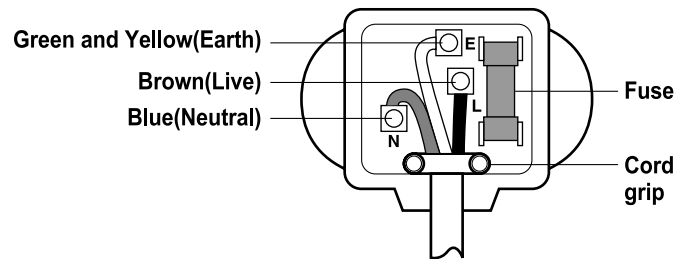


(In the UK Only)**Important**

The wires in this mains lead are coloured in accordance with the following code :

GREEN AND YELLOW : EARTH
 BLUE : NEUTRAL
 BROWN : LIVE

This appliance must be earthed



As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows :

The wire which is coloured Green and Yellow must be connected to the terminal in the plug which is marked with the letter E or by the earth symbol(\perp) or coloured Green or Green and Yellow.

The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Red.

If a 13 amp(BS 1363) plug is used, fit a 13 amp BS 1362 fuse.

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- This product is exclusive use at 230V/50Hz.
- You should purchase transformer of more than 2.0KVA when you want to use it at the 110V area.
- You can't use it anywhere except 50Hz area.

Entry

The model and serial numbers are found on the inner case or back of refrigerator compartment of this unit. These numbers are unique to this unit and not available to others. You should record requested information here and retain this guide as a permanent record of your purchase. Staple your receipt here.

Date of purchase : _____
 Dealer purchased from : _____
 Dealer address : _____
 Dealer phone no. : _____
 Model no. : _____
 Serial no. : _____

Important safety instruction

Before it is used, this refrigerator must be properly installed and located in accordance with the installation instructions in this document.

Never unplug your refrigerator by pulling on the power cord. Always grip plug firmly and pull it straight out from the outlet.

When moving your appliance away from the wall, be careful not to roll over the power cord or to damage it in any way.

After your refrigerator is in operation, do not touch the cold surfaces in the freezer compartment, particularly when your hands are damp or wet. Skin could adhere to these extremely cold surfaces.

Unplug the power cord from the power outlet for cleaning or other requirements. Never touch it with wet hands because you can get an electric shock or be hurt.

Never damage, process, severely bend, pull out, or twist the power cord because damage the power cord may cause a fire or electric shock. You have doubts on whether the appliance is properly grounded.

Never place glass products in the freezer because they may be broken due to expansion when their contents are frozen.

Never allow your hands within the ice storage bin of the automatic ice maker. You could be hurt by the operation of the automatic ice maker.

The appliance is not intended for use by young children or infirm persons without supervision.

Young children should be supervised to ensure that they do not play with the appliance.

Never allow anyone to climb, sit, stand or hang on the refreshment center door. These actions may damage the refrigerator and even tip it over, causing severe personal injury.

If possible, connect the refrigerator to its own individual electrical outlet to prevent it and other appliances or household lights from causing an overload that could cause a power outage.

The refrigerator-freezer should be so positioned that the supply plug is accessible for quick disconnection when accident happens.

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

Do not modify or extend the Power Cord length.

- It will cause electric shock or fire.








Don't use an extension cord

**Accessibility of Supply Plug
Supply Cord Replacement**

⚠ Warning

 Warning

-  Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.
-  Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
-  Do not damage the refrigerant circuit.
-  Do not use electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer.
-  The refrigerant and insulation blowing gas used in the appliance require special disposal procedures. When disposal, please consult with service agent or a similarly qualified person.



This appliance contains a small amount of isobutane refrigerant (R600a), natural gas with high environmental compatibility, but it is also combustible. When transporting and installing the appliance, care should be taken to ensure that no parts of the refrigerating circuit are damaged. Refrigerant squirting out of the pipes could ignite or cause an eye injury. If a leak is detected, avoid any naked flames or potential sources of ignition and air the room in which the appliance is standing for several minutes.

In order to avoid the creation of a flammable gas air mixture if a leak in the refrigerating circuit occurs, the size of the room in which the appliance may be sited depends on the amount of refrigerant used. The room must be 1m² in size for every 8g of R600a refrigerant inside the appliance. The amount of refrigerant in your particular appliance is shown on the identification plate inside the appliance. Never start up an appliance showing any signs of damage. If in doubt, consult your dealer.

Introduction

Child entrapment



warning

DANGER: Risk of child entrapment.

Before you throw away your old refrigerator or freezer:

Take off the doors but leave the shelves in place so that children may not easily climb inside.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

Don't store



warning

Don't store or use gasoline or other flammable vapor and liquids in the vicinity of this or any other appliance.

Grounding (Earthing)



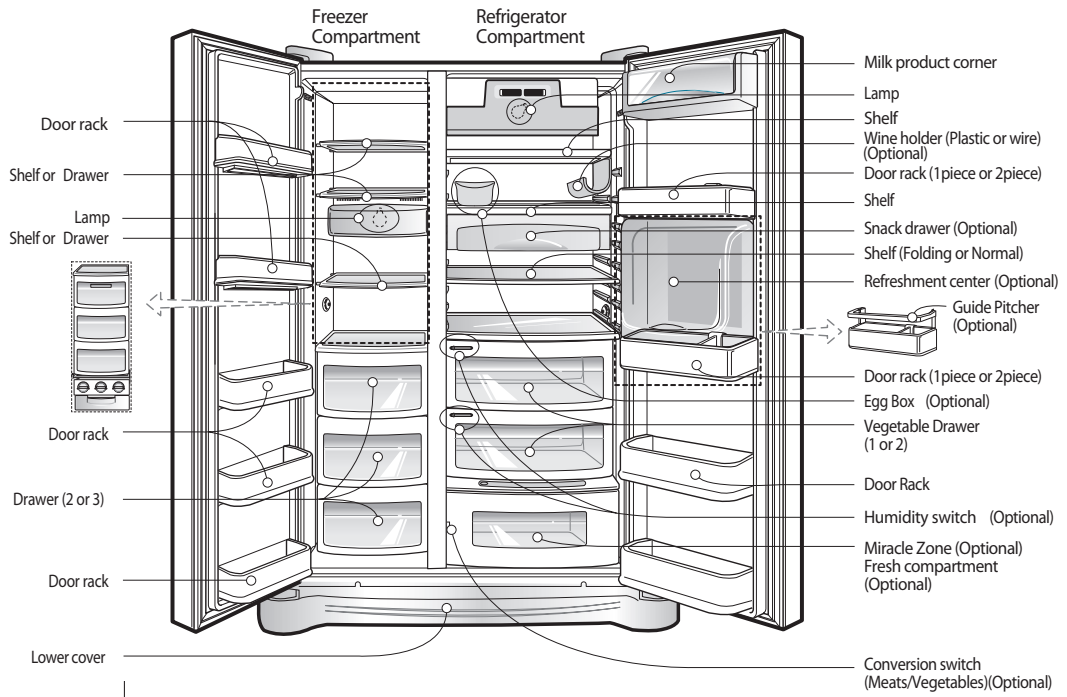
warning

In the event of an electric short circuit, grounding (earthing) reduces the risk of electric shock by providing an escape wire for the electric current.

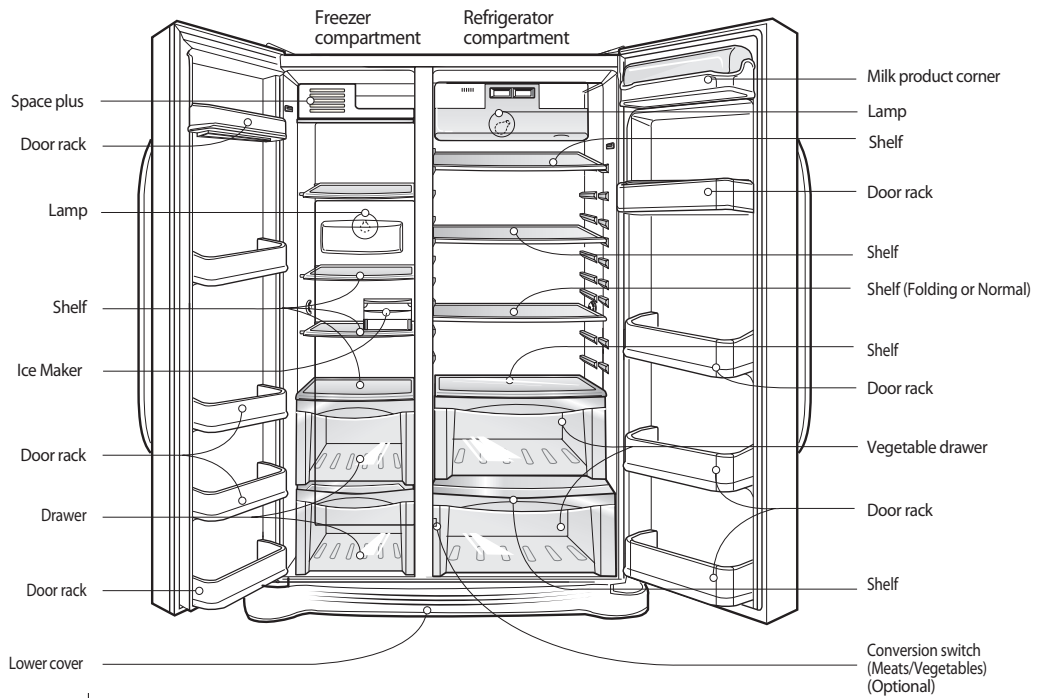
In order to prevent possible electric shock, this appliance must be grounded. Improper use of the grounding plug can result in an electric shock. Consult a qualified electrician or service person if the grounding instructions are not completely understood, or if you have doubts on whether the appliance is properly grounded.

Identification of parts

*Non dispenser model- Type 1



*Non dispenser model -Type 2

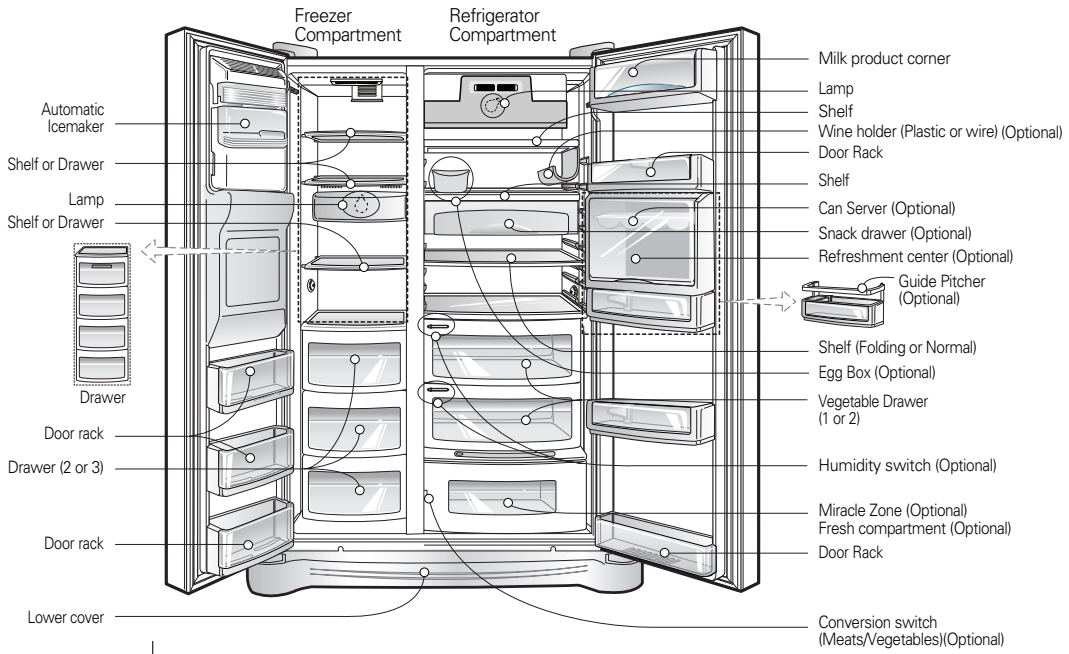


NOTE

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

Introduction

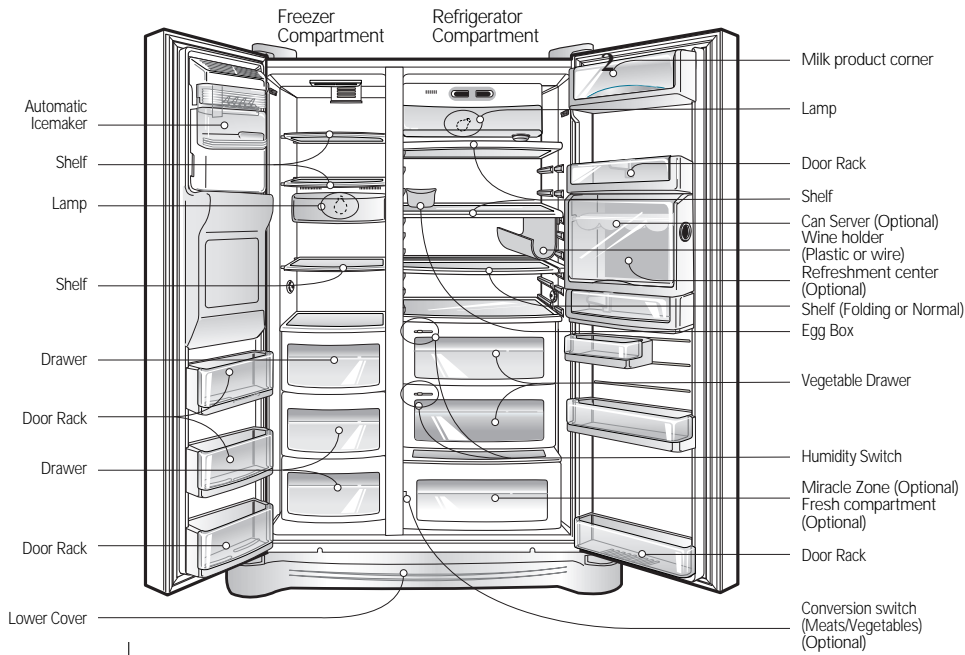
*Dispenser model - Type 1



NOTE

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

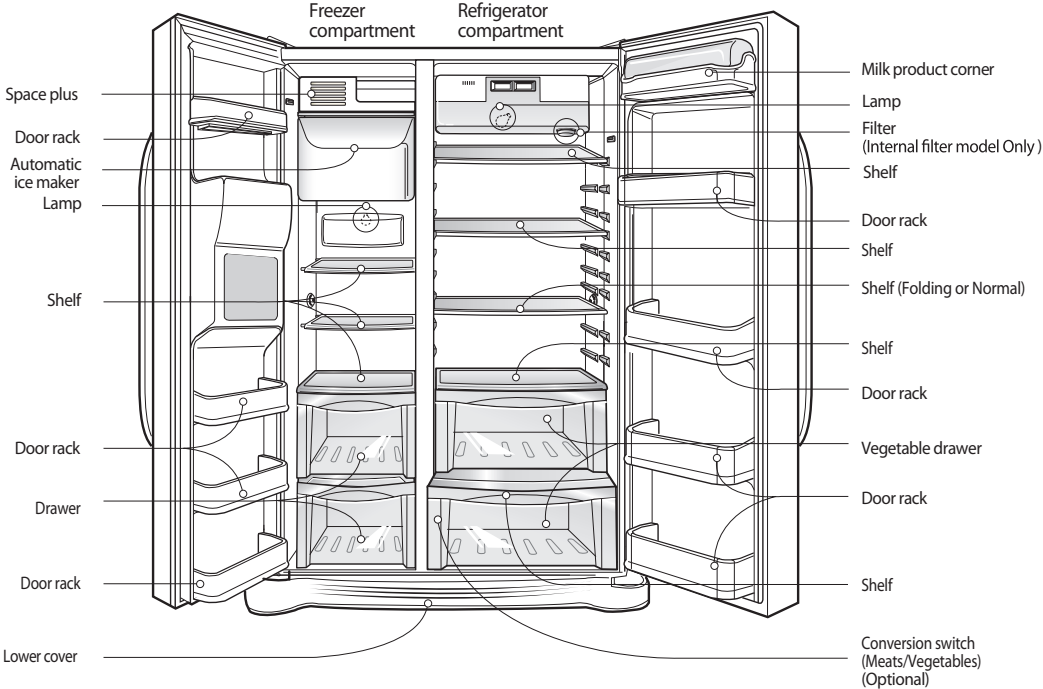
*Dispenser model - Type 2



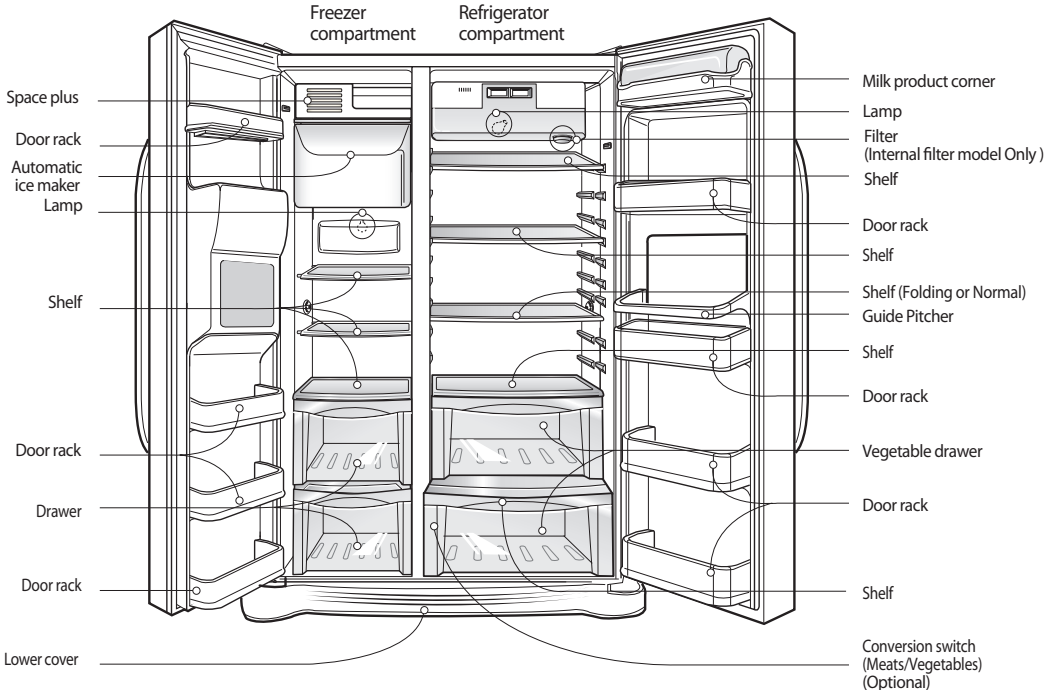
NOTE

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

***Dispenser model -Type 3**



***Dispenser model -Type 4**

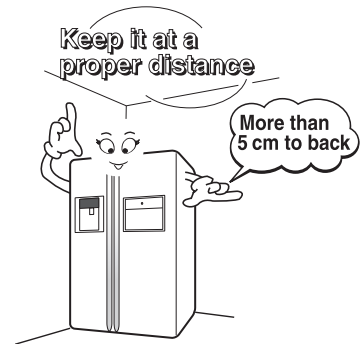


NOTE

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

Select a good location**Where to Install**

1. Place your appliance where it is easy to use.
2. Avoid placing the unit near heat sources, direct sunlight or moisture.
3. To ensure proper air circulation around the fridge -freezer, please maintain sufficient space on both the sides as well as top and maintain at least 2 inches (5 cm) from the rear wall.
4. To avoid vibrations, the appliance must be leveled.
5. Don't install the appliance below 5°C. It may cause affect the performance.

**Disposal of the old appliance**

This appliance contains fluid (refrigerant, lubricant) and is made of parts and materials which are reusable and/or recyclable.

All the important materials should be sent to the collection center of waste material and can be reused after rework (recycling). For take back, please contact with the local agency.

 **Warning**

Remove lower cover and then feed water tube

Remove the freezer compartment door

Remove the refrigerator door

Door removal

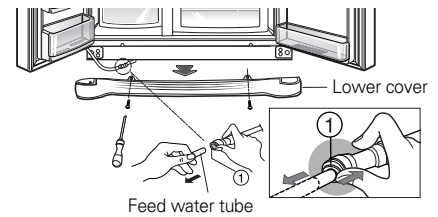
Electric Shock Hazard

Disconnect electrical supply to refrigerator before installing.

Failure to do so could result in death or serious injury.

If your access door is too narrow for the refrigerator to pass through, remove the refrigerator door and pass the refrigerator laterally.

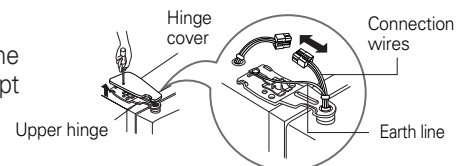
Remove the lower cover by loosening all the screws. Then pull up the feed water tube while pressing area ①, shown in the figure, to the right.



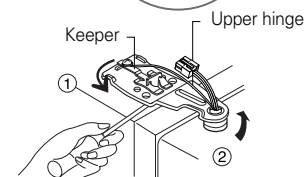
NOTE

- If a tube end is deformed or abraded, cut the part away.

1) Removing the hinge cover by loosening the screws. Separate all connection wires except for the earth line after.



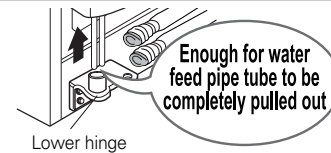
2) Remove the keeper by rotating it counter clockwise (①) and then lifting the upper hinge up (②).



NOTE

- When removing the upper hinge, be careful that the door does not fall forwards .

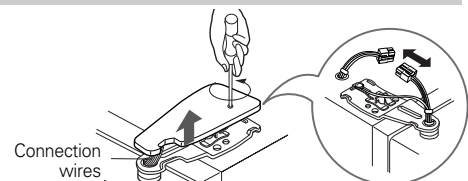
3) Remove the freezer compartment door by lifting it upward. This time, the door should be lifted enough for the feed water pipe tube to be completely pulled out.



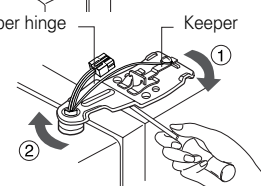
NOTE

- Move the refrigerator compartment door passing through the access door and lay it down, but be careful not to damage the feed water pipe tube.

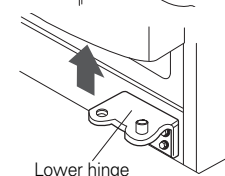
1) Loosen the hinge cover screws and remove the cover. Remove connection wire, if any, except for the earth line.



2) Remove keeper by rotating it clockwise (①) and then remove the upper hinge by lifting it up (②).



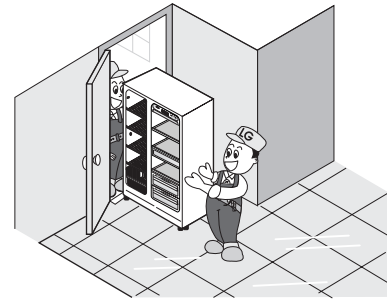
3) Remove the refrigerator compartment door by lifting it up.



Installation

Pass the refrigerator

Pass the refrigerator laterally through the access door as shown in the right figure.



Door replacement

Mount them in the reverse sequence of removal after they pass through the access door.

Feed water pipe installation (*Dispenser model only)

Before installation

- Automatic ice maker operation needs water pressure of 147~834 kPa (1.5~8.5 kgf/cm²) (That is, an instant paper cup (180 cc) will be fully filled within 3 sec.).
- If water pressure does not reach the rating 147 kPa (1.5 kgf/cm²) or below, it is necessary to purchase a separate pressure pump for normal automatic icing and cool water feed.
- Keep the total length of the feed water pipe tube within 8 m and be careful for the tube not be bent. If the tube is 8 m or longer it may cause trouble in water feed owing to the drain water pressure.
- Install the feed water pipe tube at a place free from heat.

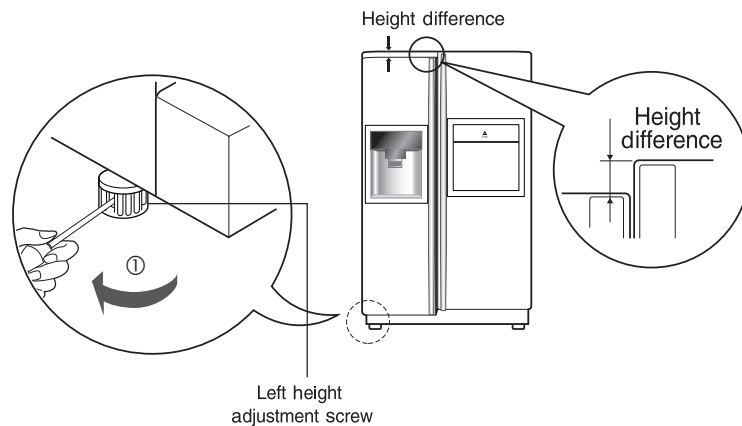
Warning

- Connect to potable water supply only.
- Refer to instructions with water filter kit for installation.

Height adjustment

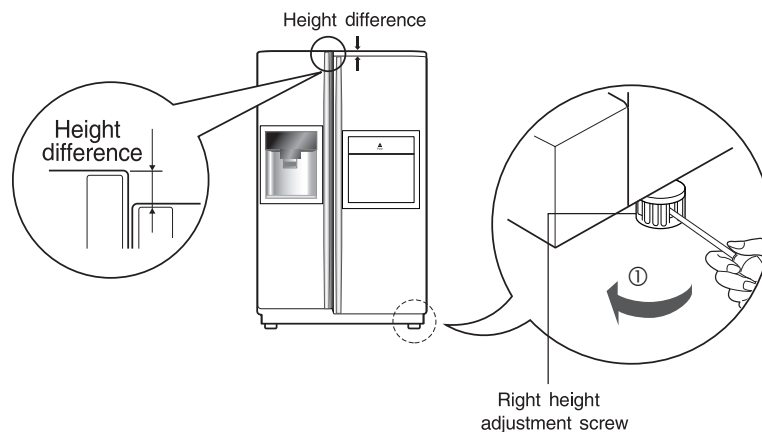
If the freezer compartment door is lower than the refrigerator compartment door

Level the door by inserting flat (- type) driver into the groove of the left height adjusting screw and rotate it clockwise (⌚).



If the freezer compartment door is higher than the refrigerator compartment door

Level the door by inserting flat (- type) driver into the groove of the right height adjusting screw and rotate it clockwise (⌚).



After leveling the door height

The refrigerator doors will close smoothly by heightening the front side by adjusting the height adjusting screw. If the doors do not close correctly, performance may be affected.

Next

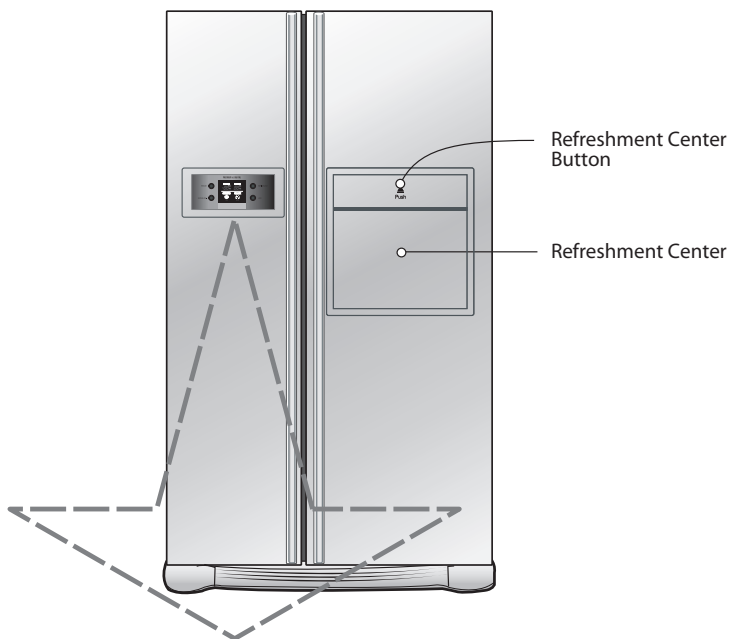
1. Wipe off all dust accumulated during shipping and clean your appliance thoroughly.
2. Install accessories such as the ice cube box, cover evaporating tray, etc., in their proper places. They are packed together to prevent possible damage during shipping.
3. Connect the power supply cord (or plug) to the outlet. Don't double up with other appliances on the same outlet.

Starting

When your refrigerator is first installed, allow it to stabilize at normal operating temperatures for 2-3 hours prior to filling it with fresh or frozen foods.
If operation is interrupted, wait 5 minutes before restarting.

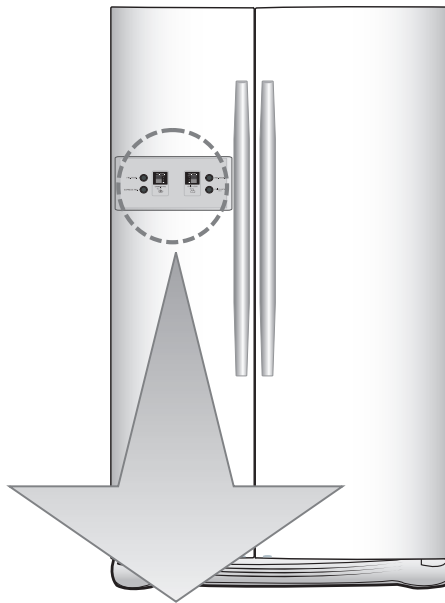
Adjusting the temperatures and functions

*Non dispenser model - Type 1



Optional	Function display board
Type-1	<p>The Type-1 display board features a central digital display with two sections: 'FRZ. TEMP.' and 'REF. TEMP.', each showing a temperature in °C and °F. Below the display are buttons for 'EXPRESS FRZ.' and 'CHILD LOCK'. To the left are 'FREEZER' and 'EXPRESS FRZ.' buttons. To the right are 'REFRIGERATOR' and 'CHILD LOCK 3SECS' buttons. A 'Display Power Saving Mode' indicator is shown at the bottom left.</p>
Type-2	<p>The Type-2 display board is similar to Type-1 but includes 'MAX.' and 'MIN.' indicators for both 'FRZ. TEMP.' and 'REF. TEMP.' on the digital display. The 'EXPRESS FRZ.' and 'CHILD LOCK' buttons are also present.</p>

*Non Dispenser model - Type 2



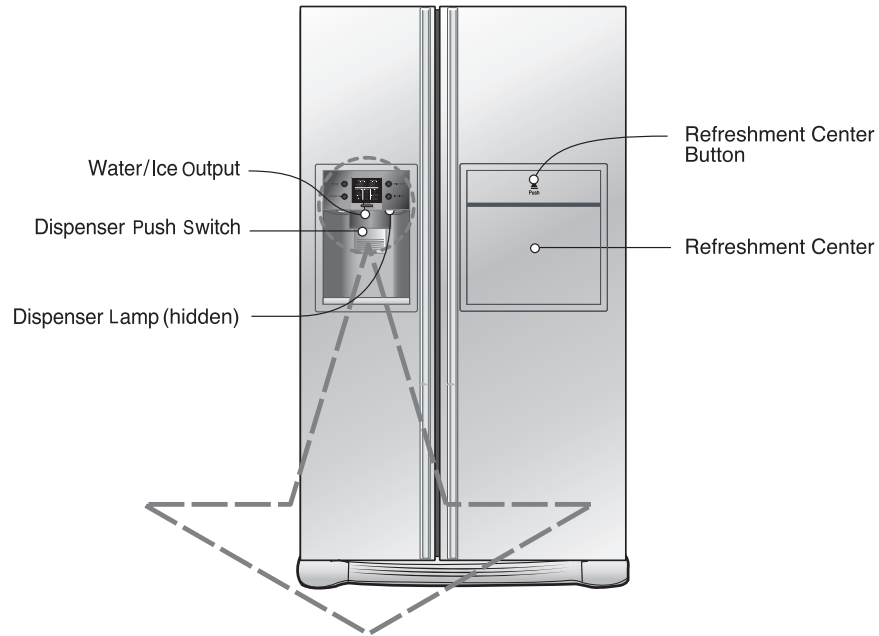
Optional	Function display board	
Type-1	<p>Display Saving Mode</p>	<p>Temperature adjustment button for freezer compartment.</p> <p>Temperature adjustment button For refrigerator compartment.</p>
Type-2	<p>Display Saving Mode</p>	<p>FRZ.TEMP.</p> <p>REF.TEMP.</p>
Type-3	<p>Display Saving Mode</p>	<p>Express freezer.</p> <p>Child lock : Hold3 secs.</p>

NOTE

- Your model may not include every option.
- Display Type-3: The control display is operated by touch. Excessive moisture on the display may cause a malfunction. Please keep display clean and dry.

Operation

*Dispenser model - Type 1

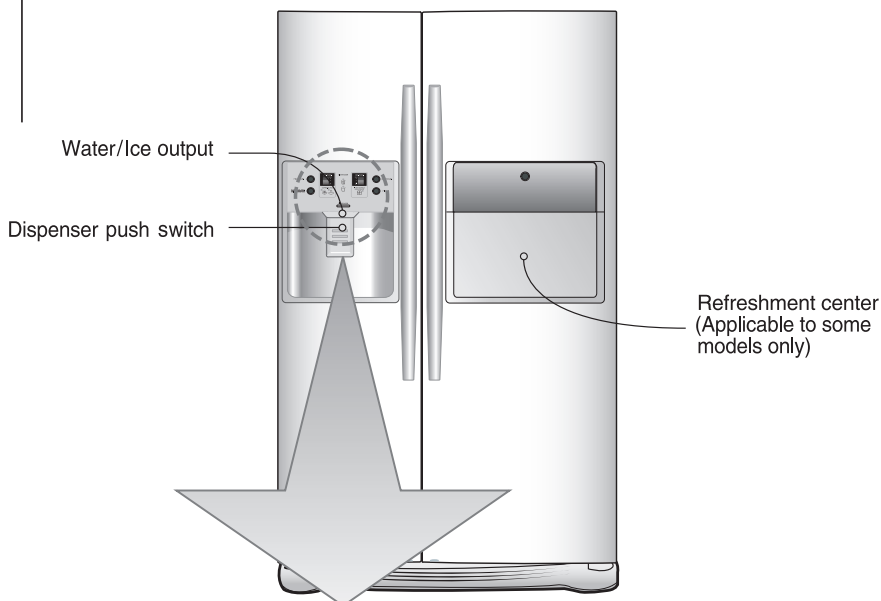


Optional	Function display board
<p>Type-1</p>	<p>Display Power Saving Mode</p>
<p>Type-2</p>	

NOTE

- Your model may not include every option.

*Dispenser model - Type 2



Optional	Function display board	
Type-1	<p>FRZ.TEMP. EXPRESS FRZ CHILD LOCK μSECS</p> <p>DISPENSER</p> <p>REF.TEMP. FILTER</p> <p>Display Saving Mode</p>	<p>Temperature adjustment button for freezer compartment.</p> <p>Temperature adjustment button for refrigerator compartment.</p>
Type-2	<p>FRZ.TEMP. EXPRESS FRZ CHILD LOCK μSECS</p> <p>DISPENSER</p> <p>REF.TEMP. FILTER</p> <p>Display Saving Mode</p>	<p>FRZ.TEMP. REF.TEMP.</p>
Type-3	<p>FRZ.TEMP. EXPRESS FRZ CHILD LOCK μSECS</p> <p>DISPENSER</p> <p>REF.TEMP. LIGHT/FILTER</p> <p>Display Saving Mode</p> <p>Filter reset button. Light ON/OFF button - Option</p>	<p>EXPRESS FRZ. CHILD LOCK μSECS</p> <p>REF.TEMP. FILTER</p> <p>Express freezer. Child lock: Hold 3 sec.</p> <p>Filter reset button.</p> <p>DISPENSER</p> <p>Dispenser selection button</p>
Type-4	<p>FRZ.TEMP. EXPRESS FRZ CHILD LOCK μSECS</p> <p>DISPENSER</p> <p>REF.TEMP. LIGHT/FILTER</p> <p>Display Saving Mode</p> <p>Filter reset button. Light ON/OFF button - Option</p>	<p>FRZ.TEMP. REF.TEMP.</p> <p>DISPENSER</p> <p>Dispenser selection button</p>

NOTE


- Your model may not include every option.
- Display Type-3: The control display is operated by touch. Excessive moisture on the display may cause a malfunction. Please keep display clean and dry.

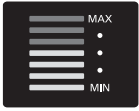

Display power saving (on some model)

This function save the display power
 Press the FREEZER and EXPRESS FRZ. buttons simultaneously and hold them for 5 seconds until the Ding sounds. All LED/LCDs will then turn ON, then OFF. When the power saving mode is activated, the display will remain off until the next time the door is opened. Then, it will come on whenever a door is opened or a button is pressed and remain on for 20 seconds after the last door opening or button selection. To deactivate the power saving mode, press the FREEZER and EXPRESS FRZ. buttons simultaneously and hold them for 5 seconds until the Ding sounds.


You can adjust temperature of and freezer room and refrigerator room.

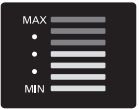

How to adjust the temperature in the freezer compartment

FRZ.TEMP. 

Optional	Type-1	Type-2	Type-3
FRZ TEMP	-15°C		
Setting Temperature	Start -19°C → -21°C → -22°C → -23°C → -15°C → -16°C → -17°C ↑		

How to adjust the temperature in the refrigerator compartment

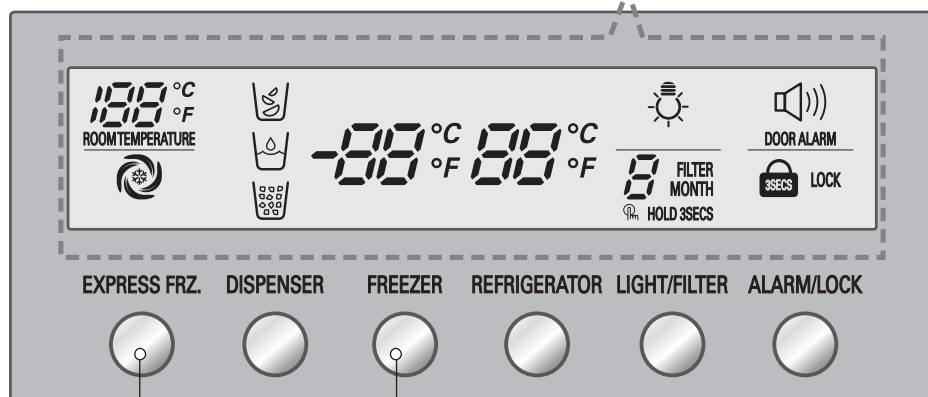
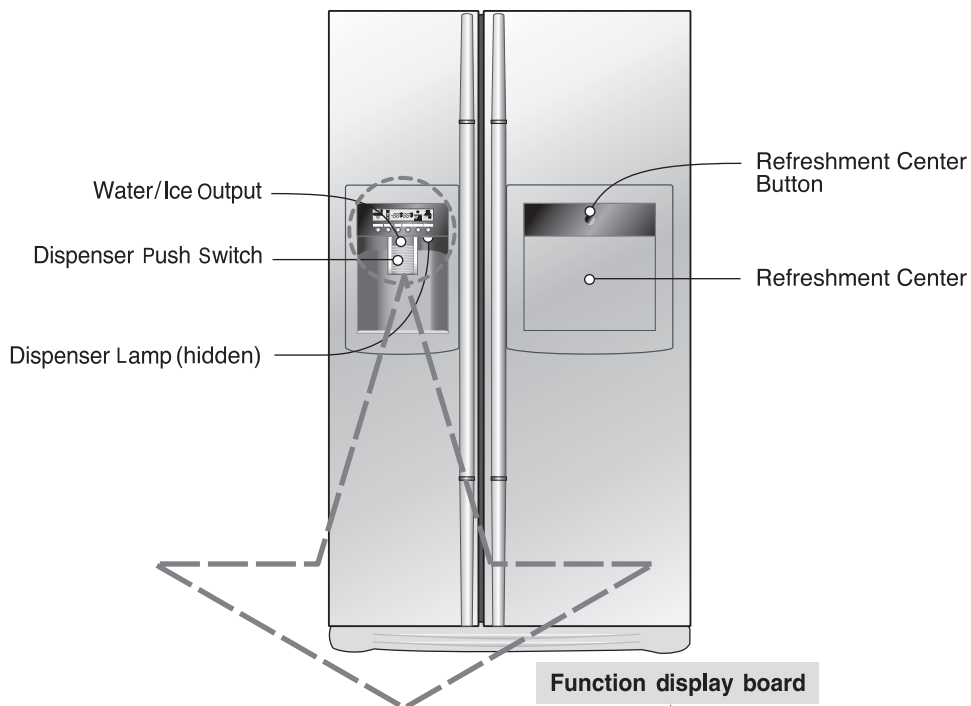
REF.TEMP. 

Optional	Type-1	Type-2	Type-3
REF TEMP	3°C		
Setting Temperature	Start 3°C → 2°C → 1°C → 0°C → 6°C → 5°C → 4°C ↑		

※ Whenever pressing button, setting is repeated in the order.

- The actual inner temperature varies depending on the food status, as the indicated setting temperature is a target temperature, not actual temperature within refrigerator.
- Refrigeration function is weak in the initial time. Please adjust temperature as above after using refrigerator for minimum 2~3 days.

***Dispenser model - Type 3**



Display Power Saving Mode

NOTE

- Your model may not include every option.
- The control display is operated by touch. Excessive moisture on the display may cause a malfunction. Please keep display clean and dry.

Display Power Saving Mode

This function places the display into power saving mode until the next time the door is opened.

Press the FREEZER and EXPRESS FRZ. buttons simultaneously and hold them for 5 seconds until the Ding sounds. All LEDs will then turn ON, then OFF. When the power saving mode is activated, the display will remain off until the next time the door is opened. Then, it will come on whenever a door is opened or a button is pressed and remain on for 20 seconds after the last door opening or button selection. To deactivate the power saving mode, press the FREEZER and EXPRESS FRZ. buttons simultaneously and hold them for 5 seconds until the Ding sounds.

You can adjust temperature of and freezer room and refrigerator room.

How to adjust the temperature in the freezer compartment

Freezer Compartment temperature adjustment



How to adjust the temperature in the refrigerator compartment

Refrigerator Compartment temperature adjustment




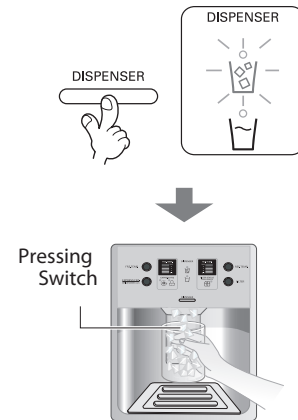
* Whenever pressing button, setting is repeated in the order of (Weak) → (Middle Weak) → (Middle) → (Middle Strong) → (Strong).

- The actual inner temperature varies depending on the food status, as the indicated setting temperature is a target temperature, not actual temperature within refrigerator.
- Refrigeration function is weak in the initial time. Please adjust temperature as above after using refrigerator for minimum 2~3 days.

Dispenser use selection

You can select water or ice.

- * Please select water and square ice by pressing  button as you desire.
- * Please press the push button lightly by catching and pushing in cup.
 - The border line is indicated for the selected function,
 - "Tak!" sounds if 5 seconds pass after ice comes out.
It is sound that the outlet of ice is closed.



- Reference : Please wait for 2-3 seconds in order to take final ice slices or drops of water when taking out cup from the pressing switches after taking ice or water.

Automatic ice maker

- The icemaker can automatically make 8 pieces of ice cubes at anyone time, approximately 80 pieces per day. However these quantities may vary according to certain conditions. E.g. the duration and amount of times the refrigerator door is opened.
- The Ice making proceeds ceases automatically when the ice storage bin is full.
- If you choose not to use the automatic ice making function, repositioned the icemaker selection switch to the off position or the on position for reselection. Note: The manual selection function is only applicable to some models only.

NOTE

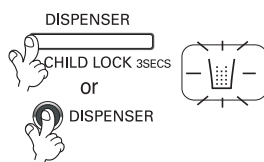
- It is normal that a noise is produced when ice made is dropped into the ice storage bin.

Dispenser use (on some model)

- Select among crushed ice, water, and cubed ice and press the push switch with a glass or other container.

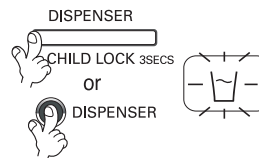
Crushed Ice

Light the crushed ice lamp by pressing the selection button.



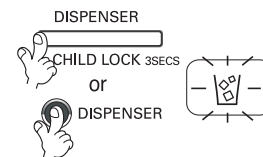
Water

Light the water lamp by pressing the selection button.



Cubed Ice

Light the cubed ice lamp by pressing the selection button.



- Reference : Hold your cup in place for a couple of seconds after dispensing ice or water so the last few drops go in to your cup instead of the floor.

Operation

When ice maker does not operate smoothly

Ice is lumped together

- When ice is lumped together, take the ice lumps out of the ice storage bin, break them into small pieces, and then place them into the ice storage bin again.
- When the ice maker produces too small or lumped together ice, the amount of water supplied to the ice maker need to adjusted. Contact the service center.
- ※ If ice is not used frequently, it may lump together.

Power failure

- Ice may drop into the freezer compartment. Take the ice storage bin out and discard all the ice then dry it and place it back. After the machine is powered again, crushed ice will be automatically selected.

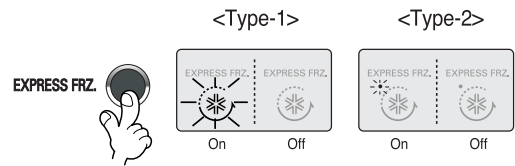
The unit is newly installed

- It takes about 12 hours for a newly installed refrigerator to make ice in the freezer compartment.

Express freezer

Please select this function for prompt freezer.

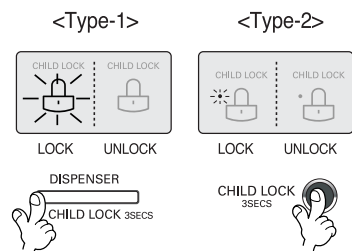
- OFF → ON → OFF is repeated whenever pressing EXPRESS FRZ. button.
- The arrow mark graphic remains at the On status after flickering 4 times when selecting Special Refrigeration On.
- Prompt freezer function automatically turns off after a fixed time passes.



Lock

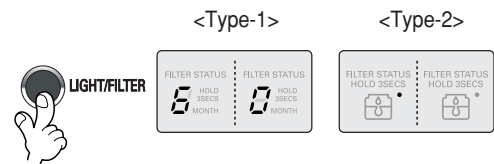
This button stops operation of different button.

- Locking or Release is repeated whenever the is pressed more than 3 seconds.
- If you use the lock button, none of the other buttons will work until you unlock them.



Filter condition (filter replacement cycle) display function (on some model)

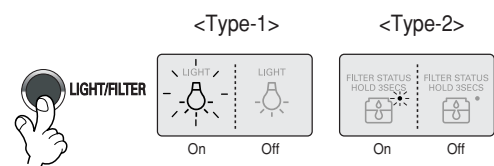
- There is a replacement indicator light for the water filter cartridge on the dispenser.
- The water filter should be replaced every six months.
- The filter light comes on to let you know when to replace filter.
- After replacing the filter, press and hold the filter button more than 3 seconds to reset the indicator.



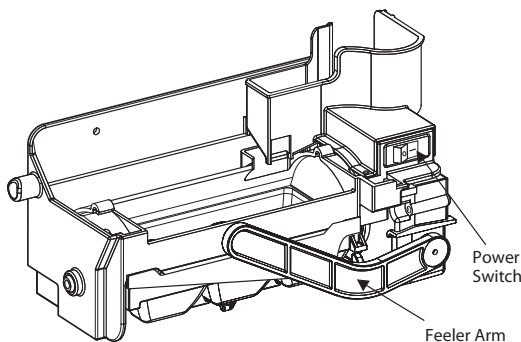
Dispenser light (on some model)

This button turn the dispenser light in the dispenser on an off.

- The dispenser light function is turned ON or OFF by pressing Light/Filter button.



Automatic icemaker (on some model)



- The automatic icemaker can automatically make 6 cubes at a time, 50~60 pieces per day. This quantity may vary by circumstance, including ambient temperature, door opening, freezer load. etc.
- Icemaking stops when the ice storage bin is full.
- If you don't want to use the automatic icemaker, turn the icemaker switch to OFF. If you want to use automatic icemaker again, change the switch to ON.

NOTE

- The sound produced when the ice drops in the ice storage bin is normal, not caused by the defective product.

WARNING

- Do not insert your hands in to the Icemaker in operation. It may cause to injure you.

WARNING

- Do not store ice (cubes) longer then two weeks.

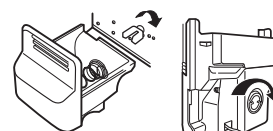
Cautions in using the dispenser (on some model)

To get cold water

The dispensed water is not icy cold, but just cool or cold. If you want colder water, dispense ice before dispensing water.

If you have difficulty in replacing the ice storage bin

Rotate the rotary gear in 1/4 cycle as shown in the figure, and then push it back.

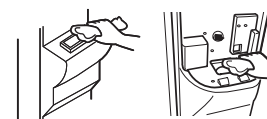


depends on model

When the ice dispenser will not operate properly

It is normal when a small amount of ice is left. Allow approximately one day for the ice maker to restock.

If the ice forms into a mass to interrupt the operation of the automatic ice maker mechanism, remove the ice storage bin, separate the ice, discard the inseparable ice, and put the ice pieces back into the bin. The intermittent dispensing of ice is normal. However, since ice may be stuck to block the ice chute, regularly check the ice chute to clear the obstacles.



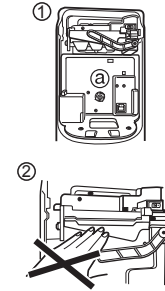
depends on model

WARNING

- Never insert the hand or any other object into the icechute since it may damage the parts or hurt the hand.
- When ice is discolored, stop using the dispenser and call the service centre.

CAUTION

- Do not touch the blade ① ② since may injure the hand.
- Do not insert your hands in to the icemaker in operation. It may cause to injure you ②.
- Do not hang on the ice dispenser or the ice storage bin to your children since it may injure the body.

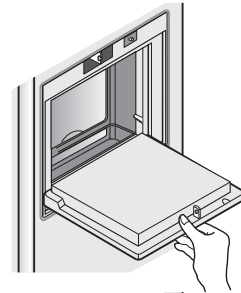


Refreshment center (Applicable to some models only)

How to use

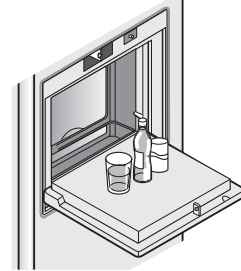
Open the refreshment center door.

- You can access the refreshment center without opening refrigerator door and thus saving electricity.
- Inner lamp is lit in refrigerator compartment when the refreshment center door opens. Thus it is easy to identify the contents.



Use the refreshment center door as a stand

- Never use the refreshment center door as a chopping board and take care not to damage it with sharp tools.
- Never rest your arms or severely press on it.



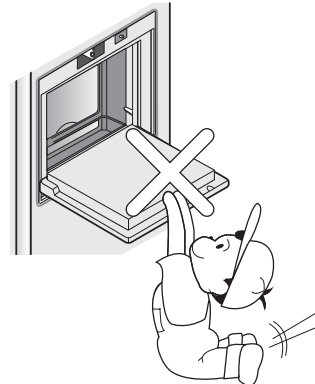
Never take out the inner refreshment center cover

- The refreshment center can not function normally without the cover. Only models with inner refreshmentcenter cover



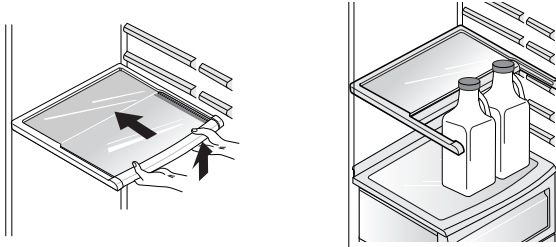
Never place heavy items on the refreshment center door or allow children to hang it on.

- Not only can the refreshment center door may be damaged, but also children may be hurt.

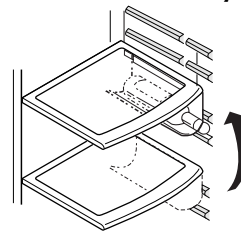


Folding Shelf**Shelf (Applicable to some models only)**

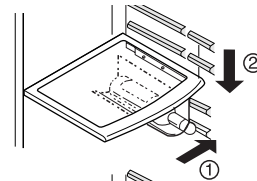
You can store taller items such as a gallon container or bottles by simply pushing in front half of shelf underneath back half of shelf. Pull toward you to return to a full shelf.

**Wine holder adjustment (Type 1)****Wine holder (Applicable to some models only)**

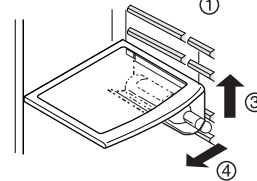
Bottles can be stored laterally with this wine corner.
This can be attached to any shelf.



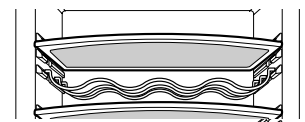
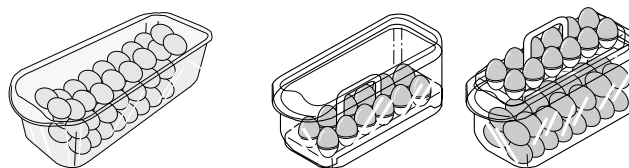
In case of inserting the wine holder :
Pull the wine holder downward as in ② after inserting it into the side anchoring part of the shelf as in ① by catching it upward as in ①.



In case of separating the wine holder :
Pull the wine holder inward as in ④ after holding it upward as in ③ by catching it.

**(Type 2)**

Bottles can be stored laterally with this wine rack.

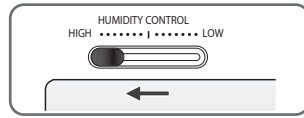
**Egg box****NOTE**

- Never use the egg box as an ice storage bin. It can be broken.
- Never store the egg box in the freezer compartment or fresh compartment.

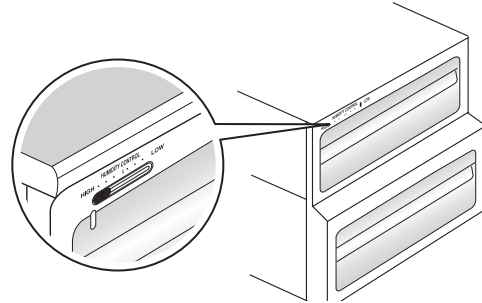
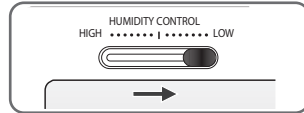
Humidity control in the vegetable compartment (Applicable to some models only)

The humidity can be controlled by adjusting the humidity control switch to the left/right when storing vegetables or fruits.

High humidity



Low humidity

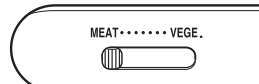


Convert into a vegetable or meat compartment (Applicable to some models only)

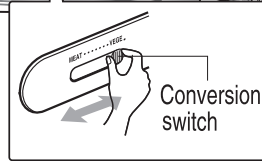
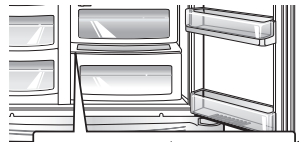
- The bottom drawer in the refrigerator can be converted into a vegetable or meat compartment



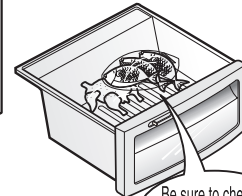
Vegetable compartment



Meat compartment



Conversion switch



Be sure to check the conversion switch before storing foods

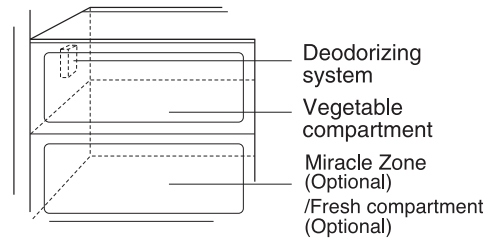
The meat compartment maintains the temperature at a lower point than the refrigerator compartment so that meat or fish can be stored fresh longer.

NOTE

- Vegetables or fruits are frozen if the conversion switch is set to meats compartment. So, be sure to check it before storing foods.

Deodorizer (Applicable to some models only)

This system efficiently absorbs strong odors by using the optical catalyst. This system does not have any effect on stored food.



Deodorizing system

Vegetable compartment

Miracle Zone (Optional)

/Fresh compartment (Optional)

How to use the deodorizing system

- Since it is already installed onto the cool air intake duct from the refrigerator compartment, you need no separate installation.
- Please use closed containers to store food with pungent odors. Otherwise, this odor can be absorbed by other food in the compartment.

Miracle Zone Temperature Transition Corner (Applicable to some models only)

By pressing the button, store vegetables, fruits or other types of food such as meat to be defrosted, raw fish, etc.

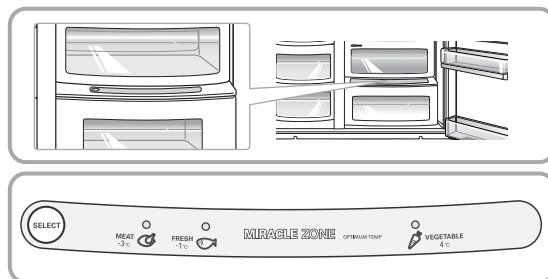


Temperature Change at Miracle Zone (Applicable to some models only)

Method to Use

You can select optimum temperature range depending on types of foods stored.

- 3-step of temperature selection including -3°C , -1°C and 4°C is available. Vegetables/fruits and cold storage foods requiring humidity maintenance and meats/fishes can be more freshly stored depending on type of foods stored.

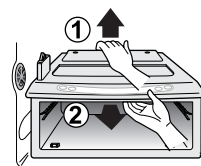


- When using the Miracle Zone as storage room of meats, storing vegetables or fruits may be frozen
- When using the Miracle Zone as storage room of meats, keeping meats or fishes may be spoiled and thus meats or fishes must be kept at the F-room.
- If opening a door of the R-room, lamp turns on in the selected status and lamp turns off if closing it.
- (Vegetable/Fruit) → (Cold storage while maintaining humidity) → (Meat) is sequentially repeated whenever pressing the "Selection" button.

Miracle Zone (Applicable to some models only)

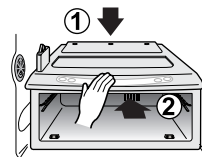
When removing Miracle Zone

- First, remove the vegetable bin.
- After lifting the Miracle Zone case slightly ①, reach inside and pull it outward ②.



When installing Miracle Zone

- Fit the Miracle Zone case on to the ledge ① and gently slide it in ②.
- When forced, the connecting parts can be damaged.



Operation

The other functions

Door open warning

- 3 times of warning sounds at the interval of 30 seconds if a minute passes with the door of refrigerator and the hombar door opened or completely closed.
- Please contact with the local service center if warning continue to sound even after closing the door.

Diagnosis (failure detection) function

- Diagnosis function automatically detects failure when failure is found in product during the use of refrigerator.
- If failure occurs at product, it does not operate though pressing any button and normal indication is not done. In this case, do not turn power off but immediately contact with the local service center. A lot of time are need for service engineer to detect the failed part if turning it off.

How ice/cold water is supplied

Water is cooled while stored in the water tank in the refrigerator compartment, and then sent to the dispenser.

Ice is made in the automatic ice maker and sent to the dispenser divided into crushed or cubed form ice.

NOTE

- It is normal that the water is not very cold at first. If you want colder water, add ice into the glass.

Cautions

Throw away the ice (about 20 pieces) and water (about 7 glasses) first made after refrigerator installation.

The first ice and water may include particles or odor from the feed water pipe or feed water box. This is necessary in case that the refrigerator has not been used for a long time.

Keep children away from the dispenser.

Children may push switch incorrectly bad or damage lamps.

Be careful that food is not block the ice passage.

If foods are placed at the entrance of ice passage, ice may not be dispensed. The ice passage may also be covered with ice powder if splinter ice is used only. This time, remove the ice powder accumulated.

Never store beverage cans or other foods in ice storage bin for the purpose of rapid cooling.

Such actions may damage the automatic ice maker.

Never use thin crystal glass or crockery to collect ice.

Such glasses or containers may be broken.

Put ice first into a glass before filling water or other beverages.

Water may be splashed if ice is added to existing liquid in a glass.

Never touch a hand or other tools on ice outlet.

Touch may cause a part breakage or hand injury.

Never remove the ice maker cover.

Sometimes level the surface so that the ice storage bin is fully filled with ice.

Ice is piled up just near the ice maker. So, such status may be considered, by the ice maker, that the ice storage bin is fully filled and ice making operation may stop.

If discolored ice is dispensed, immediately contact service center, stopping use.

Never use too narrow or deep glass.

Ice may be jammed in ice passage and, thus, the refrigerator may be failed.

Keep the glass at a proper distance from ice outlet.

A glass too close to the outlet may hinder ice from coming out.

Suggestion on food storage

Location of foods

(Refer to identification of parts)

Wine holder

Store wine.

Snack drawer

Store small foods such as bread, snacks, etc..

Freezer compartment shelf

Store various frozen foods such as meat, fish, ice cream, frozen snacks, etc..

Freezer compartment door rack

- Store small packed frozen food.
- Temperature is likely to increase as door opens. So, do not store long-term food such ice cream, etc..

Freezer compartment drawer

- Store meat, fish, chicken, etc.. after wrapping them with thin foil.
- Store dry.

Milk product corner

Store milk products such as butter, cheese, etc..

Egg box

Place this egg box in the proper location.

Refreshment center

Store foods of frequent use such as beverage, etc..

Refrigerator compartment shelf

Store side dishes or other foods at a proper distance.

Refrigerator compartment door rack

Store small packed food or beverages such as milk, juice, beer, etc..

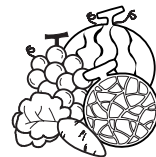
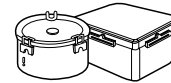
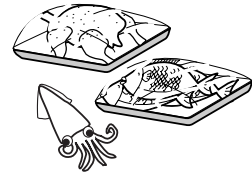
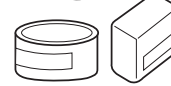
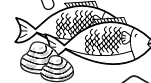
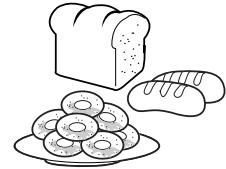
Vegetable drawer

Store vegetables or fruits.

Vegetable drawer /meat drawer conversion corner

Store vegetable, fruits, meat to thaw, raw fish, etc.. setting the conversion switch as necessary.

Be sure to check the conversion switch setting before storing foods.



Storing foods

- Store fresh food in the refrigerator compartment. How food is frozen and thawed is an important factor in maintaining its freshness and flavor.
- Do not store food which goes bad easily at low temperatures, such as bananas, and melons.
- Allow hot food to cool prior to storing, placing hot food in the refrigerator could spoil other food, and lead to higher energy consumption.
- When storing the food, cover it with vinyl wrap or store in a container with a lid. This prevents moisture from evaporating, and helps food to keep its taste and nutrients.
- Do not block air vents with food. Smooth circulation of chilled air keeps refrigerator temperatures even.
- Do not open the door frequently. Opening the door lets warm air enter the refrigerator, and cause temperatures to rise.
- Never keep too much food in door rack because they may push against by inner racks so that the door cannot be fully closed.

Freezer compartment

- Do not store bottles in the freezer compartment - they may break when frozen.
 - Do not refreeze food that has been thawed. This causes loss of taste and nutrient.
 - When storing frozen food like ice cream for a long period, place it on the freezer shelf, not in the door rack.
 - Do not touch the cold foods or containers- especially made of metallic -, with wet hands and place glass products in the freezer compartment.
- That's why you may have chilblains and they may be broken when their inner matters are frozen, causing personal injury.

Refrigerator compartment

- Avoid placing moist food in top refrigerator shelves, it could freeze from direct contact with chilled air.
- Always clean food prior to refrigeration. Vegetables and fruits should be washed and wiped, and packed food should be wiped, to prevent adjacent food from spoiling.
- When storing eggs in their storage rack or box, ensure that they are fresh, and always store them in an upright position, which keeps them fresh longer.

NOTE

- If you keep the refrigerator in a hot and humid place, frequent opening of the door or storing a lot of vegetables in it may cause dew to form which has no effect on its performance. Remove the dew with dust cloth free from care.

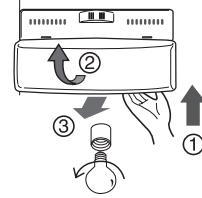
How to dismantle parts

NOTE

- Dismantling is done in the reverse sequence of assembly.
- Be sure to unplug the power plug before dismantling and assembly.
- Never apply severe force to dismantle parts. Parts may be damaged.

Freezer compartment lamp

Separate the lamp by pulling it out ③ while slightly pressing ① and rotating ② the lamp cover. Turn the bulb counterclockwise. Use a 40-watt bulb (max.) which can be purchased at a service center.



NOTE

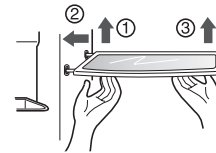
- Not all bulbs will fit your refrigerator.
- Be sure to replace the bulb with one of the same size, shape and wattage.
- The dispenser lights are LEDs that can not be changed.

Lamp in refrigerator compartment

To remove the lamp cover, press the protrusion under the lamp cover to the front and then pull the lamp cover out. Turn the bulb counterclockwise. Max. 40 W bulb for refrigerator is used and can be purchased at a service center.

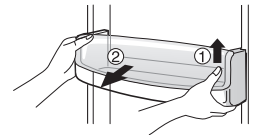
Freezer compartment shelf

To remove a shelf, push the shelf to the left ②, lift the left part of the shelf a bit ①, lift the right part up ③, and take it out.



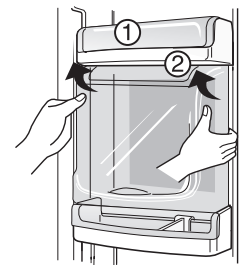
Door rack and support

Lift the door rack holding both sides ① and pull it out ②.



Refreshment center

- Separate the bin (①) to upward.
- Separate the upper rack of the refreshment center and then pull out the refreshment center cover (②).
- The refreshment center can be removed by pulling it upwards.

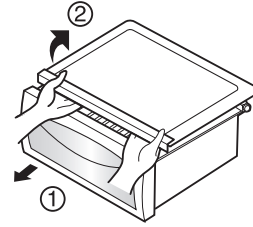


NOTE

- Be sure to remove parts from the refrigerator door when removing the vegetable compartment, snack drawer and refreshment center cover.

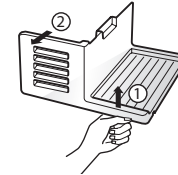
Vegetable compartment cover

- To remove the vegetable compartment cover, pull out the vegetable compartment a bit to the front ①, lift the front part of the vegetable compartment cover as shown by ②, and take it out.



Space plus

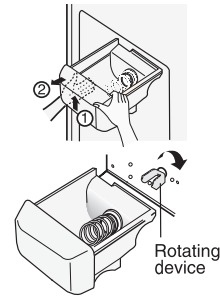
Lift the space plus (①) and pull it out to (②) direction.



Ice storage bin

Hold the ice storage bin as shown in the right figure and pull it out (②) while slightly lifting it (①).

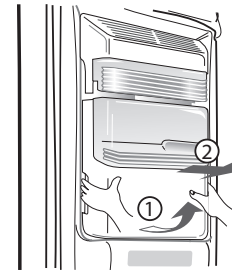
- It is recommended not to dismantle the ice storage bin unless it is necessary.
- Be sure to use both hands when removing the ice storage bin, so as not to drop it on the floor.
- If the ice storage bin does not fit well, slightly rotate the rotating device.



Ice storage bin

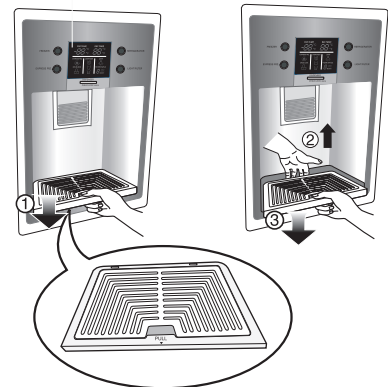
Hold the ice storage bin as shown in the right figure and pull it out (②) while slightly lifting it (①).

- Do not dismantle the ice storage bin unless it is necessary.
- Use both hands to remove the ice bin to avoid dropping it.



After dispenser is used

The water collector has no self-draining function. It should be cleaned regularly. Remove the cover by pulling the front side of water collector cover and dry it with a cloth. Pull the cover fully to the front (①) and pull up the rear end of the cover (②) slightly to pull it out. (③) Clean the floor and cover with a dry cloth.



Ice Maker

Turn off the Ice maker switch(off) after remove the Space plus, if you are on a long term vacation or don't use a ice. You want to use a ice, turn on the Ice make switch(on).

General information

Vacation time

During average length vacations, you will probably find it best to leave the refrigerator in operation. Place freezable items in freezer for longer life.

When you plan not to operate, remove all food, disconnect the power cord, clean the interior thoroughly, and leave each door OPEN to prevent odor formation.

Power failure

Most power failures that are corrected in an hour or two will not affect your refrigerator temperatures.

However, you should minimize the number of door openings while the power is off.

If you move

Remove or securely fasten down all loose items inside the refrigerator.

To avoid damaging the height adjusting screws, turn them all the way into the base.

Anti condensation pipe

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

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

Cleaning

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

Exterior

Use a lukewarm solution of mild soap or detergent to clean the durable finish of your refrigerator.

Wipe with a clean damp cloth and then dry.

Interior

Regular cleaning is recommended. Wash all compartments a baking soda solution or a mild detergent and warm water. Rinse and dry.

After cleaning

Please verify that the power cord is not damaged, power plug is not overheated, or power plug is well inserted into the power consent.

Warning

Always remove power cord from the wall outlet prior to cleaning in the vicinity of electrical parts (lamps, switches, controls, etc.).

Wipe up excess moisture with a sponge or cloth to prevent water or liquid from getting into any electrical part and causing an electric shock.

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

Do not touch frozen surfaces with wet or damp hands, because damp object will stick or adhere to extremely cold surfaces.

Trouble shooting

Before calling for service, review this list. It may save you both time and expense. This list includes common occurrences that are not the result of defective workmanship or materials in this appliance.

Occurrence	Possible cause	Solution
Runing of refrigerator		
Refrigerator compressor does not run.	Refrigerator control is off.	Set refrigerator control. See setting the controls.
	Refrigerator is in defrost cycle.	This is normal for a fully automatic defrosting refrigerator. The defrost cycle occurs periodically.
	Plug at wall outlet is disconnected.	Make sure plug is tightly pushed into outlet.
	Power outage. Check house lights.	Call local electric company.
Refrigerator runs too much or too long	Refrigerator is larger than the previous one you owned.	This is normal. Larger, more efficient units run longer in these conditions.
	Room or outside weather is hot.	It is normal for the refrigerator to work longer under these conditions.
	Refrigerator has recently been disconnected for a period of time.	It takes some hours for the refrigerator to cool down completely.
	Large amounts of warm or hot food may have been stored recently.	Warm food will cause the refrigerator to run longer until the desired temperature is reached.
	Doors are opened too frequently or too long.	Warm air entering the refrigerator causes it to run longer. Open the door less often.
	Refrigerator or freezer door may be slightly open.	Make sure the refrigerator is level. Keep food and containers from blocking door. See problem section. OPENING/CLOSING of doors.
	Refrigerator control is set too cold.	Set the refrigerator control to a warmer setting until the refrigerator temperature is satisfactory.
	Refrigerator or freezer gasket is dirty, worn, cracked, or poorly fitted.	Clean or change gasket. Leaks in the door seal will cause refrigerator to run longer in order to maintain desired temperatures.
Thermostat is keeping the refrigerator at a constant temperature.	This is normal. Refrigerator goes on and off to keep the temperature constant.	

Care and maintenance

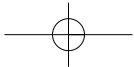
Occurrence	Possible cause	Solution
Refrigerator compressor does not run.	Thermostat is keeping the refrigerator at a constant temperature.	This is normal. The refrigerator goes on and off to keep the temperature constant.
Temperatures are too cold		
Temperature in the freezer is too cold but the refrigerator temperature is satisfactory.	Freezer control is set too cold	Set the freezer control to a warmer setting until the freezer temperature is satisfactory.
Temperature in the refrigerator is too cold and the freezer temperature is satisfactory.	Refrigerator control is set too cold.	Set the refrigerator control to a warmer setting
Food stored in drawers freezes.	Refrigerator control is set too cold.	See above solution.
Meat stored in fresh meat drawer freezes.	Meat should be stored at a temperature just below the freezing point of water (32°F, 0°C) for maximum fresh storage time.	It is normal for ice crystals to form due to the moisture content of meat.
Temperatures are too warm		
Temperatures in the refrigerator or freezer are too warm.	Freezer control is set too warm.	Set the freezer or refrigerator control to a colder setting until the freezer or refrigerator temperature is satisfactory.
	Refrigerator control is set too warm. Refrigerator control has some effect on freezer temperature.	Set the freezer or refrigerator control to a colder setting until the freezer or refrigerator temperature is satisfactory.
	Doors are opened too frequently or too long.	Warm air enters the refrigerator/ freezer whenever the door is opened. Open the door less often.
	Door is slightly open.	Close the door completely.
	Large amounts of warm or hot food may have been stored recently.	Wait until the refrigerator or freezer has a chance to reach its selected temperature.
	Refrigerator has recently been disconnected for a period of time.	A refrigerator requires some hours to cool down completely.
Temperature in the refrigerator is too warm but the freezer temperature is satisfactory.	Refrigerator control is set too warm.	Set the refrigerator control to a colder setting.

Care and maintenance

Occurrence	Possible cause	Solution
Sound and noise		
Louder sound levels when refrigerator is on.	Today's refrigerators have increased storage capacity and maintain more even temperatures.	It is normal for sound levels to be higher.
Louder sound levels when compressor comes on.	Refrigerator operates at higher pressures during the start of the ON cycle.	This is normal. The sound will level off as the refrigerator continues to run.
Vibrating or rattling noise.	Floor is uneven or weak. Refrigerator rocks on the floor when it is moved slightly.	Be sure floor is level and solid and can adequately support refrigerator.
	Items placed on the top of the refrigerator are vibrating.	Remove items.
	Dishes are vibrating on the shelves in the refrigerator.	It is normal for dishes to vibrate slightly. Move dishes slightly. Make sure refrigerator is level and firmly set on floor.
	Refrigerator is touching wall or cabinets.	Move refrigerator so that it does not touch the wall or refrigerator.
Water/Moisture /Ice inside refrigerator		
Moisture collects on the inside walls of the refrigerator.	The weather is hot and humid which increases the rate of frost buildup and internal sweating.	This is normal.
	Door is slightly open.	See problem section opening/closing of doors.
	Door is opened too often or too long.	Open the door less often.
Water/Moisture /Ice outside refrigerator		
Moisture forms on the outside of the refrigerator or between doors.	Weather is humid.	This is normal in humid weather. When humidity is lower, the moisture should disappear.
	Door is slightly open, causing cold air from the inside the refrigerator to meet warm air from the outside.	This time, close the door completely.

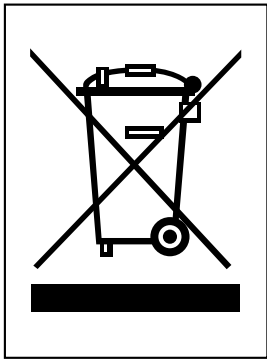
Care and maintenance

Occurrence	Possible cause	Solution
Odors in refrigerator		
	Interior needs to be cleaned.	Clean interior with sponge, warm water and baking soda.
	Food with strong odor is in the refrigerator.	Cover food completely.
	Some containers and wrapping materials produce odors.	Use a different container or brand of wrapping materials.
Opening/Closing of doors/Drawers		
Door(s) will not close.	Food package is keeping door open.	Move packages that keep door from closing.
Door(s) will not close.	Door was closed too hard, causing other door to open slightly.	Close both doors gently.
	Refrigerator is not level. It rocks on the floor when it is moved slightly.	Adjust the height adjusting screw.
	Floor is uneven or weak. Refrigerator rocks on the floor when it is moved slightly.	Be sure floor is level and can adequately support refrigerator. Contact carpenter to correct sagging or sloping floor.
	Refrigerator is touching wall or cabinets.	Move refrigerator..
Drawers are difficult to move.	Food is touching shelf on top of the drawer	Keep less food in drawer.
	Track that drawer slides on is dirty.	Clean drawer and track.
Dispenser		
Dispenser will not dispense ice	Ice storage bin is empty.	When the first supply of ice is dropped into the bin, the dispenser should operate.
	Freezer temperature is set too warm.	Turn the freezer control to a higher setting so that ice cubes will be made. When the first supply of ice is made, the dispenser should operate.
	Household water line valve is not open.	Open household water line valve and allow sufficient time for ice to be made. When ice is made, dispenser should operate.
	Refrigerator or freezer door is not closed.	Be sure both doors are closed.



Care and maintenance

Occurrence	Possible cause	Solution
Dispenser will not dispense ice.	Ice has melted and frozen around auger due to infrequent use, temperature fluctuations and/or power outages.	Remove ice storage bin, and thaw and the contents. Clean bin, wipe dry and replace in proper position. When new ice is made, dispenser should operate.
Ice dispenser is jammed.	Ice cubes are jammed between the ice maker arm and back of the bin.	Remove the ice cubes that are jamming the dispenser.
	Ice cubes are frozen together.	Use the dispenser often so that cubes do not freeze together.
	Ice cubes that have been purchased or made in some other way have been used in the dispenser.	Only the ice cubes made by the ice maker should be used with the dispenser.
Dispenser will not dispense water.	Household water line valve is not open. See problem "Ice maker is not making any ice."	Open household water line valve.
	Refrigerator or freezer door is not closed.	Be sure both doors are closed.
Water has an odd taste and/or odor.	Water has been in the tank for too long.	Draw and discard 7 glasses of water to freshen the supply. Draw and discard an additional 7 glasses to completely rinse out tank.
	Unit not properly connected to cold water line.	Connect unit to cold water line which supplies water to kitchen faucet.
Sound of ice dropping	This sound is normally made when automatically made ice is dropped into ice storage bin. Volume may vary according to refrigerator's location.	
Sound of water supply	This sound is normally made when ice maker is supplied with water after dropping the automatically made ice.	
Other	Please thoroughly read 'Automatic ice maker and dispenser' in this manual.	



DISPOSAL OF YOUR OLD APPLIANCE

1. When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
2. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

This product contains fluorinated greenhouse gases covered by the Kyoto Protocol.

Information of fluorinated greenhouse gases used as refrigerant of this refrigerator.

Chemical name	Composition of Gases	Total GWP (kgCO ₂ -eq)
R-134a	100% HFC-134a	1300

