HITACHI

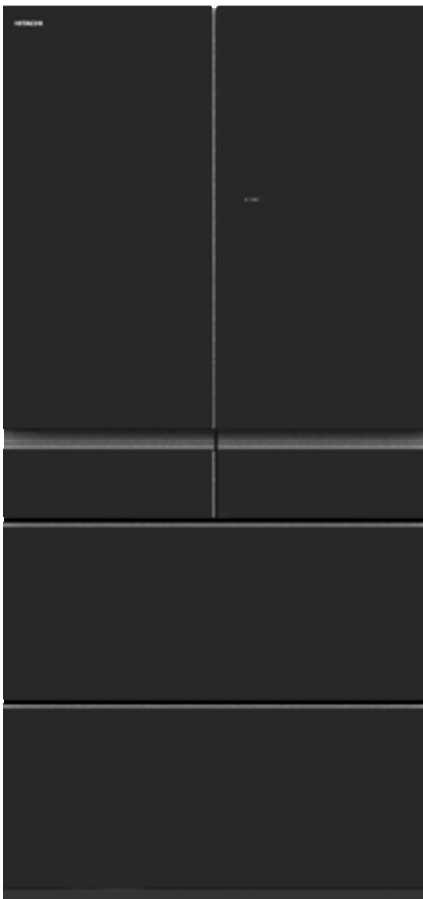# INSTRUCTION MANUAL

REFRIGERATOR-FREEZER

For household use

Model **R-GWC670TS**

Thank you for purchasing a Hitachi refrigerator. This refrigerator is designed for home use only. Do not use this refrigerator for commercial use or for any purpose other than storing food. Please keep this manual, together with your warranty, in a safe place. If you hand this refrigerator over to another party, pass on this manual as well.

Made in Japan

6 doors

Please read "Safety Suggestions" in this manual to ensure correct usage and safety before use.

➡ **Pg.4–7**

Tips for using the refrigerator wisely for energy savings

1. Reduce the rate of opening and closing of doors.
Frequent opening and closing leads to waste of energy.

2. Do not overfill the refrigerator.
Overfilling the refrigerator prevents smooth circulation of cool air, even cooling throughout and consumes unnecessary power. Place food that you can see the back wall of the refrigerator.

3. Do not place hot food in the refrigerator.
Placing hot food in the refrigerator raises the temperature, which, in turn, raises the temperature of surrounding food.

4. Provide sufficient spacing around the refrigerator.
Installing the refrigerator with insufficient clearance between the refrigerator and surrounding objects prevents the release of heat and thus leads to waste of energy.

5. Replace door gaskets if damaged.
Cool air can leak through damaged gaskets, which leads to waste of energy. If a business card inserted between the gasket and the refrigerator slides down, the gasket needs replacing.

FREQUENTLY-ASKED QUESTIONS (FAQs)

If you cannot make ice
➔Pg.41

If the refrigerator is not cold
➔Pg.40

If frost or condensation is formed
➔Pg.42, 44

CONTENTS

SAFETY SUGGESTIONS

Please ensure to follow these precautions

When using this appliance, failure to follow safety precautions may result in personal harm, harm to other people, and also damage to property.

■ The following notes are categorized and explained by the following symbols according to the hazard level in terms of harm and material damage that may occur from ignoring suggestions and not using correctly.

■ Suggestions are indicated and categorized by the following symbols accompanied by explanations. (The symbols below are examples)

⚠ WARNING	Suggestions headed by this pictograph indicate "There is high chance of serious injury or death" if ignored.
⚠ CAUTION	Suggestions headed by this pictograph indicate "There is a high chance of injury or damage to property" if ignored.

⚠	This symbol indicates "Warning and calling attention".
🚫	This symbol indicates something you must not do. (Prohibited)
❗	This symbol indicates something you must do. (Compulsory)

■ This refrigerator uses flammable refrigerants. The symbol column below states the precautions on flammable refrigerants.

🔥 **R600a**   This symbol denotes the precautions on flammable refrigerants.

⚠ WARNING

Installation

❗ ● **Take measures to prevent overturning of refrigerator due to earthquake, etc.**
  ・ Overturning of the refrigerator could result in personal injury.

trembling and unstable

🚫 Wetting Prohibited

● **Do not install the refrigerator in damp places or where water may adhere to.**
  ・ This may impair electricity insulation causing electric shock or fire.
● **Do not locate multiple portable socket-outlets or portable power supplies at the rear of the appliance.**

Handling the power and power cable

🚫 Prohibited

● **Avoid usage that may cause the wall outlet or power cord components to work beyond their specified electric current.**
Also do not use power sources that are not a rated AC voltage.
If a power source is shared with other appliances, double or multipoint adapters may heat up beyond normal levels and cause fire.
  ・ Use a wall outlet rated above 10 ampere by itself.
● **Do not use the multi-socket adapters and the extension cords.**
● **Do not use the refrigerator when the power plug/cord are damaged and/or the power plug is not inserted into the outlet securely.**

● **When positioning the appliance, ensure the supply cord is not trapped or damaged.**
The power cord or plug should not be cut, modified, touched with hot implements, bent by force, twisted, pulled, have heavy objects placed on it, pressed by the refrigerator, or be bound or tied up.

Using a damaged power cord may cause electric shock, short circuits, or fire.
  ・ 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.

❗ ● **Connect the power plug firmly to a power outlet with the cord downwards.**
  ・ Connection of the power plug with the cord running upwards could apply stress on the cord and cause electrical short circuit or overheat, resulting in electrical shock or fire.
  ・ Incomplete connection of the power plug could result in electrical shock or fire due to heat.

● **Clean the dust on the power plug frequently.**
Insulation failure from moisture from the dust collected on the power plug may cause fire.
  ・ Unplug the power plug and wipe it with a dry cloth.
● **Disconnect the power plug when the refrigerator will be unused for long periods of time.**
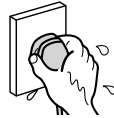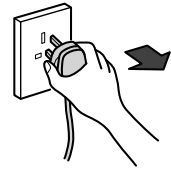
⚠ WARNING

Handling the power and power cable

● **Do not insert or remove the power plug with wet hands.**
 • This may result in electric shock.

Wet Hands Prohibited

● **Be sure to unplug the power plug before doing maintenance to the refrigerator.**

Continued use may cause electric shock or injury. → Pg. 35
 • Always hold the plug when unplugging it.

During use

● **Do not splash human waste on the main body of the refrigerator and/or inside the refrigerator.**
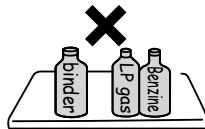
Wetting Prohibited

● **Do not put water containers on top of the refrigerator.**
 • Spilled water may impair insulation of electrical components causing faulty electrical currents. This may result in electric shock or fire.

● **Do not put in items that may catch fire**
 • Benzine, ether, LP gas, thinner, adhesives may ignite an explosion.

Prohibited

● **Do not store dry ices in the refrigerator.**
 • It might explode if sealed.

● **Do not use flammable sprays near the refrigerator.**
 • Sparks from points of electrical contact such as door switches may ignite a fire.

● **Do not hang on the doors or step on the various compartments.**
 • Injury may be caused by the refrigerator tipping over or hands getting caught between doors.

● **Do not put too much force on the door by opening it too much or leaning on the opened door.**

● **Drugs, chemicals, research and experimental substances should not be stored in the refrigerator.**
 • Substances that require precise conditions for storage cannot be stored in a domestic refrigerator.

● **Do not put things on top of the refrigerator.**
 • Opening and closing doors etc. may cause things placed on top of the refrigerator to fall resulting in injury.

● **Do not remove the cover of the interior lamp.**
 • When the interior lamp is damaged, please contact the service centre to replace it so as to avoid injury.

● **Do not add impact to the glass door.**

● **Do not touch the machinery components of the automatic ice maker.**
 • There is a danger of injury when the ice trays are rotating.

Contact Prohibited

● **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.**

● **Deactivate the function of the Auto Drawer when children etc. may play with the Auto Drawer.** → Pg. 21

About the Wireless LAN function (Remote control with the Wireless LAN function)

● **Do not use this function near the automatic control devices such as the automatic doors.**
The interference from the radio wave of the Wireless LAN may interfere with those automatic control devices. It may cause malfunctions.

Prohibited

● **Do not use the Wireless LAN function in the room where the medical equipment is installed.**
The interference from the radio wave of the Wireless LAN may interfere with the medical equipment.

● **Keep a person using the cardiac pacemaker away from the refrigerator.**
The interference from the radio wave of the Wireless LAN may interfere with the operation of the cardiac pacemaker. When a person using the cardiac pacemaker uses the refrigerator, please consult a doctor.

SAFETY SUGGESTIONS (Continued)

⚠ WARNING 🔥 R600a

About the refrigerant (Be careful of the following related to the use of flammable gas.)

Prohibited

- **Do not scratch or damagethe main body of the refrigerator with a sharp object such as screw.**
  Since the refrigerant used is flammable, any leakage from the pipe inside the wall may cause ignition and explosion.

- **Do not use mechanical devices and heat generating devices such as a dryer/fire to accelerate the defrosting process.**

- **Do not use electrical appliances inside the refrigerator.**
  ・If the refrigerant leaks, sparks on the contact may cause ignition and explosion.

- **Do not damage the refrigerant circuit. If you happen to damage the refrigerant pipe, stay away from the refrigerator and avoid using fire and electrical appliances.**
  Should you damage the refrigerator, open the window to ventilate and contact the authorised service centre.
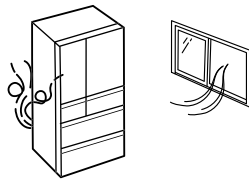
- **Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.** → Pg.8
  Leakage of the refrigerant may accumulate and cause ignition and explosion.
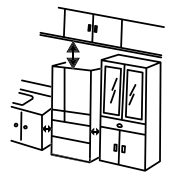
- **Please consult your dealer or the Recycle Hotline of the Recycle Centers in the Environmental Protection Administration when discarding the unit.**
  If the refrigerant leaks, it may cause ignition and explosion.

R600a

- **The warning label and name plate including this symbol affixed on compressor and refrigerator should be kept throughout the life of the refrigerator.**

- **Handling, service, disposal and installation of used flammable refrigerant shall be done by Hitachi authorized service companies or service engineer only.**

In case of emergency

- **Stop the refrigerator by unplugging it if it is not running properly or breaks down.**
  Continuous running may cause electric shock or injury.
  ・Always hold the plug when unplugging it.

  ≪Examples of abnormity and malfunction≫
  ・The power cord/plug are too hot to touch.
  ・You smell something burning.
  ・The power cord is scratched deeply or deformed.
  ・You feel electricity like a sharp and quick tremor or vibration.
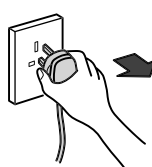
Disassembly prohibited

- **Do not disassemble, repair, or modify your refrigerator.**
  Injury may be caused by ignition of fire or faulty running.
  ・Please consult with a retailer if any repairs or disassembly are required.

- **In the event of gas leak, do not touch the refrigerator and open windows to allow ventilation.**
  ・Sparks from points of electrical contact such as door switches may ignite explosions causing fire or burn injuries.

  deactivate the switch

When discarding the unit

- **Before discarding the unit or recycling, remove the door gaskets to avoid the risk of an infant or child being entrapped inside.**

⚠ CAUTION

When moving and installing the refrigerator

🚫 Prohibited

- **Do not transport the refrigerator with it loaded laterally.**
- **Do not use the handle of the refrigerator door when moving the refrigerator.**
- **Do not drag the refrigerator on the fragile floor.** Doing so may cause damage the floor. Please lay a protective mat etc. when moving the refrigerator.
- **Never hang the handle with a crane, etc.**
- **Be careful not to knock the back/sides of the refrigerator.**

caution

❗

- **Take the food and ice out from the refrigerator and dump the water in the water supply tank.**
- **Lay a protective mat and cloth etc. to prevent the floor from damaging and the water left in the refrigerator from spilling.**
- **Fix the refrigerator doors with a tape etc. to prevent those from opening. In addition, use a tape to fix an electric plug/power cord so that it will not hang down.**
  - Carry it with the door facing upward; as shown in the illustration.
- **Install the refrigerator securely on the sturdy and flat floor using the adjustable mounts.**

During use

🚫 Prohibited

- **Do not put bottles in the Door Baskets if they do not sit properly on the bottom of the front section.**
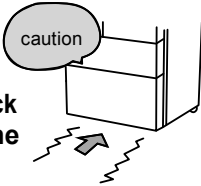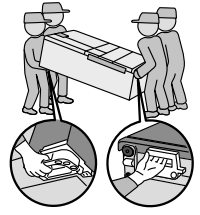 - Forcing in items like large bottles may result in them getting tipped over, causing injury.
- **Do not put the glass bottles in the Freezer Compartment.**
  - Bottles may break from the contents freezing and cause injury.
- **Do not close a door with other than the handle.**
- **Do not put your feet too close when opening the bottom door of the refrigerator.**
  - You may hit the instep or other parts of your feet resulting in injury.
- **Do not put your hands or feet under the base surface of the refrigerator.** When cleaning, putting your hands under the base surface of the refrigerator may result in injury by cutting them on sheet metal parts.
- **Do not give a hard impact to the glass shelf. (The glass shelf may be broken, causing personal injury).**
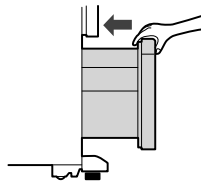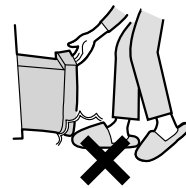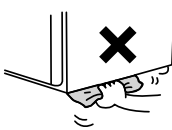
- **Do not have food items protruding over the front of the shelves.**
  - Injury may be caused from items like bottles getting knocked over.
- **Do not open or close the door with force. (Doing so may cause food to drop)**
- **Do not open or close a door while other person is using the refrigerator.**
- **Do not open or close a door of the Refrigerator Compartment while holding the handle of the drawer.**
- **Do not touch the food and containers inside the Freezer Compartment with wet hands.**
  - This may cause frost injury. (Especially in the case of metal items)
- **Do not eat food that smells strange or has changed color.**
  - Spoiled food may cause serious sickness.
- **Neither heat the glass surface of the glass shelf nor put a hot item on it.**
- **Do not hold the door gasket when opening and closing the refrigerator door.**
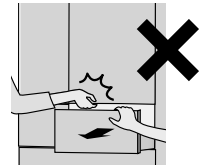
⚠

- **To prevent water from dripping on the floor.** Water due to dew and/or frost may drip on the floor if there is a gap clearance around the door for a long time. Close the door completely without no gap.
- **When opening or closing a door while the adjacent door is left open, exercise caution lest your hand or a finger should be caught between the opened doors.**

- **Take care when removing the glass shelf because it is heavy.**
- **When you hear an abnormal sound or find abrasion powder during the opening or closing of a door, stop using the refrigerator and call for inspection.**

BEFORE USE

1 Preparation before use

● The floor should be sturdy and flat.
Lay a board with 1cm thickness on the floor if the refrigerator is installed on the carpet, tatami mat, flooring or PVC sheet flooring which may be hollow or discolor.

● Place the refrigerator away from direct sunlight and heat.
This will reduce adverse effects to refrigerating power and keep electricity cost down.

● Do not place it in damp areas, and ensure good air ventilation.
This will prevent rust and condensation.

● The refrigerator should be separated from other equipment such as TVs.
This is to prevent disturbance (noise / scattered image) to TVs and other devices caused by the refrigerator.

● Please allow sufficient space around the refrigerator to dissipate heat generated from the refrigerator as shown in the illustration on the right.

Left and right 0.5 cm or more
When installing the refrigerator near the wall, please allow a gap of 1.5 cm or more between the refrigerator and the wall.
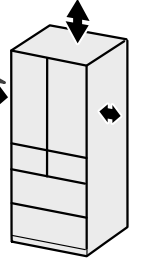(Otherwise, the refrigerator doors may not open fully and the food/cases in the refrigerator may not be taken out.)
When the refrigerator doors are hard to open, please move the refrigerator further away from the wall.

Above 5 cm or more

* The actual size of the center part of the side of the refrigerator's main body is slightly larger than the nominal size.
Therefore, please allow sufficient space around the refrigerator when installing it.

* If you are concerned about noise caused by vibration or condensation on the rear of the refrigerator or discoloration/marking on the wall due to high humidity, install the refrigerator with a gap of 2 cm or more.

2 Adjust and fix the refrigerator horizontally.

1 Hold the leg cover and pull it toward you to remove it.

Leg cover

Use the supplied cushion [2 pc]
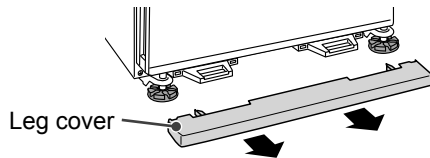
Cushion

2 Place cushions under the adjustable mounts.

Place the cushions under the adjustable mounts evenly at the front, back, left and right.

● Always wipe the adjustable mounts and clean the floor before placing the cushions.
Any dirt under the cushions may scratch the floor.

Cushion (Supplied tool)   Adjustable mount
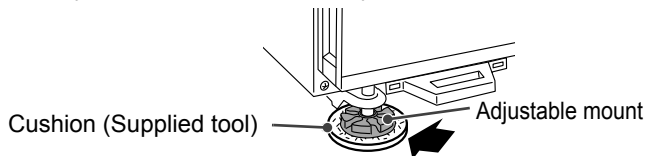
3 Turn the left and right adjustable mounts until they touch the floor.
Adjust so that the left and right doors of the refrigerator compartment are parallel.

As a guide, the height of the door can be adjusted 1mm every one turn of the adjustable mount.
If the adjustable leg is difficult to turn, insert a Phillips screwdriver to turn it.

■**The left side door is lower**

Turn the left adjustable mount clockwise to level the left and right doors.

Phillips screwdriver

■**The right side door is lower**
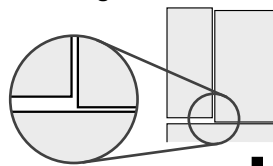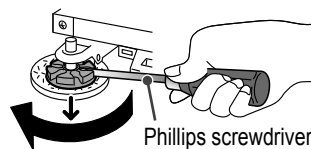
Turn the right adjustable mount clockwise to level the left and right doors.

Phillips screwdriver
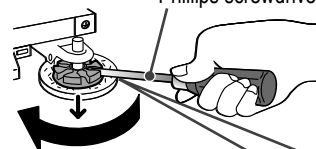
●Be careful not to scratch the floor with the Phillips screwdriver when turning the adjustable mount.
●Excessively turning an adjustable mount may cause it to detach.

4 Insert the fork of the leg cover into the mounting holes to attach the cover.

Mounting holes

Fork

Leg cover

Note

● Packaging specifications may vary depends on production time, but this does not affect the quality.

● Depending on the strength and type of the floor material, and the weight of the food, the door may lower several days later (about 5 days). In this case, adjust the doors to be parallel again.

● If the place where the refrigerator is installed is not horizontal or the floor material is soft, there may be a height difference between the left and right doors of the refrigerator.
There is no problem with the functioning of the refrigerator, but if you are concerned, adjust the doors to be paralleled by following the above described procedure.

● If you make the refrigerator horizontal left to right but make the front slightly higher than the back, it will be easier to close the doors and the doors will be less likely to remain partially open.

● When you release your hand from a refrigerator door with the door open, the door may move. But this is normal.

Recommended size of Phillips screwdriver

Approx. φ0.6cm
Approx.10cm
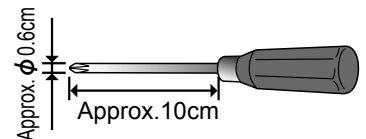
Insert the Phillips screwdriver securely into the groove of the adjustable mount and then turn it.
Phillips screwdriver
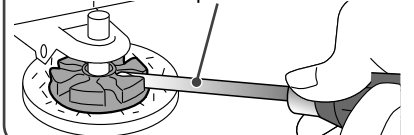
3 Cleaning the inside of the refrigerator. ⟶ Pg.35–37

● Wipe with a soft, damp cloth, then finish with a dry cloth.
● Rinse the water supply tank and water filter.

* Do not wipe off the lubricant applied to the slide door rails or the contact surface of the rails.
* At the beginning, the refrigerator may smell of plastic.
　If you are concerned, ensure that the room is well ventilated.
　(Smell will gradually disappear)
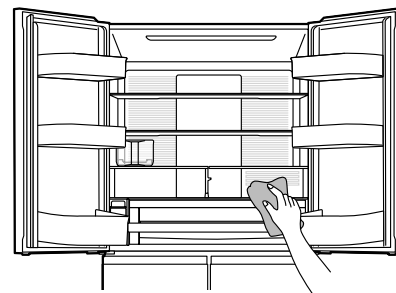
4 Plug the power cord.

You may plug in the power cord immediately after installing the refrigerator.
Do not share the wall outlet with any other appliances. (Alternating current 220–240 V, rated 10 A or more)

● Check that the power plug or the cord is not wedged between the back of the refrigerator and the wall in order to prevent the cord from getting hot.

Cooling inside the refrigerator begins (the refrigerator compartment and the other storage compartments (ice compartment, freezer compartment, vegetable compartment) are cooled alternately.)

● **It may take more than 4 hours to cool** well the inside of the refrigerator, depending on conditions such as the ambient temperature or storage state of foods.
　It may take 24 hours or more in summer, etc.
　Do not put ice cream, uncooled foods or perishable foods in the refrigerator until the inside has cooled well.
● Perform **"Ice Maker Cleaning"** when using the automatic ice making function for the first time. ⟶ **Pg.37**
● Ice making will start automatically after the inside of the refrigerator has cooled well.
　(When using for the first time, **it may take 24 hours or more to make ice**.)
● When the temperature inside the refrigerator is low, cooling may not start for about 10 minutes after plugging in the power plug.

Note

● **Rust proofing of the piping may be required.**
　When installing the refrigerator near a hot spring area, industrial area, or near sewer pipes, etc., the piping may corrode due to the effect of sulfide gas.
　Contact your dealer. The warranty does not cover failures due to sulfide gas damage, such as blackening of the piping.
● **After inserting the power plug into a wall outlet, you will hear noise from the refrigerator. It is preparing for operation.**
　You may also hear a louder noise from the compressor or fan until the inside is cooled enough.
● Do not peel off the sticker on the back or remove the plastic parts on the sides of the refrigerator at the bottom.
● If you attach a magnet or suction cup to the front of the main body or to a door, it may leave a mark.
● If you attach paper to the door surface in a high ambient temperature environment, condensation may form on the door surface or the paper may absorb moisture.

Sticker

Plastic parts (left and right)
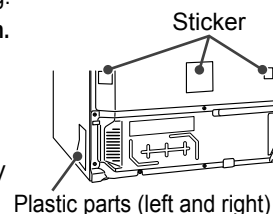
Opening and closing the doors

Request　Do not apply excessive force by opening the door too strongly or leaning against the open door. The door may break.

Use the handles to open and close the doors.

■ To open the door

Do not open the door by holding the swing partition.
(The door cannot be opened)

Swing partition　　　Handle
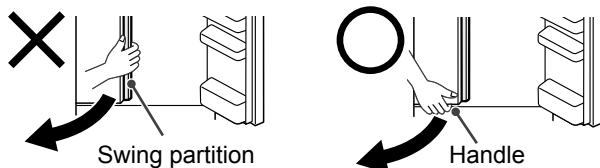
■ To close the door

Do not close the door with the swing partition opened.
(The door will not close completely)

Swing partition　　　Swing partition
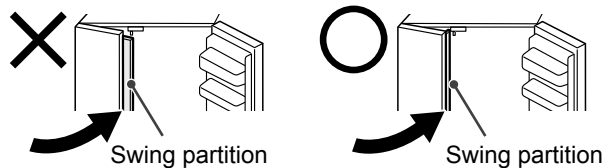
PRECAUTIONS FOR THE USE OF WIRELESS LAN FEATURES

The Company shall not be liable for any damages caused by the incorrect use by the customer or a third party, malfunctions that occur during use, other malfunctions, or damage incurred through the use of this product, except where legal liability is acknowledged.
This product can be used only in the domestic area. Use it in your home as a general wireless LAN device.

This product collects operation history and failure history for the following purposes. It is not used for any other purpose.

- It is used to improve services and develop and improve new services.
- It is used to respond to repairs and improve the response when consulting with the consultation desk.
- For details on the handling of personal information, see the app terms and conditions of use.
  You can check the terms and conditions the first time you launch the app or by clicking the menu button "☰" in the app.
- It is used to improve quality.

Built-in wireless LAN adapter

Doing the following may be punishable by law.

- Disassembly and modification of the wireless LAN adapter built into this product
- Defacing the nameplate or built-in wireless equipment conformity display

Wireless LAN router

- It is not guaranteed that the wireless LAN can be connected to all wireless LAN routers or residential environments.
- In buildings with concrete, reinforced concrete, or metal, near obstacles, and near devices that use the same frequency band (2.4 GHz band) (such as Bluetooth® devices or computer peripherals), radio waves may not reach the wireless LAN or may be interrupted.
- The communication standard must correspond to one of IEEE802.11b/g/n (2.4 GHz band only).
  5 GHz band communication standards are not supported.
- When connecting this product to the Internet, be sure to connect via a router. This product cannot be directly connected to the communication lines (including public wireless LANs) of telecommunications carriers (mobile telecommunications companies, fixed telecommunications companies, Internet providers, etc.).

Security-related

- When using wireless LAN equipment, it is possible that information will be intercepted due to the use of radio waves, regardless of whether encryption settings are set.
- For the encryption method, use a wireless LAN router that can be configured with WPA2 or WPA (both TKIP or AES).
- The wireless LAN function uses radio waves to exchange information between this product and the wireless LAN router, so it has the advantage of being able to connect to the LAN freely as long as the radio waves reach it. On the other hand, if the radio waves are within a certain range, they will reach all places beyond obstacles (such as walls), so others may be able to eavesdrop on the communication content or tamper with it.
- Do not connect to devices or networks that you do not have permission to use when setting up the wireless LAN function.
- If you want to dispose of the product or transfer it to a third party, perform "Delete all registered information".

- If you have received the product from a third party, perform "Delete all registered information" to prevent unauthorized access from the third party.

Radio waves/radio interference

Communication method specifications

Wireless LAN IEEE802.11b/g/n is supported.

Microwave ovens and other industrial, scientific, and medical equipment, as well as premises radio stations (radio stations that require a license) and specified low-power radio stations (radio stations that do not require a license) for RFID used in factory production lines and the like, as well as amateur radio stations (radio stations that require a license) operate in the frequency band used by this product.

①Before using this product, check that premises radio stations and specified low-power radio stations used for RFID and amateur radio stations are not in operation nearby.

②In the event that this product causes harmful radio interference on premises radio stations for RFID, immediately change the frequency band or stop emitting radio waves. Consult with the consultation center ➜ **Pg.52** regarding connecting to a smartphone or connecting to a network and consult about how to avoid interference (for example, by installing partitions).

③In addition, if this product causes any problems, such as cases of harmful radio interference on specified low-power radio stations for RFID or amateur radio stations, please contact the consultation desk regarding connection to a smartphone or connecting to a network. ➜ **Pg.52**

Communication may be unstable when the product is used in the following locations:

● Where magnetic field, static electricity, and radio waves occur (around equipment such as microwave ovens other than this product)

● Around devices that use the same frequency band (2.4 GHz band) as this product (Bluetooth® devices and computer peripherals, etc.)

● Places covered with metal objects that allow radio waves to be easily reflected

Linkage with a smartphone (pairing)

● Do not connect to devices or networks that do not have security measures in place when setting up the wireless LAN function.

● If an unpredictable problem occurs, the data stored inside the smartphone or other external device paired with this product may be corrupted or lost.
Back up in advance as a precaution.

● When connecting devices to this product, we do not assume any responsibility for damage or loss of data stored inside smartphones or other external devices or the failure of the connected device under any circumstances.

● If the communication is temporarily disconnected, the settings may not be sent or the usage status may not be updated. During operation, be sure to check the communication status.

● The communication sensitivity, communication distance, and communication time vary depending on the type of smartphone and wireless LAN router.
Check the communication status during use.

● We are not responsible for any damage caused by wireless LAN communication, except for product defects.

App features

● The screens and illustrations in this manual are for illustration purposes only and may differ from the actual screens and illustrations.

● The contents of this service and features may be changed when the app is updated.
In addition, the service may be suspended without prior notice.

● Please accept the terms and conditions of the app and the privacy policy before using the app.

● App operation is not guaranteed on all smartphones.
Depending on the model, the operation may become unstable or may not function properly.

● When using the app, set the wireless LAN function of the refrigerator to "On".
The factory default setting is "Off".

PRECAUTIONS FOR THE USE OF WIRELESS LAN FEATURES (Continued)

Export regulations

When exporting this product, please check foreign export-related laws and regulations, such as the Foreign Exchange and Foreign Trade Act and U.S. export control regulations and take the necessary steps.

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- Bluetooth® is a registered trademark of Bluetooth SIG, Inc.
- "Google Play™ store" and "Android" are trademarks or registered trademarks of Google LLC.
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- iOS is a mobile operating system developed by Apple Inc.
  IOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under license.
- App Store is a service marks of Apple Inc.
- Wi-Fi™ is a trademark of Wi-Fi Alliance®.
- Wi-Fi Protected Setup™,WPA™,WPA2™ are trademarks of Wi-Fi Alliance®.

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For details such as the terms of use of the software module, please refer to the following URL. Since this is a provision by a third party other than the Company, we include the original text (English).

Singapore   https://kadenfan.hitachi.co.jp/app/sgp/cs-en/license.html

In addition, for details on how to obtain the software module and inquiries, see the following URL.

Singapore   https://www.hitachi-homeappliances.com/sg/contact/index.html

ABOUT THE APP FEATURES

What are the app features?

By pairing this product with a smartphone, you can operate and check the status of the refrigerator from a smartphone.
Once paired, you do not need to pair your smartphone each time you use it.

- **"Ingredient management" where you can check the contents of each compartment in the refrigerator**
  You can use your smartphone's camera to see how many days have passed since you put the ingredients in the fridge.
- **"Notification settings" deliver notifications when you are out or at home**
  A notification is sent to your smartphone that the door is open, that the ice maker cleaning has finished, or that ice making has finished.
- **"Remote Feature" that allows you to check the operation status**
  You can check the current refrigerator operation status and the door opening time for the last 10 days. In addition, you can change the settings such as the refrigerator compartmrnt temperature.
- **"Support Feature" that allow you to view how to operate the refrigerator**
  You can view the instruction manual from your smartphone when you are not sure about the operation or when you have a problem.
- **Updating the refrigerator software**

Required environment

Connected to the Internet
A contract with a provider (Internet connection provider) for an always-connected broadband line is required.
Dial-up or smartphone tethering cannot be used.

A wireless LAN router is installed
- Use a wireless LAN router that can configure WPA2 or WPA encryption (both TKIP or AES).
- The communication standard must correspond to one of IEEE802.11b/g/n (2.4 GHz band only).
  5 GHz band communication standards are not supported.
- Mobile routers are not guaranteed to work.

A compatible smartphone
- Use an Android or iOS (iPhone) smartphone.
  Smartphones without a wireless LAN function cannot be used.
  Tablet devices are not guaranteed to work.
  For the supported OS versions, see the following site or the code on the right.

  https://www.hitachi-homeappliances.com/global/app/ref/series01/index.html

Connection conceptual diagram
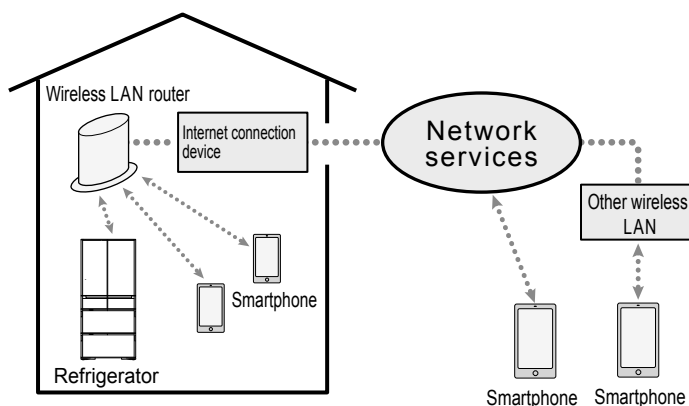
- Transmission fees for connecting to the Internet, downloading apps, and using a smartphone will be borne by the customer.
- If the wireless LAN router cannot communicate with this product, it will enter the "Not Connected" state and operation from a smartphone will not be possible.
  Be careful when you move the refrigerator or wireless LAN router.
- You can register up to five smartphones for one refrigerator, and you can operate the refrigerator itself.

CONNECT TO THE SMARTPHONE

Install "Hitachi Fridge"application (hereinafter the "Application")

For iPhone	For Android
Open the "App Store"	**Open the "Google Play"**

You can also download the application from the homepage.

URL   https://www.hitachi-homeappliances.com/global/app/ref/series01/index.html

- ● It does not guarantee the operation on all smartphones.
  Depending on the model, its operation may be unstable or may not work well.
- ● The application is free, but a communication cost is charged when downloading and using the application.
  Communication costs will be borne by the customer who has contracted for the used smartphone.
  Refer to the instruction manual of the smartphone for how to install the application.
- ● The contents of services, screen design, functions, etc. of the application may change without notice.
  Also, the service provided may be terminated without notice.
- ● Please use it after agreeing to the terms of use and the privacy policy of application.

Pairing setup / add a unit

- ● The screen and operation of the smartphone differ depending on the model and OS.
- ● If the Wi-Fi settings on the smartphone has already been made, you may proceed to the next step without performing any operations.
- ● Set the wireless LAN function of the unit as "Yes". ("No" is set at the time of factory shipment.)
- ● If the pairing setting has failed, refer to "Troubleshooting" and start over from the beginning.

|	
Preparation	**Confirm the SSID and password of the wireless LAN router connected to the unit.** ・ Select a wireless LAN router that can be connected even where the unit is installed. ・ Select a wireless LAN in the 2.4 GHz band. (pairing is not possible in the 5 GHz band) ・ The wireless LAN router's SSID is the name shown at the Wi-Fi setting of the smartphone. 　If the SSID and password of the wireless LAN router (some may be described as "Encryption Key" or "Security Key" etc. depending on the wireless LAN router) are unknown, refer to the instruction manual of the wireless LAN router.

1 **Start up the application and confirm the terms of use.**   `Operate the application`

At launching the application for the first time, the terms of use will be shown, so confirm the contents.
If it is agreeable, continue setting.

Tap ☐ to put a check

Tap "Next" to go to the next screen
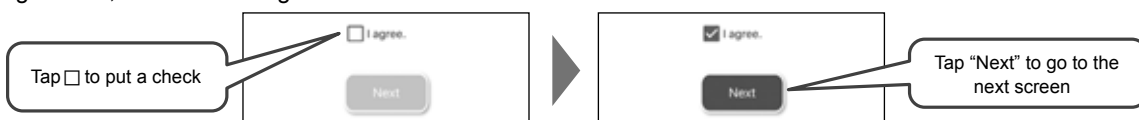
2 **Login**   `Operate the application`

Input the login ID and password to login.
Login after you have completed your member registration
if your member registration is incomplete.
※ Login is required to use the applications.

Tap " Create your account" and register by following the guide displayed on-screen.

To use application, please register with Hitachi Customer Support.

Create your account

※ If your member registration is incomplete

If you are already registered with Hitachi Customer Support

Login ID (Email Address)

Password

☐ Show password

Log In

Input the login ID

Input the password

Tap "Login" to proceed the next screen
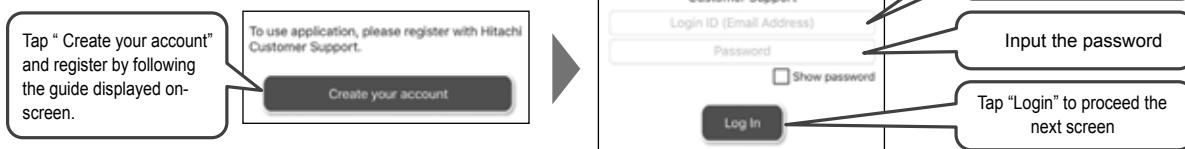
3 **Select the wireless router to be connected to the unit.**   `Operate the settings of the smartphone`

Move from the application screen to the smartphone's Wi-Fi setting screen, turn on the Wi-Fi setting, and select the wireless LAN router desirable to be connected to the unit.

- ・ The wireless LAN router password is necessary to connect.
  If it is unknown, refer to the instruction manual of the wireless LAN router.
- ・ The operation and setting screen of the smartphone differ
  depending on the model and OS.

If "Wi-Fi setting" is OFF, switch to "ON" and select.

Select the wireless LAN router to be connected to the unit.

SSID of the wireless LAN router

4 Enter the wireless LAN router password in the application.

Move back to the application, and with following the instructions on the screen, confirm that the wireless LAN router selected in **3** is displayed and enter the password for the wireless LAN router.

- **It is impossible to connect if the wrong password is entered.**

Confirm the wireless LAN router

Tap "Next" and proceed the next screen

Enter the wireless LAN router password

Tap "Next" and proceed the next screen

---

5 Set the wireless LAN function as "Yes".

1 Touch **MENU** to activate the display.

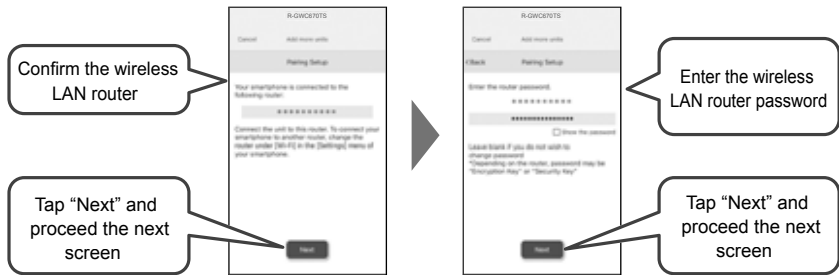All indicator lamps are activated, and then the current settings are displayed.

2 Touch and hold **Energy Saving** for 3 seconds or longer until the setting sound (a long beep) is heard to activate, and then **WLAN** indicator is activated and 📶 Pairing blinks.

Note
- The light of indications shall turn off in about 40 seconds for energy savings, but the setting will continue until its cancellation.
- If **WLAN** indicator lamp is blinking, please be patient until the indicator lamp is activated.

■ Control Panel

Blinking

📶 Pairing

Energy Saving
WLAN
(Hold 3 Sec.)
(Default)

Touch and hold for 3 seconds

On

Energy Saving
WLAN
WLAN
(Hold 3 Sec.)
(When set)

---

6 Select the network by Wi-Fi setting. (＊ is alphabet or number)

When the screen on the right is displayed on the application, move to the Wi-Fi setting screen of the smartphone and select the network of the corresponding refrigerator model.

Ex.) In case of R-GWC670T type

Refrigerator model name	Network name
R-GWC670T type	R-GWCT_＊＊＊＊＊＊

- The message "Network not connected " may be displayed, but proceed as it is.
- It may take a while for the network to appear. If it does not appear, redisplay the Wi-Fi setting on the smartphone or turn off the Wi-Fi setting and then turn it on again.

Tap "Next" and proceed the next screen

Select "R-GWCT_＊＊＊＊＊＊"

---
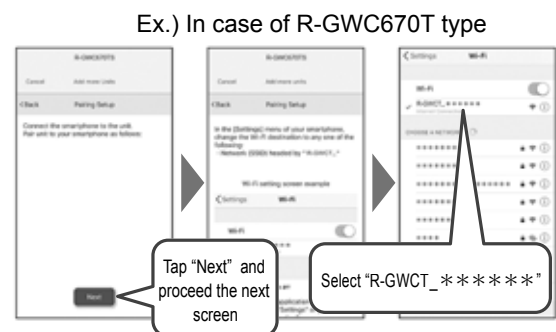
7 Set the names of the unit and user in the application and complete the pairing setup.

📶 on the unit changes from blinking to lighting

Move back to the application and wait for a while until pairing setting is finished.
When finished, set the names of the unit and user, and complete the setting.

Set the names of the unit and user

Enter the name within 16 characters. Half-width symbols, such as " ＊ " , " / " and " (" , cannot be used.

Tap "Exit" to complete the setting
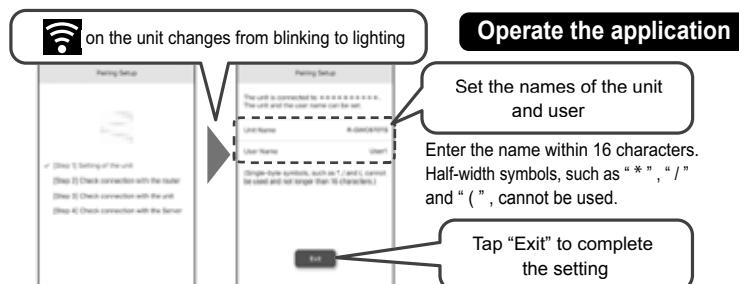
If the pairing setup fails

HOW TO USE OTHER WIRELESS LAN FEATURES

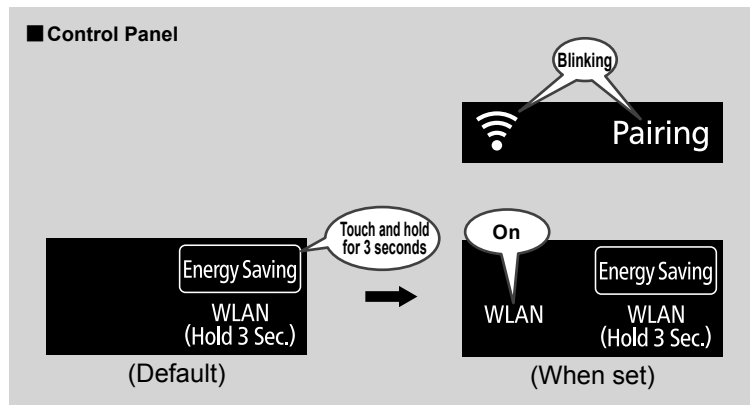## Set wireless LAN feature to "None"

Operate the unit

1 Touch [MENU] to activate the display.

All indicator lamps are activated, and then the current settings are displayed.

2 Touch and hold [Energy Saving] [Vacuum] simultaneously for 3 seconds or longer until the setting sound (two short beeps) is heard to deactivate [WLAN] 🛜 indicators.

・If the wireless LAN feature is set at "No", functions that can be operated with a smartphone cannot be used.
・The registered information of the paired smartphone is not deleted.
・When using the wireless LAN function again, it is not necessary to rep-do the pairing settings.

Set the wireless LAN function as "Yes" → Pg.15, Article 5

※ When you would like to link the refrigerator with your smartphone (pairing), please refer to the section of "Linkage with a smartphone (pairing)".
※ [🛜 Pairing] blinks, but that stops after a short while.

Delete all registration information (initialization)

● Delete all information registered by the wireless LAN function (initialization). Please carry out when discarding or transferring the unit.

Operate the unit

1 Touch [MENU] to activate the display.

All indicator lamps are activated, and then the current settings are displayed.

2 Touch and hold [Energy Saving] for 3 seconds or longer until the setting sound (a long beep) is heard to activate [WLAN] indicator.

※ If [WLAN] is already lit, proceed to **3** .

※ When [WLAN] or [🛜 Pairing] blinks, please wait for a while.
When [WLAN] blinks and then [🛜 Pairing] stops blinking, you can delete all registered information.

Note

The displaywill turn off in about 40 seconds for energy savings, but the setting will continue untilreleased.

3 Open the Freezer Compartment lower door.

4 Touch [MENU] to activate the display.

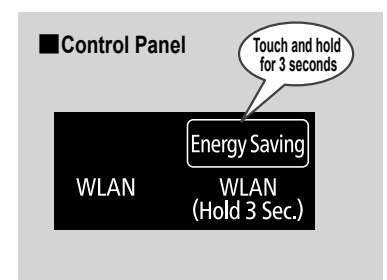All indicator lamps are activated, and then the current settings are displayed.

5 Touch and hold [Energy Saving] for at least 3 seconds until the setting sound (a long beep) sounds.

※ When all registered information is deleted, [🛜 Pairing] is off.

■Control Panel

Touch and hold for 3 seconds

Energy Saving

WLAN   WLAN (Hold 3 Sec.)

**6** Close the Freezer Compartment lower door.

On the updating the unit's software

If there is software to update, the wireless LAN feature can be used to update the unit software.

Caution at updating

・ In order to update the unit software, it is necessary to set the pairing via a wireless LAN router. → **Pg.14**

・ Software cannot be updated when the power is off.

・ If the unit software and the application are updated, depending on the contents of the update, the actual status may be different from the contents described in this document.

・ While updating the unit software, it cannot be operated.

While updating, WLAN and 🛜 blink.

The update starts automatically according to the operating status of the refrigerator.

・ It takes about 5 to 10 minutes to update the unit software.

・ Do not turn off the power while updating the unit software.

It may cause failures such as inability to supply power, inability to operate, and inability to operate from a smartphone.

・ If the power is turned off while updating due to a power failure, and etc., the unit will automatically switch to recommence updating after power failure recovery.

■**Control Panel**
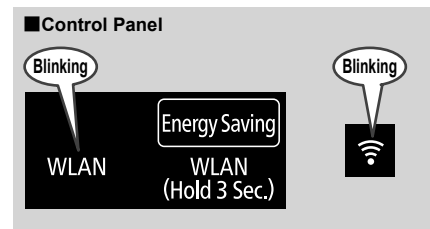
Set the updating of the unit software
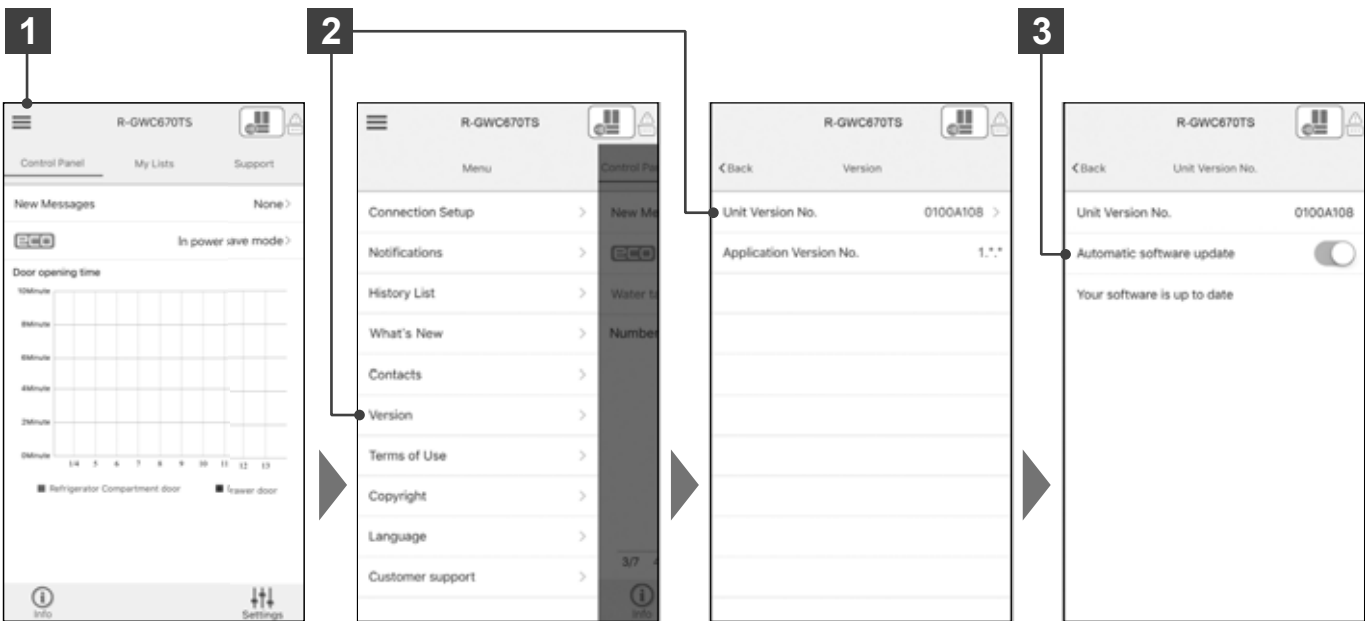
| **1** | Tap the menu button "≡" on the upper left of the screen. | **Operate the application** |

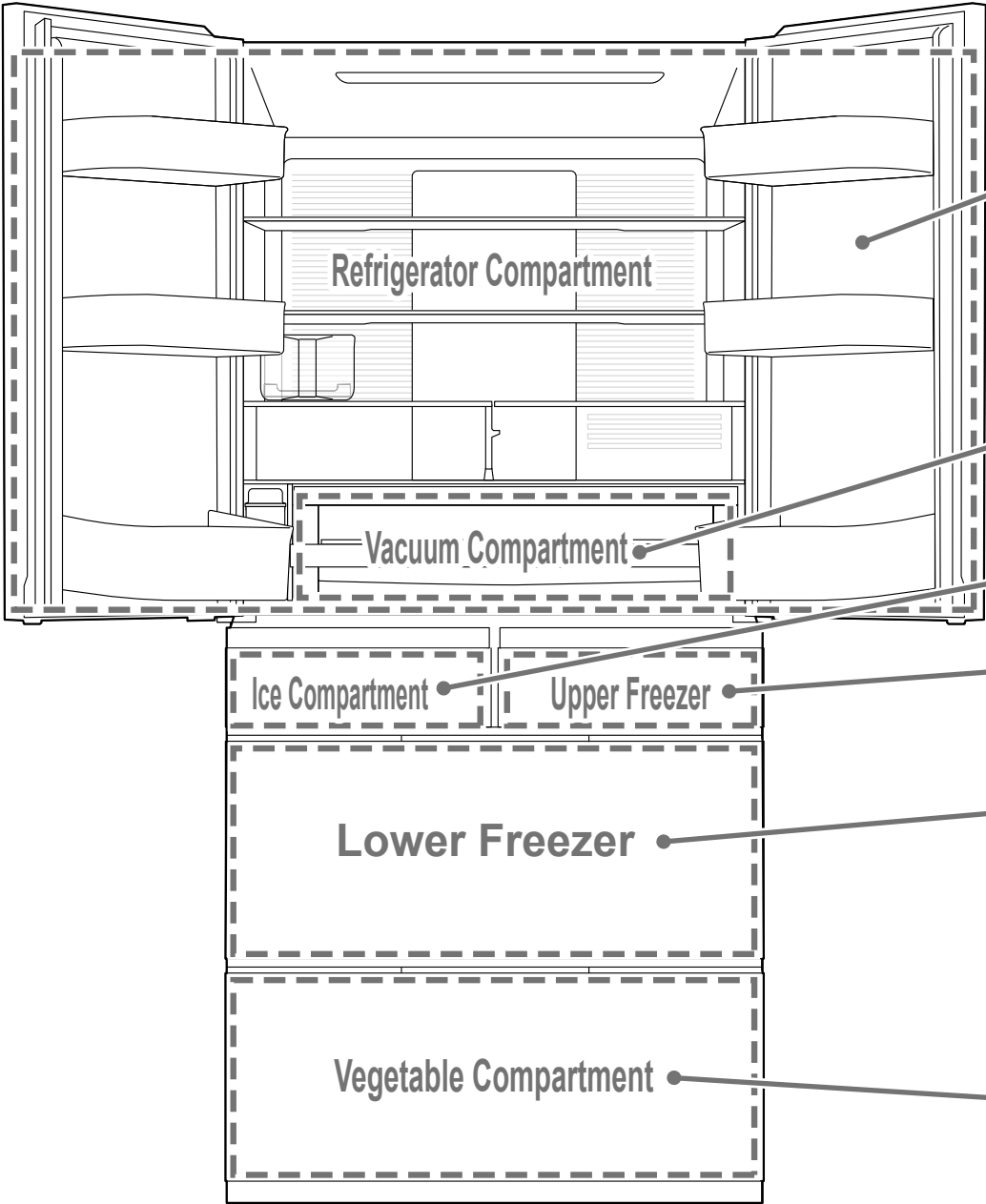| **2** | Tap "Version" and select "Unit Version No." | **Operate the application** |

| **3** | Set "Automatic software update" as ON. | **Operate the application** |

The update starts automatically according to the operating status of the refrigerator.

CHECK

Name of each compartment

Refrigerator Compartment

Vacuum Compartment

Ice Compartment

Upper Freezer

Lower Freezer

Vegetable Compartment

Food Storage Recommendations

Storage location		Estimated temperature	Food
Refrigerator Compartment → Pg.22 * When "■■■" is set	Shelf	**About 0°C to 3°C**	**Foods used daily**
	Door pocket	**About 0°C to 7°C**	
Vacuum Compartment → Pg.24		**About -2°C to 0°C**	**Fresh food such as meat and seafood**
Ice Compartment → Pg.26		**About -19°C to -17°C**	Ice storage space Small items storage space Ice made by automatic ice making
Upper Freezer → Pg.28 * When "■■" is set		**About -19°C to -17°C**	
Lower Freezer → Pg.28 * When "■■" is set		**About -20°C to -18°C**	
Vegetable Compartment → Pg.30	Upper/lower space	**About 4°C to 8°C**	Upper space **Small vegetables, partially used vegetables, fruit, etc.** Lower space **Leafy vegetables (spinach, Komatsuna (Brassica rapa), etc.), Large vegetables (cabbage, lettuce, etc.)**
	Vertical storage space	**About 4°C to 9°C**	Vertical storage space **Long vegetables, plastic bottles, etc.**

* The temperatures assume an ambient temperature of approx. 32°C around the refrigerator, no food inside, the doors closed, and a stable temperature.
* The temperature may vary depending on food storage conditions, door opening and closing, etc.

Tips for storage
● Keep gaps between foods when storing it.
● It is recommend to wrap foods with strong odors in cellophane wrap.
● There is a guideline for the weight of food that can be stored. → Pg.51

Note　● Depending on the food to be stored, the cases may be scratched.

19

CHECK (Continued)

Functions of the Control Panel
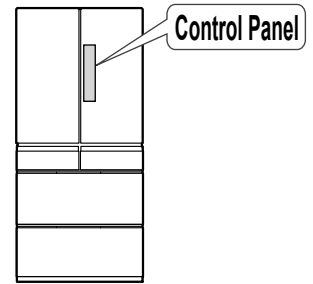
Control Panel

The Display and Operation Sections are normally unlit. Touch `MENU`
to make them light up.
The Operation Section is a touch panel.
Touch it to toggle the settings.

*All the indicator lamps on the control panel shown below are lit to facilitate explanation.

Display Section

| Auto Door |
| Panel Lock |
| Tank Empty |
| Eco |
| Moist Cool |
| Pairing |

≡ MENU

Touch first

Save Mode — Energy Saving
WLAN — WLAN (Hold 3 Sec.)
Quick Ice
Auto Ice On — Ice Maker
Auto Ice Off — Cleaning (Hold 5 Sec.)

Vacuum On — Vacuum
Vacuum Off — Panel Lock (Hold 3 Sec.)
Vege Cool
Quick Cool — Cooling
Auto Door (Hold 3 Sec.)

Refrigerator

Freezer

Display Section   Operation Section

Indicator lamps to provide information

*1 The symbols and letters on the control panel light up only when you operate.
*2 Only the symbol lights up all the time, and the letters light up only when you operate.

Auto Door	*1	Lights when the Auto Drawer function is activated → Pg.21
Panel Lock	*2	Lights when the operation section on the control panel is locked → Pg.32
Tank Empty	*2	Lights when the water in the water supply tank is low → Pg.27 [Water supply tank indicator lamp]
Eco	*2	Lights when the refrigerator is operated in a manner to reduce power consumption → Pg.34 [Eco operation indicator lamp]
Moist Cool	*1	Lights when "Moisture Cooling" is activated → Pg.22
Pairing	*2	Lights when pairing is completed and the refrigerator is connected to the Wireless LAN

Energy Saving

Save Mode
Slightly reduces the cooling in each compartment to save energy → Pg.34

WLAN
Lights when the Wireless LAN function is activated → Pg.16
Connection to the Wireless LAN is being on standby while this indicator lamp is blinking. Therefore, the Wireless LAN function is unavailable. Please wait a second until this indicator lamp lights up.

Ice Maker

Quick Ice → Pg.27   **Auto Ice On** → Pg.26   **Auto Ice Off** → Pg.27

Vacuum

Vacuum On → Pg.25   **Vacuum Off** → Pg.25

Cooling

Vege Cool → Pg.31   **Quick Cool** → Pg.23

Refrigerator/Freezer

The temperature settings of the Refrigerator Compartment and the Freezer Compartment can be adjusted in three levels.
Adjusting the temperature setting of the Refrigerator Compartment → Pg.22
Adjusting the temperature setting of the Freezer Compartment → Pg.29

Note

● When you touch `MENU` all the indicators light up and the current settings are displayed. You can also view the current settings by opening the refrigerator compartment door.
● When you are done, touch `MENU` again to deactivate the Display Section and Operation Section.
  Even if you do not touch `MENU`, the Display Section and Operation Section will be deactivated after about 40 seconds to save power.
  However, `MENU` stays lit. In addition, the setting for "Save Mode", the display during "Quick Ice", "Auto Ice Off", [Water supply notice indicator lamp] "Quick Cool", "Vacuum Off" display, [Eco operation indicator lamp], [Door open/close indicator lamp] in "Save" are not deactivated. 📶 is not lit off when the refrigerator is connected to the Wireless LAN.
● When a refrigerator compartment door is opened, the Display Section and Operation Section light up. In this case, they will be deactivated about 15 seconds after the door is closed.
● The response of the touch panel may change depending on the ambient temperature, humidity, the physical condition of the user, or the operation of nearby electrical devices.
● If the touch panel does not respond, release your finger and then touch it again. If the interval between key touches is too short, the touch panel may not respond. Touching the touch panel strongly will not improve the response.
● The Operation Section may not respond if it is wet or dirty. Remove the dirt with a damp cloth and then wipe it with a dry cloth.
● The Operation Section will not respond to touches while a refrigerator door is open or while the Display Section is blinking. Check "The lamp on the Control Panel blinks". → Pg.42

Using Auto Drawer

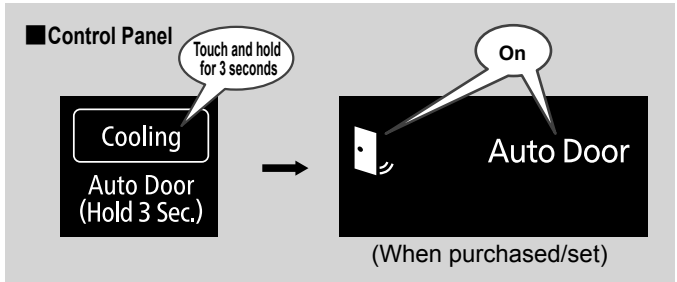| ⚠ WARNING	● Deactivate the function of the Auto Drawer when children etc. may play with the Auto Drawer.
⚠ CAUTION	● Do not put your feet too close to the main body of the refrigerator when pressing the Auto Drawer switch of the Vegetable Compartment. **(The door may hit your leg and cause injury.)** ● Make sure to hold the handle of the door when closing the door. (Otherwise, your finger is caught in the door and it may result in injury.) ● Do not press the Auto Drawer switch with your knee, etc.

Auto Drawer switch

Handle (Manually operated)

Handle (Manually operated)
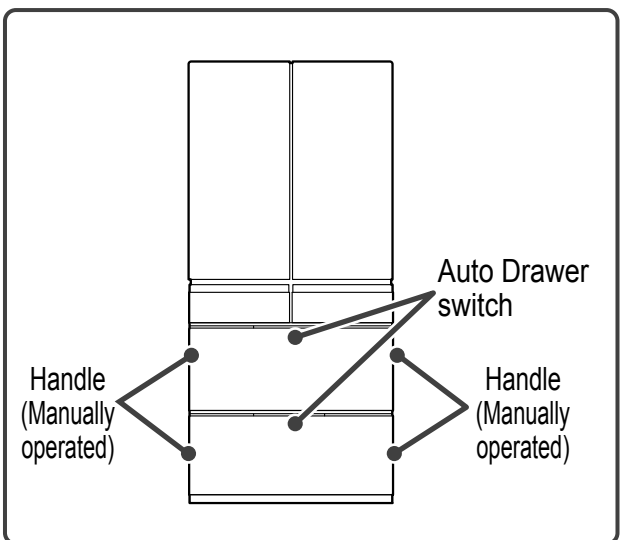
How to set

The default setting is "On".

1 Touch [MENU] to activate the display.

All indicator lamps are activated, and then the current settings are displayed.

2 Touch and hold [Cooling] for 3 seconds or longer until the setting sound (a long beep) is heard to activate [Auto Door] indicator.

■**Control Panel**

Touch and hold for 3 seconds

Cooling
Auto Door
(Hold 3 Sec.)

→

On

Auto Door

(When purchased/set)

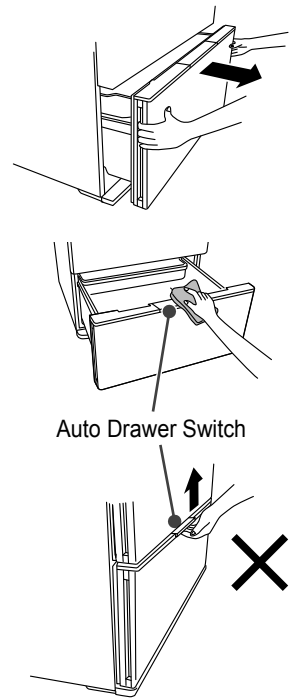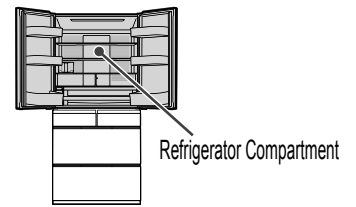## How to deactivate the Auto Drawer function

Touch [MENU] to activate the display, and then touch and hold [Cooling] for 3 seconds or longer until the setting sound (two short beeps) is heard to deactivate [Auto Door] indicator.
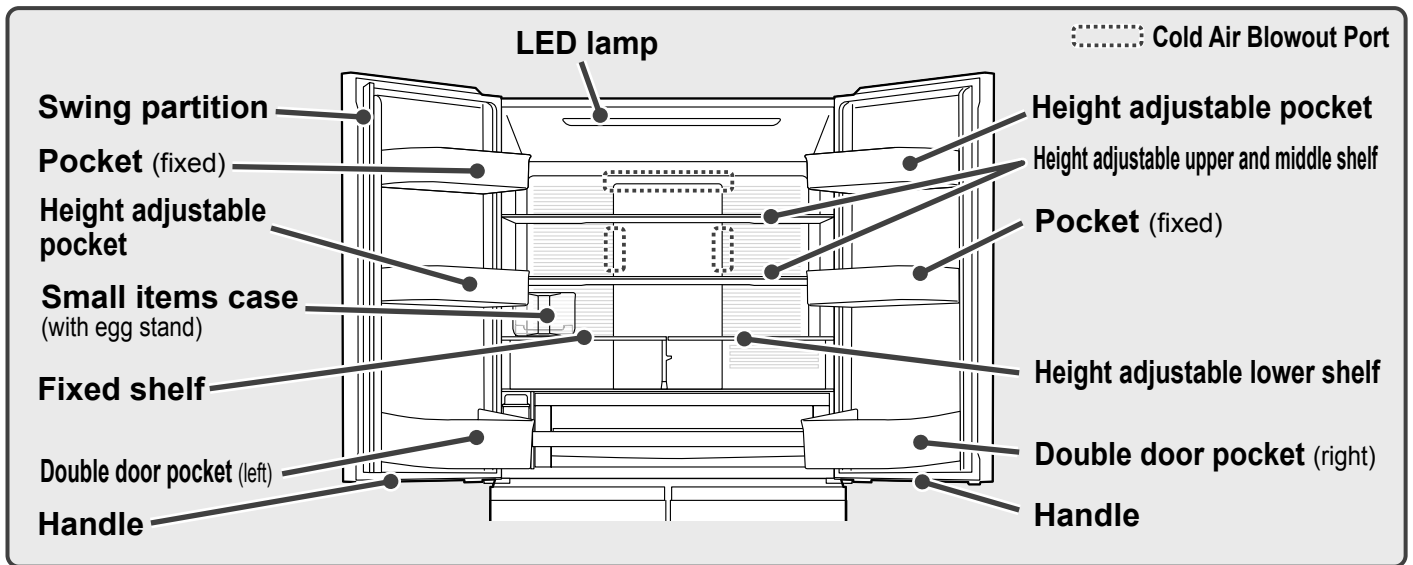
Note

● When the Auto Drawer function is deactivated, hold the left and right handles on the side of the door with both hands to open the door.

● It is not possible to close the door using the Auto Drawer function.
When closing the door, hold the left and right handles on the side of the door to close the drawer.

● When deactivate the Auto Drawer function, it is not possible to deactivate the Auto Drawer function of "Lower Freezer" and the "Vegetable Compartment" separately.

● This function is to reduce the burden at the start of pulling out the drawer, and the dimension that the drawer comes out when operating the Auto Drawer function is about 15cm or more. Depending on the installation conditions of the refrigerator, the dimensions of the drawer coming out may change, or the door may return slightly after the door opens electrically, but it does not indicate any fault.

● It is not possible to open "Lower Freezer" and the "Vegetable Compartment" at the same time using the Auto Drawer function.

● The Auto Drawer function does not work when either "Lower Freezer" or "Vegetable Compartment" is open.

● A sound is heard when you press the Auto Drawer switch, but it does not indicate any fault.

● If you spill food juice, etc. on the upper part of the Auto Drawer switch, be sure to wipe it off immediately. The mechanical part of the Auto Drawer switch may not work, and it may cause the door to open unintentionally.

● Do not close the door while pressing the Auto Drawer switch.

● The Auto Drawer switch protrudes from the door surface. Do not pull up the Auto Drawer switch laying your hand on it. In addition, be careful not to hit it or press it unintentionally.

Auto Drawer Switch

REFRIGERATOR COMPARTMENT

Refrigerator Compartment

Name of each part

LED lamp

┈┈┈┈: **Cold Air Blowout Port**

Swing partition

Pocket (fixed)

Height adjustable pocket

Small items case (with egg stand)

Fixed shelf

Double door pocket (left)

Handle

Height adjustable pocket

Height adjustable upper and middle shelf

Pocket (fixed)

Height adjustable lower shelf

Double door pocket (right)

Handle

Request
- ● Do not place foods with high water content/canned beverages around a Cold Air Blowout Port because they may freeze or burst. They are especially likely to freeze in Refrigerator "■■■" "Moisture Cooling" mode. **You can prevent food from freezing by using a lid or cellophane wrap.**
- ● When storing dry food such as rice or seaweed, put it in a closed container (bag) before storing. Otherwise, dried food may absorb moisture.
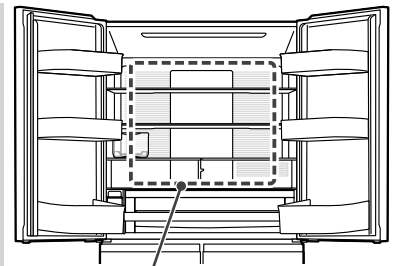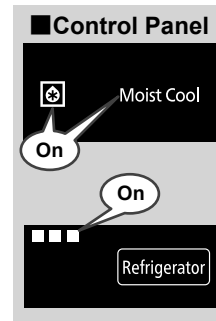
Using "Moisture Cooling"

*The default setting is "Moisture Cooling On".

- ● **"Moisture Cooling" makes all areas of the Refrigerator Compartment cooler.** (When set: about 0 to 3°C)
  It is recommended for storing prepared side dishes.
  When storing warm food, **cool it to a temperature at which you can touch it (about 50°C or less) before putting it in the refrigerator.** This will prevent burns and deformation of the shelves.
- ● You can confirm if "Moisture Cooling" is activated on the Control Panel.
  While Refrigerator "■■■" ⬚ Moist Cool indicator lamp is lit, "Moisture Cooling" is activated.

■Control Panel

⬚ Moist Cool
On

On
Refrigerator

Moisture Cooling Space

Note
- ● Power consumption is higher when "Moisture Cooling" is activated.
  Also, the refrigerator operating noise may become louder.
- ● The temperature of the pockets will be lower when "Moisture Cooling" is activated.
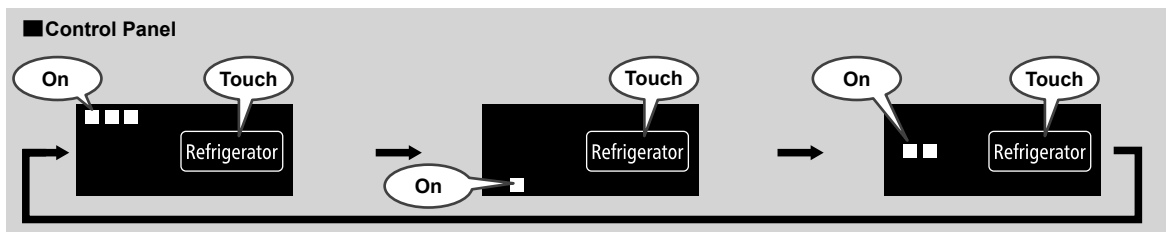
To activate the setting

1 Touch ▭MENU to activate the display.

All indicator lamps are activated, and then the current settings are displayed.

2 The temperature can be adjusted touching ▭Refrigerator.

If you feel that the refrigerator is too cold, use "■■" or "■".

■Control Panel

On Touch → Touch → On Touch
■■■ Refrigerator On ▪ Refrigerator ■■ Refrigerator

Guide for refrigerator compartment temperature
"■■" is about 1 to 3°C higher than "■■■"
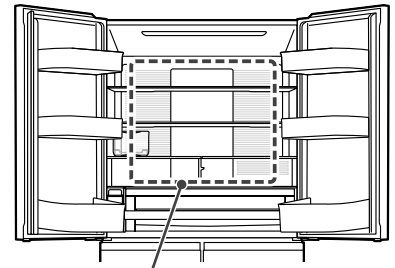"■" is about 1 to 3°C higher than "■■"

Using "Quick Cooling"

When you want to cool food quickly, you can increase the cooling of the "Moisture Cooling Space".

You can reduce the time required to cool warm food and remove excess heat after cooking.

This feature is recommended when you want to quickly cool packed lunches, drinks, or cooked vegetables, etc. before going out.

When storing warm food, **cool it to a temperature at which you can touch it (about 50°C or less)** before putting it in the refrigerator. This will prevent burns and deformation of the shelves.

Note

● Power consumption is higher when "Quick Cooling" is activated.
● Continuous use of "Quick Cooling" may freeze the food in the refrigerator.
● "Quick Cooling" can be used even when "Moisture Cooling" is activated.

Moisture Cooling Space

To activate "Quick Cooling"

1 Touch MENU to activate the display.

All indicator lamps are activated, and then the current settings are displayed. The default setting is "Off".

2 Touch Cooling to activate "Quick Cool" indicator.

"Quick Cool" stops automatically after about 60 minutes and the "Quick Cool"display turns off.
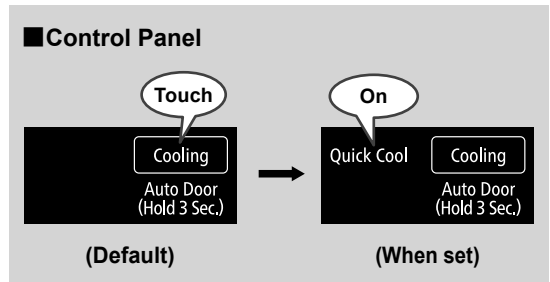
To cancel "Quick Cooling"

1 Touch MENU to activate the display.

2 Touch Cooling to deactivate "Quick Cool" indicator.

■**Control Panel**

Touch → On

Cooling
Auto Door (Hold 3 Sec.)
(Default)

→

Quick Cool | Cooling
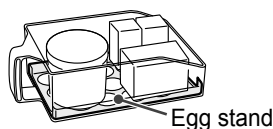Auto Door (Hold 3 Sec.)
(When set)

Using the small items case

You can put small items or eggs, etc. in the Refrigerator Compartment.

The egg stand can be used to store up to 14 eggs. You can also store egg boxes without taking out the eggs.
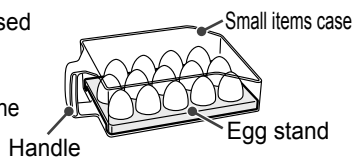
Turn the egg stand over to use the case for storing small items.

Small items case
Handle
Egg stand
Egg stand

Request

● Hold the handle firmly when handling the small items case.
● Do not stack food items as they may fall.
● Do not store food that is taller than the front edge of the case.
● Do not make ice in this container. The container may break.
● Do not place the container near the Cold Air Blowout Port since the stored food may freeze or burst. Place the container away from the Cold Air Blowout Port.
● Do not position the container so that it sticks out from the shelf.

Adjusting the height of pockets and shelves

You can change the positions of pockets and shelves according to the sizes of the food and beverages you wish to store. How to remove/attach ➡**Pg.38**

⚠ **CAUTION**

■ Handling the glass shelves
● Do not apply force to the glass shelves. (It may break and cause injury)
● The glass shelves are heavy. Handle with care when removing/attaching them.

■ **Height adjustable upper shelves, height adjustable middle shelves, height adjustable lower shelves, height adjustable pockets**

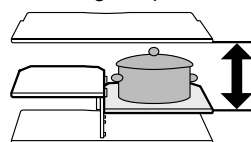Can be adjusted according to the height of the food or beverage.
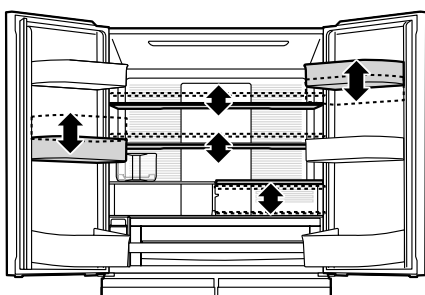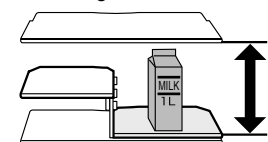
● Default
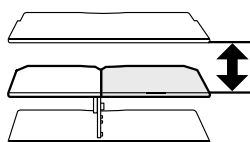
Set the shelf to the uppermost position
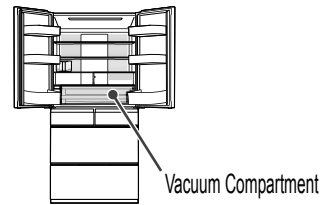
● Storage of pans, etc.

Set the shelf to the middle position

● Storage of milk cartons, etc.

MILK 1L

Set the shelf to the bottom position

VACUUM COMPARTMENT

Vacuum Compartment

LED lamp
Illuminates the Vacuum Compartment brightly when the Refrigerator Compartment is opened.

Handle

Handle

Vacuum pump

Vacuum Case
(with aluminum tray)

Vacuum release valve (blue)
When you lift the handle and unlock, the vacuum release valve releases the vacuum. You will hear "Rushing air sound" when you release the vacuum.

Platinum catalyst The platinum catalyst breaks down the odor components emitted from meat and fish and converts them into carbon dioxide gas. This helps to keep food fresh.

Stored food

The default setting is vacuum "On".

On (About –2°C to 0°C)	● Meat and processed meat products ● Fish, seafood, and processed seafood products ● Thawing meat and fish • Foods with high water content may freeze.
Off (About –2°C to 0°C)	Release the vacuum function. Recommended for storing "food in sealed bags" and "plastic sealed containers" that require careful storage. Since the temperature is below freezing point, foods with high water content may freeze.

Note The effect of the vacuum does not change even if the food is wrapped in cellophane wrap. If you are concerned about the transfer of odors to other items, please wrap the food.

Caution ● Foods with high water content may freeze when the ambient temperature is low.
● Changing the Refrigerator Compartment or Freezer Compartment temperature setting also changes the Vacuum Compartment temperature.
● **Do not overfill the Vacuum Compartment with food or containers.**
   It may become impossible to pull out the Vacuum Case.

■ Foods not suitable for the Vacuum Compartment

The following foods are not suitable for freezing. Store those foods in the refrigerator compartment.

● **Dairy products**   ● **Cut vegetables and fruits**   ● **Foods for which small bubbles appear when frozen**

Cheese, etc.   Cut raw vegetables, cut fruits   Tofu, konnyaku, deep fried tofu, shirataki noodles, boiled eggs, etc.

Changing the Vacuum Compartment settings

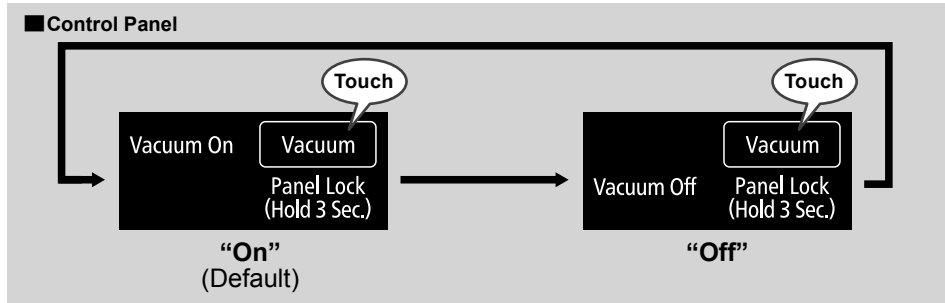**1** **Touch** MENU **to activate the display.**

All indicator lamps are activated, and then the current settings are displayed.

2 **Touch** Vacuum **to change to the desired setting.**

Each time you touch the panel, the display changes in the order shown below. The default setting is "Vacuum On".
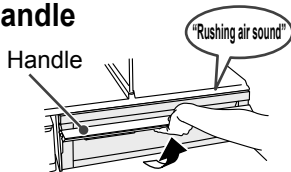
Note While "Vacuum Off" is set, the "Vacuum Off" display continues to light. Other displays are deactivated after about 40 seconds to save energy, but the functions that have been set continue to operate.

■Control Panel

| Touch | | Touch |

Vacuum On Vacuum
Panel Lock
(Hold 3 Sec.)
"On"
(Default)

→

Vacuum
Vacuum Off Panel Lock
(Hold 3 Sec.)
"Off"

Opening and closing the Vacuum Case

When opening

1 **Pull up the handle to unlock.**
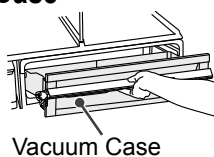
"Rushing air sound"

Handle

* It takes about 3 to 4 minutes from the time when the refrigerator door is closed and the vacuum pump is activated until a vacuum state is reached. If you open the Vacuum Compartment within 4 minutes, there may be no "Rushing air sound".

* If you try to raise the handle without opening both the left and right doors of the Refrigerator Compartment, parts may break.
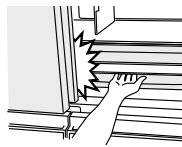
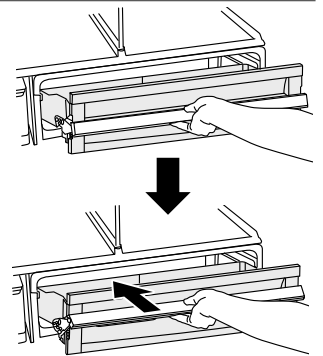**2** **Pull the Vacuum Case forward.**

Vacuum Case

* The vacuum is being released while you hear the "Rushing air sound". The Vacuum Compartment cannot be pulled out at this time. After the sound has stopped, pull the Vacuum Case out toward you.
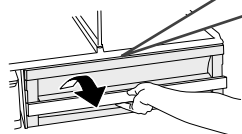* When you release the handle, the handle is lowered.

When closing

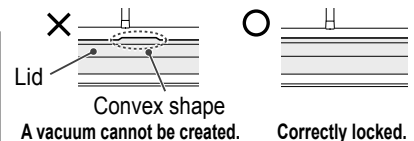**1** **Push the Vacuum Case all the way in while the handle is pulled up.**

Caution

If you do not push the Vacuum Case all the way in while the handle is pulled up, the lock is not be applied and a vacuum cannot be created.

2 **Fully lower the handle to lock.**

Caution

If you do not fully lower the handle while the Vacuum Case is pushed all the way in, a vacuum cannot be created.

× ○

Lid

Convex shape

A vacuum cannot be created.
If the convex shape on the upper part of the lid is seen, lower the handle after the Vacuum Case is pushed all the way in.

Correctly locked.

Caution

If you close the Refrigerator Compartment door without locking the handle, it may cause breakage of parts or food, or cause the door to remain slightly open, resulting in poor cooling.
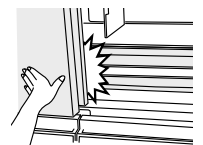
Request

● **If the gasket is caught, the vacuum cannot be maintained. Straighten any parts of the gasket that are caught. The left and right sides and the underside are hard to see, so please remove the Vacuum Case to check.** →Pg.38

● Since the Vacuum Compartment is hermetically sealed, water contained in food or air may cause water drops, frost, or ice to form inside the compartment. Wipe off with a soft cloth moistened with warm water. (The performance will not be affected even if there are water drops, frost, or ice in the Vacuum Compartment.)

● If you are concerned about water drops, frost, or ice, it is recommend to wrap stored food in cellophane wrap.

● If you spill water or juice from food in the compartment, wipe it off immediately.

● The platinum catalyst does not require replacement. Do not remove it.

Caught

Gasket

Water drops, frost, ice
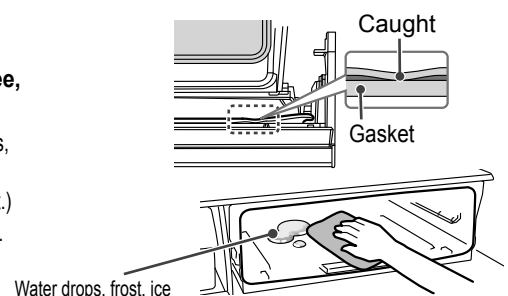
ICE COMPARTMENT (AUTOMATIC ICE MAKER)

Ice Compartment

Water supply tank
(capacity about 1.0 L)
Container full line

Automatic ice maker

Automatic ice maker

Control Panel

Water supply tank indicator lamp

Indicator lamp

Auto Ice On | Ice Maker
Cleaning (Hold 5 Sec.)

Ice Making touch button

Ice Case

Container full line

Ice storage space

Small items storage space

Ice scoop
(return to its holder after use)

Handle

Ice Compartment

Making ice

Perform "Ice Maker Cleaning" when making ice for the first time or for the first time in a week or more. → **Pg.37**

1 Touch MENU to activate the display.

All indicator lamps are activated, and then the current settings are displayed.

2 Touch Ice Maker to activate "Auto Ice On" indicator.

The default setting is "Auto Ice On".

■Control Panel
On   Touch
Auto Ice On | Ice Maker
Cleaning (Hold 5 Sec.)

3 Pull the water supply tank out horizontally.

Handhold

* The water supply tank may feel heavy when you lift and pull it toward you.

4 Open the lid and add water.

Lid

* Do not fill above the "Container full line".

Container full line

5 Replace the water supply tank.

Firmly push it all the way in so that it passes the "Container set position" line.

Firmly push it all the way in

If the water supply tank is not pushed all the way in, it cannot make ice.

* Water may spill out if the water supply tank is tilted. Wipe off any spilled water immediately.

Container set position

6 Ice making starts automatically.

● When the ice reaches the Ice full line of the ice case, the automatic ice making function temporarily stops. When the ice level becomes low, it will restart automatically.
● When there is no ice in the ice case, a loud sound of ice falling from the ice tray may be heard.

Request

● WARNING: fill with potable water only.
● Water for ice making is according to your drinking standard. Quality of tap water may vary in different countries. Please check and verify with your local authority.
● Change water and clean the container at least once a week for hygiene purposes. → **Pg.36**
● If the ice made of mineral water containing a lot of mineral ingredients is put into water, white powder may appear, this is due to mineral ingredients and is harmless.

● These types of water are easily contaminated with bacteria. Please wash the container usually once every 3 days.

○

Mineral water
(Hardness: 100mg/L or less)

Filtered water or boiled water

Well water
(Required to satisfy the appropriate water quality standard)

● Do not use the following beverages as they may cause malfunction, deformation or sticking ice.

✕

JUICE

SPORTS

Tea

Juice drink

Sports drink

Carbonated drink

Tea

Ice storage capacity and time required to make ice

Model		R-GWC670T Type
Ice storage capacity	When the ice is leveled	**Estimated 140 ice cubes**
Time for one cycle of ice making (12 ice cubes)	Normal ice making	**Estimated 110 to 140 minutes**
	"Quick Ice"	**Estimated 80 minutes**

* Approximate time when the ambient temperature is about 30°C, the Freezer Compartment temperature is set to "■■", the Refrigerator Compartment temperature is set to "■■■" [❄ Moist Cool], and the door is not opened/closed.
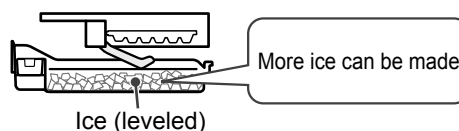
> **Note**

● Ice build-up in one place can stop ice making even when the ice level is low.

Ice touches the detection lever
↓
Ice making stops even when the ice level is low
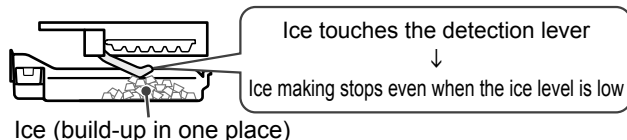
Ice (build-up in one place)

● To make more ice, move the ice to the front and level it off.

More ice can be made

Ice (leveled)

● **It will take extra time to make ice in the following cases.**
  · First time use (it may take 24 hours or more)
  · When the Freezer Compartment temperature is set to "■"
  · When a large amount of food is put into the refrigerator at once
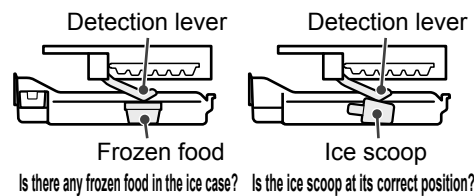 · When the refrigerator is set to "Save Mode"
  · When the doors are opened and closed frequently
  · When the Freezer Compartment or Ice Compartment doors are left partially open
  · When the ambient temperature is low such as in winter
  · When there is a power outage

> **Note**

● When "Auto Ice On" or "Quick Ice" is set, do not put anything other than ice made by the automatic ice maker in the ice storage space, such as frozen foods or the ice scoop. It will not be possible to make ice. (It may prevent the ice from forming as parts of the ice maker may be obstructed by the food obstructing.)
● Open and close the door of the Ice Compartment slowly.
 If you open or close it vigorously, ice may spill from the ice case and fall into the Lower Freezer.

Detection lever   Detection lever

Frozen food   Ice scoop

Is there any frozen food in the ice case?   Is the ice scoop at its correct position?

Quick Ice Making

1 Touch [MENU] to activate the display.

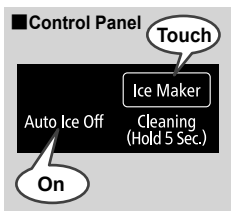All indicator lamps are activated, and then the current settings are displayed.

2 Touch [Ice Maker] to activate "Quick Ice" indicator.

You can make ice in a shorter time than normal ice making. 12 ice cubes are made by one ice-making operation.

"Quick Ice" finishes in about 7 hours, and the ice maker switches back to "Auto Ice On".

■Control Panel

Touch

Quick Ice

Ice Maker

Cleaning (Hold 5 Sec.)

On
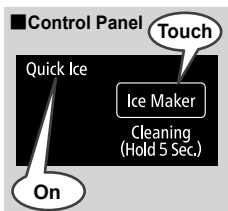
> **Note** ● While "Quick Ice" is operating, the "Quick Ice" display continues to light. Also, the "Eco operation indicator lamp" does not light up.

● While "Quick Ice Making" is operating, cooling for the freezer compartment is given priority, so the temperature of the refrigerator compartment is likely to increase when the doors are opened and closed frequently.

Water supply indicator

When the water level is low in the water supply tank, the [💧] indicator lits. Add water to the water supply tank.

When the left door of the refrigerator compartment is opened or closed, the [💧] indicator turns off once. It lights up again if water is not added. (Up to 3 hours later)

> **Note**

● The [💧] indicator does not light when the automatic ice maker is "Auto Ice Off".
● If there is water in the water supply tank but the water supply tank is not pushed in firmly, the [💧] indicator will light up. Push in the water supply tank so that it passes the "Container set position" line.
● Even when "Auto Ice On" is activated, the [💧] indicator may not light when the Ice Case is full.

Stop Ice Making

1 Touch [MENU] to activate the display.

All indicator lamps are activated, and then the current settings are displayed.

2 Touch [Ice Maker] to activate "Auto Ice Off" indicator.

The ice maker stops automatic ice making and does not make ice.

* If you want to stop ice making for one week or longer, please clean the automatic ice maker.

■Control Panel

Touch

Ice Maker

Auto Ice Off   Cleaning (Hold 5 Sec.)

On

> **Note** While "Auto Ice Off" is set, the "Auto Ice Off" display continues to light.

When "Auto Ice On" or [Freezer] "■■■/■" and [Refrigerator] "■" are blinking

The ice tray may be touching food in the ice case.
Empty the ice case and perform "Ice Maker Cleaning".

■Control Panel

Blinking

Auto Ice On   Ice Maker

Cleaning (Hold 5 Sec.)

or

Blinking   Refrigerator

Blinking   Freezer
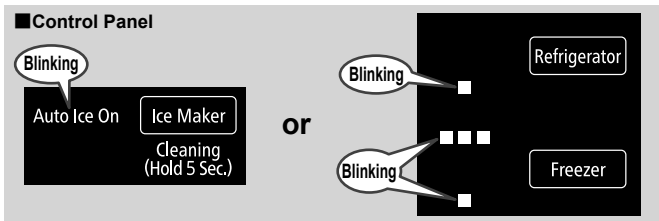
Small items storage space

Store foods according to those types and sizes.
Use the upper edge of the case as a guide for the height of the foods to be stored.
Store foods so that those do not touch the partition.

Otherwise, the door may not close properly, and the refrigerator may not be cooling enough. Furthermore, the stored food and the case may be damaged.

| Items to be stored | Ice pack, coffee beans and tea-leaves, etc. |

Partition

Ice Compartment Door
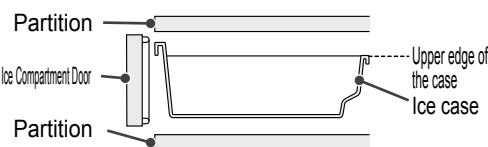
Partition

Upper edge of the case
Ice case

> **Note** ● If you put a warm item such as hot food in the storage space, the ice in the ice storage space may melt and/or it may take a long time to make ice.
● If too many ices are stored, ices may drop from the small items storage space and those may fall down to the Lower Freezer.
● If you feel the refrigerator is not cooling enough in the hot season such as summer, set the Freezer Compartment temperature setting to "■■■".

FREEZER COMPARTMENT

Upper Freezer
Lower Freezer

Upper Freezer
Use to keep daily foods or partially used foods.

Upper Freezer case

Handle
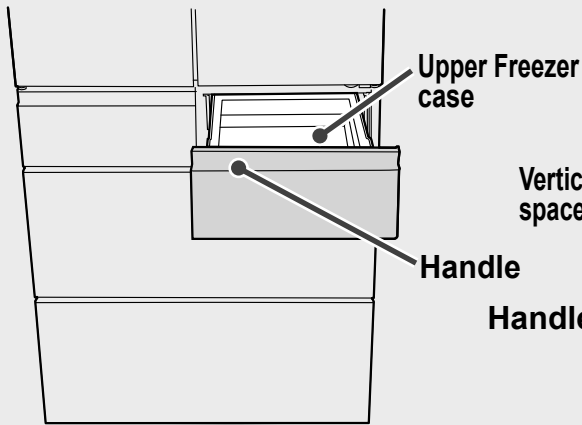
Lower Freezer
The 3-layer case provides you with plenty of storage space and allows you to organize your food easily.
Suitable for storing foods that you store a lot of and ice cream that melts easily.

Handle

Vertical storage space

Handle

Slimline slide case
(Delicious Freezing space)
* With large aluminum tray

Slide Case

Lower freezer case
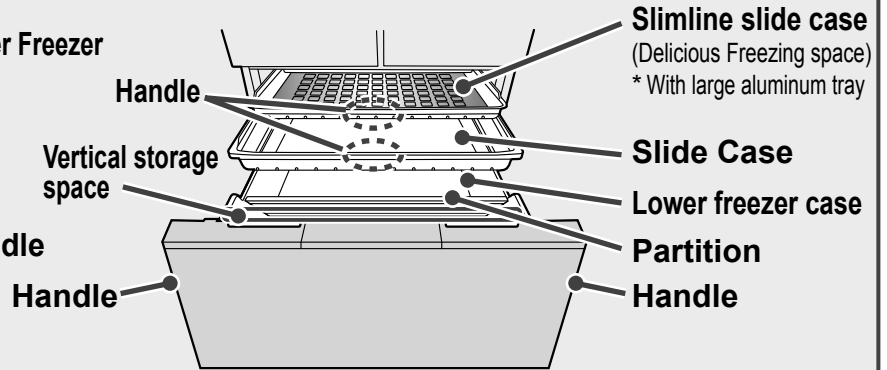
Partition

Handle

Caution
● The slimline slide case and the partition cannot be removed.
● When using the Slimline slide case and the Slide Case, hold the handle. Otherwise, your finger is caught in and it may result in injury.
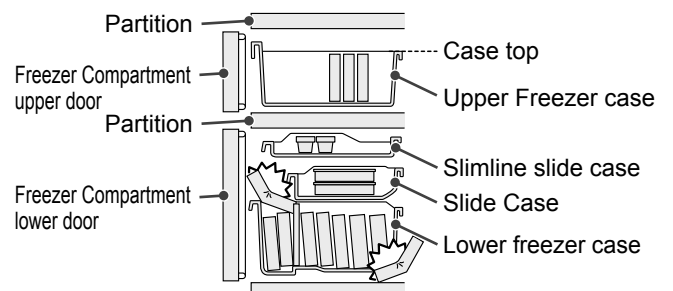
Stored food

Upper Freezer		Freezer bags, airtight containers, bread, etc.
Lower Freezer	Slimline slide case	Small frozen food items, etc. (Delicious Freezing space) To quickly freeze meat, fish and steamed rice
	Slide Case	Freezer bags, airtight containers, etc.
	Lower freezer case	Frozen food, ice cream, etc. (Vertical storage space) Plastic bottles designed to be used in freezers, etc

Food can be stored according to different type and sizes with the lower and upper freezer cases. Stored food should not touch the upper cases or partitions.

The doors may not close properly and the refrigerator may not cool properly. The food or the cases may also be damaged.

Caution

● **Do not put plastic bottles in the slimline slide case. If the plastic bottle freezes, it will expand and it will be impossible to take it out.**
● Do not use the freezer with the Slide Case removed. Food may fall into the back of the case and the door may not close.
● Do not use containers not designed to be used in freezers.

Partition

Freezer Compartment upper door

Partition

Freezer Compartment lower door

Case top

Upper Freezer case

Slimline slide case

Slide Case

Lower freezer case

Using "Delicious Freezing"

Combined with the effect of the large aluminum tray, "Delicious Freezing" freezes food more quickly. Simply put the food in the Delicious Freezing space and the sensor will detect the temperature of the food and automatically switch the cooling operation.

Wrap the food in cellophane wrap or put it in a freezer bag and place it on the large aluminum tray. It is convenient to cut food into small, thin pieces. This will make it freeze to the center more quickly and also makes it easier to take out of the freezer.

Delicious Freezing space
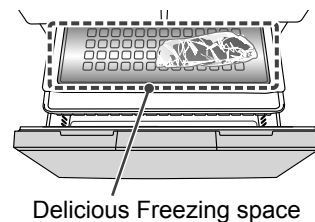
> **Note**
>
You can freeze food more efficiently if you lay it out on the large aluminum tray rather than stacking it.

Adjusting the temperature (Freezer Compartment)

1 Touch [MENU] to activate the display.
All indicator lamps are activated, and then the current settings are displayed.

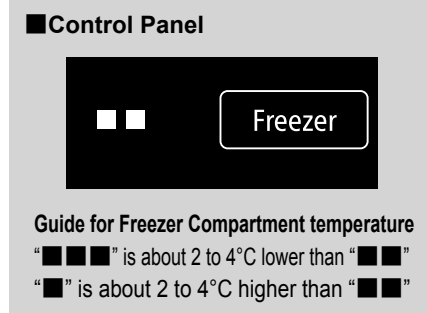**2** Touch [Freezer] to adjust the Freezer Compartment temperature.

The default setting is "■■". Select "■■" for ordinary usage.
Select "■■■" if you need additional cooling, such as in the summer.

> **Request**
>
If you feel that the refrigerator is too cold, use "■■" or "■".

> **Note**
>
● The temperature of the refrigerator will vary slightly depending on the operating conditions.
● You can also fine-tune the temperature. → **Pg.32**
● Seeing the freezer to "■■■" consumes more power than the "■■" setting.
● Changing the freezer temperature setting also changes the Ice Compartment temperature.

■**Control Panel**

■ ■   Freezer

Guide for Freezer Compartment temperature
"■■■" is about 2 to 4°C lower than "■■"
"■" is about 2 to 4°C higher than "■■"

VEGETABLE COMPARTMENT

Vegetable Compartment
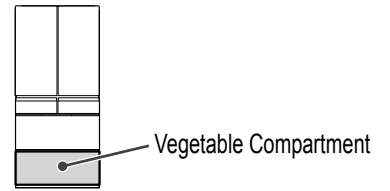
Handle

Moisture unit
* Do not remove.

Upper case

Vertical storage space

Upper space

Partition
* Cannot be removed

Lower case

Handle

Handle

Vegetable Compartment door

Partition

**Lower space
(Aero-care Zone)**

Platinum catalyst The platinum catalyst breaks down the odor component of food and ethylene gas from vegetables and converts it to carbon dioxide. This helps to keep food fresh. The platinum catalyst does not require replacement. Do not remove it.

Request   When using the upper case, hold the handle. Otherwise, your finger is caught in and it may result in injury.
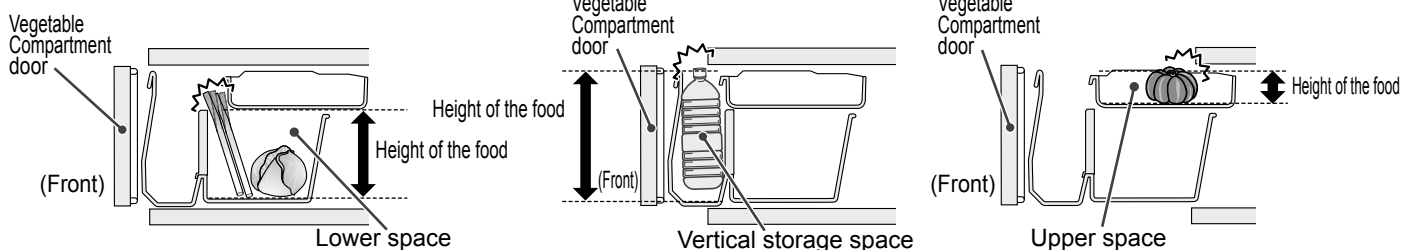
Stored food

Upper space	Partially used vegetables and small vegetables (tomatoes, bell peppers, etc.), fruits (strawberries, grapefruits, etc.)
Lower space	Leafy vegetables (spinach, Komatsuna (Brassica rapa), etc.), large vegetables (cabbage, lettuce, etc.)
Vertical storage space	Long vegetables (cucumbers, asparagus, etc.), 2 L plastic bottles, etc.

Store food according to its type and size.

● **Pay attention to the height of the food you store.**
　・The doors may not close properly and the refrigerator may not cool properly. The food or the cases may also be damaged.
　・Some food and bottles may not be possible to store within the compartment due to its size.
● **Do not use the Vegetable Compartment with the upper case removed.**
　・Food may fall into the back of the case and the door may not close.
● **Do not force food or beverages into the Vegetable Compartment.**
　・The partition or the cases may be damaged.

Guide to height

Vegetable Compartment door

(Front)

Height of the food

Height of the food

Lower space

Vegetable Compartment door

(Front)

Vertical storage space

Vegetable Compartment door

(Front)

Height of the food

Upper space

Adjusting the Temperature of the Vegetable Compartment (Using "Vege Cool" mode)

1 **Touch [MENU] to activate the display.**

All indicator lamps are activated, and then the current settings are displayed.

2 **The default setting is "Off".**

Touch [Cooling] to activate "Vege Cool" indicator.

The refrigerator will cool at a lower temperature than usual. (Normally about 4 to 8°C → "Vege Cool" about 2 to 6°C)

＊The temperature assumes an ambient temperature of approx. 32°C around the refrigerator, the refrigerator and freezer compartments set to "■■", no food inside, the doors closed, and a stable temperature.

Note For energy saving, the display will be turned off after about 40 seconds, but the setting remains active until it is canceled. Meanwhile, note that while the "Vege Cool" is active, the ["Eco" Operation indicator lamp] does not light.
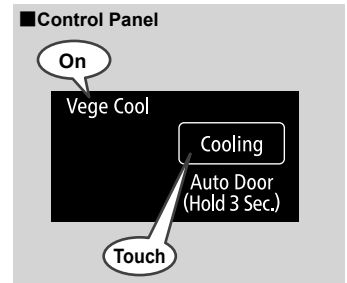
Cancel **Touch [MENU] to activate the display, then touch [Cooling] to deactivate "Vege Cool" indicator.**

■**Control Panel**

On

Vege Cool

Cooling

Auto Door
(Hold 3 Sec.)

Touch

Note

● If you use "Vege Cool" for a long time, vegetables with high water content may freeze. In this case, cancel the "Vege Cool" setting.
● If "Energy Saving" mode is set while "Vege Cool" is set, cooling is reduced starting from "Vege Cool".
● When the outside temperature is low, the temperature inside the case may also be low.

Request

In the following cases, cancel the "Vege Cool" setting.
● If the surface of vegetables that are sensitive to low temperatures, such as eggplant, has dents or discoloration.
● If you are concerned about condensation in the Vegetable Compartment.

Tips for storing vegetables

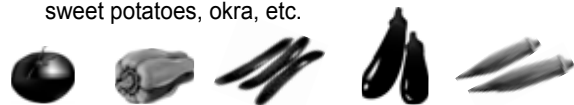■ **Vegetables recommended for storage at room temperature**

● It is recommended to store garlic, onions, potatoes, sweet potatoes and pumpkins (whole) in a cool dark place (where the room temperature is kept constant and low and away from direct sunlight).

■ **Foods prone to low temperature damage**

If you put food in the Vegetable Compartment for a long time, the color may change or the taste may deteriorate depending on the food. Also, the food can lose vitamin C, become moldy, and begin to rot.

● Vegetables⋯tomatoes, bell peppers, cucumbers, eggplants, green beans, sweet potatoes, okra, etc.

● Fruits⋯bananas, pineapples, mangoes, papayas, avocados, lemons, etc.

What to do in the following cases

You can enjoy a delicious taste if you chill these fruits in the refrigerator for a short time before eating.

● When you are storing a small quantity of vegetables, it may not be possible to maintain high humidity, so please wrap the vegetables in cellophane wrap.
● Due to the high humidity in the Vegetable Compartment, depending on the amount and type of vegetables, condensation may form on the case, the surface of the moisture unit, or the surface of food. If you are concerned about condensation, wrap the food in cellophane wrap.
● If the moisture unit is blocked by a food bag or container, a large amount of condensation will occur. Move the food bag or container blocking the moisture unit to another location.
● Food can easily get damaged if water collects in the case so wipe off the dew condensation with a soft cloth.
● When storing dry food such as rice or seaweed in the Vegetable Compartment, put it in a closed container (bag) before storing. Dried food may absorb moisture.

Note

The vertical storage space has a slightly higher temperature than other spaces.

VEGETABLE COMPARTMENT

VARIOUS FUNCTIONS

Further temperature adjustments (Refrigerator/Freezer)

The temperature settings of the Refrigerator Compartment and the Freezer Compartment can be further adjusted in 11 levels.

1 **Touch MENU to activate the display.**

All indicator lamps are activated, and then the current settings are displayed.

2 **Touch and hold Refrigerator for 3 seconds or longer until you hear a long beep.**
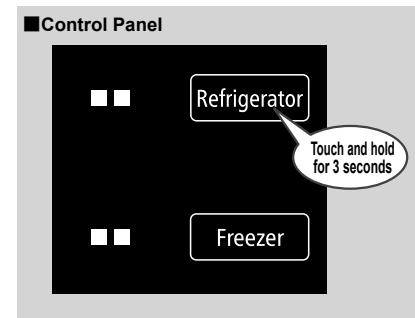
3 **Touch Refrigerator or Freezer to adjust each compartment.**

Each time you touch it, the display changes in order as shown below.
Select "■■" for ordinary usage.

(□ : lit, ▦ : blinking, ■ : unlit)

Display											
Settings	Lower	Low	➡	➡	➡	Medium	➡	➡	➡	High	Higher

■Control Panel

Refrigerator — Touch and hold for 3 seconds

Freezer

Release

Perform steps 1 and 2.

Two short beeps will be heard, and normal adjustment (3 levels) will be restored.

Locking the Control Panel

By disabling the Control Panel, you can prevent accidental operation or misuse by children.
When the 🔒 display is lit, you cannot change the settings even if you touch the control panel.

1 **Touch MENU to activate the display.**

All indicator lamps are activated, and then the current settings are displayed.

2 **Touch and hold Vacuum for 3 seconds or longer until the setting sound is heard.**

The Control Panel lock switches "On" or "Off".
The default setting of the Control Panel lock is "Off" (🔒 off).

Control Panel lock settings	"On" (locked)	"Off" (unlocked)
🔒	On	Off
Setting sound	Long beep	Two short beeps

Note

● **Even if locking the Control Panel, it is not possible to deactivate the function on the Auto Drawer.** When you would like to deactivate the function on the Auto Drawer, touch and hold Cooling for 3 seconds or longer until the setting sound (two short beeps) is heard after unlocked the Control Panel.

● The Control Panel lock may be released after the power plug is disconnected and reconnected, or after operation restarts following a power outage.

● The display turns off after about 40 seconds to save power, but the setting continues until you cancel it.

Door alarm

If you open one of the doors for 1 minute or more, a sound and light will inform you that the door is open.

The door alarm function works with the Refrigerator Compartment, Ice Compartment, Lower Freezer Compartment and Vegetable Compartment. (It does not work with the Upper Freezer Compartment.)

Door opening time	After 1 minute	After 2 minutes	After 3 minutes or more
Alarm sound	Loud beep (3 times)	Loud beep (5 times)	Long beep (continuous),Louder
Display Section	Blinking	Blinking	Blinking
Operation Section	On	On	On

> **Note**
> ● The Door Alarm will start in 30 secs if Energy Saving mode is activated. However, the display blinks after 1 minute.
> ● When the display is blinking, the Operation Section will not respond to touches. Close the door before operating the Control Panel.

Volume adjustment of door alarm and operation sound

You can make the door alarm and operation sounds louder, or you can set them to not sound.

1 **Touch** MENU **to activate the display.**

All indicator lamps are activated, and then the current settings are displayed.

2 **Touch and hold** Freezer **for 3 seconds or longer until you hear the set sound.**

The operation sound volume can be switched to "Standard", "Loud", or "Off". Repeatedly change the setting to choose the volume level you prefer (see table below). The default setting is "Standard".

Volume	Standard	Loud	Off	Standard
Setting sound	— ➡	Two long beeps ➡	Long beep ➡	Two short beeps

(Default)

> **Note**
> ● It is not possible to adjust the door alarm and the operation sound to different volume levels.
> ● If you set the volume level to "Off", the indicator lamp on the Control Panel to inform the door is open will also not blink.
> ● Even if the volume is set to "Off", the "Ice Maker Cleaning" alarm will sound.
> In addition, if you press and hold the button for 3 seconds or longer, a beep sound is heard after doing it. ➡ **Pg.37**
> ● The setting returns to "Standard" after the power plug is disconnected and reconnected, or after operation restarts following a power outage.

Triple power deodorizing effect (Refrigerator Compartment)

Deodorizes various odors in the refrigerator including the four major odors of sulfur, nitrogen, aldehyde, and acid, by combining three types of deodorizing materials.

SAVING ENERGY

"Eco" operation indicator lamp

When the operation is relatively stable, 🍃 automatically lights up to inform you of energy saving operation. Use this indicator lamp as a reference for using the refrigerator wisely, such as by opening and closing the doors infrequently and putting food in and taking it out quickly.

Note **If 🍃 does not light, the following reasons are possible.**

・The refrigerator has just been installed or many foods have been stored at once

・The doors have been opened and closed frequently

・Food or a bag is stuck in a door so that it cannot close completely

・"Quick Ice" or "Quick Cool" is activated

・The temperature around the refrigerator is approx. 35°C or higher

"Energy Saving" mode

When set to "Energy Saving" mode, the cooling of each compartment is reduced to save energy.

If you open the refrigerator door for 30 seconds or more, the LED lights inside the Refrigerator Compartment and the Vacuum Compartment dim to remind you to close the door quickly. If the doors are not opened for a long period of time, **the interior is cooled more slowly to further reduce energy consumption.**

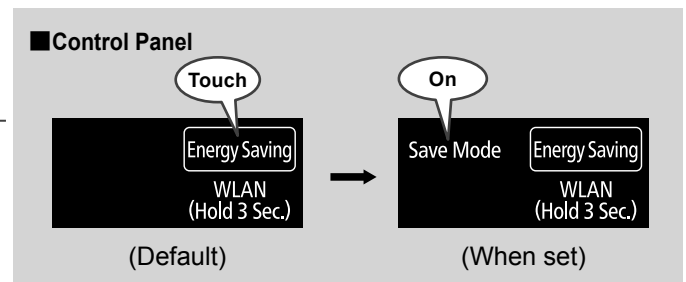### To activate "Energy Saving" mode

1 **Touch MENU to activate the display.**

All indicator lamps are activated, and then the current settings are displayed.

2 The default setting for "Energy Saving" mode is "Off" ("Save Mode" indicator: Off).

Touch Energy Saving to activate "Save Mode" indicator.

■Control Panel

Touch → On

Energy Saving
WLAN
(Hold 3 Sec.)
(Default)

→

Save Mode | Energy Saving
WLAN
(Hold 3 Sec.)
(When set)

To deactivate "Energy Saving" mode

1 **Touch MENU to activate the display.**

All indicator lamps are activated, and then the current settings are displayed.

2 **Touch Energy Saving to deactivate "Save Mode" indicator.**

Note

● **Automatic temperature control lowers cooling loads, which may cause ice cream to become soft. It also requires more time for freezing and ice making.**

● The "Save Mode" indicator lamp is turned on during "Energy Saving" mode.

● If "Quick Ice" or "Quick Cool" is activated while "Save Mode" is activated, the "Save Mode" setting is temporarily canceled. After the "Quick Ice" or "Quick Cool" operations are completed, "Save Mode" is restored.

● If you have already set one or both of the "Freezer Compartment" and "Refrigerator Compartment" temperature to "■", cooling is not reduced further in order to ensure that food is kept fresh.

● If "Energy Saving" mode is activated while "Vege Cool" is activated, cooling is reduced starting from "Vege Cool".

MAINTENANCE

> ⚠️ **WARNING** | Be sure to remove the power plug from the outlet before cleaning.

■ If you notice dirt

Wipe it off immediately. It is also recommended to clean once a year.

Power plug `Once or twice a year`

Unplug the power plug from the outlet and remove any dust with a dry cloth.

To prevent fire or electric shock **→ Pg.4**

Door surfaces `Once a month`
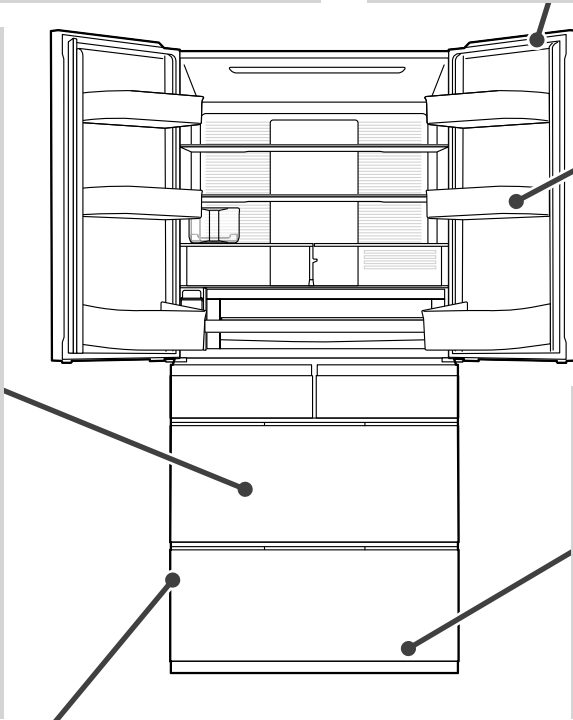
Clean with a soft cloth moistened with warm water to remove stains, and then wipe with a dry cloth.

If you find tape glue on the glass surfaces, you can remove it by rubbing it with a plastic eraser and wiping it with a dry cloth.

Door gasket `Once a month`

Clean with a soft cloth moistened with warm water to remove dirt.

This area is easily soiled, so wipe the dirt off thoroughly.

Shelves/ Pockets `Once every 3 months`

Clean with a soft cloth moistened with warm water to remove dirt.
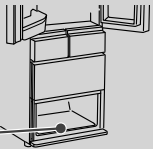
How to remove **→ Pg.38**

Liquid receiver `Once a month`

Clean with a soft cloth moistened with warm water to remove dirt.

If liquid has collected or the liquid receiver has become dirty, wipe it off.

Liquid receiver

Refrigerator back/sides/bottom `Once or twice a year`

Remove the leg cover, lift the adjustable mounts from the floor, pull the refrigerator toward you, and wipe off the dirt.

How to remove **→ Pg.8**

Plastic parts (left and right)
*Do not remove the plastic parts.

● Fine dust tends to adhere to the back surface or the area around the plastic parts on the sides of the refrigerator at the bottom due to the convection of air and it becomes dirty easily. For floors that can easily be scratched, put down a protective board or similar.

● If you are concerned about vibration noise or the back wall becoming discolored or dirty due to moisture, install the refrigerator **2 cm or more** away from the back wall.
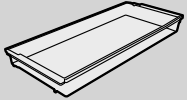
Cases `Once every 3 months`

Clean with a soft cloth moistened with warm water to remove dirt.

If you wash the Vegetable Compartment lower case with water, turn it over to drain the water, then wipe off the water thoroughly. Do not use long-haired items such as a toothbrush or scrubbing brush. They may scratch the cases or break the moisture unit.
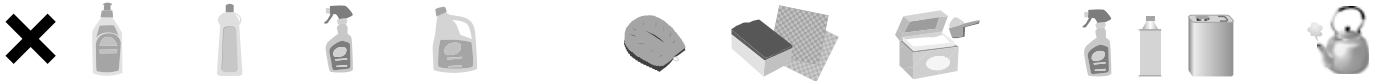
How to remove **→ Pg.39**

* Do not wash the platinum catalyst with water.

Request

● Do not use any of the following as they may damage or discolor the doors, painted surfaces, plastic, or glass surfaces.

❌

| Alkaline, weak alkaline kitchen detergents (other than neutral), glass cleaners, chlorine bleach | Scourer, polishing sponge, chemical cloth | Polishing powder, soap powder | Benzine, thinner, alcohol | Hot water |

Check the "Liquidity" column of the "Labeling based on the Household Goods Quality Labeling Act" for detergents.

● If you spill edible oil, citrus juice, or food juice on any parts of the refrigerator, be sure to wipe it off. The parts may become discolored or crack.
● Do not wipe the movable contact surfaces of the cases and slide door rails, as they are coated with lubricant.
● If you attach a magnet or suction cup to the side of the main body or to a door, it may leave a mark.
● When the power plug is unplugged, the settings on the Control Panel may be canceled. Set them again according to your preference.
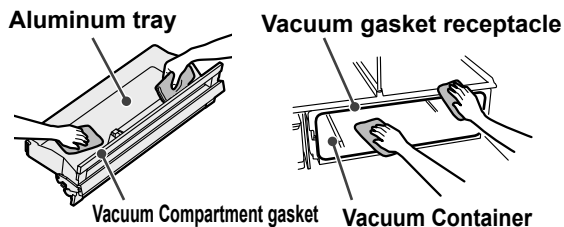
SAVING ENERGY

MAINTENANCE

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MAINTENANCE (Continued)

Vacuum Compartment [Once a month]

1 **Pull the Vacuum Case forward.**
How to remove ➡ **Pg.38**
Please remove the food stored in the Vacuum Case.

2 **Wipe each part with a soft cloth moistened with warm water.**
* Do not use detergent, etc.

Aluminum tray   Vacuum gasket receptacle

Vacuum Compartment gasket   Vacuum Container

Request
● Gently wipe the inside top of the compartment (LED lamp inside the compartment). Wiping with excessive force may cause breakage.
● If you use detergent, etc., the Vacuum Compartment gasket may break, deform, or become discolored, and may not be able to maintain a vacuum state.

3 **Attach the Vacuum Compartment.**
How to attach ➡ **Pg.38**

If the Vacuum Compartment gasket is loose or the Vacuum Compartment rattles, the vacuum cannot be maintained.

If the Vacuum Compartment gasket is extremely dirty

1 **Rinse the dirty area with a soft sponge.**
* Do not use detergent, etc.

**2** **Wipe off the moisture with a dry cloth and allow it to air dry.**

Auto Drawer

When a food is dropped/trapped and/or food juice collects on the upper part of the Auto Drawer unit, please take care of those.

⚠ WARNING

Be sure to remove the power plug from the outlet to prevent injury.

1 **Be sure to remove the power plug from the outlet.**

2 **Remove each case of the Lower Freezer or the Vegetable Compartment.** ➡ **Pg.39**

3 **Remove the dropped or trapped food, etc.**

4 **Wipe the collected food juice with soft and dry cloth.**

Linkage part
Auto Drawer unit
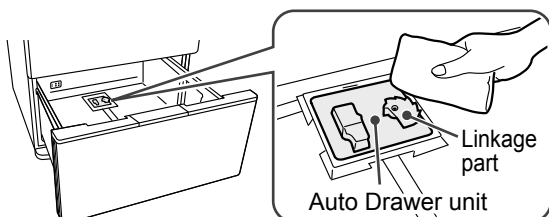
Note
● Do not splash water on the Auto Drawer unit. It may cause a malfunction.
● Do not disassemble the Auto Drawer unit. It may cause an injury or malfunction.
● Be sure not to move the linkage part. It may cause a malfunction.

Water Supply Tank [Once a week]

1 **Take out the water supply tank and remove the lid.**

[1] Tilt the lid in the direction of the arrow.
[2] Lift the front side of the lid.

Front side   Rear side

Lid
Gasket
Case
Water filter
Water supply tank
Rear side
Front side

2 **Remove the gasket and case from the lid.**
Pull the case to remove it from the lid.

3 **Remove the water filter from the case.**
Pull the knob of the water filter to remove it from the fork, and remove the case.

Knob
Fork

4 **Wash each part of the water supply tank with water.**
Use a soft sponge. Do not use detergent, etc.

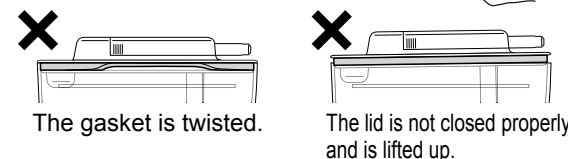※ Do not use a sponge when washing the filter part of the water filter. Wash it out with water gently.

Filter

Note   The water filter should be replaced about every 3 to 4 years. ➡ **Pg.50**

5 **Attach each part of the water supply tank, add water, and position it in place.**

Insert the lid and case so that the protrusions are aligned.

Protrusions

Insert the lid from the rear side and close it in the direction of the arrow.

Front side   Rear side

○

✕ The gasket is twisted.

✕ The lid is not closed properly and is lifted up.

Request

If you will not be using the automatic ice maker for a long time, after cleaning the water supply tank, dry it carefully and position it in place. (It is especially important to dry the water filter thoroughly.)
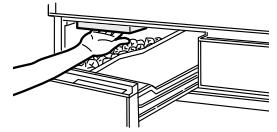
Ice maker cleaning

⚠ WARNING	Do not touch the mechanical part of the automatic ice maker. (Doing so may cause injury.)

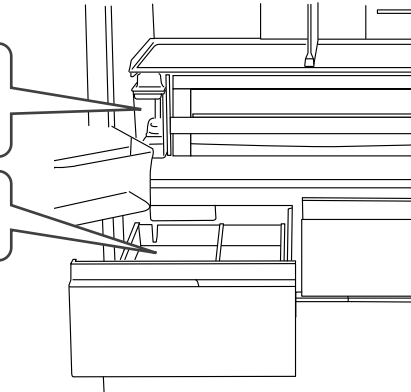**Rinse the ice tray and water channel.**

Preparation

Before operating performing "Ice Maker Cleaning", confirm the following.

Water supply tank
• There is water up to the container full line.
• It is positioned correctly past the container set position.

Ice case
• If there is any ice in the ice case, remove it.

After checking the items on the left, do the following.

---

1 **Close all the doors.**

---

2 **Touch** MENU **to activate the display.**

All indicator lamps are activated, and then the current settings are displayed.

---

3 **Touch and hold** Ice Maker **for 5 seconds or longer until the alarm sounds.**

The three indicators "Quick Ice", "Auto Ice On", and "Auto Ice Off" blink at the same time, and "Ice Maker Cleaning" starts. (About 4 minutes)

• The lamp blinks for about 4 minutes and the alarm continues to sound.
• You cannot cancel "Ice maker cleaning" partway through.
• If you open one of the refrigerator doors during "Ice maker cleaning", it may not work properly.
  Do not open or close any of the doors until "Ice maker cleaning" is finished.
• The alarm will be activated even if the door alarm is set to "Off". → **Pg.33**

■**Control Panel**

Touch and hold for 5 seconds

Quick Ice
Auto Ice On   Ice Maker
Auto Ice Off   Cleaning (Hold 5 Sec.)

Blinking

---
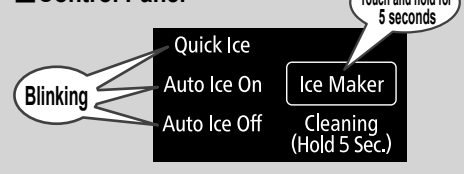
4 **When the alarm stops, lay a clean towel on the bottom of the Ice Case to block the cutout at the rear.**

Place a water-absorbing towel on the bottom of the Ice Case to prevent water that has collected during the ice maker cleaning process from spilling out of the cutout.
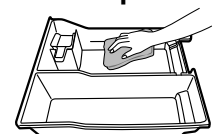
Towel   Cutout

---
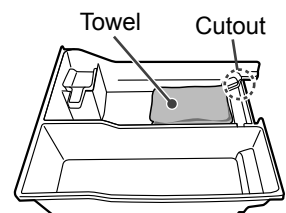
5 **Remove the Ice Case, wipe off the water inside, and then place it into the Ice Compartment.**

Remove the towel you used to wipe off water.
You may continue to use the remaining water in the water supply tank.
After "Ice Maker Cleaning" is complete, the refrigerator resumes back to "Auto Ice On".

MAINTENANCE

HOW TO REMOVE/ATTACH PARTS

Caution
- Before removing parts, remove any food inside.
- Do not remove parts except the ones listed here.
  Please contact a Hitachi customer service center if you wish to remove and clean such parts. **➔ Pg.52**
- Do not remove the platinum catalysts in the Vacuum Compartment and Vegetable Compartment. Also, do not wash them with water.
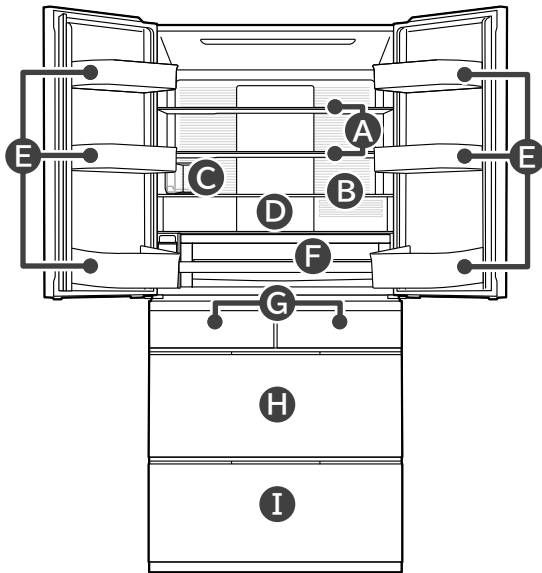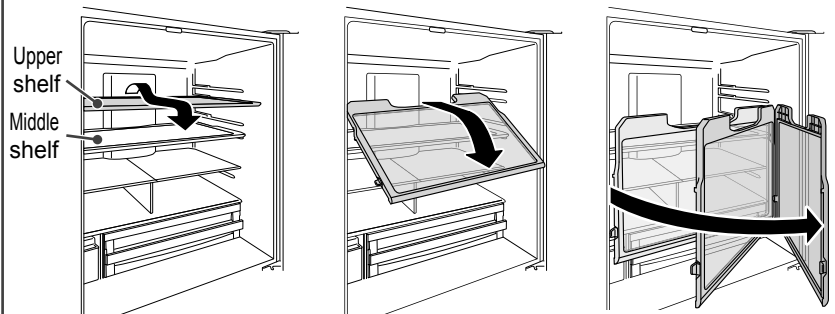
Ⓐ Height adjustable upper and middle shelf

Request
To remove the shelves, remove the upper shelves first, then remove the lower shelves.
To attach the shelves, attach the lower shelves first.

1 Lift the back of the shelf a little and pull it toward you.

2 Raise the shelf as shown in the drawing.

3 Rotate and remove it.
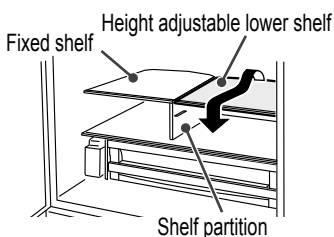
Upper shelf
Middle shelf

Caution
The glass shelves are heavy. Take care when removing/attaching them. If a shelf falls, you may be injured or the shelf may break.
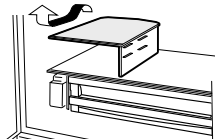
Ⓑ Height adjustable lower shelf

Lift up the whole shelf a little and remove it.

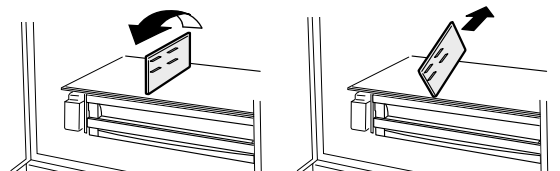Fixed shelf
Height adjustable lower shelf
Shelf partition

Ⓒ Fixed shelf

First remove the height adjustable lower shelf, and while holding the shelf partition, lift the back of the shelf a little and pull it toward you.

Ⓓ Shelf partition

1 Hold the back and rotate it toward you.

2 Remove it while pushing it inward.

Ⓔ Door pockets

Gently tap the left and right sides at the bottom and lift to remove.
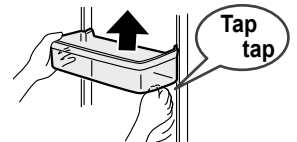(The door pockets are fixed firmly)

Caution
When attaching, attach them firmly as far as they will go. If they are not attached properly, they may come off and fall, resulting in injury.
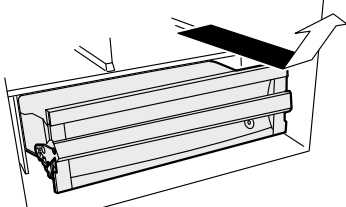
Note
The door pockets can be attached on either the left or right door.
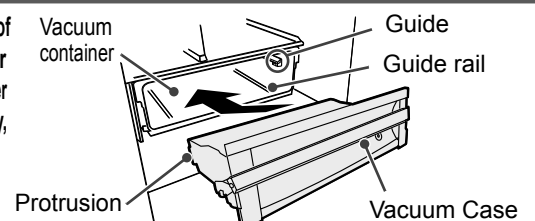
Tap tap

Ⓕ Vacuum Case

How to remove

Pull out the Vacuum Case, lift the front lightly and pull it diagonally upward.

How to attach

Slide the left and right protrusions of the Vacuum Compartment under the guide rails of the vacuum container while pulling up the handle. Finally, lower the handle to lock.

Vacuum container
Guide
Guide rail
Protrusion
Vacuum Case

Request
Make sure that the Vacuum Case is correctly attached by moving it in and out several times after attachment.

G Ice Case (Ice Compartment) and Upper Freezer case (Upper Freezer)

**Open the door and lift the case toward you.**

When attaching, place the bottom of the case on the frame to set it in place.

Bottom of case

Frame
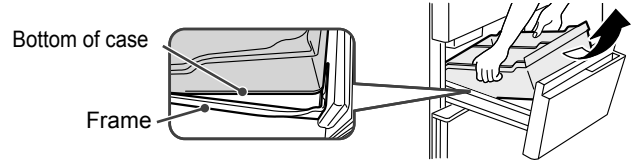
H Slide Case and Lower freezer case (Lower Freezer)

1 Open the door and pull out the Slide Case.

**Caution** The Slimline slide case cannot be removed.

Slimline slide case

Fork (left and right)

Protrusion (left and right)

Slide Case

Rectangular hole in frame
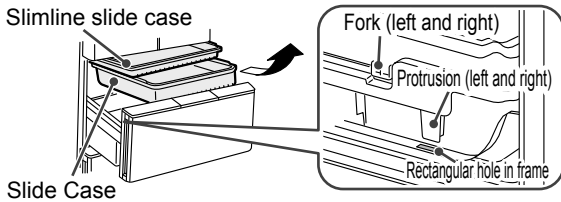
When attaching, insert the left and right protrusions of the large item case into the rectangular holes of the frame and set it in place.
Then, set the left and right forks of the Slide Case in place on the outside of the Lower freezer case.

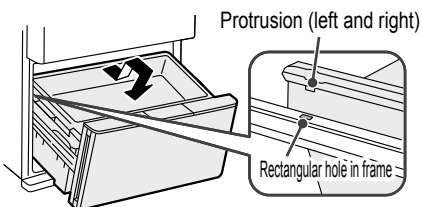**2 Lift the Lower freezer case toward you.**

Caution The partition cannot be removed.

Lower freezer case

Frame

REAR

Rear

Slide Case

Front
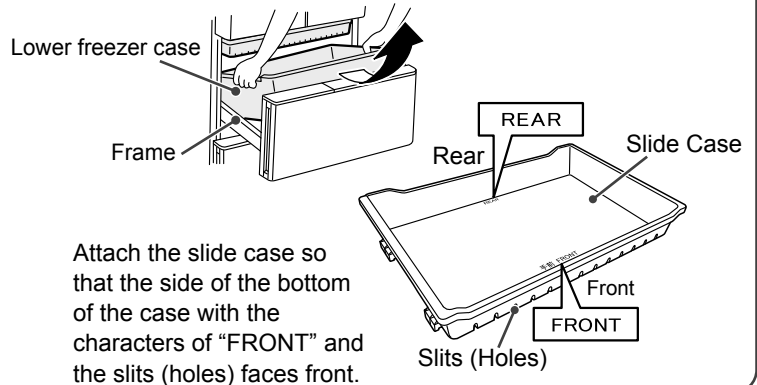
FRONT

Slits (Holes)

Attach the slide case so that the side of the bottom of the case with the characters of "FRONT" and the slits (holes) faces front.

I Upper Case and Lower Case (Vegetable Compartment)

1 Open the door as far as it will go, lift both ends toward you, pull it out more slowly, and lower it to the floor.

Protrusion (left and right)

Rectangular hole in frame

2 Pull up the upper case.

Upper case

3 Lift the lower case straight up and remove it from the front side.

Caution The partition cannot be removed.

Lower case

Rear

REAR

Front

FRONT

upper case

Caution
● Be sure to keep your feet far enough away when opening the door. You may pinch your foot with the door.
● Note that water may drip from the back of the lower case.
● If it is hard to remove the lower case, remove the case after removing the Vegetable Compartment door from the main body of the refrigerator.
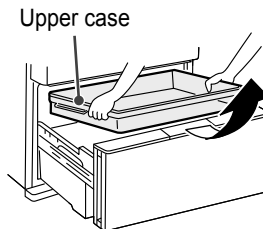
Attach the upper case so that the side of the bottom of the case with the characters of "FRONT" faces front.

Note
● **If the upper case is not attached correctly, parts such as the case may break.**
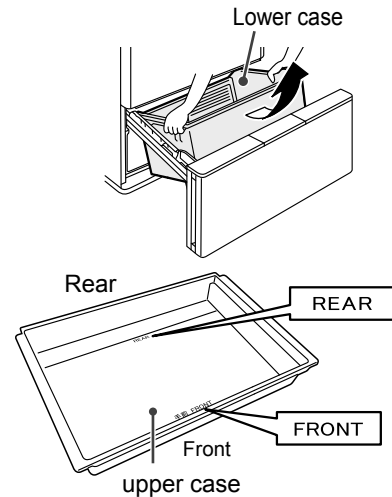After attaching the upper case, hold the handle of the upper case to slide the upper case forward and backward, and check the upper case is attached correctly.
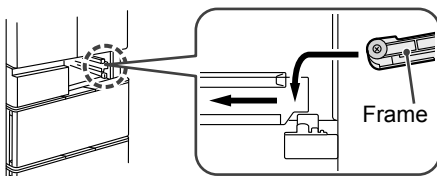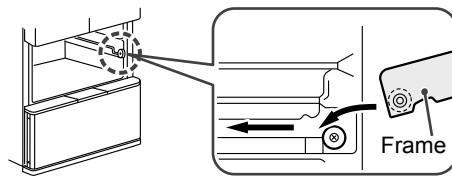
How to remove/attach the slide door (Ice Compartment/Upper Freezer/Lower Freezer/Vegetable Compartment)

Ice Compartment/Upper Freezer

Frame

Lower Freezer/Vegetable Compartment

Frame
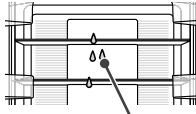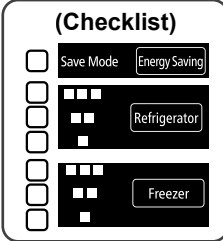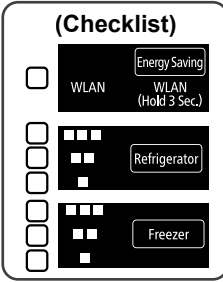
TROUBLESHOOTING
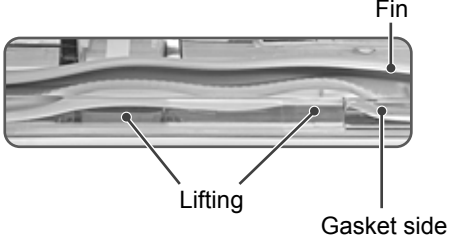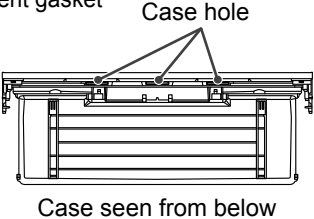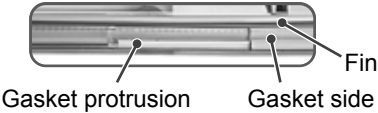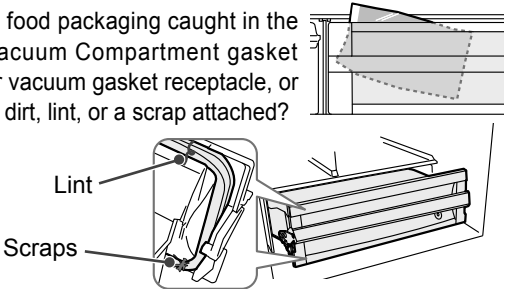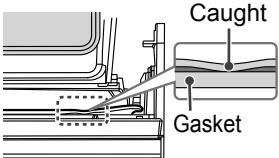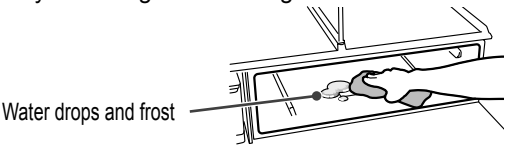
Check the following points before calling for repair. If the refrigerator still does not work correctly, contact a Hitachi customer service center for product information and handling of the problem. ➜ **Pg.52**

	Symptoms	Checks	Possible Cause
Initial stage	**Not cold**	Have 24 hours passed since the installation?	Cooling may take 24hours or more. Place food at interval time and refrain from opening and closing the door within 24hours. Cooling will take a longer time during summer or when large amount of food is stored.
	There is no ice	Have 24 hours passed since the installation?	As the entire refrigerator is not cooled immediately after installation, it takes more than 24 hours for the first ice to be made. Place food at appropriate intervals, refrain from opening and closing the doors as much as possible, and wait.
Control Panel	**Control Panel is not working**	Is 🔒 lit in the Display Section? If yes, the Operation mode is locked.	Deactivate "Lock" mode. ➜ **Pg.32**
		Is a Refrigerator Compartment door open?	Please close the door after use.
		Are there water drops or dirt on the Control Panel?	Remove the dirt with a damp cloth and then wipe it with a dry cloth.
		Are you wearing gloves or do you have a plaster on your finger?	Touch directly with your finger.
		Are you touching another area of the touch panel at the same time?	Touch only the area you wish to operate.
		Is WLAN 📶 blinking on the Control Panel?	The software on the refrigerator is being updated. You cannot operate the control panel on the refrigerator while the software on the refrigerator is being updated. Please wait a second until the update of the software on the refrigerator is completed.
	The Operation Section is unlit.	———	The Operation Section goes out about 40 seconds after the completion of operation to save energy. ➜ **Pg.20** To turn it back on, touch MENU or open a door of the Refrigerator Compartment.
	Settings on the Operation Section have been changed unintentionally	Is another user operating the refrigerator with the smartphone?	Up to 5 smartphones can be registered on one refrigerator, and the refrigerator can be operated via the smartphones.
Refrigerator is not cold	**Not cold enough Ice cream is soft.**	Is food or a bag stuck in a door so that it cannot close completely?	Remove the food and close the door. Ensure the height of the food do not exceed the limit.
		Have you packed food in forcibly or put a large amount of food in the refrigerator at once?	Keep gaps between food when storing it.
		Are the cases for each compartment attached properly?	Attach them properly. ➜ **Pg.39**
		It may be difficult to cool depending on the location where the refrigerator is installed, the gaps, and the surrounding conditions.	Check if the refrigerator is installed correctly. ➜ **Pg.8**
		Is "Energy Saving" mode activated?	Deactivate "Energy Saving" mode. ➜ **Pg.34**
		Is the temperature set to "■"?	Change the temperature setting of the compartment which does not cool well. ➜ **Pg.22, 29**
		Is the ambient temperature around the refrigerator too high, such as in summer?	
		Did you open one of the doors for a long time or did you open and close it too frequently?	The temperature inside the refrigerator gradually rises while one of the refrigerator doors is open. Frequently opening and closing the doors or leaving a door open for a long time makes it difficult for the temperature in the refrigerator to drop. Open and close the doors quickly or open and close them as little as possible.
		Does the Control Panel display change continuously?	The refrigerator is in Store mode. Deactivate this mode. ➜ **Pg.42**
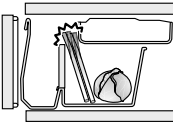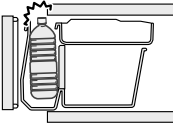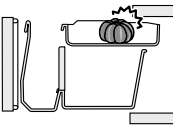
	Symptoms	Checks	Possible Cause
Automatic ice making	**Ice-maker is not working**	Is "Auto Ice Off" lit on the control panel? If yes, the "Ice-making" mode has been turned off.	Activate "Auto Ice On" or "Quick Ice" mode. ➔ **Pg.26, 27**
		Is ❄ lit on the control panel? The water in the water supply tank is low.	Add water into the water supply tank. ➔ **Pg.26, 27**
		Is the water in the water supply tank low?	If the water in the tank is low, ice may not be made. Add water until water level reaches the "Container full line" of the water supply tank. ➔ **Pg.26**
		Is the water supply tank beyond the "Container set position" line?	Push it beyond the "Container set position" line. ➔ **Pg.26**
		Is anything other than ice stored in the Ice Case?	Remove it from the Ice Case.
	It takes a long time to make ice.	Is the Ice Case filled with ice over the limit line for stored ice?	Remove some ice. ➔ **Pg.27**
		Are you opening the doors frequently or storing a large amount of food at once?	The inside is not cooled down enough. Minimize the opening and closing frequency of the doors until it is entirely cooled. Allow enough spacing between each item of stored food.
		Is the surrounding temperature low?	Ice making takes more than four hours during winter. Refrain from opening and closing the doors frequently and wait.
		Did you just change the Ice Maker setting from "Auto Ice Off" to "Auto Ice On"?	Ice making may take time immediately after changing the setting. Refrain from opening and closing the doors frequently and wait.
		Are there any food or package stuck in between the door of the Freezer or Ice Compartments preventing the door from closing completely?	Remove the food and close the door.
		Is "Energy Saving" mode activated?	Deactivate "Energy Saving" mode. ➔ **Pg.34**
	There are protrusions on the ice.	———	This is caused by frozen water collected in the ice tray grooves. It is not a fault.
	Stored ice becomes round. Ice cubes adhere together.	Is old ice left unused for a long time?	Old ice cubes naturally shrink and stick together. There is no problem as long as the ice cubes can be separated with the ice scoop.
		Are you opening the doors frequently or storing a large amount of food at once?	Open and close the doors quickly or open and close them as little as possible.
		Was one the Refrigerator Compartment doors or slide doors temporarily left partially open?	When closing the door, close it fully.
	The ice maker makes small ice cubes.	Is the water in the water supply tank low?	When water is low, small ice cubes may be made. Add water until water level reaches the "Container full line" of the Water Supply Tank. ➔ **Pg.26**
	Freshly-made ice cubes adhere together.	———	Water accumulated in the ice tray grooves may freeze and the ice cubes may adhere together. It does not indicate any fault.
	There are white impurities in the ice cubes.	———	This is due to the air bubble formed in the ice.
		Did you use mineral water to make ice?	The minerals contained in the water may freeze and turn white, but this is harmless.
	When not making ice	———	Activate "Auto Ice Off" mode. See "Stop Ice Making". ➔ **Pg.27**

TROUBLESHOOTING (Continued)

	Symptoms	Checks	Possible Cause
Frost and/or condensation formed	**There is frost, condensation, or ice on the inside of the refrigerator or slide door frame.**	Was one the Refrigerator Compartment doors or slide doors temporarily left partially open?	When closing slide doors and doors, make sure that no food or bags are caught, and close them properly.
		Did you open one of the doors for a long time or did you open and close it too frequently?	When a door is opened or closed, water in the air may cling to the walls or parts in the Freezer in the form of frost or ice. Open and close the doors quickly, or reduce the frequency of opening and closing the doors. Wipe off any frost or condensation with a dry cloth.
	Condensation adheres to the outside of the refrigerator.	Is the air surrounding the refrigerator humid?	Condensation may adhere to these parts when the indoor humidity is high (e.g. rainy day). Wipe off the condensation with a dry cloth.
		Is the temperature set to " ■■■ " [Moist Cool] ?	When the temperature is set to " ■■■ " [Moist Cool] , condensation may be formed on the surface of the doors. Set the temperature to " ■■ ". Wipe off the condensation with a dry cloth. → **Pg.22**
	There is condensation on the back of the refrigerator and the walls.	Is the humidity around the refrigerator too high or is the gap between the back of the refrigerator and the wall too narrow?	Keep the back of the refrigerator at least 2 cm away from the wall. → **Pg.8**
	There is condensation inside the Refrigerator Compartment.	Did you open one of the doors for a long time or did you open and close it too frequently?	Condensation may form on the walls and/or around the Cold Air Blowout Port → **Pg.22** when the doors are opened and closed frequently or when the humidity is high around the refrigerator. It does not indicate any fault. Wipe off the condensation with a dry cloth. Condensation
Indicator is blinking	**3 or more temperature control lamps for energy saving/freezer/refrigerator are blinking.**	For energy saving/freezer/refrigerator, check each of the seven lamps "■■■/■■/■" to see if they are blinking or off.	Place a ☑ mark on which lamps are blinking and contact a Hitachi customer service center for repair. → **Pg.52** If you record the information, the problem will be communicated accurately. **(Checklist)** Save Mode / Energy Saving / Refrigerator / Freezer
	"Auto Ice On" indicator lamp blinking or "■■■/■" and [Refrigerator] "■" indicator lamp blinking	Did you place food or ice other than ice made by the automatic ice maker in the Ice Compartment?	Food, etc. may be blocking the ice tray. Empty the Ice Compartment and perform "Ice Maker Cleaning". → **Pg.37**
	The Ice Maker "Quick Ice", "Auto Ice On", and "Auto Ice Off" indicator lamps blink simultaneously.	Did you touch and hold [Ice Maker] for 5 seconds or longer?	Ice Maker Cleaning is in progress. The indicator lamps will stop blinking in about 4 minutes. Do not open any of the refrigerator doors while the indicator lamps are blinking.
	3 or more temperature control lamps for [WLAN], Freezer and Refrigerator are blinking	For [WLAN], Freezer and Refrigerator, check each of the seven lamps "■■■/■■/■" to see if they are blinking or off.	Place a ☑ mark on which lamps are blinking and contact a customer service center for repair. → **Pg.52** **(Checklist)** Energy Saving / WLAN / WLAN (Hold 3 Sec.) / Refrigerator / Freezer
	[WLAN] and 📶 indicator lamps blinking	——	The software on the refrigerator is being updated. When the update is completed, those lamps stop blinking. → **Pg.17**
	[WLAN] blinking.	——	It is not possible to connect to the Wireless LAN because the communication is being on standby. Please wait a second until this indicator lamp lights up.
	All the indicators are blinking.	Is the door opened? Is the door opened due to food stuck in between?	Close the opened-door. Remove the food stuck inbetween and close the door properly.
	The lit lamps are changing continuously.	——	The refrigerator is in Store mode Cancel this mode. The refrigerator does not cool in Store mode. Open the Refrigerator Compartment doors (left and right) and the Freezer Compartment lower door. Touch [MENU] on the Control Panel to light up the display. Touch and hold [Freezer] for 10 seconds or longer until you hear two short beeps. All the indicator lamps light for a few seconds, Store mode is released, and cooling operation resumed. Close the Refrigerator Compartment doors (left and right) and the Freezer Compartment lower door.

Symptoms	Checks	Possible Cause
Concerns on the Vacuum Compartment (side label)		
There is no "Rushing air sound" when opening the Vacuum Compartment.	Is the setting of the Vacuum Compartment "Vacuum Off"?	Change the setting to "Vacuum On". →**Pg.25**
	Is the handle lowered fully after the Vacuum Case is pushed all the way in?	If the Vacuum Compartment is not locked, a vacuum will not be created. Push the Vacuum Case all the way in, and then push the handle down as far as it will go to lock it.
	Is the Vacuum Compartment gasket misaligned? Or, is the gasket lifted up? Fin / Lifting / Gasket side	Align the protrusion of the Vacuum Compartment gasket with the hole of the case to attach it. Insert the gasket as far as it will go without lifting up. Case hole / Case seen from below / Gasket protrusion / Gasket side / Fin
	Is food packaging caught in the Vacuum Compartment gasket or vacuum gasket receptacle, or is dirt, lint, or a scrap attached? Lint / Scraps	If food packaging is caught, remove it. Clean the Vacuum Compartment gasket if it is dirty. →**Pg.36**
	Is the gasket caught? Caught / Gasket	If the gasket is caught, the vacuum cannot be maintained. Straighten any parts of the gasket that are caught. →**Pg.38** The left and right sides and the underside are hard to see, so please remove the Vacuum Compartment Case to check. Clean the Vacuum Compartment gasket if it is dirty. →**Pg.36**
	Was the door of the Vacuum Compartment or the Refrigerator Compartment just opened / closed?	It takes about three to four minutes for the Vacuum Compartment to be vacuumed after the vacuum pump starts to operate. Wait for more than four minutes after opening or closing.
It is not clear whether the Vacuum Compartment has been vacuumized.	Do you hear a sound when opening the Vacuum Compartment?	The Vacuum Compartment has been vacuumized properly if a vacuum releasing sound (rushing air sound) is heard when opening it.
The handle cannot be locked.	Is there any food, etc. caught in the inner part of the Vacuum Case or the Vacuum Compartment gasket?	Remove any food if it is caught.
	Is the Vacuum Case set in place?	Attach the Vacuum Case as shown in "How to attach". →**Pg.38**
Booming sound and vibration occur around the Vacuum Compartment.	———	This sound is caused when the vacuum pump operates. You can stop the vacuum pump operation when you want to stop the sound (e.g. night time). Change the setting of the Vacuum Compartment to "Vacuum Off". →**Pg.25**
	Is something caught in the Vacuum Case or is the Vacuum Compartment gasket dirty? Is the handle lowered fully after the Vacuum Case is pushed all the way in?	A sound may be heard or vibration may be felt more frequently. Remove any packaging material of foods or other items that are caught. Clean the Vacuum Compartment gasket if it is dirty. →**Pg.36** Lower the handle fully after pushing the Vacuum Case all the way in.
Water drops, frost or ice is formed the inside of the Vacuum Case or around the Vacuum Compartment.	Are you storing food with high water content? Water drops and frost	Moisture from food with high water content may cause condensation and/or frost to adhere inside the Vacuum Compartment because it is sealed. It is recommend to wrap foods with high water content in cellophane wrap. If there are water drops or frost, wipe with a soft cloth moistened with warm water.

TROUBLESHOOTING (Continued)

	Symptoms	Checks	Possible Cause
Concerns on the Vegetable Compartment	**Condensation forms inside the Vegetable Compartment.**	Are you storing a large amount of vegetables with high water content?	Since the humidity in the Vegetable Compartment is higher than in other compartments, condensation may form on the case, top, or surfaces of food depending on the amount and type of vegetables. It does not indicate any fault. If you are concerned about condensation, it is recommend to wrap the food in cellophane wrap. Also, if there is a large amount of condensation, water may accumulate in the Vegetable Compartment case. Wipe off any accumulated water with a soft cloth.
		Is the moisture unit blocked by food bags or containers?	Condensation is more likely to occur if the moisture unit is blocked. Move the food bag or container blocking the moisture unit to another location. Wipe off any condensation with a soft cloth.
	The Vegetable Compartment door doesn't close / When **the Vegetable** Compartment door is opened, the upper case doesn't go back to the locking position.	Is any food, etc. caught between the upper case and the lower case?	Remove it if any.
		Is a plastic bottle and/or food item in contact with the handle of the upper case?	Store the plastic bottle, food, etc. so that it doesn't come into contact with the handle.
		Is any food, etc. caught between the upper case and the top of the Vegetable Compartment?	Remove it if any. Also, do not forcibly close the door when food, etc. is in contact with the top of the Vegetable Compartment.
Concerns on uneven height or tilting of the doors	**There is a height difference between the left and right doors. The door is tilted.**	Is the floor even?	You can use the refrigerator as it is without any problems in terms of performance, but if you are concerned, make adjustments with the left and right adjustable mounts. ➡ **Pg.8**
		Is the floor material soft and is the added weight of the stored items causing the legs to sink?	If the refrigerator body is tilting, install it on a sturdy board with a thickness of 1 cm or more.
Strange smell	**There is a smell of plastic.**	_____	This is because many plastic parts are used in the refrigerator, but the smell gradually decreases as the refrigerator cools fully.It does not indicate any fault.
	The ice smells.	Is the water supply tank or water filter dirty, or is the ice old?	Wash regularly to prevent sliminess and water stains. ➡ **Pg.36, 37**
		_____	There may be a strong smell of chlorine because the chlorine in tap water is condensed.
	The inside of the refrigerator smells.	Did you store any foods with strong smells without wrapping them?	The deodorizing function cannot completely remove all odors. Seal the food, such as wrapping it in cellophane wrap.

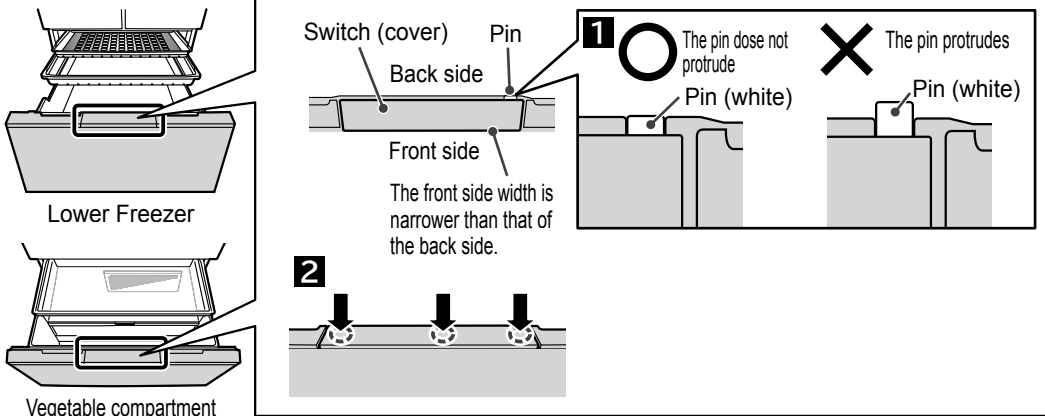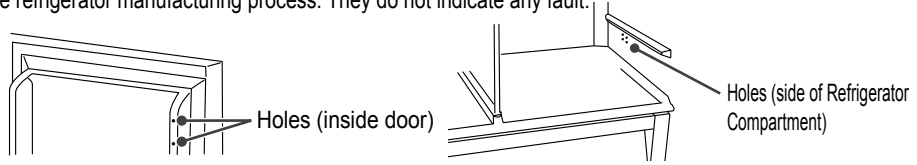|	Symptoms	Checks	Possible Cause
Refrigerator is too cold	**The refrigerator is too cold. Food freezes.**	Is the temperature set to "■■■"?	Set the temperature setting to "■■". → **Pg.22, 29**
		Is the ambient temperature 5°C or below?	When the ambient temperature is low, the inside of the refrigerator may become too cold. Set the temperature setting to "■".
		Is the food placed in front of the Cold Air Blowout Port?	Do not place food in front of the Cold Air Blowout Port. You can prevent food from freezing by using a lid or cellophane wrap.
Refrigerator becomes hot	**The side of the refrigerator and the edge of the door become hot. You feel a warm air current at your feet.**	———	The areas around the refrigerator can become hot as the heat generated by the cooling system is dissipated to the outside. Immediately after installation or in summer, the temperature may reach 50 to 60° C. Although there is no problem in terms of safety or performance, do not touch these areas.
Corncerns on noises	**Abnormal sound from the refrigerator**	Is the floor uneven?	Install the refrigerator on a sturdy board with a thickness of 1 cm or more. → **Pg.8**
		Is the refrigerator against the wall or furniture?	Install the refrigerator with space clearance around it please.
		Is the leg cover detached?	Operation sound may resonate and get louder. Attach the leg cover securely. → **Pg.8**
		Are you in the situation as shown below? ・The inside of the refrigerator is not cooled when using for the first time, etc. ・Frequently opening and closing the refrigerator doors ・The ambient temperature around the refrigerator is high. ・"Quick Ice" or "Quick Cool" is activated.	Operation sound may be loud as the compressor is operating at high-speed to cool the inside of the refrigerator quickly. The sound is reduced after the inside of the refrigerator is cooled enough.
	The operating noise goes on for a long time.	———	Since the compressor is operated slowly to save energy, the operating noise may go on for a long time.
	Sometimes the noise gets louder.	———	The driving force changes according to temperature changes in the refrigerator. As a result, you may feel that the refrigerator is noisy sometimes.
	Others **If you hear a noise like...** (Not indicate any fault)	Sounds normally heard (Humming/hooting/squealing/rattling/snarling)	Those are the sounds heard when the motor or compressor operates to cool the inside of the refrigerator.
		Collision sound (tapping) Water boiling sound (burbling/bubbling out) Carbonic acid bursting sound (fizzy/bubbly)	This is the sound of the refrigerant flowing to cool the inside of the refrigerator.
		Water flowing sound (trickling) Sound like grilling meat (sizzling)	This is the sound of water flowing during defrosting or the sound of evaporation.
		Squeaky sound (squeaking/creaking)	This is the squeaking sound caused by parts expanding when the temperature inside the refrigerator changes or the parts squeaking sound when the air pressure in the Vacuum Compartment changes.
		Sound like something is caught (rattling) Roaring sound (honking)	This is the sound of the electrical components that control the temperature inside the refrigerator.
		Collision sound (rattling/rumbling)	This is the sound when ice leaves the automatic ice maker's ice tray.
		Water flowing sound (zipping/gurgling)	This is the sound when water is poured into the ice tray. If you do not want to make ice, touch [Ice Maker] and set the mode to "Auto Ice Off".
		Occasional sounds (clicking/snarling/clacking/humming/squealing/clattering/sizzling)	This is the operation sound of parts to cool the inside of the refrigerator.

TROUBLESHOOTING (Continued)

Symptoms	Possible Cause
Using mobile router	The operation is not guaranteed using mobile router. Some mobile routers may not be available even if those support IEE802.11b/g/n (2.4 GHz band only).
Cannot link/pair the refrigerator with the smartphone	Check the requirements to connect the refrigerator with the smartphone are satisfied. ➡ **Pg.13**
	Check the Wireless LAN router is powered on. Refer to the instruction manual of the Wireless LAN router and turn the power on.
	Check the SSID and the password (such as "Encryption key" or "Security key") of the Wireless LAN router are set correctly.
	Check the Wireless LAN router is not in the stealth mode (hiding SSID). Deactivate the stealth mode and pair the refrigerator with the smartphone. Refer to the instruction manual of the Wireless LAN router for details on deactivating the stealth mode. Return the setting of the Wireless LAN router to the stealth mode after pairing is completed successfully.
	When MAC address filtering is set on the wireless LAN router, pairing cannot be set. Check the instruction manual for your wireless LAN router and clear the MAC address filtering settings.
	When you use a microwave oven or a device with Bluetooth using the 2.4GHz band nearby, the communication between the refrigerator and the smartphone may break off or be slow temporarily due to the radio wave interference.
	If the refrigerator and the Wireless LAN router are installed at a distance, there is a possibility that the radio wave is weak. Install the Wireless LAN router closer to the refrigerator or use the Wireless LAN repeater.
	Pairing can only be performed with each of the individual smartphones at a time. Do not pair the refrigerator with multiple smartphones at a time.
	It is possible to pair the refrigerator with up to five smartphones. Delete the unnecessary registration from Menu button " ☰ " on the upper left of the App screen → "Connection Setup" → "Name Setup" → "Confirm and Delete Registered Users" on the mobile application using the smartphone paired with the refrigerator.
	When using Android smartphone, the message such as a "Wi-Fi not connected to internet" may appear. In this case, paring may be failed depending to the model that you are using. Paring may be proceeded by following the procedure below. • If the message such as a "Wi-Fi not connected to internet" appears, tap the message, and when the message such as a "This network is not connected to internet. Do you keep connection? " appears, tap "YES". Paring may be proceeded by following the procedure below.
	If the above is not applied, power off the smartphone and Wireless LAN router, and turn those on again after waiting for a while.

(Left vertical label: Wireless LAN)

Symptoms	Possible Cause
The unit and the smartphone cannot be paired.	Connect a smartphone to the wireless router which is targeted to be connected to the unit.
	Pairing can be only set one by one. Don't set pairing with multiple smartphones at the same time.
	Make sure that the Wireless LAN router is not stealth mode / ANY key connection prohibited / SSID hidden. Release stealth mode and pair it. Refer to the instruction manual of the Wireless LAN router on how to release the stealth mode.
	While WLAN of the unit is blinking, it is under communication preparing and cannot be connected to the Wireless LAN. Wait until it lights.
	Make sure that the Wireless LAN feature is set as "Yes". If it is set as "No", it cannot be connected to the Wireless LAN. ➡ **Pg.15**
	Make sure that the password is correct. If the password is wrong, it cannot be connected to the Wireless LAN.
	If the unit and the Wireless LAN router are far apart, radio waves may be weak. Move the Wireless LAN router near to the unit, or use a relay device for the Wireless LAN router.
	If a microwave oven that uses the 2.4 GHz band or a device that uses Bluetooth, etc. is used near, the communication may be temporarily interrupted or delayed due to the influence of radio waves.
	The Wireless LAN router, corresponding to both of 2.4 GHz and 5 GHz, shall be connected to the 2.4 GHz SSID. Use the Wireless LAN router corresponding to IEEE802.11b, IEEE802.11g, and IEEE802.11h (2.4 GHz only).
SSID or Password of the Wireless LAN router unknown	Refer to the instruction manual of the Wireless LAN router. The password may be written as "Encryption key" or "Security key" depending on the manufactures or models of the Wireless LAN routers.
Changing Wireless LAN router	When changing the Wireless LAN router connected to the refrigerator, tap the menu button "≡"on the upper left of the App screen, and select → "Connection Setup" → "Network Setup" to change the SSID or password of the Wireless LAN router. Operate according to the guidance shown on the display screen.
Cannot operate the refrigerator via the smartphone **The refrigerator cannot respond to the operation via the smartphone**	The refrigerator does not respond to the operation via the smartphone immediately after another user operates the refrigerator via the smartphone. Operate again after waiting a little.
	Check if the smartphone is connected to the Wireless LAN or mobile phone line.
	When the refrigerator and the Wireless LAN router are installed at a distance, there is a possibility that the radio wave is weak. Install the Wireless LAN router closer to the refrigerator or use the Wireless LAN repeater.
	It is not possible to connect to the Wireless LAN because the connection to the Wireless LAN is being on standby while WLAN on the control panel of the refrigerator is blinking. Please wait a second until this indicator lamp lights up.
	When 📶 on the control panel of the refrigerator is Off, it is not possible to connect to the Wireless LAN. Refer to the descriptions in the " 📶 is unlit". ➡ **Pg.48**
Push notification not received	Push notification is not received because the connection to the Wireless LAN is being on standby while WLAN is blinking. The connection to the Wireless LAN is being on standby immediately after turning the power of the refrigerator on. Therefore, please wait a second.
	Check the push notification is activated in "Settings" on the mobile application of the smartphone.
	Check the push notification is activated in "Notifications" on the mobile application of the smartphone.
Deactivating the push notification	Deactivate the push notification in "Notifications" on the mobile application of the smartphone.
The operation status of the refrigerator is different from the message of the push notification.	Depending on the status of the server and the communication status of the refrigerator and the smartphone, the operation status of the refrigerator may be notified with a delay.
The operation status displayed on the mobile application of the smartphone is different from the operation status of the refrigerator.	Depending on the status of the server and the communication status of the refrigerator and the smartphone, the operation status displayed on the mobile application of the smartphone may be different from the operation status of the refrigerator.
WLAN is blinking	WLAN blinks because the connection to the Wireless LAN is being on standby immediately after turning the power of the refrigerator on. Please wait a second until WLAN is lit.

Wireless LAN (side tab)
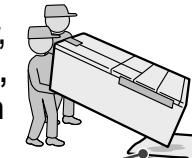
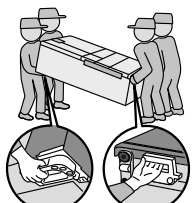| Symptoms	Possible Cause	
Wireless LAN 📶 **is unlit.**	📶 does not light if pairing setup is not completed. Perform the pairing setup.	➡ **Pg.14~15**
	Check if the power of the Wireless LAN router is ON. Refer to the instruction manual of the Wireless LAN router and turn the power of the Wireless LAN router on.	
	Check if the Wireless LAN function is set as "Activated". If the Wireless LAN function is set as "Deactivated", the refrigerator cannot connect to the Wireless LAN.	➡ **Pg.15**
The operation status of the refrigerator and that displayed on the mobile application of the smartphone are different from the descriptions in the instruction manual of the refrigerator.	The actual operation status may be different from the descriptions in the instruction manual of the refrigerator due to the update of the software on the refrigerator and the mobile application of the smartphone, etc.	

	Symptoms	Checks	Possible Cause
Auto Drawer	**Operation sound is loud. Operation sound which concerns you is heard.**	Collision thumping sound	This is the sound when the Auto Drawer is operating. It does not indicate any fault.
		Roaring sound such as zing, toot and whir	This is the sound when the Auto Drawer is operating. It does not indicate any fault.
		The operation sound of the Vegetable compartment is heard louder than that of the Lower Freezer.	The operation sound of the Vegetable compartment is heard louder compared to that of the Lower Freezer. This will also vary depending on the amount of the food stored. It does not indicate any fault.
	The Auto Drawer does not open even when the Auto Drawer switch is pressed.	Is 🔆 Auto Door lit?	Make 🔆 Auto Door light up. ➡ **Pg.21**
		Is either the Lower Freezer door or the Vegetable compartment door open?	Close the open door, and then press the Auto Drawer switch of the door you would like to open.
	The Auto Drawer does not open/close.	Is anything such as food, zipper storage bag and plastic wrap trapped?	Remove the trapped food, etc.
		Does the supply of the power fail or the Auto Drawer hit an obstacle while the Auto Drawer is operating?	It needs more force to open/close the Auto Drawer because the Auto Drawer function stops during operation. Push the door in manually using force. Otherwise, pull out the power plug with the door pulled out, and then put the power plug in the outlet after waiting at least 10 seconds.
	The drawing-out quantity of the Auto Drawer is small.	——	The drawing-out length of the Auto Drawer during operation is approximately 15 cm or longer. The drawing-out length of the Auto Drawer may be vary or the door may return slightly after the door opens electrically depending on the installation conditions of the refrigerator. It does not indicate any fault.
	The Auto Drawer switch is detached.	The Auto Drawer switch may be detached if a shock is applied. If the Auto Drawer switch is detached, attach it according to the procedures as shown below. **1** Check the position of the pin. If the pin protrudes, push it back to the position where the pin dose not protrude from the surface of the switch cover. **2** Push the section indicated by arrows (three locations). If the detached part returns to the correct position, a "click" sound is heard. Finally, if you can press the Auto Drawer switch, it is attached correctly.	

Lower Freezer

Vegetable compartment

Switch (cover) Pin Back side Front side The front side width is narrower than that of the back side.

1 ◯ The pin dose not protrude Pin (white)

✕ The pin protrudes Pin (white)

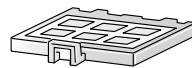| Symptoms	Possible Cause	
Electric shock when you touch the body of the refrigerator	The refrigerator may be charged with static electricity. This is safe.	
Static interference on radio and television	This is due to the very slight electromagnetic waves generated by this refrigerator. Install the refrigerator away from TVs, radios, entry phones, etc. Keep the power supply line away from any antenna wires.	
There are thin hair lines on the plastic parts.	These lines are caused by liquid resin flowing when the plastic is molded. Especially visible on transparent parts. There is no issue with the quality and will not crack.	
The door surfaces/the sides or top surface of the refrigerator are wavy or distorted.	Slight waving and/or distortions are generated in the manufacturing process of the refrigerator. They may be conspicuous depending on the position and brightness of the light source, but they are not a fault. Also, they do not affect the performance of the refrigerator.	
There are small holes inside the door and on the side of the Refrigerator Compartment.	These holes are used to release the internal air when filling the doors and compartment with insulating material in the refrigerator manufacturing process. They do not indicate any fault. Holes (inside door) Holes (side of Refrigerator Compartment) * Depending on the product, stickers may be affixed. Do not remove these stickers.	
There was a power outage.	Reduce the frequency of opening and closing the doors and avoid storing additional food until the power supply is restored. After the power is restored, check the settings on the Control Panel. Each settings such as the temperature settings and the ice making modes may change after the power fail recovery. Therefore, reset those as necessary.	
If you are not using the refrigerator for a long time.	Remove all the items in the refrigerator. Remove the power plug and clean the inside of the refrigerator and automatic ice maker. → **Pg.35–37** Leave all the doors open for 2 or 3 days to dry the refrigerator.	
Removing frost.	This refrigerator automatically defrosts, so no action is required. The thawed water collects in the evaporation tray and automatically evaporates.	
Moving/transporting the refrigerator	See "Preparation for moving/transporting (moving house) ". → **Pg.50**	
Broken glass (door glass/glass shelf)	Do not touch the broken glass, and immediately contact your dealer for repair.	
When I close one door, another door opens.	Did you close the door with too much force? Since each compartment is connected by a cold air passage, other doors may open momentarily due to the change in air pressure when the door is closed.	
It is hard to open the door immediately after closing it.	Did you leave the door open for a long time? This is because the air that has entered the refrigerator is suddenly cooled and the pressure temporarily drops. Rather than leaving the door open for a long time, open and close it each time you need to take something out or put something in.	
If you are concerned about vibration noise or the back wall becoming discolored or dirty due to moisture	Install the refrigerator 2 cm or more away from the back wall. → **Pg.8**	
A fly or other insect enters the refrigerator.	Are there flies near the refrigerator?	Keep the environment clean. Use an insect trapper.
	Does the refrigerator contain food with strong odors?	Cover or wrap the food.
	Has the door been left opened for a long time?	Close the refrigerator doors as quickly as possible after taking the food from the refrigerator.

Others

TROUBLESHOOTING (Continued)

Preparation for moving/transporting (moving house)

1 **Remove all the food and ice.**

2 **Pour away the water in the water supply tank and ice tray.**
Remove the water supply tank and perform "Ice Maker Cleaning". ➔ **Pg.37**

3 **Unplug the power plug.**
This can be done just before moving the refrigerator.

4 **Remove the leg cover and raise the adjustable mounts.** ➔ **Pg.8**

5 **Secure the door and power cord with tape.**

6 **Lay protective sheets or fabric when moving or transporting the refrigerator.**
This is to prevent damage to the flooring and spillage of water.

7 **Place a cloth under the refrigerator, tilt the refrigerator backwards, and drain water from the bottom at the back.**
Cloth, etc.

8 **Hold the carrying handle and carry the refrigerator with two or more people.**
Do not stack the refrigerator horizontally when shipping it.
(It may cause the refrigerator to malfunction)

9 **Install according to "Before use".** ➔ **Pg.8, 9**

AVAILABLE PARTS

■ During the purchase of the following parts, please specify your refrigerator model. Only purchase parts from authorised dealers.

When this happens	Product name	Model	Product model	
The ice smells. The water filter may be old and dirty. (The usage period is approximately 3 to 4 years)	Water filter for the automatic ice maker	Common to all models	RJK-30	

NOTES ON NON-CFC REFRIGERATORS/GUIDE ON TOTAL STORABLE WEIGHT

Notes on non-CFC refrigerators

● This refrigerator uses hydrocarbons, instead of chlorofluorocarbons (CFCs), in its refrigerant and insulation materials. Hydrocarbons do not damage the ozone layer, have minimal impact on global warming, and are thus considered comparatively environment-friendly.

● Note that hydrocarbons are flammable. The refrigerant is sealed in the cooling circuit and should not leak under normal operation. If the cooling circuit is damaged, open a window to ventilate the room, and avoid using fire and electrical appliances. Keep your distance from the refrigerator, and contact a customer service center to request repair.

Guide on total storable weight

Refer to the following table as a guide on the total weight of food that can be stored on each shelf or in each container.

Name of parts		R-GWC670T Type
Refrigerator Compartment	Height adjustable upper shelf	25.0 kg
	Height adjustable middle shelf	25.0 kg
	Height adjustable lower shelf, Fixed shelf	23.5 kg
	Shelf above the vacuum compartment	15.0 kg
	Vacuum Case	5.4 kg
	Total for the right door pockets	21.0 kg
	Total for the left door pockets	21.0 kg
Ice Compartment	Ice Case → Pg.27	
	Small Items storage space	1.5 kg
Upper Freezer Compartment	Upper Freezer case	5.5 kg
Lower Freezer Compartment	Slimline slide case	6.0 kg
	Slide case	6.5 kg
	Lower Freezer case	17.5 kg
Vegetable Compartment	Upper Case	7.0 kg
	Lower Case	20.0 kg

Important notes on disposal

The insulation material of this refrigerator uses cyclopentane and other gases that require special procedures for safe disposal. To dispose of this refrigerator, please contact your local environmental protection agency (or some other relevant agency), and inquire about safe disposal procedures.

AFTER-SALES SERVICE

Please contact one of the following Hitachi customer service centers if the power cord is damaged or maintenance is required.

If the refrigerator malfunctions, immediately unplug the power cord, and contact a customer service center to request repair.

- Singapore
  Arcelik Hitachi Home Appliances Sales (Singapore) Pte. Ltd.
  438A Alexandra Road, #01-01/02/03, Alexandra
  Technopark, Singapore 119967
  Tel: +65-6536-2520
  Fax: +65-6536-2521

Manufacturer

◎ Hitachi Global Life Solutions, Inc.

R-GWC670T Type Ⓐ