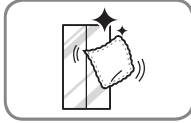


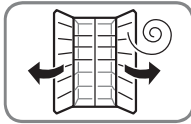
## 22 OPERATION

**OPERATION****Before Use****Checklist****Clean the refrigerator.**

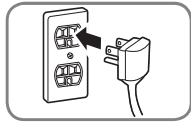
Clean the refrigerator thoroughly and wipe off all dust that accumulated during shipping.

**CAUTION**

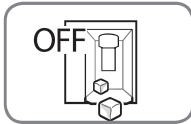
- Do not scratch the refrigerator with a sharp object or use a detergent that contains alcohol, a flammable liquid or an abrasive when removing any tape or adhesive from the refrigerator. Remove adhesive residue by wiping it off with your thumb or dish detergent.
- Do not peel off the model or serial number label or the technical information on the rear surface of the refrigerator.

**Open doors and drawers to ventilate the interior.**

The inside of the refrigerator may smell like plastic at first. Remove any adhesive tape from inside the refrigerator and open the refrigerator doors and drawers for ventilation.

**Connect the power supply.**

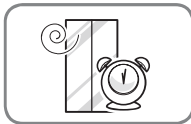
Check if the power supply is connected before use.

**Turn off the icemaker.**

Turn off the icemaker if the refrigerator is not yet connected to the water supply.

**NOTE**

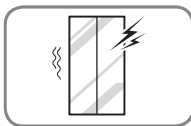
- The icemaker water valve may buzz if the icemaker is turned on while the refrigerator is not connected to the water supply.

**Wait for the refrigerator to cool.**

Allow the refrigerator to run for at least two to three hours before putting food in it. Check the flow of cold air in the freezer compartment to ensure proper cooling.

**CAUTION**

- Putting food in the refrigerator before it has cooled could cause the food to spoil, or a bad odor to remain inside the refrigerator.

**The refrigerator makes a loud noise after initial operation.**

This is normal. The volume will decrease as the temperature decreases.

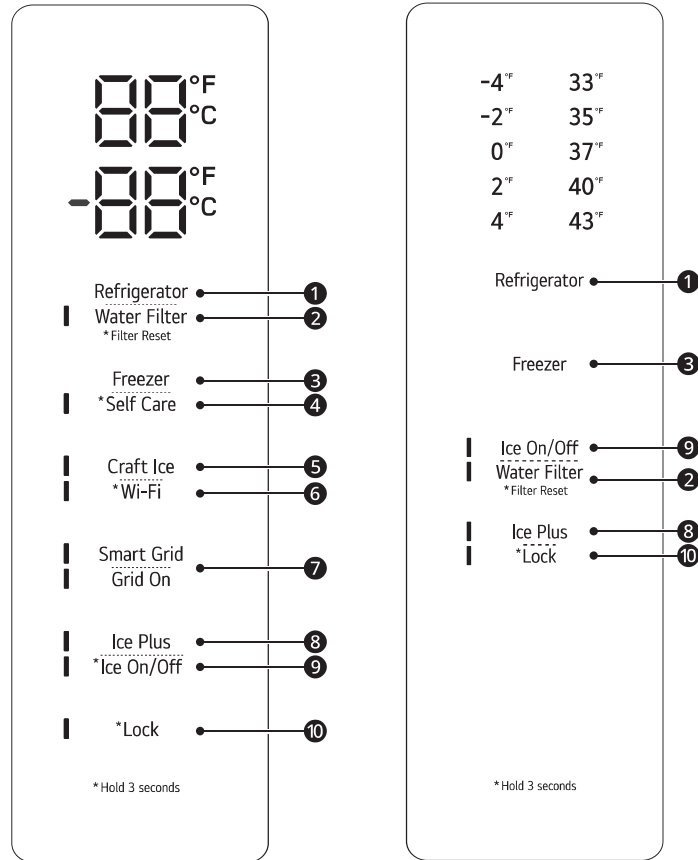
# Control Panel

Depending on the model, some of the following functions may not be available.  
The actual control panel may differ from model to model.

## Control Panel Features

### Refrigerator Control Panel

† This feature is only available on some models.



#### 1 Refrigerator

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 43 °F (1 °C to 7 °C).

#### NOTE

- To change the temperature mode from °F to °C (or vice versa) press and hold the **Refrigerator** and **Freezer** 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.

## 24 OPERATION

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### 2 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.

### 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 - 7 °F to 5 °F (-23 °C to -15 °C) or - 4 °F to 4 °F.

### 4 Self Care<sup>†</sup>

UV light is used to keep the water outlet clean. UV clean function runs automatically for 10 minutes every hour or can be manually activated at any time.

Press and hold this button for 3 seconds to activate it manually.

#### NOTE

- During operation, the function stops if the **Water** button is pressed. It resumes automatically after 1 hour.
- The function runs automatically for 10 minutes every hour without requiring you to press the **Self Care** button.
- UVnano is a compound word derived from the words UV and its unit, a nanometer.

### 5 Craft Ice<sup>†</sup>

Press the **Craft Ice** button repeatedly to toggle between the **3 ICE**, **6 ICE** and **OFF** modes.

After 5 seconds of idle time, the last mode will be saved, and the display will return to normal.

- To turn off the **Craft Ice** maker, select the **OFF** mode.
- To turn on the **Craft Ice** maker, select the **3 ICE** or **6 ICE** mode.

#### NOTE

- For more ice, select the **6 ICE** mode. For clearer ice, select the **3 ICE** mode.

### 6 Wi-Fi<sup>†</sup>

The Wi-Fi button, when used with the **LG ThinQ** app, allows the refrigerator to connect to a home Wi-Fi network. Refer to Smart Functions for information on the initial setup of the application.

The Wi-Fi indicator shows the status of the refrigerator's network connection. The indicator 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 indicator blinks while the connection is being made and then turns on once the connection is successfully made.

### 7 Smart Grid<sup>†</sup>

Press the **Smart Grid** button to turn the function On/Off. When the function is on, the indicator illuminates. The function automatically turns on when the refrigerator is connected to the Wi-Fi network. The Smart Grid function is only available if your electric utility company supports the function.

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

### 8 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.

**9 Ice On/Off**

Press and hold the **Ice On/Off** button for three seconds to turn the in-door icemaker on/off.

**10 Lock**

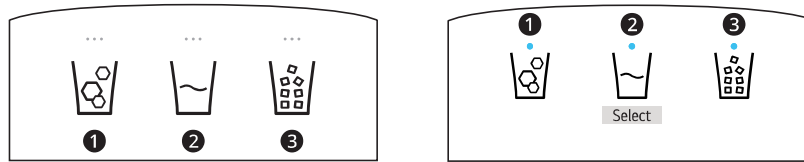
The lock function disables every other button on the display.

- 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 indicator appears in the display and the function is activated.
- To disable the function, press and hold the **Lock** button for approximately three seconds.

**NOTE****• 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.
- To deactivate/activate:

With either refrigerator door opened, press the **Ice Plus** button 3 times consecutively while pressing the **Refrigerator** button. The control panel beeps and the temperature settings display to confirm that Display Mode is deactivated. Use the same procedure to activate Display Mode.

**Dispenser Control Panel****Water & Ice Type**

Select the desired dispenser mode from the buttons on the dispenser control panel. From left to right, the icons indicate cubed ice **1**, water **2**, and crushed ice **3**. Press the dispenser switch with a glass or other container to dispense cubed ice, water or crushed ice.

**NOTE**

- When the refrigerator is in the Power Saving Mode, the display remains off until a door is opened or a button is pressed. Once on, the display remains on for 20 seconds.

**Sabbath Mode**

This feature is only available on some models.

**Using the Sabbath Mode**

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 5b appears in the display.
- To turn Sabbath mode off manually, press and hold the **Freezer** and **Wi-Fi** buttons for 3 seconds.

**NOTE**

- Sabbath mode automatically turns off after 96 hours.
- 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 are disabled in Sabbath mode, on applicable models.

## 26 OPERATION

# Ice and Water Dispenser

## Before Using the Ice and Water Dispenser

### ⚠ CAUTION

- Keep children away from the dispenser. Children may play with or damage the controls.
- Throw away the first bin full of ice (about 140-160 cubes) after installation. The first ice and water dispensed may include particles or odor from the water supply line or the water tank. This is also necessary if the refrigerator has not been used for a long time.
- Dispense and throw away 2.5 gallons of water (flush for approximately 5 minutes) after installation. 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. 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.
- When dispensing ice from the dispenser, do not use a fragile container.
- Do not hang on to or place heavy objects on the refrigerator's dispenser.

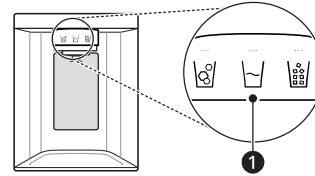
### NOTE

- 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

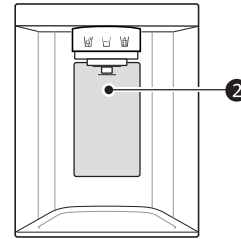
close to the dispenser as possible to avoid spilling.

## Using the Ice and Water Dispenser

- 1 Press the icon for the desired dispenser mode **1**. The LED over the selected icon turns on.



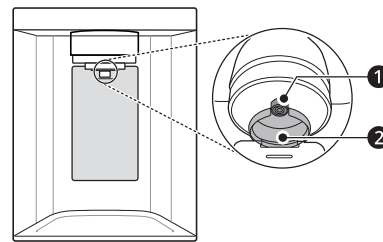
- 2 Press the dispenser paddle **2** with a glass or other container to dispense cubed ice, water or crushed ice.



## Cleaning the Dispenser

### Cleaning the Ice and Water Outlet

Wipe the water outlet **1** or ice outlet **2** frequently with a clean cloth as it may get dirty easily.

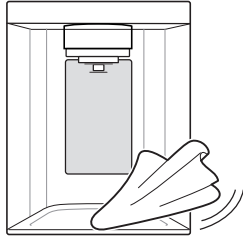


### NOTE

- Lint from a cloth may adhere to the outlets.
- The UV clean function runs automatically for 10 minutes every hour to clean the dispenser outlet. Press and hold the **Self Care** button for 3 seconds to manually activate it.

### Cleaning the Dispenser Tray

Wipe the entire area with a damp cloth. The dispenser tray may become wet easily due to spilled ice or water.



### Locking the Ice and Water Dispenser

Press and hold the **Lock** button for three seconds to lock the dispenser and all the control panel functions. Follow the same instructions to unlock.

## In-Door Ice Bin

### Before Using the In-Door Ice Bin

The icemaker stops producing ice when the in-door ice bin is full. To make room for additional ice, empty the ice bin into another location in the freezer compartment. During use, the ice may stack unevenly in the bin, causing the icemaker to misread the number of ice cubes and stop producing ice. Shaking the ice bin to level the ice within it can reduce this problem.

#### CAUTION

- Keep hands and tools out of the in-door ice bin and dispenser chute. Failure to do so may result in damage or personal injury.
- When handling the ice bin, keep hands away from the icemaker tray area to avoid personal injury.
- Storing cans or other items in the ice bin will damage the icemaker.
- Never use thin crystal glasses or containers to collect ice. Such containers may chip or break resulting in glass fragments in the ice.

To prevent ice cubes from melting and leaking from the dispenser, ALWAYS empty the ice bin when the icemaker is turned OFF for more than a few hours.

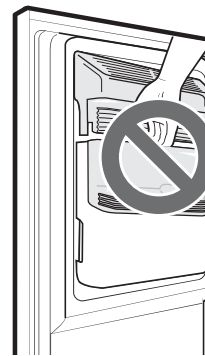
The ice passage may become blocked with frost if only crushed ice is used. Remove the frost that accumulates by removing the ice bin and clearing

the passage with a rubber spatula. Dispensing cubed ice can also help prevent frost buildup.

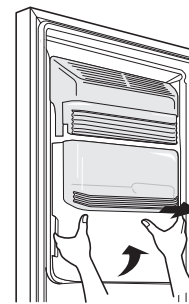
### Detaching/Assembling the In-Door Ice Bin

#### CAUTION

- Only qualified service personnel from an LG Electronics service center should disassemble or repair the icemaker.
- When handling the ice bin, keep hands away from the icemaker tray area to avoid personal injury.
- Avoid touching the auto shutoff (feeler arm) when replacing the ice bin.



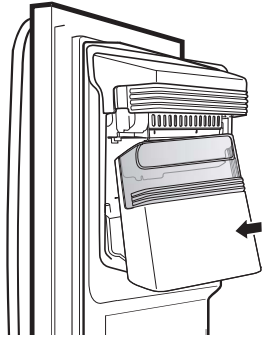
- 1 To detach, lift the ice storage bin slightly and pull it out as shown in the figure.



#### NOTE

- Use both hands to remove the ice bin to avoid dropping it.
- 2 To assemble, carefully insert the in-door ice bin, slanting the top slightly to fit it under the icemaker.

## 28 OPERATION



### Automatic Icemaker

#### **⚠ WARNING**

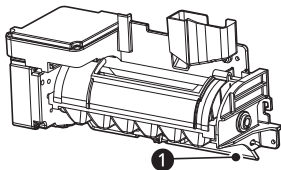
- DO NOT place fingers in the automatic icemaker when the refrigerator is plugged in.
- Avoid contact with any moving parts of the ejector mechanism or with the heater that releases the ice cubes.

### Before Using the In-Door Icemaker

#### **NOTE**

- Ice is made in the automatic in-door icemaker and sent to the dispenser. The icemaker produces 70 - 182 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.

### In-Door Icemaker



#### **1** Auto Shutoff (feeler arm)

### Before Using the Freezer Icemaker

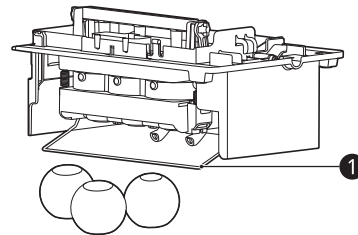
This feature is only available on some models. The feature may vary depending on model purchased.

#### **NOTE**

- Throw away the first bin full of ice after installation. This is also necessary if the refrigerator has not been used for a long time.
- The icemaker begins producing ice approximately 48 hours after the appliance is initially installed.
- The sound of ice dropping into the ice bin is normal.
- If the ice bin is completely filled with ice, ice production will stop.
- The amount and shape of ice may vary according to the environment (ambient temperature around the appliance, frequency of the door being opened, amount of food stored in the appliance, water pressure, etc.).
- In the event of a power outage, throw away the ice stored in the ice bin.

### Freezer Icemaker (Craft Ice™)

This feature is only available on some models.



#### **1** Feeler Arm

#### **⚠ CAUTION**

- Do not insert round ice into the in-door ice bin, as it can damage the ice and water dispenser.

#### **NOTE**

- The icemaker begins producing ice approximately 48 hours after the appliance is initially installed. The first batches of ice may not be round and clear.

- Following installation or water filter replacement, the first few batches of ice may be semicircular or contain air bubbles.
- If the water pressure is less than 20 psi (138 kPa) or a reverse osmosis system is used, the shape of the ice may vary.
- The ice may look cloudy depending on the water quality in the installation location and the operating conditions.
- Throw away any shards of ice you may find in the ice bin, as they may stick to the ice stored in the ice bin.
- After a short term power outage, it will take longer to make the first batch of ice, and the ice may not be round. If the power will be out for a longer period, throw away the ice stored in the ice bin.
- The **Craft Ice** icemaker produces 1 batch of round ice (3 pieces) at a time.
- In **3 ICE** mode, the **Craft Ice** icemaker produces 1 batch of round ice (3 pieces) about every 24 hours. In **6 ICE** mode, the **Craft Ice** icemaker produces 2 batches of round ice (6 pieces total) in the same period.
- For more ice, select the **6 ICE** mode. For clearer ice, select the **3 ICE** mode.
- The time needed to make ice may vary according to operating conditions.
- The ice bin stores 20 - 30 pieces of round ice.

### Turning the Icemaker On/Off

To turn icemakers On/Off, refer to Control Panel in the Operation section.

### Normal Sounds You May Hear

- Keeping the power turned on to the icemaker before the water line is connected can damage the icemaker.
- You will hear the sound of ice dropping into the bin and water running in the pipes as the icemaker refills.
- The icemaker water valve buzzes as the icemakers fill with water. If the icemakers are turned on, they will buzz even if they have not yet been hooked up to water.  
To stop the buzzing:
  - Turn icemakers off by referring to Control Panel in the Operation section.

### Preparing for Vacation

Turn icemakers off and shut off the water supply to the refrigerator.

To turn the icemakers off, refer to Control Panel in the Operation section.

#### NOTE

- The ice bin should be emptied any time icemakers are turned Off.

If the ambient temperature will drop below freezing, have a qualified technician drain the water supply system to prevent serious property damage due to flooding caused by ruptured water lines or connections.

### 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 door open to prevent fungi from growing in the refrigerator.
- If doors are 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.

#### CAUTION

- Do not overfill or pack items too tightly into door bins. Doing so may cause damage to the bin or personal injury if items are removed with excessive force.
- Do not store glass containers in the freezer. Contents may expand when frozen, break the container and cause injury.



## 30 OPERATION

### How to Store Food

- 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.

#### NOTE

- Do not store food with high moisture content towards the top of the refrigerator. The moisture could come into 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.

### 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 3 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

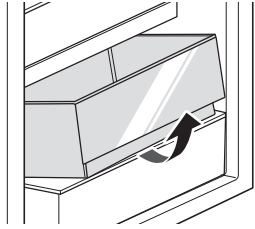
- Bread wrappers
- Non-polyethylene plastic containers
- Containers without tight lids

- Wax paper or wax-coated freezer wrap
- Thin, semi-permeable wrap

## Drawers

### Removing/Assembling Drawers

- 1 To remove drawers, pull them out to full extension, lift the front, and pull straight out.



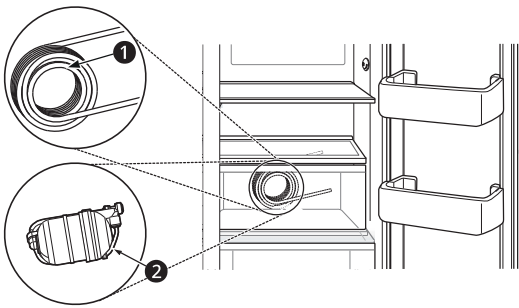
#### NOTE

- When removing or installing the drawer, lift the cover to help remove or insert the drawer.

- 2 To assemble drawers, slightly tilt up the front, insert into the frame and push back into place.

#### CAUTION

- Use both hands to remove and assemble drawers. The compartment is heavy when filled with food and may cause injury if dropped.
- Open refrigerator doors fully when removing or assembling drawers.
- You will see the water tank while removing the Fresh Zone drawer. Do not remove the water tank or water leakage may occur. The water tank is not a removable part.



- 1 Water tank (Type A)

- 2 Water tank (Type B)

## Refrigerator Shelves

The shelves in the refrigerator are adjustable to meet individual storage needs.

Adjusting the shelves to fit items of different heights will make finding the exact item you want easier.

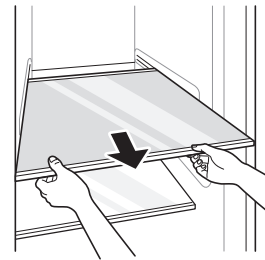
### Detaching/Assembling Shelves

#### CAUTION

- Do not clean glass shelves with warm water while they are cold. Shelves may break if exposed to sudden temperature changes or impact.

- 1 To detach, remove all items from the shelf. Lift the back of the shelf slightly to disengage the rail stops.

- 2 Holding the shelf with both hands, tilt the shelf and pull it out.



- 3 To assemble, tilt the front of the shelf up and guide the shelf into the slots at a desired height, keeping shelf holder down.

- 4 Slide the shelf in, then lower the front of the shelf.

#### CAUTION

- Make sure that shelves are level from one side to the other. Failure to do so may result in the shelf falling or spilled food.

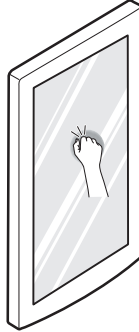
## InstaView

This feature is only available on some models.

## 32 OPERATION

### InstaView Door-in-Door

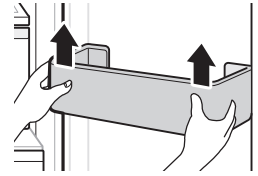
Knock twice on the glass to turn the LED light inside the InstaView on or off. The LED light turns off automatically after 10 seconds.



#### NOTE

- The LED light does not turn on if either door is open.
- The **InstaView** function will not activate for two seconds after closing the door.
- The **InstaView** function is disabled when the ice dispenser is in use.

- 1 To remove the bin, simply lift the bin up and pull straight out.



- 2 To assemble the bin, slide it in above the desired support and push down until it snaps into place.

#### CAUTION

- Regularly detach and wash the storage bins and shelves; they can become easily contaminated by food.
- Do not apply excessive force while detaching or assembling the storage bins.
- Do not use the dishwasher to clean the storage bins and shelves.

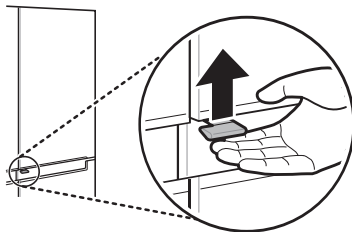
## Door-in-Door

This feature is only available on some models.

The Door-in-Door compartment allows for easy access to commonly used food items.

### Door-in-Door Compartment

To access the Door-in-Door compartment, pull the lever at the bottom of the door upwards until the Door-in-Door opens.



## Door Bins

### Detaching/Assembling Door Bins

The door bins are removable for easy cleaning and adjustment.

# SMART FUNCTIONS

## LG ThinQ Application

This feature is only available on models with Wi-Fi.

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

### LG ThinQ Application Features

- **Smart Learner**<sup>†</sup>
  - Provides a more personalized experience based on an analysis of your usage patterns.
- **Smart Sabbath**<sup>†</sup>
  - Activates or deactivates the Sabbath mode and sets the schedule for the mode activation.
- **Energy Monitoring**<sup>†</sup>
  - This feature keeps track of the refrigerator's power consumption and the number of door openings.
- **Remote Control**<sup>†</sup>
  - Controls the refrigerator temperature, air filter and Ice Plus from the smartphone app.
- **Push Messages**<sup>†</sup>
  - 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**<sup>™</sup>
  - 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.

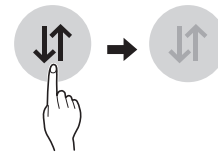
<sup>†</sup> This feature is only available on some models.

#### NOTE

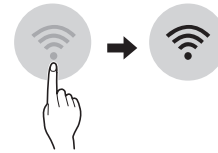
- If you change your wireless router, Internet service provider, or password, delete the registered appliance from the **LG ThinQ** application and register it again.
- This information is current at the time of publication. The application is subject to change for product improvement purposes without notice to users.

### Before Using LG ThinQ Application

- 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 becomes weak. It may take a long time to register or fail to install the application.
- 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 the Wi-Fi indicator 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 ThinQ** 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 may not connect or the connection may be interrupted because of the home network environment.

## 34 SMART FUNCTIONS

### NOTE

- If the appliance cannot be registered due to problems with the wireless signal transmission, unplug the appliance and wait about a minute before trying again.
- If the firewall on your wireless router is enabled, disable the firewall or add an exception to it.
- The wireless network name (SSID) should be a combination of English letters and numbers. (Do not use special characters.)
- Smartphone user interface (UI) may vary depending on the mobile operating system (OS) and the manufacturer.
- If the security protocol of the router is set to **WEP**, network setup may fail. Change the security protocol (**WPA2** is recommended), and register the product again.

### Installing the LG ThinQ Application

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

### Connecting to Wi-Fi

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

#### • Initial Appliance Registration

Run the **LG ThinQ** 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 ThinQ** 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. The Wi-Fi indicator will be turned off.

### Wireless LAN Module Specifications

<b>Frequency Range</b>	2412 - 2462 MHz
<b>Output Power (Max)</b>	< 30 dBm

### FCC Notice

The following notice covers the transmitter module contained in this product.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## FCC RF Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment should be installed and operated with a minimum distance of 20 cm (7.8 inches) between the antenna and your body. Users must follow the specific operating instructions for satisfying RF exposure compliance.

## Industry Canada Statement

This device contains licence-exempt transmitter(s)/ receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

## IC Radiation Exposure Statement

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 20 cm (7.8 inches) between the antenna and your body.

### NOTE

- THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

## 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 <https://opensource.lge.com>. In addition to the source code, all referred license terms, warranty disclaimers and copyright notices are available for download.

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

## Smart Grid Function

When the refrigerator operates in Smart Grid mode, the Smart Refrigerator function can control energy usage or delay the operation of some functions to save energy during peak usage periods.

- You can override the Smart Grid function any time (using the **Smart Grid** button or application).
- To use the Smart Grid function, you need to register your application with your electric utility company, provided that your electric utility company supports the function. In other words, the Smart Grid function will not be available if your electric utility company does not support the function or does not have the capability to support the function.

## 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.

## 36 SMART FUNCTIONS

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](http://us.smarthinq.com).

### API List

- Demand Response
  - Send demand response signal
- Power Saving
  - Set saving mode
  - Get schedule of DR/Delay Defrost
- Energy Monitoring
  - Get door open event
  - Get energy consumption
- Delay Defrost Capability
  - Insert a delay defrost schedule event
  - Update a delay defrost schedule event
  - Delete a delay defrost schedule event
  - Get the delay defrost schedule

## Smart Diagnosis™ Feature

This feature is only available on models with the  or  logo.

Use this feature to help you diagnose and solve problems with your appliance.

### NOTE

- For reasons not attributable to LGE's negligence, the service may not operate due to external factors such as, but not limited to, Wi-Fi unavailability, Wi-Fi disconnection, local app store policy, or app unavailability.
- The feature may be subject to change without prior notice and may have a different form depending on where you are located.

## Using LG ThinQ to Diagnose Issues

If you experience a problem with your Wi-Fi equipped appliance, it can transmit troubleshooting data to a smartphone using the **LG ThinQ** application.

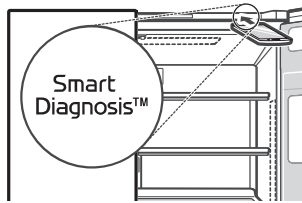
- Launch the **LG ThinQ** application and select the **Smart Diagnosis** feature in the menu. Follow the instructions provided in the **LG ThinQ** application.

## Using Audible Diagnosis to Diagnose Issues

Follow the instructions below to use the audible diagnosis method.

- Launch the **LG ThinQ** application and select the **Smart Diagnosis** feature in the menu. Follow the instructions for audible diagnosis provided in the **LG ThinQ** application.

- 1** Open the right refrigerator door.
- 2** Hold the **Lock** button for three seconds.
  - If the display has been locked for over five minutes, you must deactivate the lock and then reactivate it.
- 3** Hold the mouthpiece of your phone in front of the speaker that is located on the right hinge of the refrigerator door.



- 4** Press and hold the **Freezer** button for three seconds while continuing to hold your phone to the speaker.
- 5** After you hear three beeps, release the **Freezer** button.
- 6** Keep the phone in place until the tone transmission has finished. The display will count down the time. Once the countdown is over and the tones have stopped, the diagnosis will be displayed in the application.

### NOTE

- For best results, do not move the phone while the tones are being transmitted.



**38 MAINTENANCE****MAINTENANCE****Cleaning****⚠ WARNING**

- Use non-flammable cleaner. Failure to do so can result in fire, explosion, or death.

**⚠ CAUTION**

- Do not use an abrasive cloth or sponge when cleaning the interior and exterior of the refrigerator.
- Do not place your hand on the bottom surface of the refrigerator when opening and closing the doors.

**General Cleaning Tips**

- Both the refrigerator and freezer sections defrost automatically; however, clean both sections once a month to prevent odors.
- Wipe up spills immediately.
- Unplug the refrigerator or disconnect power before cleaning.
- Remove all removable parts, such as shelves.
- Use a clean sponge or soft cloth and a mild detergent in warm water. Do not use abrasive or harsh cleaners.
- Hand wash, rinse and dry all surfaces thoroughly.

**Exterior**

For products with black stainless steel exterior, spray glass cleaner on a clean microfiber cloth and rub in direction of grain. Do not spray glass cleaner directly at the display panel. Do not use harsh or abrasive cleaners.

For products with a standard stainless steel exterior, use a damp microfiber cloth and rub in the direction of the grain. Dry with a paper towel to avoid streaks. For stubborn stains and fingerprints, use a few drops of liquid dish soap in water, and rinse with hot water before drying. Do not use abrasive or harsh cleaners.

**Inside Walls**

- Allow freezer to warm up so the cloth will not stick.

To help remove odors, wash the inside of the refrigerator with a mixture of baking soda and warm water. Mix 2 tablespoons of baking soda to 1 quart of water (26 g soda to 1 liter water.) Be sure the baking soda is completely dissolved so it does not scratch the surfaces of the refrigerator.

**Door Liners and Gaskets**

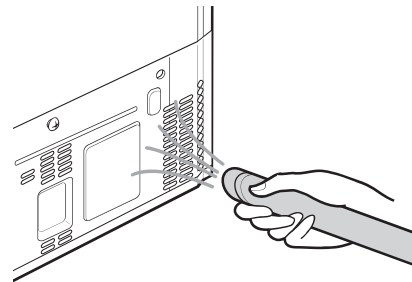
Use a clean sponge or soft cloth and a mild detergent in warm water. Do not use cleaning waxes, concentrated detergents, bleaches, or cleaners containing petroleum on plastic refrigerator parts.

**Plastic Parts (Covers and Panels)**

Use a clean sponge or soft cloth and a mild detergent in warm water. Do not use glass cleaners, abrasive cleansers, or flammable fluids. These can scratch or damage the material.

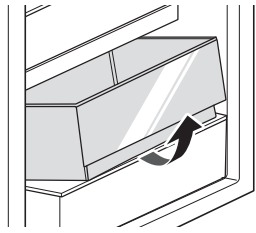
**Condenser Coils**

Use a vacuum cleaner with a brush or crevice attachment to clean the condenser cover and vents. Do not remove the panel covering the condenser coil area.

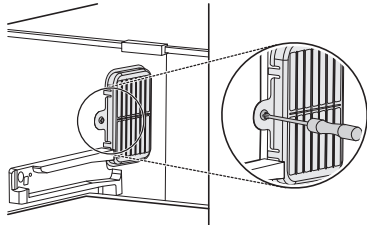
**Air Filter****Reusing the Air Filter**

You can remove the odors absorbed by the air filter and reuse the filter.

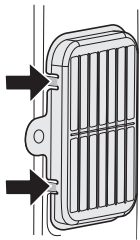
- 1 To remove the air filter, pull out the upper fridge drawer.



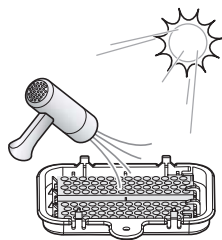
- 2** Unscrew the screw at the air filter.



- 3** Press on the hooks at the air filter and then take it out.



- 4** Leave the filter in the sun to dry or use a hair dryer.
- To increase deodorizing performance, a natural palm wood material is attached to the filter. If residue falls off, it will not harm you and can be wiped off easily with a towel or cloth.



## Water Filter

### Before Replacing the Water Filter

#### ⚠ WARNING

- To reduce the risk associated with choking, do not allow children under 3 years of age to have access to small parts during the installation of this product.
- To reduce the risk associated with the ingestion of contaminants, do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected water that may contain filterable cysts.
- Use of unauthorized water filters may result in product malfunction, water leakage or water quality issues, which will not be covered under the product warranty.

#### ⚠ CAUTION

- Read and follow Use Instructions before installation and use of this system.
- Installation and use **MUST** comply with all state and local plumbing codes.
- Do not install if water pressure exceeds 120 psi (827 kPa). If your water pressure exceeds 80 psi, you must install a pressure limiting valve. Contact a plumber if uncertain how to check your water pressure.
- Do not install where water hammer conditions may occur. If water hammer conditions exist you must install a water hammer arrester. Contact a plumbing professional if you are uncertain how to check for this condition.
- Do not install on hot water supply lines. The maximum operating water temperature of this filter system is 100 °F (37.8 °C).
- Protect filter from freezing. Drain filter when temperatures drop below 40 °F (4.4 °C).
- The disposable filter cartridge **MUST** be replaced every 6 months, at the rated capacity or if a noticeable reduction in flow rate occurs.
- To protect it from freezing, remove filter cartridge when temperatures are expected to drop below 33° F.
- Do not install systems in areas where ambient temperatures may go above 110° F (43.3° C).
- Where a backflow prevention device is installed on a water system, a device for controlling pressure due to thermal expansion must be installed.

## 40 MAINTENANCE

### **CAUTION**

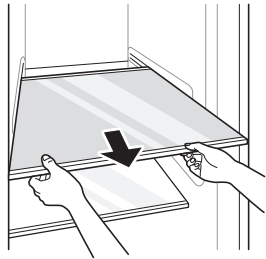
- Ensure all tubing and fittings are secure and free from leaks.

- 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.

### Replacing the Water Filter

- Replace the water filter:
  - Approximately every six months.
  - When the Water Filter LED turns on.
  - When the water dispenser output decreases.
- To purchase a replacement water filter:
  - Visit your local dealer or distributor
  - Search using "water filter" on lg.com
  - Use replacement cartridge: LT1000P, LT1000PC, LT1000PCS or ADQ747935\*\*

- 1 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 and lift it. Pull the shelf out.



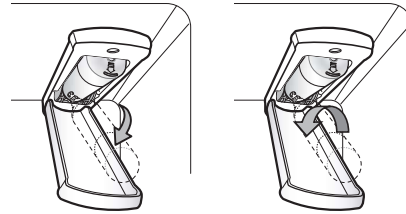
- 2 Pinch the sides to open the water filter cover.



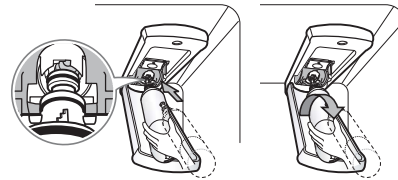
- 3 Pull the water filter downward and turn it counterclockwise before pulling it out.
  - Make sure to rotate the filter down completely before pulling it out of the manifold hole.

### NOTE

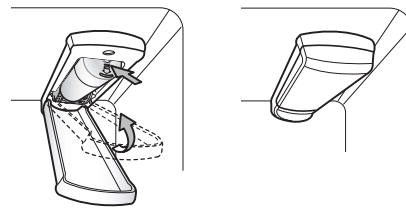
- Replacing the water filter causes a small amount of water (around 1 oz. or 25 cc) to drain.



- 4 Replace with a new water filter.
  - Take the new water filter out of its packing and remove the protective cover from the o-rings. 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.



- 5 Close the water filter cover. The cover will click when closed correctly.



- 6 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.

### NOTE

- 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.

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

**CAUTION**

- LG strongly recommends that you use LG-authorized water filters to prevent water quality issues, water leakage and appliance malfunction.

• For further assistance, call:

- 1-800-243-0000 (USA)
- 1-888-542-2623 (Canada)

## 42 MAINTENANCE

### Performance Data Sheet

Model: LT1000P, LT1000PC, LT1000PCS

NSF System Trade Name Code: MDJ64844601

The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system as specified in NSF/ANSI Standard 42, Standard 53 and Standard 401.



System tested and certified by NSF International against NSF/ANSI Standard 42, Standard 53 and Standard 401 for the reduction of substances listed below.

Substance Reduction	Average Influent Challenge	NSF Specified Challenge Concentration	Avg % Reduction	Average Product Water Concentration	Max Permissible Product Water Concentration	NSF Reduction Requirements
Chlorine Taste and Odor	2.0 µg/L	2.0 µg/L ± 10%	>97.5%	0.050 µg/L	N/A	≥ 50.00%
Nominal Particulate Class I, , ≥ 0.5 to < 1.0 µm	12,000,000 pts/ml	At least 10,000 particles/ml	99.80%	24,000 pts/ml	N/A	≥ 85.00%
Asbestos	180 MFL	10 <sup>7</sup> to 10 <sup>8</sup> MFL; fibers greater than 10 µg/Lin length	>99.00%	< 1 MFL	N/A	≥ 99.00%
Atrazine	8.5 µg/L	9.0 µg/L ± 10%	>94.10%	0.500 µg/L	3.0 µg/L	NA
Benzene	15.0 µg/L	15.0 µg/L ± 10%	>96.60%	0.510 µg/L	5.0 µg/L	NA
Carbofuran	74.0 µg/L	80.0 µg/L ± 10%	98.30%	1.258 µg/L	40 µg/L	NA
Lindane	1.9 µg/L	2.0 µg/L ± 10%	>99.00%	0.019 µg/L	0.2 µg/L	NA
P-Dichlorobenzene	230.0 µg/L	225.0 µg/L ± 10%	>99.80%	0.460 µg/L	75.0 µg/L	NA
2,4-D	210.0 µg/L	210.0 µg/L ± 10%	>99.90%	0.210 µg/L	70.0 µg/L	NA
Lead pH @6.5	140.0 µg/L	150.0 µg/L ± 10%	99.60%	0.560 µg/L	10.0 µg/L	NA
Lead pH @8.5	150.0 µg/L	150.0 µg/L ± 10%	>99.70%	<0.500 µg/L	10.0 µg/L	NA
Mercury @ pH6.5	5.9 µg/L	6.0 µg/L ± 10%	91.00%	0.531 µg/L	2.0 µg/L	NA
Mercury @ pH8.5	5.6 µg/L	6.0 µg/L ± 10%	92.5%	0.420 µg/L	2.0 µg/L	NA
Cyst*	100,000 cysts/L	Minimum 50,000 cysts/L	>99.99%	10 cysts/L	N/A	≥ 99.95%
Atenolol	240 ng/L	200 ± 40% ng/L	> 95.50%	10.80 ng/L	30 ng/L	NA
Carbamazepine	1600 ng/L	1400 ± 40% ng/L	98.40%	25.60 ng/L	200 ng/L	NA
DEET	1600 ng/L	1400 ± 40% ng/L	97.10%	46.40 ng/L	200 ng/L	NA
Trimethoprim	170 ng/L	140 ± 40% ng/L	>96.80%	5.44 ng/L	20 ng/L	NA
Linuron	160 ng/L	140 ± 40% ng/L	>96.60%	5.44 ng/L	20 ng/L	NA
Phenytoin	200 ng/L	200 ± 40% ng/L	>94.80%	10.40 ng/L	30 ng/L	NA
Ibuprofen	400 ng/L	400 ± 40% ng/L	>94.50%	22.00 ng/L	60 ng/L	NA
Naproxen	140 ng/L	140 ± 40% ng/L	>96.10%	5.46 ng/L	20 ng/L	NA
Estrone	120 ng/L	140 ± 40% ng/L	>96.10%	4.68 ng/L	20 ng/L	NA
Bisphenol A	2000 ng/L	2000 ± 40% ng/L	>98.90%	22.00 ng/L	300 ng/L	NA
Nonyl Phenol	1600 ng/L	1400 ± 40% ng/L	>97.10%	46.40 ng/L	200 ng/L	NA

\* Based on the use of *Cryptosporidium parvum* oocysts.

Guidelines for Application / Water Supply Parameters	
Service Flow	0.5 gpm (1.9 lpm)
Water Supply	Community or Private Well - Potable Water
Water Pressure	20 – 120 psi (138 – 827 kPa)
Water Temperature	33 °F – 100 °F (0.6 °C – 37.8°C)
Capacity	200 gallons (757 liters)

ENGLISH

It is essential that the manufacturer's recommended installation, maintenance and filter replacement requirements be carried out for the product to perform as advertised.

#### NOTE

- While the testing was performed under standard laboratory conditions, actual performance may vary.

For replacement filters, visit your local dealer or distributor or search under "water filters" on the **lg.com** website.

For further assistance, contact the LG Electronics Customer Information Center.

USA: 1-800-243-0000

Canada: 1-888-542-2623

#### Replacement Cartridge: **LT1000P, LT1000PC, LT1000PCS or ADQ747935\*\***

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NSF is a trademark of NSF International.

Manufactured by LG Electronics, INC:

170, Sungsanpaechoungro, Seongsan-gu, Gyeongsangnam-do, THE REPUBLIC OF KOREA