



THE DCS REFRIGERATOR

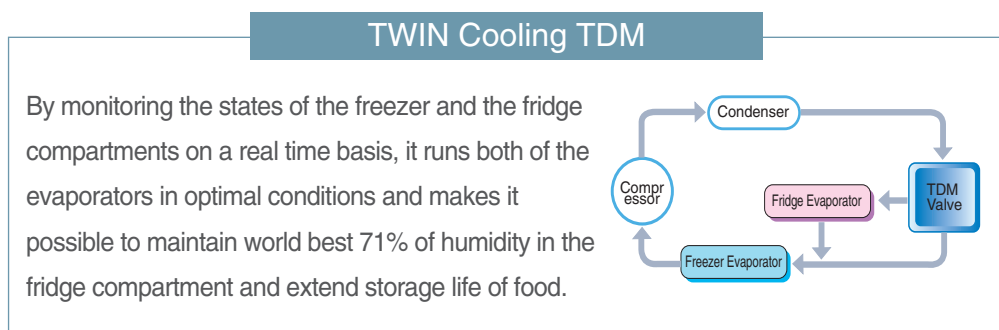
Use and Care Manual



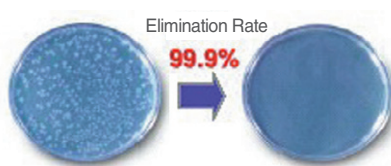
MODEL:
RF48SS

GOURMET refrigerators feature the following functions.

Its TDM cycle makes it possible to extend storage of food for longer periods.



Nano Silver Health System for antibiosis and bacteriostasis



By nano-coating the liner surfaces (compartments and doors) with silver, it prevents the propagation of bacteria inside of the refrigerator making it possible to store foods safely much longer.

- Advantages of Silver Nano-Coating
 - It does not harm the human body, is nonpoisonous and prevents the propagation of more than 650 kinds of bacteria, viruses and fungi.
 - Most of bacteria, viruses and fungi will be destroyed or impossible to propagate by the electric force of Ag⁺ ions.
 - It is made of silver particles which are effective without the deterioration of its antibiosis and bacteriostasis functions for its life time.

Fresh Island: Cutting Edge Customized Temp Control System



By optimizing storage temperatures and realizing 71% of humidity with TWIN Cooling TDM, it is now possible to customize its storage temperatures for various types of foods and different purposes.

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Make sure to follow the instructions for your safety.

The following instructions are to prevent personal injuries and property damage. Please read all the instructions to use the product properly.

SAFETY WARNINGS



Warning

- Before operating the appliance, please read this manual thoroughly and retain it for your reference.
- Because these following operating instructions cover various models, the characteristics of your refrigerator may differ slightly from those described in this manual.
- The appliance is not intended for use by children or infirm persons without adult supervision.
- Children should be supervised to ensure that they do not play with the appliance.
- HFC - R134a is used as a refrigerant.
- The refrigerator only uses ice makers which are made by brandsource Electronics for the refrigerator.
- The incorporated ice-makers are to be installed only by the manufacturer or its service agent.

CAUTION/WARNING SYMBOLS USED



115V

This product operates on rated 115V.



Warning

It indicates that there is possibility of death or serious injury if the instruction is not complied with.



Caution

It indicates that there is possibility of personal injuries or property damage if the instruction is not complied with.

OTHER SYMBOLS USED



Note

It explains terms to help users to understand how to use the product properly.



It is a mark indicating that the power plug should be removed from the wall outlet.



It is a mark indicating that earthing is required to prevent electric shock.

Term*

It helps users to use the product more efficiently.



It is a mark indicating that it is prohibited to disassemble.



It is a mark for a reference page.



WARNINGS

Do not plug several appliances into the same multiple power board.

- This could cause overheating and the risk of fire.

Make sure that the power plug is not squashed or damaged by the back of the refrigerator .

- A damaged power plug may overheat and cause fire.

Do not bend the power cord excessively or place heavy articles on it .

- This constitutes a fire hazard. If the power cord is damaged, have it replaced immediately by the manufacturer or its service agent.

Do not directly spray water inside or outside the refrigerator.

- There is a risk of fire or electric shock.

Do not spray inflammable gas near the refrigerator.

- There is a risk of explosion or fire.

Do not insert the power plug with wet hands.

- You may receive an electric shock.

Do not put a container filled with water on the refrigerator.

- If spilled, there is a risk of fire or electric shock.

Do not install the refrigerator in a damp place or a place where it may come in contact with water.

- Deteriorated insulation of electrical parts may cause an electric shock or fire.

Do not store volatile or flammable substances in the refrigerator.

- The storage of benzene, thinner, alcohol, ether, LP gas and other such products may cause explosion.

Do not disassemble or repair the refrigerator by yourself.

- You run the risk of causing a fire, malfunctions and/or personal injury.

Do not change the interior halogen lamp by yourself but call to service center.

- Otherwise, there is a risk of electric shock.

When disposing of a refrigerator, remove the door/door seals/door latch so that children or small animals cannot become trapped inside.

The refrigerator must be earthed.

- You must earth the refrigerator to prevent any power leakage or electric shocks caused by current leakage from the refrigerator.

Never use gas pipes, telephone lines or other potential lightning rods as earth.

- Improper use of the earthed plug can result in electric shock.



WARNINGS

- Keep ventilation openings in the appliance enclosure or mounting structure clear of obstruction.
- Do not use mechanical devices or any 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 refrigerator/freezer, unless they are of a type recommended by the manufacturer.



WARNINGS

This product has 360° rotating casters.

So, if you take your hands off the product on a slant, it will skid on the slant and fall over. To prevent it, make sure to hold the product firmly.

- If the product topples over, it cause severe injuries or death.

This product is too heavy. So, there is the possibility of tipping forward when it is not installed properly. When moving the product, make sure not to tip it over.

- If the product topples over, it cause severe injuries or death.



CAUTIONS

Do not overfill the refrigerator with food.

- When you open the door, an item may fall out and cause personal injury or material damage.

Do not put bottles or glass containers in the freezer.

- When the contents freeze, the glass may break and cause personal injury.

If the wall socket is loose, do not insert the power plug.

- There is a risk of electric shock or fire.

Do not disconnect the power cord by pulling on it.

- Damage to the cord may cause a short-circuit, fire and/or electric shock.
- If the power cord is damaged, it must be replaced by the manufacturer, a certified service agent or qualified service person in order to avoid a hazard.

Do not store articles on the top of the appliance.

- When you open or close the door, the articles may fall and cause personal injury and/or material damage.

Do not store pharmaceutical products, scientific materials or temperature-sensitive products in the refrigerator.

- Products that require strict temperature controls must not be stored in the refrigerator.

Do not let children hang on the door. a serious injury may occur.

If you smell pharmaceutical or smoke, pull out the power plug immediately and contact your GOURMET service center.

Do not touch the inside walls of the freezer or products stored in the freezer with wet hands.

- This may cause frostbite.

Do not insert your hands into the bottom area

under the appliance.

- Any sharp edges may cause personal injury.

Never put fingers or other objects into the dispenser hole and ice chute. It may cause personal injury or material damage.

HFC-R134a is used as a refrigerant.



CAUTIONS

The refrigerant used in the refrigerator/freezer and the gases in the insulation material require special disposal procedures. Ensure that none of the pipes on the back of the appliance are damaged prior to disposal.

Do not use a wet or damp cloth when cleaning the plug. Remove any foreign matter or dust from the power plug pins.

- Otherwise there is a risk of fire.
- If the refrigerator is disconnected from the power supply, you should wait for at least five minutes before plugging it back.

When there is thunder or lightning or when the product is not used for a long time, flip up the grill panel and set the power switch to the O (OFF).

- Possibility of electric shock or fire.

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.

Do not store items in the ventilation space.

- It will cause a decrease in cooling capacity.

Do not place the fridge directly under the sunlight.

The power plug must be connected before the appliance is positioned.

If the power cord is damaged, it must be replaced by manufacturer, a certified service agent or qualified service personnel.

- Never start up an appliance showing any signs of damage. If in doubt, consult your dealer.

Please dispose of the packaging material for this product in an environmentally friendly manner.

Please contact your local authorities in regard to the environmentally safe disposal of this product.

This product is intended only for the storage of food in a domestic environment.

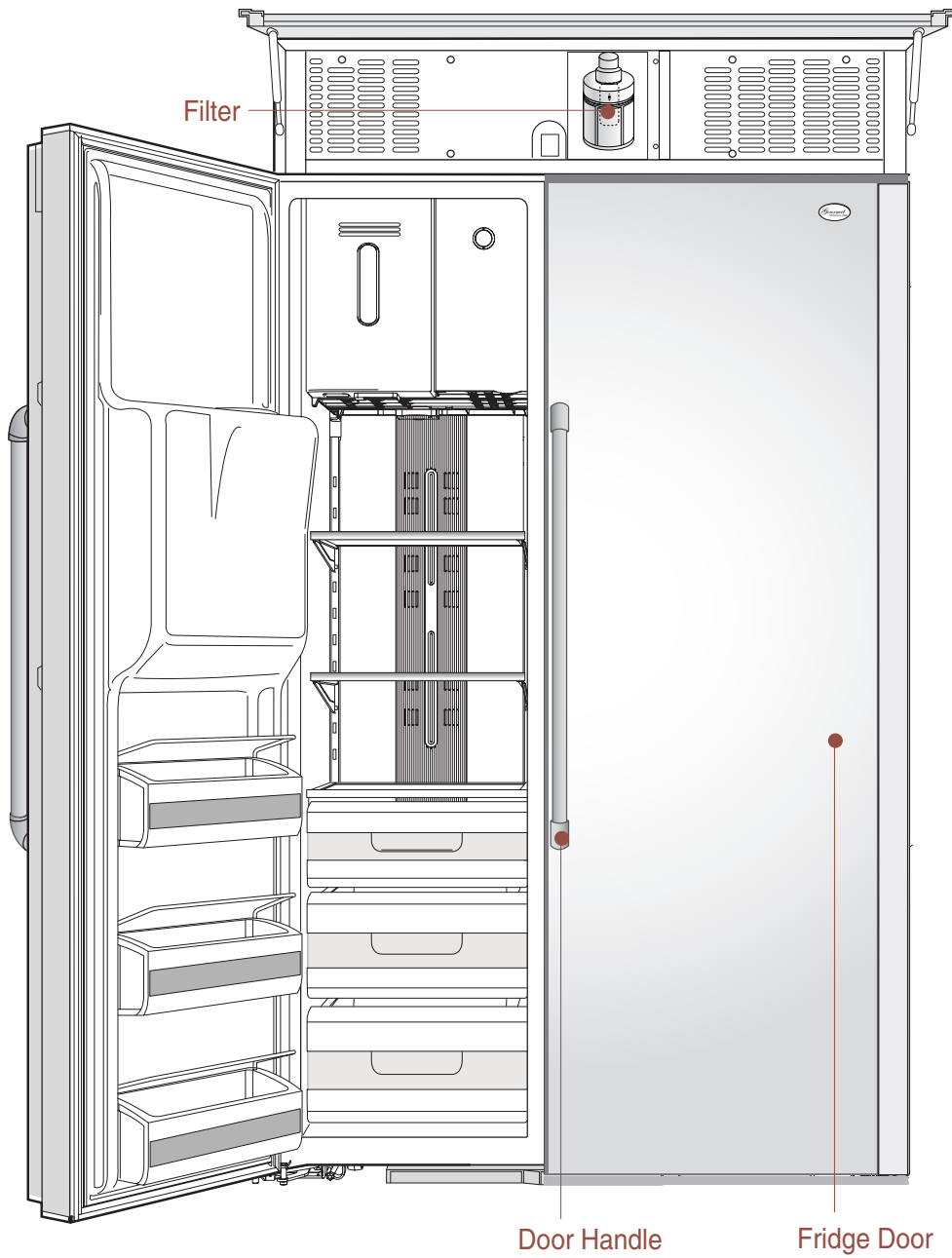
Remember each part name.

NAME OF EACH COMPONENT

PREPARATION



Remember each part name.



■ NAME OF EACH COMPONENT

PREPARATION

Make sure to check before installation.

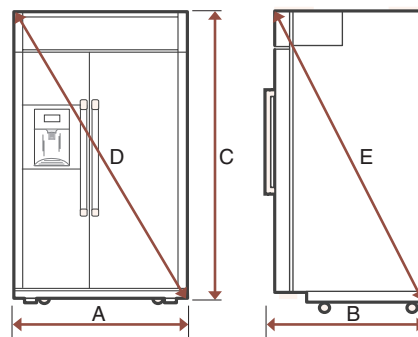
Select an installation place

Please check the followings before installing the product.

Check if the product can clear the doors on its way to the installation position.

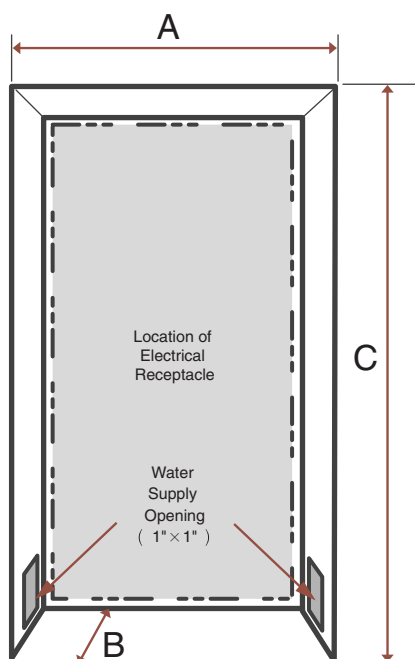
- ▶ If the product is not able to clear the doors, it is not possible to install.

Model	A	B	C	D	E
GSE4820SS	48"	27.8"	84"	96.8"	88.5"



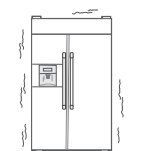
Please check if there is enough space to install the product.

- ▶ If there is not enough space, it is not possible to install.



Model	A	B	C
GSE4820SS	47.5"	over than 24"	83.5"(min) 84.3"(max)

■ Select an installation place

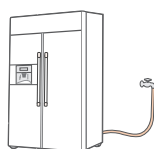


Check if the floor is flat.

- ▶ If the refrigerator is installed on an uneven floor, it will cause vibration and noise.

Check if the floor can support the weight of the refrigerator and the food inside (1102lb or 500kg total).

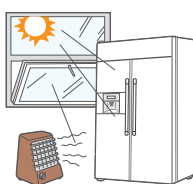
- ▶ It could damage the refrigerator.



Check if the product is placed within the reach of a wall outlet.

When the product is a dispenser model, check if it is within easy access of water supply and the humidity is low.

- ▶ Please select a place with easy access to water supply for the the water & ice dispenser.



Avoid a place with high heat or extremely cold.

- ▶ Install the product with an ambient temperature between 46°F (8°C) and 109°F (43°C).
- ▶ When it is installed in a place with an extremely cold or hot ambient temperature, the product could mal-function and its cooling capacity will decrease resulting in an increase in power consumption.

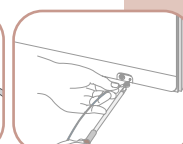
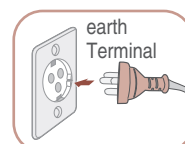
■ Earth the product

Make sure to earth the product to prevent electric leakage or an electric shock.

- ▶ When the product fails to operate : Make sure it is earthed to prevent electric leakage or an electric shock.
- ▶ When there is no earth with normal products: When touching the handle or surface of the product, a minute amount of electric leakage can be felt. (It can be felt on all products made of electricity conducting materials (metal plate). It is obliged to use a right angle power plug. Also, make sure to earth the product.)

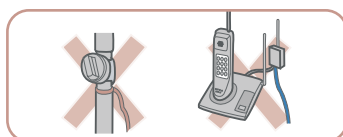
<When the wall outlet has a earth terminal>

- ▶ It doesn't need earthing. (But, when the wall outlet has no earth terminal, make sure to earth the product.)

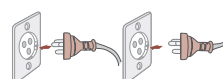


<When the wall outlet has no earth terminal>

- ▶ When plugging the product into a wall outlet having no earth, connect the earth wire to the earth screw on the back of the product and then connect the other end to a metallic water pipe or earth guide.
- ▶ Never use a wall outlet or an extension cord having no earth wire. (Without earth, minute electric leakage can be generated.)
- ▶ Please refer to the installation manual for installation details.



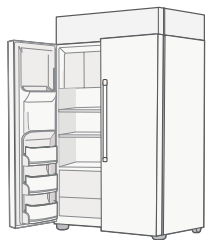
Do not earth it to a gas pipe or a telephone cord. Possibility of explosion, electric shock or fire.



- Make sure your house power supply has an earth circuit always use a 3 pin plug with an earth wire.

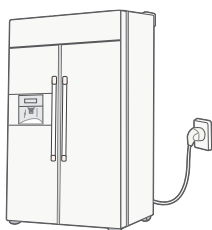
Check the following before use.

Before using the refrigerator, make sure to check the followings.
It will show ways to use the product safely and efficiently.



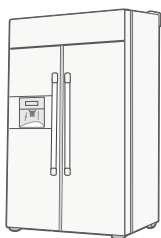
When plastic smells are coming from the refrigerator

- ▶ Open the refrigerator doors and air the inside.
 - With a new product, there could be plastic smells inside the refrigerator.
- ▶ Before using the product, please remove all the adhesive tapes eliminating chemical smells.



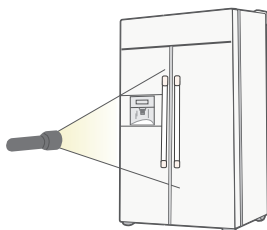
When storing food for the first time

- ▶ Place food in the refrigerator when it cools down in 2~3 hours after the product is plugged in.
 - When you place food in the refrigerator before it cools enough, food smells permeate the inner liners.



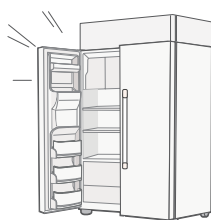
When the start-up sound is loud

- ▶ When starting up a new refrigerator, the compressor and the motor operate at high rpm to cool down the freezer and the fridge compartments quickly, generating a slight noise.
 - When it gets to set temperature and reaches a stable state, the noise decrease.



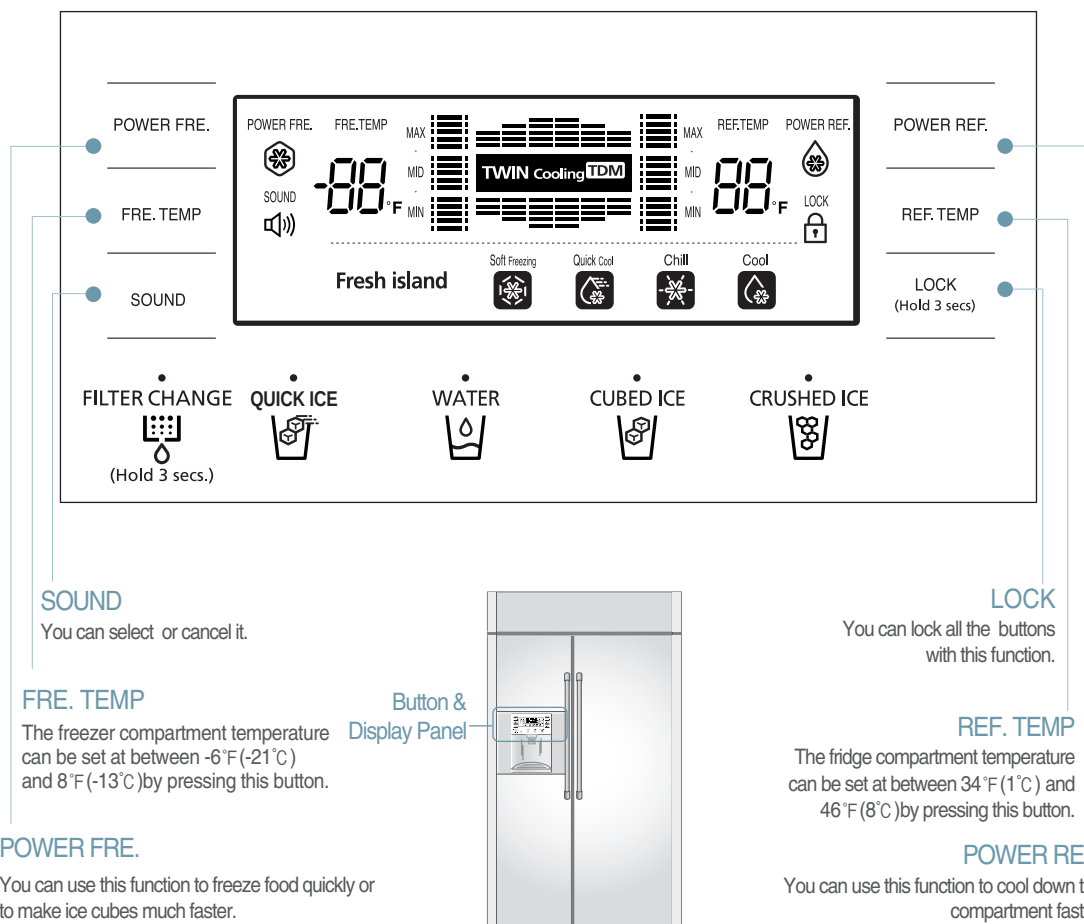
When the power goes off

- ▶ Please maintain the doors closed.
 - When the power does not come back on for 2~3 hours in summer, the cool temperature inside will be maintained.



When an alarm goes off during operation

- ▶ If any one of the doors remains open at a more than 15 degree angle for more than 2minutes, it sends off an alarming sound every minute indicating that a door is open.



■ Dispenser Function Select Button

- QUICK ICE**
▶ Select it when you need ice in a hurry.
- WATER**
▶ Select it for water.
- CUBED ICE**
▶ Select it for cubed ice.
- CRUSHED ICE**
▶ Select it for crushed ice.

■ Fresh Island Function Display

- Soft Freezing**
▶ It shows that Fresh Island is operating in soft freezing conditions.
- Quick Cool**
▶ It shows that Fresh Island is operating in quick cooling conditions.
- Chill**
▶ It shows that Fresh Island is operating in optimized refrigeration conditions.
- Cool**
▶ It shows that Fresh Island is operating in cool freezing conditions.

※ The above functions are available only with Fresh Island.

■ Water Filter Indicator Function Display

- Water Filter Indicator**
▶ When the green light changes to yellow, it is time to replace the water filter. If indicator is red, quick replacement is strongly recommended.
▶ When the water filter is replaced, reset the indicator by pressing the FILTER CHANGE button for 3 seconds.

Let's figure out the correct use of each storage space.

Each storage space provides its own storage conditions for different kinds of food. You can enjoy the optimum taste of food by storing it in a selected place.

Ice Bin

Store ice cubes made by the ice maker. Do not store other food except ice cubes.

Winter Closet

You can store frozen pizzas and ice cream etc.

Freezer Compartment Shelf

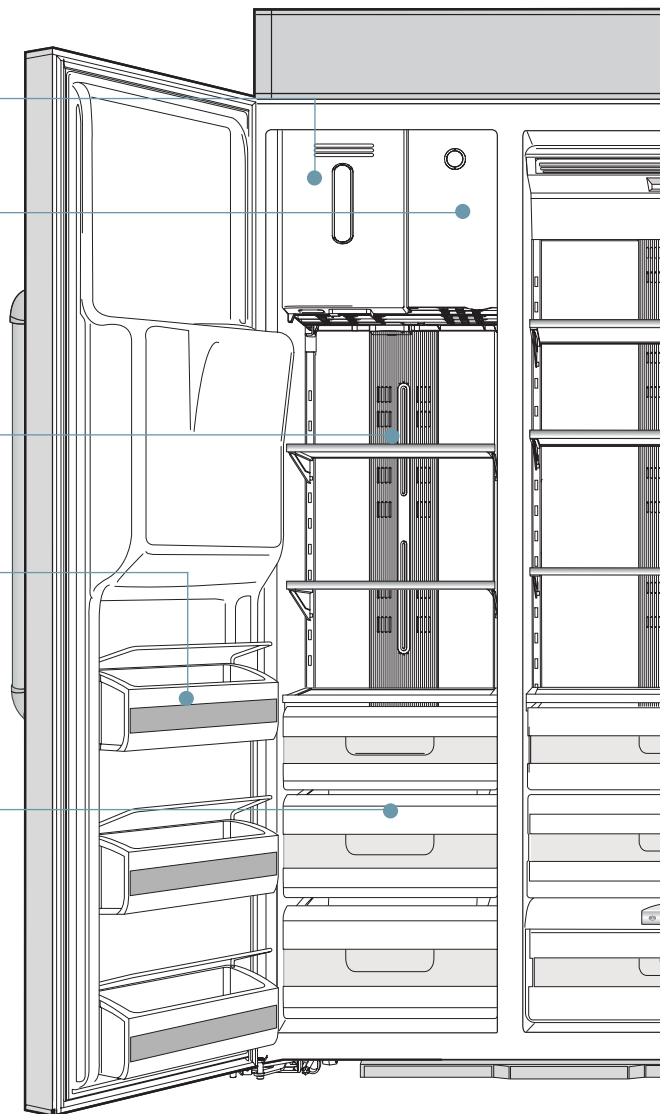
You can store various kinds of frozen food such as meat, fish, and ice creams.

Freezer Door Bin

You can store small packaged frozen food such as beans. But, do not store ice creams or food for long time storage

Dried Food & Meat Keeper.

For the purpose of storing for a long time and store meat and chicken after wrapping with aluminum foil or plastic wrap.



Tips on food storage



Store fruits after washing in water.



Divide storing food into small sizes and store them.

▶ Power can be saved because food can be cooled-down quickly.



Put food with higher water contents on the front part of the fridge shelf.

▶ When you put it on the inner part of the fridge shelf directly exposed to the cold air, it could become frozen.



Make sure to store food containers with lids or plastic wrap on them.



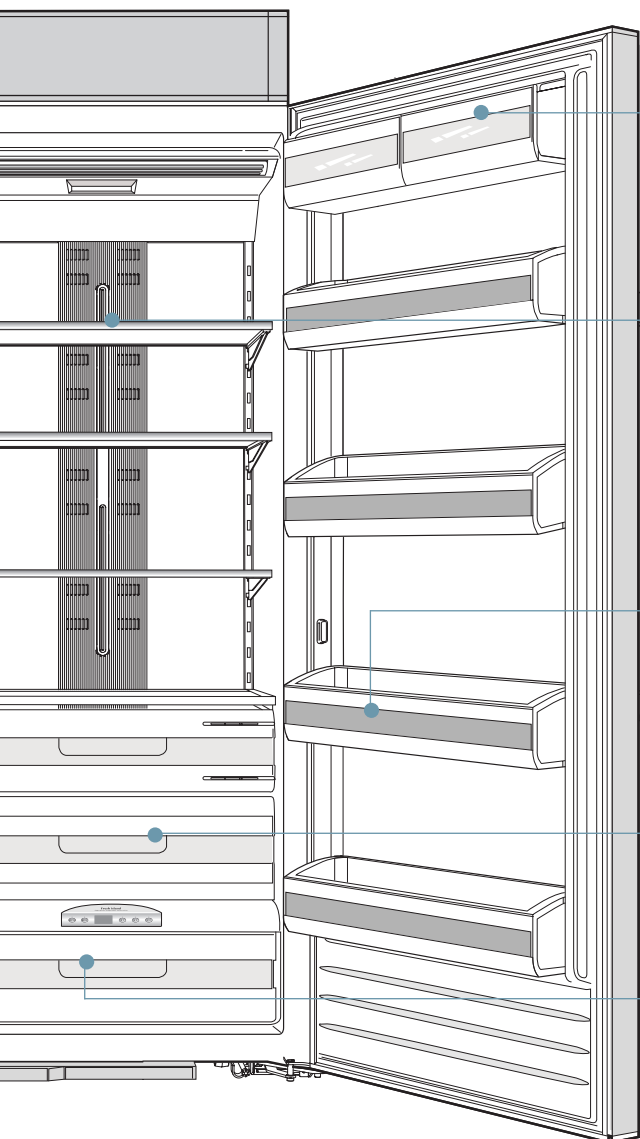
Do not store hot foods cooling it down.

▶ If you cool it down before putting it in the refrigerator, the product can perform efficiently and power can be saved.
▶ When hot food is put in the refrigerator, it could cause water condensation or frost inside.



Please store foods with enough space among items.

▶ When excessive amount of food is stored, it could interrupt air circulation resulting in a decrease cooling capability.



Dairy Bin

You can store dairy products such as butter and cheese.

Fridge Compartment Shelf

Please put dishes or refrigerated foods with enough space between items.

Fridge Door Bin

You can store small packaged refrigerated food and beverages such as milk, fruit juice and beer.

Veggie/Fruit Drawer

You can store vegetables and fruits in fresh conditions.

Fresh Island

You can store meat, raw fish and food which needs to be stored at lower temperature than that in the fridge compartment to be used within a week. (Refer to P.19~20)

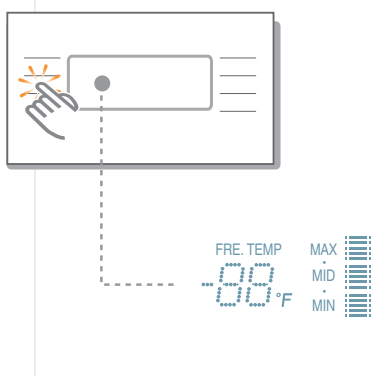
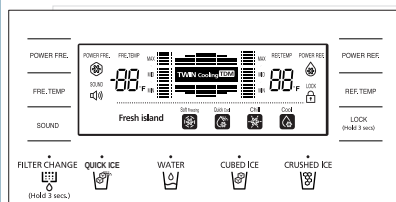


Caution

- Do not touch on containers or food in the freezer compartment with wet hands. Possibility of frostbite.
- Do not put food or containers in a place directly exposed to the cold air discharging port. It could be colder than the set temperature resulting in food damage.
- Do not keep medical products or lab materials in the refrigerator. This product is only for food storage.
- Do not put any glass bottles in the freezer compartment. When the content freeze, it can burst and causing severe injury.

To adjust temperature

Learn how to control the fridge & the freezer temperatures.
Power can be saved by keeping food in appropriate temperatures.



How to control freezer temperature

To control the freezer temperature, follow the procedures below.

Press the [FRI. TEMP] button.

- ▶ Freezer temperatures can be adjusted between -6°F and 8°F with an interval of 2°F. At this time, the temperature indication bars will be illuminating, showing the temperature range (MAX, MID or MIN).

When the freezer temperature is set, it will display the set temperature for the first 5 seconds. And then, it will display its current temperature.

- ▶ When the set temperature and the displayed temperature are different from each other, it will be automatically adjusted to the set temperature.
- ▶ The numbers on the display represent the inside temperature of the freezer compartment.



Note

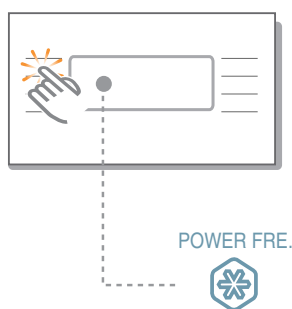
- The freezer temperature could change depends on the number of door opening times, the quantity of stored food and the ambient temperature.
- Each storage section in the freezer compartment may have a different temperature.
- When the temperature in the freezer compartment has increased due to frequent use or the storage of hot food, the temperature display will blink. (In this case, when the temperature reaches the set temperature, it will stop blinking. if when it keeps on blinking, please contact our service center.)

To speed up ice production

Press the [POWER FRE.] button.

- ▶ POWER FRE will illuminate in the display and it will start operating.

Press the [POWER FRE.] button one more time to cancel the POWER FRE function.



Note

- The POWER FRE function will be automatically turned off after a certain period of time and the freezer temperature will return to the temperature set right before the POWER FRE function is selected.
- When you press the [POWER FRE.] button, the refrigerator will continuously operate for a certain period of time.

How to control fridge temperature

To control the fridge temperature, follow the procedures below.

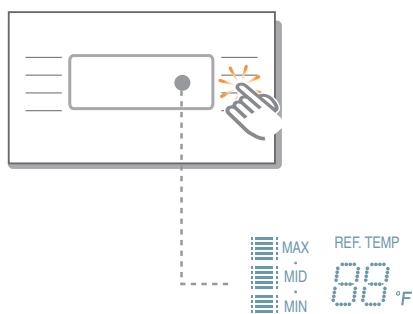
Press the [REF. TEMP] button.

- ▶ Fridge temperatures can be adjusted between 34°F and 46°F with an interval of 2°F.

At this time, the temperature indication bars will be illuminating, showing the temperature range (MAX, MID or MIN).

When the fridge temperature is set, it will display the set temperature for the first 5seconds. And then, it will display its current temperature.

- ▶ When the set temperature and the displayed temperature are different from each other, it will be automatically adjusted to the set temperature.
- ▶ The numbers on the display represent the inside temperature of the fridge compartment.



Note

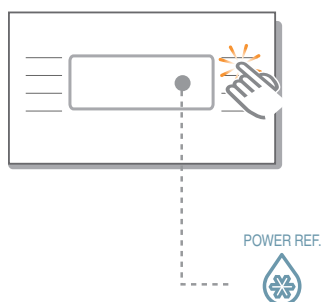
- The fridge temperature could change depends on the number of door opening times, the quantity of stored food and the ambient temperature.
- Each storage section in the fridge compartment may have a different temperature.
- When the temperature in the fridge compartment has increased due to frequent use or the storage of hot food, the temperature display will blink. (In this case, when the temperature reaches the set temperature, it will stop blinking. But, if it keeps on blinking, please contact our service center.)

To cool down the fridge compartment faster

Press the [POWER REF.] button.

- ▶ POWER REF will illuminate in the display and it will start operating.

Press the [POWER REF.] button one more time to cancel the POWER REF function.

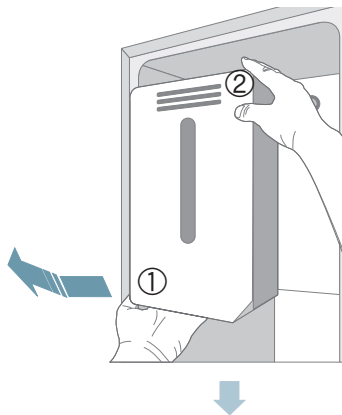
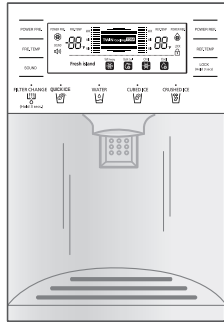


Note

- The POWER REF function will be automatically turned off after a certain period of time and the fresh food temperature will return to the temperature set right before the POWER REF function is selected.
- When you press the [POWER REF.] button, the refrigerator will continuously operate for a certain period of time.

Let's figure out how to use the dispenser.

Enjoy high quality ice cubes and drinking water with the dispenser of the GOURMET refrigerator.



HOW TO USE DISPENSER

Brandsource refrigerators have embeded water filters.' So, please use a supplied water filter when using it. Ice cubes and water first made or supplied after the installation could send out plastic smells.

- ▶ Throw away the first full bucket of ice.
- ▶ Throw away the first six glassfuls of water.

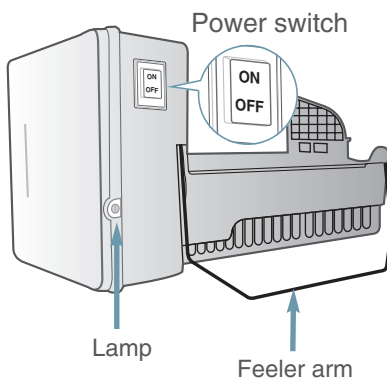
Check if the ice maker works with following methods.

- 1 Take out the ice bin in the upper part of the freezer compartment.
 - ▶ Put your hand on the bottom of the ice bin and lift it up. And then, hold the upper part of it and pull it forward.
- 2 To test a ice maker, lift up the feeler arm three successive times when the power switch is on (LED lamp is red)
 - ▶ After ice maker heater is energized, harvesting motor will work. It's normal if water is supplied.



Note

If you need more storage space, remove ice bucket and you can use that space as a storage space.



Keep in mind the followings when using the ice maker!

- ▶ It takes 12 hours to get down to temperatures cold enough to make ice cubes when the refrigerator is initially plugged in.
- ▶ In order to operate the ice maker properly, water pressure of 0.14Mpa ~1.0Mpa (1.4~10kgf/cm² , 1.4 ~10bar), is required. And it have to be connected to portable water supply only.
- ▶ If common water pressure is higher than required pressure you had better use a decompression device to prevent from breakage
- ▶ The ice production speed depends on the number of door openings during its operation and using conditions such as the ambient temperature.
- ▶ When ice dispenser is not used frequently, ice cubes will melt and get joined together affecting the operation of the dispenser. At this time, take out the ice maker and throw away the ice lump.



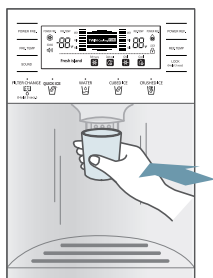
Caution

When you do not use water and ice for a long time such as during winter or vacation season, shut off the water valve to cut the water supply.
- If the water pipe or the water purifier ruptures or water leaks out of it, it could get flooded.



Caution

When ice melts due to a power failure, wipe-dry the freezer compartment after taking out the ice maker and throwing away the ice lump
- Melted ice could escape the refrigerator making the floor slippery and damaging the floor.



■ To get ice

- 1 Press the CUBED ICE/CRUSHED ICE button and select the shape of ice.
- 2 Press the glass gently against the middle of the dispenser pad.
▶ Take the glass closer to the chute to prevent ice from bouncing out of the cup.



Caution

- If you get ice with a thin glass cup or ceramic ware, it could get broken.
- When you get ice stale in color, stop using it and contact our service center.
- Do not put your hands into the ice crusher discharge opening. You can get hurt.

■ To get water

Press the WATER button and press the glass against the dispenser pad.

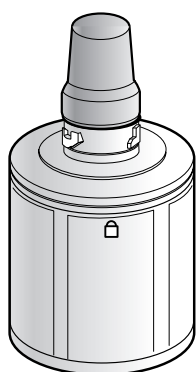
- ▶ Throw away the first six glassful of water after the installation.
When you take out water after the installation, it could have plastic smell.
- ▶ Even though the refrigerator is in operation, the first glass of water could be warm. So, get several cubes of ice first and then take out water to drink cool water.



Note

You can take out up to six glasses of water continuously and water will be cooled down in 2~3 hours.

Have a knowledge of water-purifying filter.



What is Water-Purifying Filter?

It is a parts filtering impurities that are bad for human being such as chlorine and its smell and offensive taste contained in tap water.

Filtrate and Purifying Effect

Filtrate of water-purifying filter is made from vegetable active carbon.

Purifying Effect

- ▶ It is NSF (National Science Foundation) certified, and meets a standard requirement for food safety of NSF 42,53. It also passed the following standard test.

Certification Standard	Remove Capacity
NSF 42	Smell, Chloride
NSF 53	Pathogene, insecticide, asbestos, slime, benzol, organic compound, mercury

When to Replace

- ▶ When the green lamp on  icon in the display part of refrigerator turns orange, it is recommended to replace a filter. If the color of lamp turns red from orange, replace the filter immediately.
- ▶ Purchase a water-purifying filter from a near service center for replacement.

How To Replace Water-Purifying Filter

1 Separate a water-purifying filter

- ▶ Open the unit grill in the upper part of refrigerator, rotate the filter by 90° to the left (unlock), and pull it down.



Note

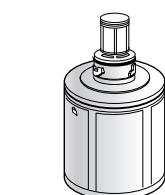
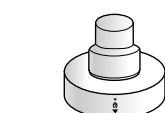
Place a bucket little bit bigger than the filter to catch the dropping water when separating the filter.

2 Put an installing date sticker on a new filter.

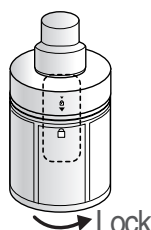
- ▶ Unpack the filter box, and peel off the red protective cap.
- ▶ Put an installing date sticker on the new filter.
Example) If installing it in October, put on 'OCT 10' sticker.

3 Fit a new filter in.

- ▶ Fit the filter in a fixing part, rotate it by 90° to the right(lock), and match an indicating line () with Lock () sign.
- ▶ Close an unit grill, and press ice-maker test button to check if water flows out.
- ▶ It is recommended to run off water for about 2 minutes (or 2 liter) when you install or replace a filter for the first time.
- ▶ After replacing a filter, press  button for 3 seconds until the color of lamp turns green from red.



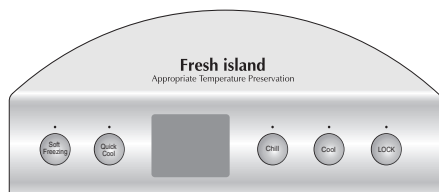
Unlock



Lock

Let's figure out the Fresh Island function.

You can speed up cooling or make frozen food soft enough to cut easily with this function. Also, by adjusting the temperature of each compartment, you can store customize the storage of different kinds of food.

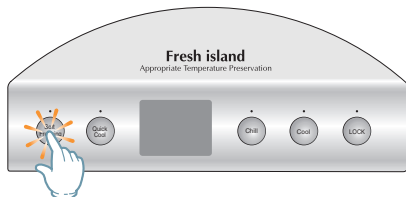


■ Function selection

1

When Soft Freezing is selected

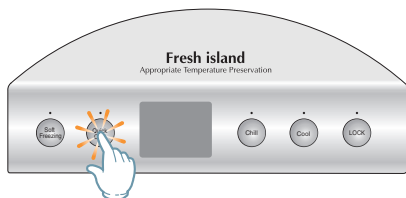
- ▶ When Soft Freezing is selected, the temperature of the Fresh Island will be set to 23°F and the temperature will be maintained at 23°F regardless of fridge temperature setting.
- ▶ The temperature (23°F) of Soft Freezing falls into the Soft Freezing temperature range. Water in meat or fish will not freeze hard it will freeze soft enough that it can be cut easily.



2

When Quick Cool is selected

- ▶ With this Quick Cool function, you can cool down up to three bottles of room temperature beer enough to drink within an hour.
- ▶ You can put food in the Fresh Island and press the Quick Cool button, the refrigerator will operate for an hour continuously.
- ▶ If you use Quick Cool, take out the food from the Fresh Island and put it in the fridge compartment during its operation. The food could become frozen with the strong flow air.
- ▶ To cancel the Quick Cool function, press the Quick Cool button once more. When the Quick Cool function is completed, it goes back to the previous refrigeration setting.



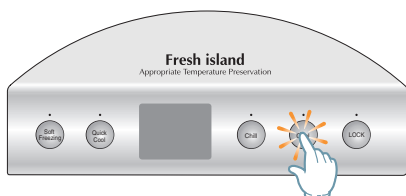
■ Function selection

3 When Chill is selected



- ▶ When Chill is selected, the temperature of the Fresh Island will be set to 31°F and the temperature of the fridge compartment will be maintained at 31°F regardless of its temperature setting.
- ▶ 31°F is a temperature at which water in food is on the verge of freezing. With this temperature, you can freshly keep meat or fish that you are about to cook.

4 When Cool is selected



- ▶ When Cool is selected, the Fresh Island panel will display 38°F set at the Fresh Island temperature control and the Fresh Island will be controlled based on 38°F.
- ▶ When Cool is selected, it will be set to 38°F.
So, you can have more refrigeration space by using it as the fridge compartment.

5 When LOCK is selected



- ▶ The system will be locked with its current setting and all the function buttons can not be changed
- ▶ To cancel the LOCK function, press the LOCK button once more.



Note

- Do not put food, vegetables or fruits with high water content in the Fresh Island.
 - It can freeze them.
 - Water contained in food begins to freeze at 31°F or 23°F.
So, beverages such as fruit punch and juice, vegetables and fruits could become frozen.
- Different types of beverages and foods may have different cooling times.

Here is some information to keep food in a fresh condition.

■ How to use the refrigerator effectively

To make cold air to flow freely

To maintain the fridge compartment temperature to 39°F, it sends out cold air near 32°F. So, when food containing water is placed deep inside, it could become frozen. If you place a wide, tall container it will block the cold air flow resulting an increase of the room temperature. To get sufficient cold air, make sure not to block its passages and let it flow freely.

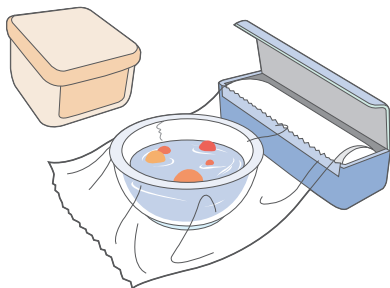
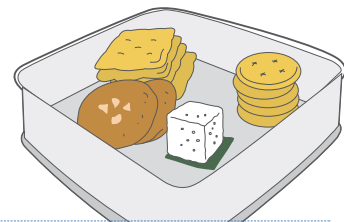
How to arrange food

The veggie drawer is deep, vegetables pressed at the bottom could get bruised. It is better to keep vegetables such as spinach and spring onions in standing position. After cutting off the upper part of milk cartons matched to the height of the veggie drawer with a cutter or a pair of scissors, bond several of milk cartons together with plastic tape. By arranging vegetables with it, bruises can be prevented and it is much easier to handle them.

■ How to store food

To maintain crispy conditions of biscuits

You can put them in an air tight container. But, you can easily maintain its crispy conditions by putting them in a regular container with a cube of sugar. Sugar absorbs moistures making biscuits to maintain their crispy conditions for an extended period of time.



To prevent food smells from permeating the inner liners

To prevent food smells from permeating the inner liners, make sure to wrap food in plastic wrap and put it in the refrigerator.



To maintain the taste of mayonnaise

It is best to keep the mayonnaise at room temperature. (Except sweltering season) Mayonnaise is quite sensitive to not only hot temperatures but also cold temperatures. So, it easily deteriorates in hot temperatures but also its main ingredients such as vinegar, oil and egg yolk will be separated from each other and it will lose its flavors when it is too cold. So, it is best to keep it in a cool place out of reach of direct sunlight or heat.



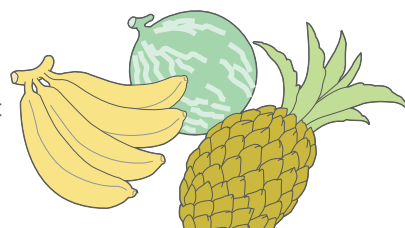
To frost the surface of beer cup

After pouring warm water into the cup, empty the cup when it gets warmed up. And, turn it upside down and put it in the freezer compartment for about 30 minutes. When you take it out later, you will find frosts sitting on the surface of the cup.

To keep tropical fruits

It is not a good idea keeping tropical fruits in the refrigerator. Tropical fruits do not require low temp.

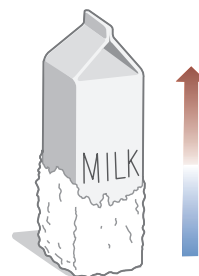
For example, bananas and pineapples will turn black, avocados and papayas will rot before they become ripe. Store them at room temperature and put them in the refrigerator when they are ripe enough to eat.



To enrich milk

Put it in the freezer compartment and freeze it. The appropriate quantity of freezing is 0.13 ~ 0.26 gallon.

When it is frozen hard, take it out and thaw it to half-frozen state. Because the half-frozen milk still contains ice with it, its percentage of water in milk is relatively low. So, its concentration level is high and you can enjoy more enriched milk.



To make transparent and clean ice

When you make transparent and clean ice with the ice maker, boil water first and then freeze it after cooling it down.

If you boil away impurities in water, you can make transparent and clean ice.

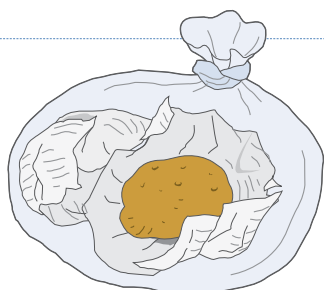
Store wines on their side

It's recommended to store wine bottles on their side.

■ How to store food

To store spices in the freezer or fridge compartment

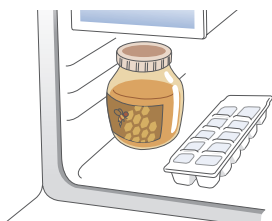
When storing spices, you need to prevent their flavors from escaping. Store it in a dry place out of reach of direct sunlight. The freezer or fridge compartment is the best suitable place to store spices.



To store potatoes freshly

Because potato buds contain toxins, you need to get rid of the buds. To store potatoes that went sprout up, wrap them with the paper, put it in a plastic bag and store it in the fruit drawer. You can enjoy fresh potatoes for an extended period of time.

■ How to freeze food properly



To store honey not to be frozen

Store it in the freezer compartment. Higher quality honey becomes white and harder when being stored in the fridge compartment. It is because its glucoses become crystallized. Its quality will not be affected but it gets hard to dissolve it in water and to handle it. When you put it in the freezer compartment, you can keep it in its original liquid state.

To freeze food properly

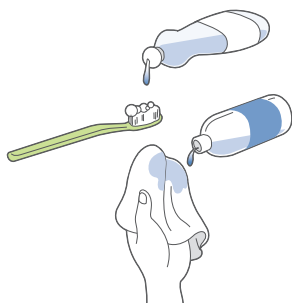
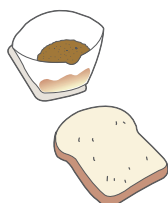
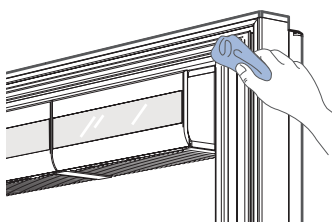
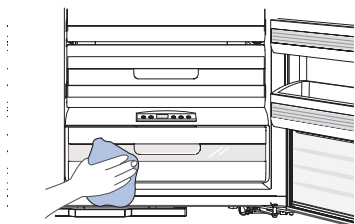
There are none-appropriate foods to freeze such as vegetables, eggs, tofu and devil's tong jelly.

You can freeze meat without salting but it's best to salt and freeze it.

To speed up freezing

When freezing food slowly, the property of food will be damaged resulting in loss of taste. To speed up the freezing process, select the POWER FRE. function.

How to clean and take care of the product.



HOW TO CLEAN AND TAKE CARE OF THE PRODUCT

Inside refrigerator/Accessories

- ▶ Wipe with a clean cloth lightly dampened with water or mild liquid dish detergent.

Door gasket

- ▶ Wipe with a clean cloth lightly dampened with mild liquid dish detergent and clean the grooves with cotton balls.

Dispenser

- ▶ After wiping with a wet cloth, wipe dry with a dry cloth.
- ▶ If the spill shelf is stained with slime, wipe with a clean cloth lightly dampened with vinegar.

How to get rid of odors

- ▶ Warm water, soft cloth and 2 table spoons of BI - CARB soda whip down all the interior of fridge.

How to remove mold on door gaskets

- ▶ Brush with a tooth brush dampened with pure dish detergent.
It is difficult to scrub off the mold once it becomes black.
Care must be taken not to damage the gaskets.



Note

When you do not use your refrigerator or when you clean it, open the grille panel, set the power switch to the O (OFF) and dry the compartments with their doors open. Then, wipe with a dry cloth or towel.



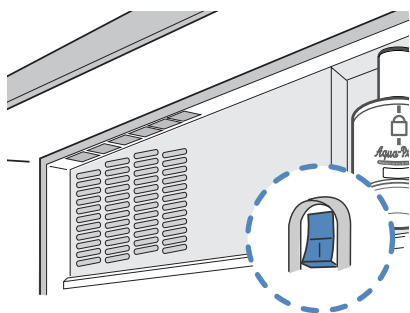
Caution

- Do not directly spray water or wipe with benzene, thinner, bleach, alcohol or acetone. Possibility of explosion, electric shock or fire.
- Do not use brushes or scouring pads to wipe the inside & outside of the refrigerator.
- Make sure to set the power switch to the O (OFF) before cleaning the refrigerator and set it to the I (ON) after the cleaning to prevent the Possibility of electric shock or fire.

■ Disassembling for cleaning

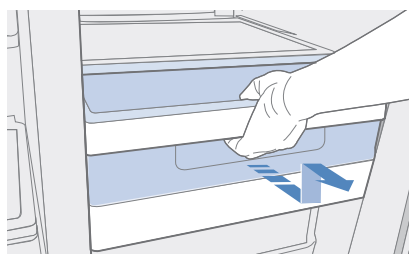


Before cleaning the refrigerator, flip the grille panel up as shown in the figure and set the power switch to the O (OFF). To prevent electric shock then, disassemble when turned off. Water tends to gather inside and flow down on the bottom. So, wipe dry the components inside with a dry cloth and re-assemble.



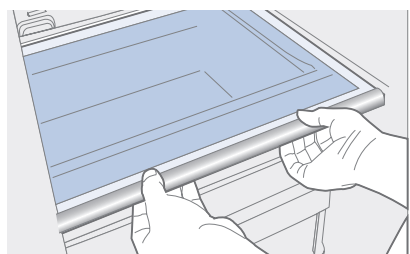
Veggie/Fruit Box

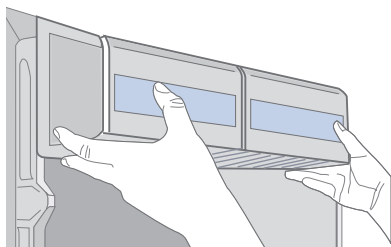
- Hold it with one hand, pull it forward while lifting it up slightly to remove.



Veggie Box Lid

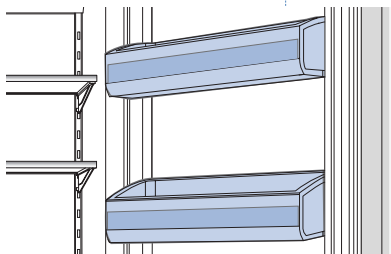
- Tilt the lid up at front, pull it forward and out of the refrigerator. Take out the mid glass after removing the veggie box.





Dairy Bin

- ▶ Flip up the dairy bin cover and remove it while pushing it back.
- ▶ Hold the dairy bin with both hands and lift it up and out of the door.



Freezer/Fridge Door Bin

- ▶ Hold it with both hands and lift it up and out of the door.



Freezer/Fridge Shelves

- ▶ Tilt shelf up at front, then lift it up and out of the tracks on rear wall of refrigerator.



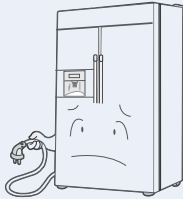
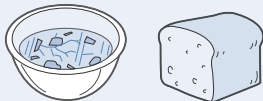
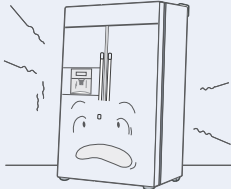
Note

- When you do not use your refrigerator or when you clean it, open the grille panel, set the power switch to the O (OFF) and dry the compartments with their doors open.
- Please contact our service center when replacing lamps to prevent possibility of electric shock.

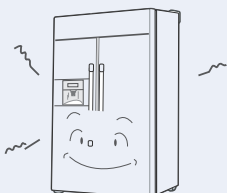
Make sure to check
before calling for service.

■ CHECKPOINTS BEFORE SERVICE CALLS

OTHERS

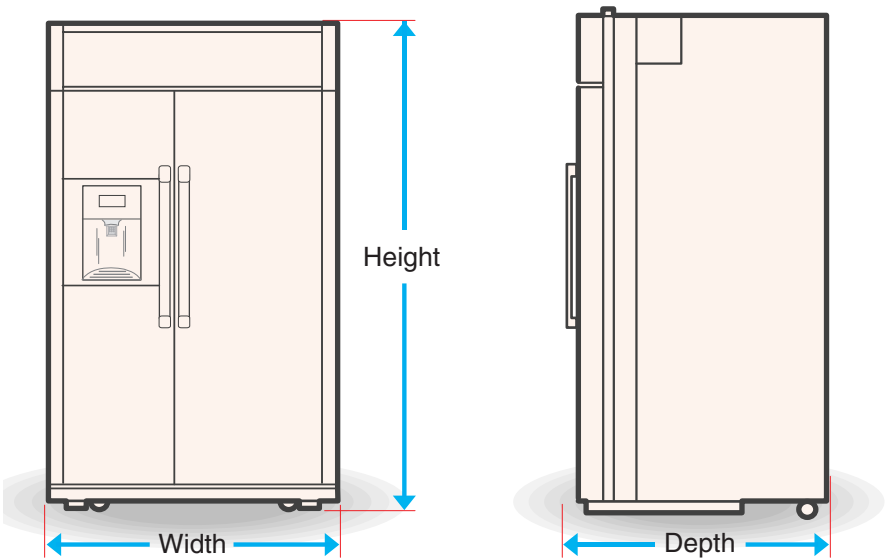
Problem	Possible Causes	What To Do
Fridge or freezer compartment too warm. (Low cooling power) 	Master power control set to O (OFF).	Switch on the power ("I" pressed).
	Refrigerator is unplugged.	Plug in the power plug again.
	Temperature controls set at the warmest setting.	Press the FRE. TEMP/REF. TEMP button and set it colder.
	Refrigerator installed in a place exposed to direct sunlight and in the vicinity of heater.	Keep the refrigerator away from direct sunlight and heating appliances.
Frozen food in fridge compartment. 	Fridge control setting is too cold.	Press the temperature control button and set to a warmer setting.
	Refrigerator installed in a too cold place.	When the ambient temperature is lower than 41°F, food can become frozen.
	Food containing lots of water is placed closer to the cold air discharging port.	Put food containing lots of water on the front part of the self.
Vibration or rattling sounds. 	The floor is slanted or it is not firm enough.	Move the refrigerator and put it on a hard leveled floor.
	There is something blocking the ventilation in the machine compartment on the top.	If there is anything blocking the ventilation, remove it.
Refrigerator has odor.	Dishes are stored without being wrapped in plastic.	Make sure to put lids on containers dishes wrapped.
	Meat, fish and chicken are put in the refrigerator without plastic packing.	Put them in clean plastic bags and tie up their tops before storing them.
	Foods are stored for too long.	Foods stored for a long time could have odors.

Problem	Possible Causes	What To Do
Ice cubes have odor.	Ice cubes are made with tap water.	Water could contain chlorine sending out odors. Make ice with filtered water.
	Interior of refrigerator needs cleaning.	Clean the interior of the refrigerator frequently to remove food smells.
	Ice storage bin needs cleaning.	Wipe the surface of the ice bin frequently.
	Food dropped on the shelf.	Wipe it away completely.
Water dispenser does not work.	Water supply line is turned off.	Turn on water supply.
	Water supply line is not connected properly.	Review the installation manual or contact our service center.
Water is warm.	The fridge compartment is too warm.	Press the REF. TEMP button and set to a colder setting.
	Six glassfuls of water have been used continuously.	When more than six glasses of water are dispensed it takes long time for it to cool down.
Cube dispenser does not work. 	No ice cubes or not enough ice cubes.	Wait 12 hours for ice cubes to be made requires 24 hours to have enough ice cubes in the ice bin.
	Ice cubes get stuck together.	When ice is not used for a long time or when there is a power failure, ice cubes could get stuck together. In this case, throw away the ice lump and empty the ice bin to get freshly made ice cubes.

Problem	Possible Causes	What To Do
Door hard to open!	It has just closed after being opened.	If you open the door again within 5~10 seconds, it could be hard to open due to the pressure difference between the inside and the outside of the refrigerator. Try again after a while.
It makes a water flowing noise. (Ex: Gurgling, Sizzling, Popping)	The flow of refrigerant through the cooling coils may make a water flowing noise (ex: gurgling, sizzling, popping) or a water dropping noise may occur during the defrost cycle as ice melts and flows. It is not a defect. This is a normal function.	
 A clicking sound may occur in the refrigerator! (Ex: Clicking, Rattling, Chirping, Cracking)	When the refrigerator cools to the correct temperature, when cooling coils expand or contract, or when relays activate to control refrigerator components, you can hear these sounds. It is not defect. This is a normal function.	
Frost builds up in the freezer compartment! (Moisture collects inside the fridge compartment)	The ambient temperature and humidity are high, the door is left open for a long time or food with lots of water is stored without a lid.	In this case, frost or moisture could build up. Wipe dry it.
Moisture builds up on the outside surface of the refrigerator and on the interior lamp cover!	The freezer door has remained open for a long time.	When the fridge door remains open for a long time, the fridge lamp cover will be warmed up by the halogen lamp (35W) resulting in water condensation. Wipe dry it.
	The ambient humidity is too high.	When it is humid outside, water in the air could get condensed on the relatively cold fridge surfaces.

Model Name		GSE4820SS
		48"
GROSS vo/ume	Total	28.7 cu*ft
	Freezer Room	11.1cu*ft
	Fridge Room	17.6cu*ft
Weight		573lb
	Width	48in
Dimension	Height	84in
	Depth	27.8in
Rated Voltage/Frequency		115V/60Hz

▶ Design & specifications can be changed to improve quality without any notice in advance.



Ambient Room Temperature Limits

This fridge/freezer is designed to operate in ambient temperatures specified by its temperature class marked on the rating plate.

Temperature Class	Symbol	Ambient Temperature	
		Maximum	Minimum
Extended Temperate	SN	32°C (90°F)	10°C (50°F)
Temperate	N	32°C (90°F)	16°C (61°F)
Subtropical	ST	38°C (100°F)	18°C (64°F)
Tropical	T	43°C (109°F)	18°C (64°F)

NOTE: Internal temperatures may be affected by such factors as the location of the fridge/freezer, ambient temperature and the frequency with which you open the door. Adjust the temperature as required to compensate for these factors.