisture buildup.

- Doors are opened often or for long periods of time.

=> When the doors are opened often or for long periods of time, warm, humid air enters the compartment. This raises the temperature and moisture level within the compartment. To lessen the effect, reduce the frequency and duration of door openings.

- Weather is humid.

=> Humid weather allows additional moisture to enter the compartments when the doors are opened leading to condensation or frost. Maintaining a reasonable level of humidity in the home will help to control the amount of moisture that can enter the compartments.

- Defrost cycle recently completed.

=> During the defrost cycle, the temperature of each compartment may rise slightly and condensation may form on the back wall. Wait 30 minutes and confirm that the proper temperature has been restored once the defrost cycle has completed.

- Food is not packaged correctly.

=> Food stored uncovered or unwrapped, and damp containers can lead to moisture accumulation within each compartment. Wipe all containers dry and store food in sealed packaging to prevent condensation and frost.

Food is freezing in the refrigerator compartment.

- Food with high water content was placed near an air vent.

=> Rearrange items with high water content away from air vents.

- Refrigerator temperature control is set incorrectly.

=> If the temperature is too cold, adjust the control one increment at a time and wait for the temperature to stabilize. Refer to the Control Panel section for more information.

- Refrigerator is installed in a cold location.

=> When the refrigerator is operated in temperature below 41°F (5°C), food can freeze in the refrigerator compartment. The refrigerator should not be operated in temperature below 55°F (13°C).

The refrigerator or Freezer section is too warm.

- Refrigerator was recently installed.

=> It may take up to 24 hours for each compartment to reach the desired temperature.

- The air vents are blocked. Cold air circulates from the freezer to the fresh food section and back again through air vents in the wall dividing the two sections.

=> Locate air vents by using your hand to sense airflow and move all packages that block vents and restrict airflow. Rearrange items to allow air to flow throughout the compartment.

- Doors are opened often or for long periods of time.

=>When the doors are opened often or for long periods of time, warm, humid air enters the compartment. This raises the temperature and moisture level within the compartment. To lessen the effect, reduce the frequency and duration of door openings.

- Unit is installed in a hot location.

=> The refrigerator should not be operated in temperatures above 110 °F.

- A large amount of food or hot food was added to either compartment.

=> Adding food warms the compartment requiring the cooling system to run. Allowing hot food to cool to room temperature before putting it in the refrigerator will reduce this effect.

- Temperature control is not set correctly.

=> If the temperature is too warm, adjust the control one increment at a time and wait for the temperature to stabilize.

- Defrost cycle has recently completed.

=> During the defrost cycle, the temperature of each compartment may rise slightly and condensation may form on the back wall. Wait 30 minutes and confirm the proper temperature has been restored once the defrost cycle has completed.

Refrigerator or Freezer section is too cold.

- Incorrect temperature control settings.

=> If the temperature is too cold, adjust the control one increment at a time and wait for the temperature to stabilize. Refer to the Control Panel for more information.

Frost or ice crystals form on frozen food inside of sealed package).

- Condensation from food with a high water content has frozen inside of the food package.

=> This is normal for food items with a high water content.

- Food has been left in the freezer for a long period of time.

=> Do not store food items with high water content in the freezer for a long period of time.

Frost or ice crystals form on frozen food (outside of package).

- Door is opened frequently or for long periods of time.

=> When the doors are opened often or for long periods of time, warm, humid air enters the compartment. This raises the temperature and moisture level within the compartment. Increased moisture will lead to frost and condensation. To lessen the effect, reduce the frequency and duration of door openings.

Icemaker is not making enough ice.

- Demand exceeds ice storage capacity.

=> The icemaker will produce approximately 70-184 cubes in a 24 hour period.

- House water supply is not connected, valve is not turned on fully, or valve is clogged.

=> Connect the refrigerator to a cold water supply with adequate pressure and turn the water shutoff valve fully open. If the problem persists, it may be necessary to contact a plumber.

- Water filter has been exhausted.

=> Replacing the water filter is recommended:

=> Approximately every six months.

=> When the water filter indicator turns on.

=> When the water dispenser output decreases.

=> When the ice cubes are smaller than normal.

- Low house water supply pressure.

=> The water pressure must be between 20 and 120 psi on models without a water filter and between 40 and psi on models with a water filter. If the problem persists, it may be necessary to contact a plumber.

- Reverse Osmosis filtration system is used.



=>Reverse osmosis filtration systems can reduce the water pressure below the minimum amount and result in icemaker issues. (Refer to the Connecting the Water Line section.)

- Tubing connecting refrigerator to house supply valve is kinked.

=>The tubing can kink when the refrigerator is moved during installation or cleaning resulting in reduced water flow. Straighten or repair the water supply line and arrange it to prevent future kinks.

- Doors are opened often or for long periods of time.

=>If the doors of the unit are opened often, ambient air will warm the refrigerator which will prevent the unit from maintaining the set temperature. Lowering the refrigerator temperature can help, as well as not opening the doors as frequently.

- Doors are not closed completely.

=>If the doors are not properly closed, ice production will be affected. See the "Doors will not close correctly or pop open" section in Parts & Features Troubleshooting for more information.

- The temperature setting for the freezer is too warm.

=>The recommended temperature for the freezer compartment for normal ice production is 0°F. If the freezer temperature is warmer, ice production will be affected.

Icemaker is not making ice

- Refrigerator was recently installed or icemaker recently connected.

=>It may take up to 24 hours for each compartment to reach the desired temperature and for the icemaker to begin making ice.

- Icemaker not turned on.

=>Locate the icemaker ON/OFF and confirm that it is turned on.

- The ice detecting sensor is obstructed.

=>Foreign substances or frost on the ice-detecting sensor can interrupt ice production. Make sure that the sensor area is clean at all times for proper operation.

- The refrigerator is not connected to a water supply or the supply shutoff valve is not turned on.

=>Connect the refrigerator to the water supply and turn the water shutoff valve fully open.

- Icemaker shutoff (arm or sensor) obstructed.

=>If your icemaker is equipped with an ice shutoff arm, make sure that the arm moves freely. If your icemaker is equipped with the electronic ice shutoff sensor, make sure that there is a clear path between the two sensors.

- Reverse osmosis water filtration system is connected to your cold water supply.

=>Reverse osmosis filtration systems can reduce the water pressure below the minimum amount and result in icemaker issues. (Refer to the Connecting the Water Line section.)

Ice has bad taste or odor.

- Water supply contains minerals such as sulfur.

=>A water filter may need to be installed to eliminate taste and odor problems. **NOTE:** In some cases, a filter may not help. It may not be possible to remove all minerals/ odor/taste in all water supplies.

- Icemaker was recently installed.

=>Ice that has been stored for too long will shrink, become cloudy, and may develop a stale taste. Throw away old ice and make a new supply.

- The food has not been stored properly in either compartment.

=>Rewrap the food. Odors may migrate to the ice if food is not wrapped properly.

- The ice storage bin needs to be cleaned.

=>Empty and wash the bin (discard old cubes). Make sure that the bin is completely dry before reinstalling it.

Icemaker is making too much ice.

- Icemaker shutoff (arm/ sensor) is obstructed.

=>Empty the ice bin. If your icemaker is equipped with an ice shutoff arm, make sure that the arm moves freely. If your icemaker is equipped with the electronic ice shutoff sensor, make sure that there is a clear path between the two sensors. Reinstall the ice bin and wait hours to confirm proper operation.

Doors will not close correctly or pop open.

- Food packages are blocking the door open.

=>Rearrange food containers to clear the door and door shelves.

- Ice bin, crisper cover, pans, shelves, door bins, or baskets are out of position.

=>Push bins all the way in and put crisper cover, pans, shelves and baskets into their correct positions. See the Operation section for more information.

- The doors were removed during product installation and not properly replaced.

=>Remove and replace the doors

- Refrigerator is not leveled properly.

=> Level refrigerator.

Doors are difficult to open.

- The gaskets are dirty or sticky.



=>Clean the gaskets and the surfaces that they touch. Rub a thin coat of appliance polish or kitchen wax on the gaskets after cleaning.

- Door was recently closed.

=>When you open the door, warmer air enters the refrigerator. As the warm air cools, it can create a vacuum. If the door is hard to open, wait one minute to allow the air pressure to equalize, then see if it opens more easily.

Refrigerator wobbles or seems unstable

- Floor is not level.

=> It may be necessary to add shims under the leveling legs or rollers to complete installation.

Lights do not work.

- LED interior lighting failure.

=>The refrigerator compartment lamp is LED interior lighting, and service should be performed by a qualified technician.

Refrigerator has an unusual odor.

- The Air Filter may need to be set to the MAX setting or replaced.

=>Set the Air Filter to the MAX setting. If the odor does not go away within 24 hours, the filter may need to be replaced. See the Replacing the Air Filter section for replacement instructions.

The interior of the refrigerator is covered with dust or soot.

- The refrigerator is located near a fire source, such as a fireplace, chimney, or candle.

=>Make sure that the refrigerator is not located near a fire source, such as a fireplace, chimney or candle.

Your home appliance and smartphone is not connecting to the Wi-Fi network.

- The password for the Wi-Fi that you are trying to connect to is incorrect.

=>Find the Wi-Fi network connected to your smartphone and remove it, then register your appliance on LG SmartThinQ application.

- Mobile data for your smartphone is turned on.

=>Turn off the Mobile data on your smartphone before registering the appliance.

- The wireless network name (SSID) is set incorrectly.

=>The wireless network name (SSID) should be a combination of English letters and numbers. (Do not use special characters.)

- The router frequency is not 2.4 GHz.

=>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.

- The router is too far from the appliance.

=>If the appliance is too far from the router, the signal may be weak and the connection may not be configured correctly. Move the router closer to the appliance or purchase and install a Wi-Fi repeater.

Noise

Problem	Possible Cause	Solutions
Clicking	The defrost control will click when the automatic defrost cycle begins and ends. The thermostat control (or refrigerator control on some models) will also click when cycling on and off.	<ul style="list-style-type: none"> • Normal Operation
Rattling	Rattling noises may come from the flow of refrigerant, the water line on the back of the unit, or items stored on top of or around the refrigerator.	<ul style="list-style-type: none"> • Normal Operation
	Refrigerator is not resting solidly on the floor.	<ul style="list-style-type: none"> • Floor is weak or uneven or leveling legs need to be adjusted. See the Leveling and Door Alignment section.
	Refrigerator with linear compressor was jarred while running.	<ul style="list-style-type: none"> • Normal Operation
Whooshing	Evaporator fan motor is circulating air through the refrigerator and freezer compartments.	<ul style="list-style-type: none"> • Normal Operation
	Air is being forced over the condenser by the condenser fan.	<ul style="list-style-type: none"> • Normal Operation
Gurgling	Refrigerant flowing through the cooling system.	<ul style="list-style-type: none"> • Normal Operation
Popping	Contraction and expansion of the inside walls due to changes in temperature.	<ul style="list-style-type: none"> • Normal Operation
Sizzling	Water dripping on the defrost heater during a defrost cycle.	<ul style="list-style-type: none"> • Normal Operation

Vibrating	If the side or back of the refrigerator is touching a cabinet or wall, some of the normal vibrations may make an audible sound.	<ul style="list-style-type: none"> • To eliminate the noise, make sure that the sides and back cannot vibrate against any wall or cabinet.
Dripping	Water running into the drain pan during the defrost cycle.	<ul style="list-style-type: none"> • Normal Operation
Pulsating or high-pitched sound	Your refrigerator is designed to run more efficiently to keep your food items at the desired temperature. The high efficiency compressor may cause your new refrigerator to run longer than your old one, but it is still more energy efficient than previous models. While the refrigerator is running, it is normal to hear a pulsating or high-pitched sound.	<ul style="list-style-type: none"> • Normal Operation

Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.

