INSTRUCTION MANUAL

REFRIGERATOR-FREEZER

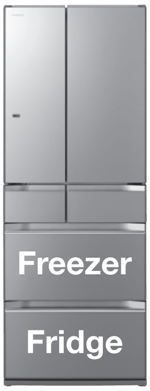
HITACHI
Inspire the Next

For household use

Model R-KWC570KH R-KWC570KS

SELECTABLE COMPARTMENT Default Settings

At purchased,
Upper Selectable Compartment is set as “Freezer”, and
Lower Selectable Compartment is set as “Fridge” .
Switch to your preferred setting for use.
→ Pg.29



Made in Japan

6 doors

Thank you very much for purchasing a Hitachi Refrigerator.
This refrigerator is designed for home use only.
Do not use this refrigerator for the business use and/or any purpose other than storing food.
Please read this operation manual carefully and ensure you use the appliance correctly. In particular, be sure to read the “Safety Suggestions” section of this operation manual before use.
Please keep this operation manual along with your guarantee card.
Hand over this operation manual together with the refrigerator when the refrigerator is passed to a third party and used in a different location, or when it is sent to a recycling plant.

- **It takes time to cool for the first time.** → Pg.8, 9
  It may take more than 4 ～ 24 hours to fully cool.
- **Make sure that no food protrudes beyond the storage height limit of each compartment, and allow clearance between each food in each compartment.** → Pg.30
  Otherwise, food and/or package may not be stored in each compartment properly, and as a result, the door may not be closed completely. It may cause the refrigerator not to cool sufficiently and/or not to make ice.

Tips for using the refrigerator wisely for energy savings

1. **Open or close a door less frequently and quickly.**
   Frequent opening and closing leads to waste of energy.
2. **Do not overfill the refrigerator.**
   Overfilling the refrigerator prevents a smooth circulation of cool air, precluding even cooling throughout the refrigerator and consuming unnecessary power. Place food at appropriate intervals.
3. **Do not place hot food in the refrigerator.**
   Placing hot food raises the temperature in the refrigerator, which, in turn, raises the temperature of surrounding food.
4. **Provide an appropriate gap around the refrigerator.**
   Installing the refrigerator with little clearance between the refrigerator and the surrounding objects prevents the release of heat and thus leads to the waste of power.
5. **Replace a damaged door gasket.**
   Cool air leaks through a damaged gasket, which leads to the waste of power. If a name card inserted between the gasket and the refrigerator slides down, the gasket needs replacing.

FREQUENTLY-ASKED QUESTIONS (FAQs)

If the ice is not made → Pg.40

If the refrigerator is not cooled down well → Pg.40

If frost or dew is formed → Pg.40

CONTENTS

BEFORE USE

SAFETY SUGGESTIONS ··· 4
BEFORE USE ··· 8
Preparation before use ··· 8
CAUTION ON USE OF THE WIRELESS LAN ··· 10
WHAT CAN BE DONE WITH THE SMARTPHONE ··· 11
CONNECT TO THE SMARTPHONE ··· 12
HOW TO USE OTHER WIRELESS LAN FEATURES ··· 15
HOW TO USE THE DEDICATED APPLICATION ··· 16
LEARN NAME & FUNCTION OF EACH PART ··· 20
Name of each compartment, temperature guide, and examples of stored food ··· 20
Functions of the Control Panel ··· 21

GENERAL USE

REFRIGERATOR COMPARTMENT ··· 22
Parts ··· 22
Use the “Moisture Cooling” ··· 22
Opening and closing the refrigerator doors ··· 23
Adjust the height of a pocket/shelf ··· 23
Container for small items ··· 23
VACUUM COMPARTMENT ··· 24
Stored foods ··· 24
Change the settings of the Vacuum Compartment ··· 25
When opening/closing the door of the Vacuum Case ··· 25
ICE COMPARTMENT (AUTOMATIC ICE MAKER) ··· 26
How to make Ice ··· 26
Stored ice amount and ice-making time ··· 27
Quick Ice Making ··· 27
Stop Ice Making ··· 27
Water Supply indicator ··· 27
When the “On” Ice Maker indicator blinks, or the “■■■” and “■” Select Zone indicators and the “■” Fridge indicator blink ··· 27
FREEZER COMPARTMENT ··· 28
Stored foods ··· 28
When storing food ··· 28
Quickly freezing meat, fish and rice (Using “Delicious Freezing”) ··· 28
SELECTABLE COMPARTMENT ··· 29
Switching the setting of Selectable Compartment (Selectable Zone Compartment) ··· 29
Temperature adjustment (Selectable Compartment) ··· 30
When storing food ··· 30
Examples of foods to be stored ··· 31
Tips for storing vegetables ··· 31
VARIOUS FUNCTIONS ··· 32
Fine adjustment of the temperature ((Refrigerator Compartment / Upper Selectable Compartment / Lower Selectable Compartment) ··· 32
“eco” Operation indicator lamp ··· 32
Door Alarm ··· 33
Door Alarm and volume adjustment of the operation sound ··· 33
Locking the Control Panel ··· 33
ENERGY SAVING ··· 34
Setting “Energy Saving” mode ··· 34
Set the condensation prevention heater to MIN. (Swing partition) ··· 34

MAINTENANCE

MAINTENANCE ··· 35
Power plug / Door gaskets ··· 35
Surface of door / Each shelf/pocket / Case ··· 35
The back/floor of the refrigerator / Liquid receivers ... 35
Vacuum compartment ··· 36
Water supply tank ··· 36
Cleaning the ice maker ··· 37
HOW TO REMOVE/ATTACH PARTS ··· 38
Height adjustable upper and middle shelf ··· 38
Fixed shelf ··· 38
Shelf partition ··· 38
Lower height-adjustable shelf ··· 38
Door shelves ··· 38
Vacuum Compartment ··· 38
Ice Case (Ice Compartment) ··· 39
Upper Case, Lower Case (Freezer Compartment) ··· 39
Upper Case, Lower Case (Upper / Lower Selectable Compartment) ··· 39
How to attach the slide door (Ice Compartment/Freezer Compartment/ Upper Selectable Compartment/Lower Selectable Compartment) ··· 39

TROUBLESHOOTING

TROUBLESHOOTING ··· 40
Initial stage ··· 40
Control Panel ··· 40
Refrigerator does not cool ··· 40
Frost and/or dew occurs ··· 40
Automatic ice making ··· 40
Lamp at Display Section is blinking ··· 41
Selectable Compartment is concerned ··· 41
There is something strange with the Vacuum Compartment ··· 42
Door is not in a horizontal state ··· 43
It smells strange ··· 43
Refrigerator cools overly ··· 43
Refrigerator becomes hot ··· 43
Abnormal operating sound is generated ··· 43
Others ··· 44
Wireless LAN ··· 45
Transporting your refrigerator (transport for moving) ··· 47
AVAILABLE PARTS ··· 47
Triple Power Deodorizing Effect ··· 47
ABOUT NON-CFC REFRIGERATORS/STORABLE WEIGHT ··· 51

SAFETY SUGGESTIONS

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 pictographs categorize and explain the level of possible harm on damage that may occur from ignoring suggestions resulting in missing the appliances.

⚠ **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.

■ How the suggestions should be taken are indicated and categorized by the following symbols accompanied by explanations. (The symbols below are examples)

⃠	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.

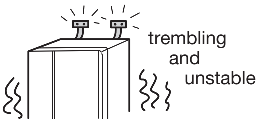
⚠ R600a	This symbol denotes the precautions on flammable refrigerants.

⚠ WARNING

Installation

● **Take measures to prevent overturning of refrigerator due to earthquake, etc.**

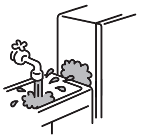
- Overturning of the refrigerator could result in personal injury.



Wetting Prohibited

● **Do not install the refrigerator in damp places or where water may splash.**

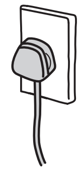
- This may impair electricity insulation causing electric shock or fire.



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.**

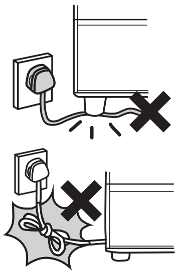


If a power source is shared with other appliances, double or multipoint adapters may heat up beyond normal levels and cause fire.

- Use a wall outlet rated above 10 ampere by itself.

● **Do not do anything that may damage the power cord or plug.**

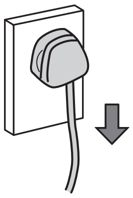
(The power cord or plug should not be cut, modified, touched with hot implements, bent by force, twisted, pulled, have heavy objects placed on it, squeezed by the refrigerator, or be bound or tied up.)



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

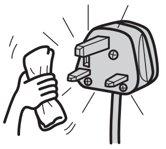
- If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

● **Connect the power plug firmly to a power outlet with the cord running down.**



- Connection of the power plug with the cord running up could apply stress on the cord and cause electrical short or overheat, which could result 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 when dust collects on the power plug may cause fire.

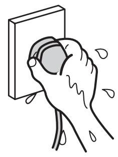
- Unplug the power plug and wipe it with a dry cloth.

⚠ WARNING

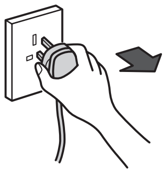
Handling the power and power cable

Wet Hands Prohibited

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



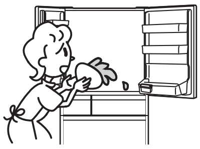
- **Be sure to unplug the power plug before maintaining the refrigerator.**
  Continued use may cause electric shock or injury. → Pg.35
  - Always hold the plug when unplugging it.



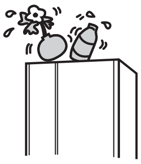
During use

Wetting Prohibited

- **Do not splash water on or inside the refrigerator.**
  - This may impair electrical insulation causing electric shock or fire.

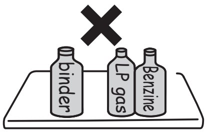


- **Do not put water containers on the refrigerator.**
  - Spilled water may impair insulation of electrical components causing faulty electrical currents. This may result in electric shock or fire.

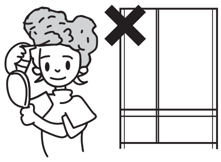


Prohibited

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

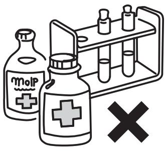


- **Do not store dry ices in the refrigerator.**
  - It may be dangerous of busting if placed in a bag or etc.
- **Do not use flammable sprays near the refrigerator.**
  - Sparks from points of electrical contact such as door switches may ignite a fire.



- **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.

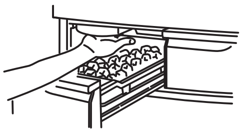


- **Do not put things on top of the refrigerator.**
  - Opening and closing doors etc. may cause things placed on top of the refrigerator to fall resulting in injury.

- **Do not remove the cover of the interior lamp.**
  - When the interior lamp is damaged, please contact the service centre for replacing the lamp to avoid injury.
- **Do not add impact to the glass door.**
- **Do not locate multiple portable socket-outlets or portable power supplies at the rear of the appliance.**

Contact Prohibited

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



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

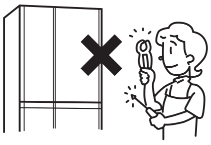
⚠ WARNING

R600a

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

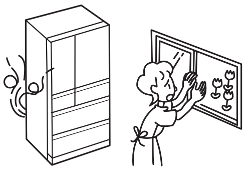
Prohibited

- **Do not scratch or damage the 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.

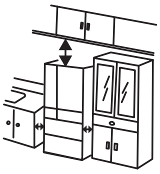


- **Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.**
- **Do not use electrical appliances inside the refrigerator.**
  - If the refrigerant leaks, sparks on the contact may cause ignition and explosion.

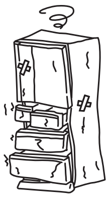
- **Do not damage the refrigerant circuit. If you happen to damage the refrigerant pipe, stay away from the refrigerator and avoid using fire and electrical appliances.**
  Should you damage the refrigerator, open the window to ventilate and contact the authorised service centre.



- **Allow clearance around the refrigerator and keep ventilation openings when installing it.** → 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.

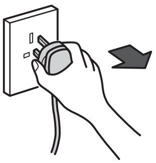


R600a

- **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 and installation of used flammable refrigerant shall be done by Hitachi authorized service companies or service personnel only.**

In case of emergency

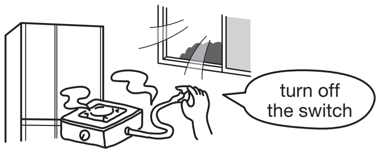
- **Stop the refrigerator by unplugging it if it is not running properly or breaks down.**
  Continuous running may cause electric shock or injury.
  - Always hold the plug when unplugging it.



Disassembly prohibited

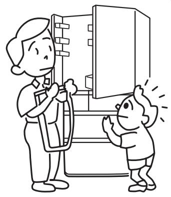
- **Do not disassemble, repair, or modify your refrigerator.**
  Injury may be caused by ignition of fire or faulty running.
  - Please consult with a retailer if any repairs or disassembly are required.

- **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.



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.**



Wireless LAN Feature (Remote control by wireless LAN function)

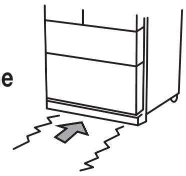
- **Do not use this near automatic control devices such as automatic door.**
  Radio waves from the wireless LAN may affect automatic control devices. It may cause a malfunction.
- **Do not use this in rooms with medical electrical equipment.**
  Radio waves from the wireless LAN may affect the medical device. It may cause a malfunction.
- **Keep this device away from your cardiac pacemaker.**
  Radio waves from the wireless LAN may affect the operation of your cardiac pacemaker.
  If you are using a cardiac pacemaker, please consult the medical specialist on using this machine.

⚠ CAUTION

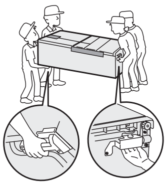
When moving the refrigerator

Prohibited

- **Do not move the refrigerator by using its wheels as it may damage the floor.**
  - Please lay a protective mat.
- **Never hang the handle with a crane, etc.**
- **Take care not to bang the back / side of the refrigerator.**



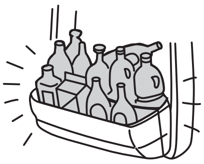
- **Use the carrying handle when carrying it.** Your hands may slip resulting in injury if you hold the refrigerator at other places than the carrying handles.
  - More than 2 persons should carry the refrigerator for safety reasons.
  - Carry it with the door facing upward; as shown in the illustration.
  - Never hang the handle with a crane.
  - Use a tape to fix an electric plug/power cord so that it may not hang down.



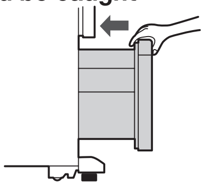
During use

Prohibited

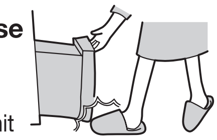
- **Do not put bottles in the Door Baskets if they do not sit properly on the bottom of the front section.**
  - Forcing in items like large bottles may result in them getting tipped over, causing injury.



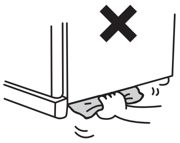
- **Do not put the glass bottles in the Freezer Compartment.**
  - Bottles may break from the contents freezing and cause injury.
- **When opening or closing a door while the adjacent door is left open, exercise caution lest your hand or a finger should be caught between the opened doors.**
- **Do not close a door while holding a portion other than the handle.**



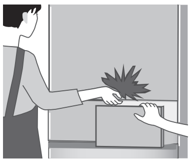
- **Do not put your feet too close when opening the bottom door of the refrigerator.**
  - When opening this door you may hit the instep or other parts of your feet resulting in injury.



- **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.**

- **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 and closing a door while other door is opened, be careful lest your finger or hand 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 ask us for inspection.**

BEFORE USE

Preparation before use

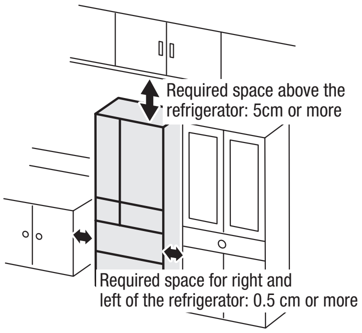
1

Please arrange it as shown below

- 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 the refrigerator from rusting and dew condensation.
- The place should be separated from other equipment. To prevent disturbance (noise / scattered image) to TV and others attributable to the refrigerator.
- Provide a heat-releasing space (See the right diagram)

※ 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 enough space around when installing the refrigerator.

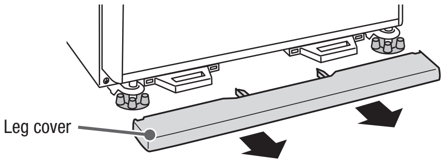
※ If you care about discoloration of or dirt on the rear wall, provide a gap of **2 cm or more**. This also prevents vibration noise or dew condensation on the rear wall due to high humidity.


Required space above the refrigerator: 5cm or more
Required space for right and left of the refrigerator: 0.5 cm or more

2

Fixing the refrigerator on the level or adjusting its horizontal level

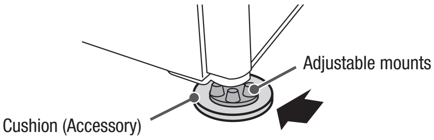
1 To remove the leg cover, hold the leg cover and pull it towards to you.



2 Place pads under the adjustable mounts.

Place pads under the adjustable mounts evenly so that they can be leveled.

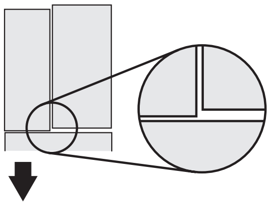
- Always wipe the adjustable mounts and floor clean before placing pads. Adherents may scratch the floor if they remain.



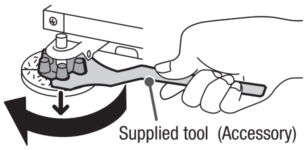
3 Rotate the right and left adjustable mounts until they reach the floor. Adjust the mounts so that the right and left doors of the Refrigerator Compartment get parallel.

The height of the door can be adjusted 1mm every one turn of the adjustable mount.
Clamp the supplied tool adjusting to the shape of the adjustable mounts.

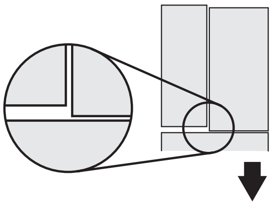
■ **The left side door is lower.**



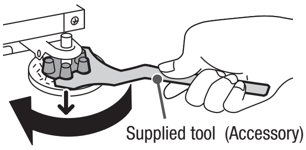
Turn the left Adjustable mount to lower the left side door.



■ **The right side door is lower.**

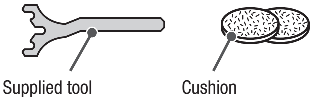


Turn the right Adjustable mount to lower the right side door.



- Be careful not to scratch the floor with the supplied tool when turning the adjustable mount.
- Excessively turning an adjustable mount may cause it to detach.

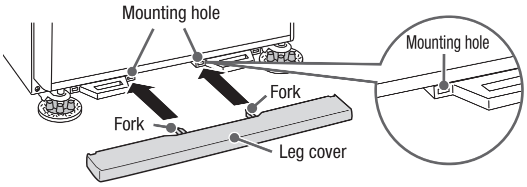
Make sure to use a supplied tool and 2 cushions



Notice

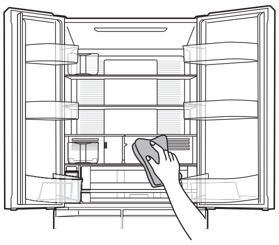
- Depending on the material or strength of a floor on which the refrigerator is installed or the weight of food put in it, a door may sag in several days (about five days) after the installation.
  If this happens, adjust the parallelism between the doors again.
- Installing the refrigerator on an unlevel floor or sinking of its leg(s) due to a floor which is not strong enough to support the weight of food may cause a difference in level between the right and left doors.
  This does not affect the refrigerator function. Adjust the parallelism of the doors according to the left procedure if you want to correct it.
- Correcting any left/right lean and lifting slightly the front side of the refrigerator until the door can close easily and completely.
- When you release your hand from a refrigerator door with the door open, the door may move, but this is normal.

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



3

Cleaning the inside of the refrigerator → Pg.35～37



- Wipe it with a wet and soft cloth and then wipe it with a dry cloth.
- Wash the water supply tank, water filter and ice tray with water.

※ Do not wipe off the lubricant applied to the drawer rail or rail contact surface. (The lubricant is compliant with the Food Sanitation Act)

※ Initially, the inside may smell like plastic. If you do not like it, ventilate the room so that the smell does not linger for long. (The smell will fade away gradually)

4

Plug the power cord.

It is not a problem to plug in the power cord soon after installing the refrigerator.
Use a wall outlet exclusively when connecting the power cord. (Alternating current 220 - 240V, rated 10A 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 starts. (After cooling the Refrigerator Compartment, the other storage compartments (the Ice Compartment, Freezer Compartment, Selectable Compartment) are cooled)

- **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 it until the inside of the refrigerator is cooled well.
- Perform **"Ice Maker Cleaning"** when using the automatic ice making function first. → Pg.37
- A series of ice making operation will start automatically after the inside of the refrigerator is cooled well.
  (When using for the first time, it may **take 24 hours and more to make ice**.)
- If the inside of the refrigerator has a low temperature, cooling may not start until the elapse of about 10 minutes after inserting the power plug.

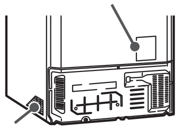
5

Confirm the settings of the Upper / Lower Selectable Compartments.

At purchased, Upper Selectable Compartment is set as "Freezer", and Lower Selectable Compartment is set as "Fridge". Switch to your preferred setting for use. → Pg.29

Notice

- **Pipes may require rust preventive measures.**
  If your refrigerator is installed near a hot-spring or industrial area or a sewage pipe, the refrigerator pipe may corrode due to sulfidizing gas. Consult your dealer. If the pipe is blackened, any failure due to a gas hazard is not covered by our guarantee.
- **You will hear an operating sound after inserting the power plug. You may feel that the compressor or fan is noisy before the refrigerator is fully cooled.**
- Do not peel off the seal on the back or plastics at the lower part of the side.
- When a magnet or suction cup is attached on the side of the body or the surface of a door, it may leave a mark.
- When you attach a paper sheet on the door surface in a high ambient temperature, dew may form on the door surface, or the paper may absorb moisture.



CAUTION ON USE OF THE WIRELESS LAN

Radio wave

Following acts may be punishable by law.

- Disassemble / remodel this product
- Erase the conforming indication of the rating nameplate and built-in radio equipment

If this product is used in the following places, communication may become unstable.

- A place where magnetic fields, static electricity, or radio waves are generated (around equipment such as microwave ovens)
- Around devices that use the same frequency (2.4 GHz) as this product (other wireless LAN, PC peripheral devices, etc.)
- A place covered with a metal product that is easy to reflect radio waves
- A place apart from the wireless LAN router or where there is an obstacle between them

Frequency band for use

The built-in radio equipment of this product uses the frequency of 2.4 GHz band.
In order to use all the functions of this product, it is necessary to connect the smartphone to the 2.4 GHz band wireless LAN.
Please be aware of the following items to prevent the radio-waves interference with other wireless devices.

In the use frequency band of this product, in addition to industrial, scientific and medical devices such as microwave ovens, premises radio stations (radio stations which require a license) and specified small power for mobile identification used in factory production lines etc. Radio stations (radio stations which do not required a license) and amateur radio stations (radio stations which require a license) are operated.

① Before using this unit, make sure that the premises identification station for mobile identification and specified low power radio stations and amateur radio stations are not being operated nearby.

② If a harmful radio interference case occurs from this product against the premises identification station for mobile identification, immediately change the use frequency or stop the emission of radio waves and then consult with the smartphone consultation desk regarding connection and network connection for taking measures to avoid interference (such as the installation of partitions, etc.)

③ In addition, if any problems including harmful radio interference from this product against a specified low-power radio station or an amateur radio station for mobile identification occurs, contact to the consultation desk regarding the connection to a smartphone and network connection. → Pg.52

At connection

Please note that Hitachi shall not assume any liability if a problem occurs without taking measures against the following matters.

- Wireless LAN may be intercepted because it uses radio waves to transmit and receive data.
- If security measures are not taken, there is a possibility of hacking.
- Use a wireless LAN router that can set WPA2 or WPA (both of them are TKIP or AES) as the encryption method.
- Do not connect to devices and networks for which security measures have not been taken at setting wireless connection.
- If an unexpected problem occurs, data stored inside the smartphone connected to this product or other external devices may be damaged or lost. Backup, in advance, measures are needed for the occurrence of such problem.
- At connecting to this product, Hitachi shall not assume any liability, in any case, for damage or loss of data stored in the smartphones and other external devices and breakdown of the connected devices.
- If communication is temporarily disconnected, the setting contents may not be sent or the usage status may not be updated. Especially during driving, use while checking the communication status.
- Communication sensitivity, communication distance, and communication time vary depending on the type of smartphone and wireless LAN router. Use this while checking the communication status.
- Hitachi shall not assume any liability for damage caused by communication by wireless LAN feature except for the damage caused by defects of the product.

Export control

Please check the relevant laws and regulations in your country and follow any necessary procedures when exporting this product.

Trademark

- “iPhone” is a trademark of Apple Inc. “App store” is a trademark of Apple Inc.
- “Google Play^{TM} store” and “Android” are trademarks or registered trademarks of Google Inc.
- Wi-Fi^{TM} is a trademark of Wi-Fi Alliance®.
- Wi-Fi Protected Setup^{TM}, WPA^{TM}, WPA2^{TM} are trademarks of Wi-Fi Alliance®.
- Bluetooth® is a registered trademark of Bluetooth SIG, Inc.

In addition, various names, company names, product names, etc., described in this manual are trademarks or registered trademarks of respective companies. And, “^{TM}” and “®” marks are not described in some parts of the text.

WHAT CAN BE DONE WITH THE SMARTPHONE

You can use the application from your smartphone to check the operation and status of the unit.

● **"Control panel" function to check the operating status of the refrigerator and can change its settings** → Pg.17

- ・The operation status and New Messages of the refrigerator can be confirmed.
- ・Displays the times of door opening and closing of the refrigerator for the last 10 days.
- ・The temperature control of the refrigerator and freezer compartment and the setting of the automatic ice maker can be changed.

● **"My Lists" function that can manage ingredients** → Pg.17

By taking photos with the smartphone's camera, it can be confirmed how many days have passed since the ingredients was put in the refrigerator.

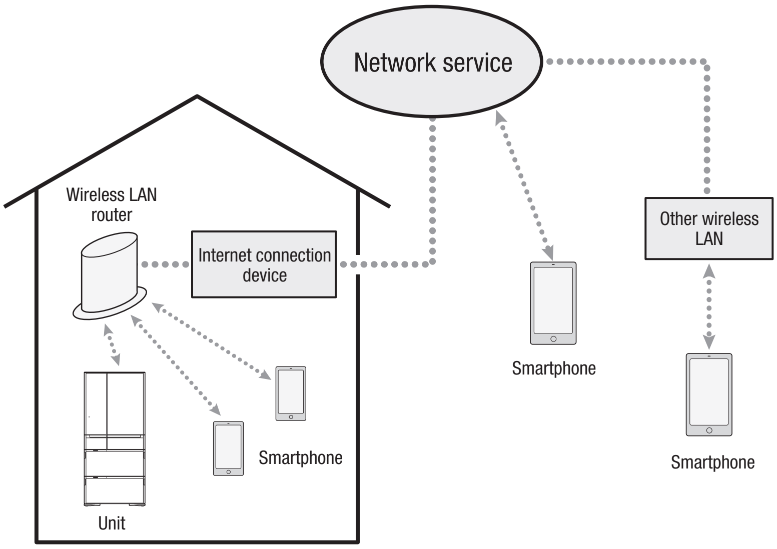
● **"Support" function** → Pg.17

The instruction manual can be browsed from the smartphone if the operation is unknown or is in trouble.

● **"Notification" function to receive notifications both at home or while out of home** → Pg.18

It notifies the smartphone if the door is left open, ice maker cleaning is completed and etc.

● **Updating the software of the unit** → Pg.19



Caution

- ● In order to operate the unit and check the status by the smartphone, it is necessary to set the pairing setup the wireless LAN router. → Pg.12
- ● If the unit and the wireless LAN router cannot communicate, it will be in the "Not connected" state and cannot be operated from your smartphone.
  - ・Be careful when moving the unit or wireless LAN router. Communication may not be possible.
  - ・If you simultaneously use a device such as a microwave oven with 2.4 GHz band, communication may be interrupted.
- ● One single unit can be operated by up to five smartphones. It is not possible to operate immediately after another person operates.

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

- ● It is used to improve services and to develop and upgrade new services.
- ● It is used for the correspondence improvement at the time of repair service or to contact a consultation desk.
- ● It is used for quality improvement.
- ● For details such as the handling of personal information, please refer to the terms of use of the application.
  The terms of use can be confirmed when launching the application for the first time, or by the "Menu" button.
  ※ The application is "Hitachi Fridge" application.

CONNECT TO THE SMARTPHONE

Procedures before use

With pairing, the connection setting of the unit and smartphone is made, and they are mutually recognized to enable operation and status confirmation of the unit by smartphone through the wireless LAN network.
Once the pairing is set up, you do not have to set each time you use it. Make sure that the following environment is in place.

Necessary environment

- **There is an Internet connection environment**
  - Internet connection requires a contract with an internet provider, and an internet connection.

- **A wireless LAN router is installed**
  - Use a wireless LAN router that can set WPA2 or WPA (both of them are TKIP or AES) as the encryption method.
  - The communication standards need to correspond to any of IEEE 802.11b / g / n (2.4 GHz only).
    However, it does not guarantee the operation of all wireless LAN routers.
    It cannot connect to the 5 GHz wireless LAN routers such as 5 GHz of IEEE 802.11.n or IEEE 802.11.ac.
  - If it is impossible to connect the unit and smartphone to the wireless LAN router, refer to "Troubleshooting?" → Pg.45-46

- **There is a compatible model of smartphone**
  - Use "Android" or iOS (iPhone) smartphone.
    Please refer to the following site or the code on the right for compatible OS versions.
    https://www.homeappliances.hitachi.com/global/app/ref/series01/index.html
  - When using this service, communication costs will be incurred.
  - In order to use all of the functions of this product, it is necessary to connect the smartphone to a 2.4 GHz band wireless LAN router.
  - Tablet terminal is out of the operation guarantee.

Install the application

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.homeappliances.hitachi.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 → Pg.14)
- If the pairing setting has failed, refer to “Troubleshooting” and start over from the beginning. → Pg.45

Preparation

Confirm the SSID and password of the wireless LAN router connected to the unit.

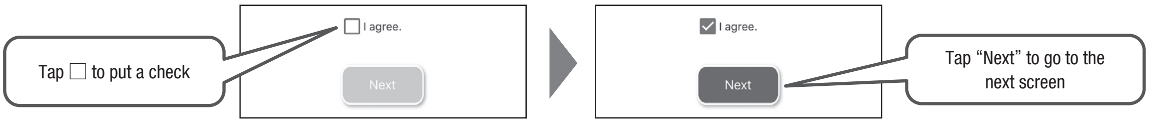
- Select a wireless LAN router that can be connected even where the unit is installed.
- Select a wireless LAN in the 2.4 GHz band. (pairing is not possible in the 5 GHz band)
- The wireless LAN router’s SSID is the name shown at the Wi-Fi setting of the smartphone.
  If he SSID and password of the wireless 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

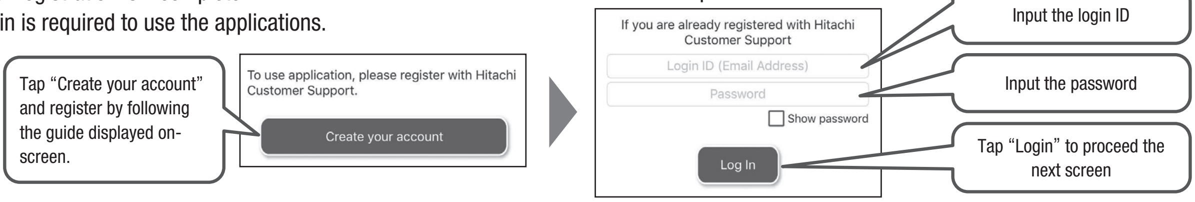
2

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.

※ If your member registration is incomplete


To use application, please register with Hitachi Customer Support.

If you are already registered with Hitachi Customer Support

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

Input the login ID

Input the password

Tap “Login” to proceed the next screen

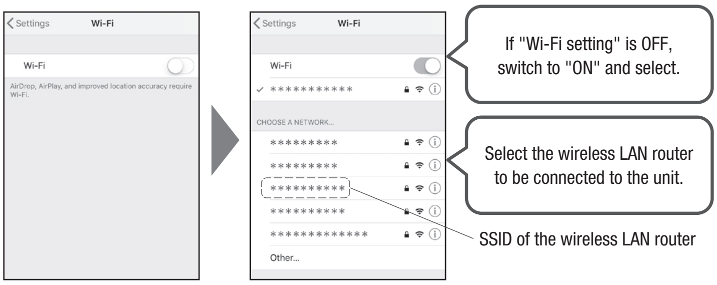
3

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.


AirDrop, AirPlay, and improved location accuracy require Wi-Fi.

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

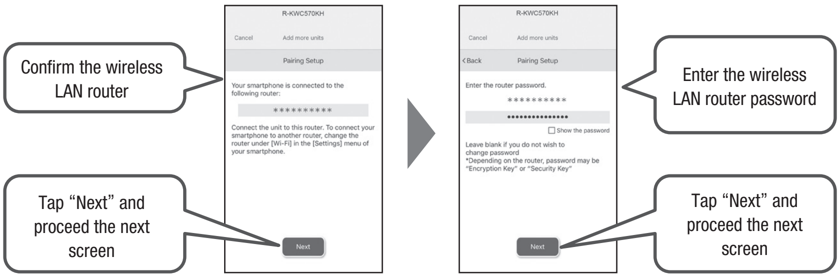
4

Enter the wireless LAN router password in the application

Operate 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.


Your smartphone is connected to the following router:

Connect the unit to this router. To connect your smartphone to another router, change the router under [Wi-Fi] in the [Settings] menu of your smartphone.

Enter the router password.

Leave blank if you do not wish to change password
*Depending on the router, password may be “Encryption Key” or “Security Key”

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

CONNECT TO THE SMARTPHONE (CONTINUED)

5 Set the wireless LAN function as “Yes”

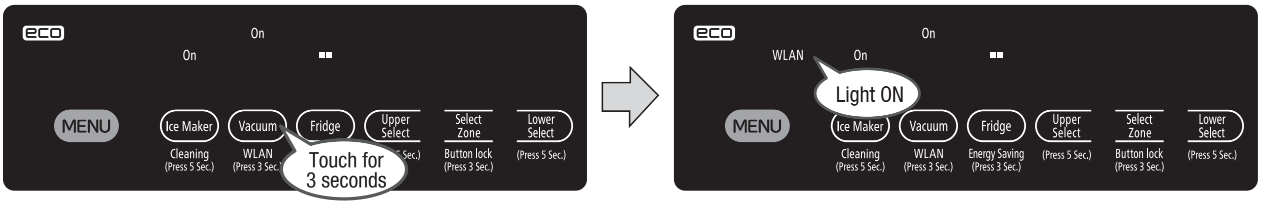
Operate the unit

1 Touch MENU button on the Control Panel to turn on the indicator lamp.

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

2 Touch and hold Vacuum for at least 3 seconds until the setting sound (beep) sounds to light WLAN .

Notice ● The light of indications shall turn off in about 40 seconds for energy savings, but the setting will continue until its cancellation.


eco
On
On
MENU
Ice Maker
Vacuum
Fridge
Upper Select
Select Zone
Lower Select
Cleaning (Press 5 Sec.)
WLAN (Press 3 Sec.)
Button lock (Press 3 Sec.)
(Press 5 Sec.)
Touch for 3 seconds
eco
WLAN
On
On
Light ON
MENU
Ice Maker
Vacuum
Fridge
Upper Select
Select Zone
Lower Select
Cleaning (Press 5 Sec.)
WLAN (Press 3 Sec.)
Energy Saving (Press 3 Sec.)
(Press 5 Sec.)
Button lock (Press 3 Sec.)
(Press 5 Sec.)

(At the time of purchase)

6 Set the unit pairing mode

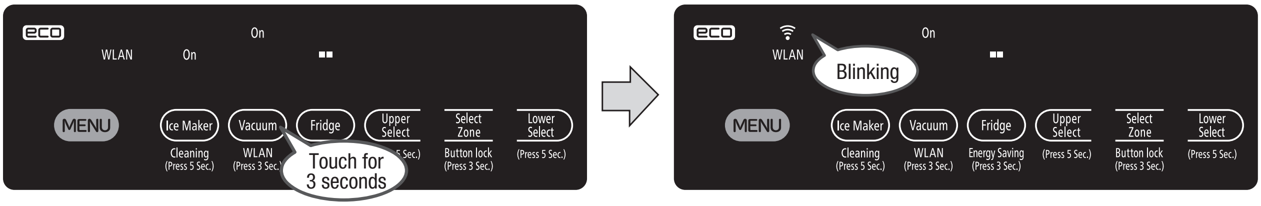
Operate the unit

1 Open the door of the ice compartment.

2 Touch MENU button on the Control Panel to turn on the indicator lamp.

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

3 Touch and hold Vacuum for at least 3 seconds until the beep sounds to blink 📶 .

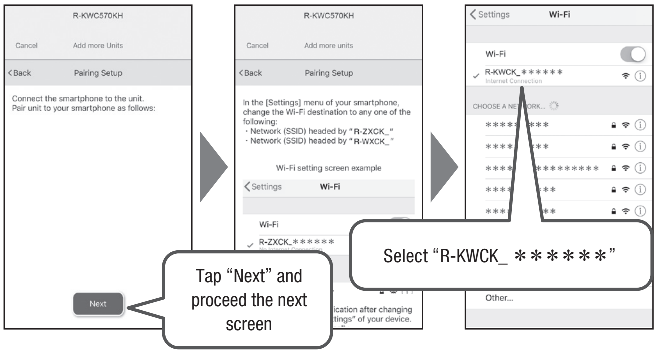

eco
WLAN
On
On
MENU
Ice Maker
Vacuum
Fridge
Upper Select
Select Zone
Lower Select
Cleaning (Press 5 Sec.)
WLAN (Press 3 Sec.)
Button lock (Press 3 Sec.)
(Press 5 Sec.)
Touch for 3 seconds
eco
WLAN
On
Blinking
MENU
Ice Maker
Vacuum
Fridge
Upper Select
Select Zone
Lower Select
Cleaning (Press 5 Sec.)
WLAN (Press 3 Sec.)
Energy Saving (Press 3 Sec.)
(Press 5 Sec.)
Button lock (Press 3 Sec.)
(Press 5 Sec.)

7 Select “R-KWCK_ ＊＊＊＊＊＊ (＊ is alphabet or number)in the Wi-Fi setting.

Operate the settings of the smartphone

When the screen on the right is displayed on the dedicated application, move to the Wi-Fi setting screen of the smartphone and select “R-KWCK_ ＊＊＊＊＊＊ ” .

- The message “Network not connected” may be displayed, but proceed as it is.
- It may take a while for “R-KWCK_ ＊＊＊＊＊＊ ” to be displayed.
  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.


R-KWC570KH
Cancel
Add more Units
Back
Pairing Setup
Next
R-KWC570KH
Cancel
Add more units
Back
Pairing Setup
Settings
Wi-Fi
Wi-Fi
Settings
Wi-Fi
Wi-Fi
CHOOSE A NETWORK...
Other...

Connect the smartphone to the unit.
Pair unit to your smartphone as follows:

In the [Settings] menu of your smartphone, change the Wi-Fi destination to any one of the following:
・Network (SSID) headed by “ R-ZXCK_ ”
・Network (SSID) headed by “ R-WXCK_ ”

Wi-Fi setting screen example

R-ZXCK_＊＊＊＊＊＊

R-KWCK_＊＊＊＊＊＊
Internet Connection

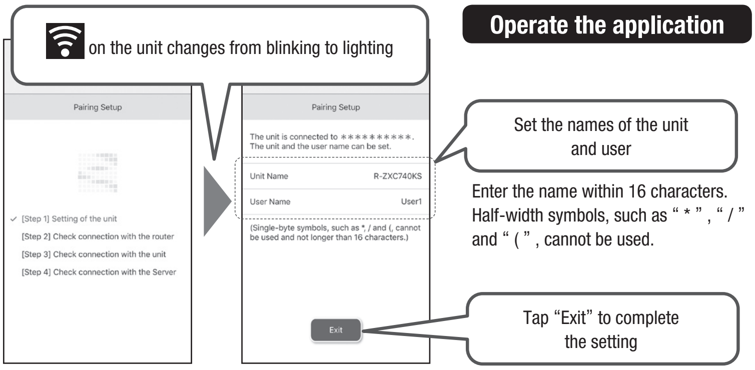
Tap “Next” and proceed the next screen

Select “R-KWCK_ ＊＊＊＊＊＊”

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

Operate the application

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.


Pairing Setup
Pairing Setup
Exit

📶 on the unit changes from blinking to lighting

✓ [Step 1] Setting of the unit
[Step 2] Check connection with the router
[Step 3] Check connection with the unit
[Step 4] Check connection with the Server

The unit is connected to ＊＊＊＊＊＊＊＊＊＊.
The unit and the user name can be set.

Unit Name R-ZXC740KS
User Name User1

(Single-byte symbols, such as *, / and (, cannot be used and not longer than 16 characters.)

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

- Make sure that the wireless LAN password, which was entered in 4 , is correct
- Make sure that the smartphone and its OS is targeted model
- Make sure that the wireless LAN router’s communication standard corresponds to IEEE.802.11b/g/n (2.4 GHz only).
  It does not correspond 5 GHz.
- 3 Check whether the smartphone is connected to the 5 GHz SSID or wireless LAN router.
- Set the unit, smartphone, and wireless LAN router close to each other.
- Only one pairing can be set at one time. Set them one by one.
- 5 smartphones can be registered per 1 unit. 6 or more smartphones cannot be registered.
- The following devices may be affected by radio waves, and this product may not be able to communicate with the smartphone temporarily.
  ・Microwave oven during heating ・Other wireless LAN devices ・Bluetooth device etc.

HOW TO USE OTHER WIRELESS LAN FEATURES

Set wireless LAN feature to “None”

1 **Touch MENU button on the Control Panel to turn on the indicator lamp.** **Operate the unit**

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

2 **Touch and hold Vacuum for at least 3 seconds until the setting sound (2 beeps) sounds to turn off WLAN .**

・If the wireless LAN feature is set at “No” , functions that can be operated with a smartphone cannot be used. → Pg.17
・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.

Delete all registration information (initialization)

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

1 **Touch MENU button on the Control Panel to turn on the indicator lamp.** **Operate the unit**

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

2 **Touch and hold Vacuum for at least 3 seconds until the setting sound (beep) sounds to light WLAN .**

※ If WLAN is already lit, proceed to 3 .

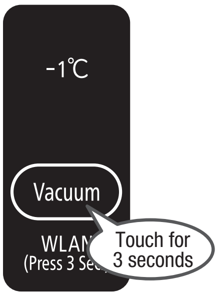
Notice ● The displaywill turn off in about 40 seconds for energy savings, but the setting will continue untilreleased.

3 **Open the Lower Freezer.**

4 **Touch MENU button on the Control Panel to turn on the indicator lamp.**

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

5 **Touch and hold Vacuum for at least 3 seconds until the setting sound (beep) sounds.**



6 **Close the Lower Freezer.**

HOW TO USE THE APPLICATION

By installing the application on the smartphone and pairing it with the unit, it becomes possible to control the unit remotely and confirm its status. Use after the pairing setup. → Pg.13

The screen and functions of the application may change without notice by the version upgrade.
The display of the application switches by receiving the status of the unit.
It may take some time to receive after operation.

How to see top screen

"MENU" button

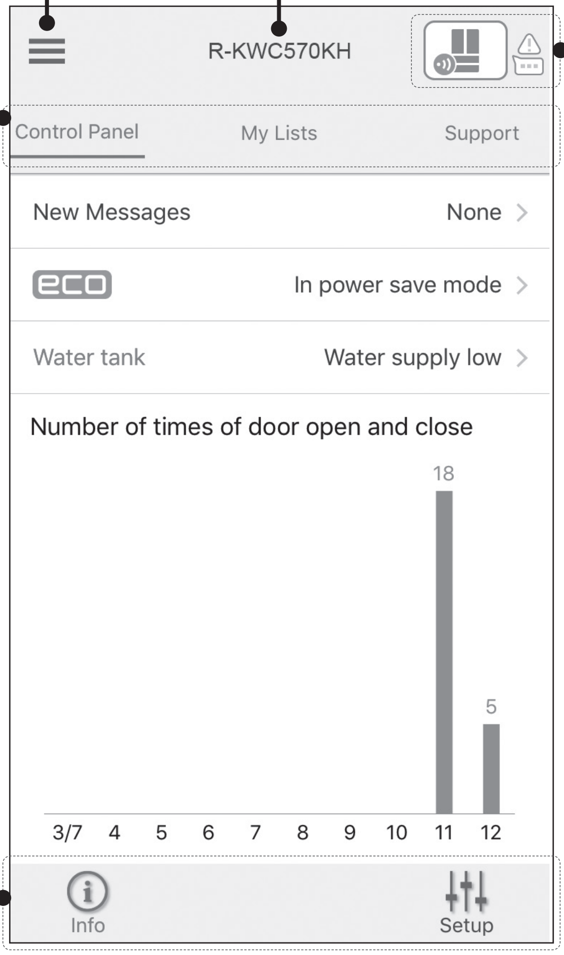
It is possible to change or confirm the setting. → Pg.18

"Tab" button

Three major functions (Control Panel, My Lists, and Support can be switched and selected.)
Press the selected "Tab" button to reload it to the latest status.

"Info", "Setup" button

It can be selected when "Control Panel" is selected by the "Tab" button of the application.
→ Pg.17



New Messages None
In power save mode
Water tank Water supply low

Number of times of door open and close

Unit Name → Pg.18

The name of the connected unit is displayed.
It can be changed by "MENU" button.

Unit status

Present unit status is displayed.
If it is tapped during the new message indicator, detailed contents of the new message indicator are indicated.

Operation status

The unit is under operation

The unit is not connected.

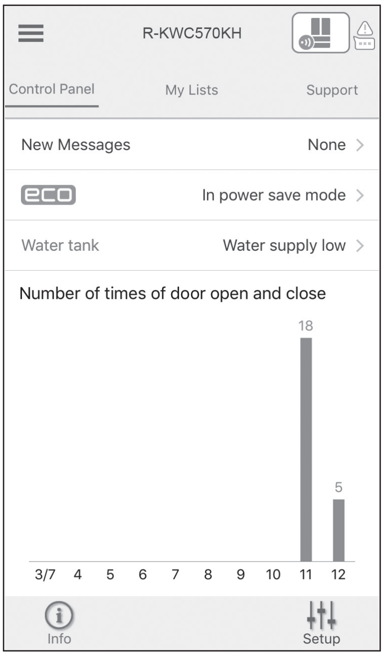
New message indicator

There is a "New Message" .

There is no "New Message" .

How to see the Control Panel (info) screen

Select “Control Panel” from the “Tab” button of the application, and tap the “Info” button at the lower left to display. → Pg.16
The operation status and new message display of the refrigerator can be confirmed. In addition, number of times the refrigerator door opens and closes for the last 10 days is also indicated. ※


R-KWC570KH
Control Panel
My Lists
Support

New Messages None

eco In power save mode

Water tank Water supply low

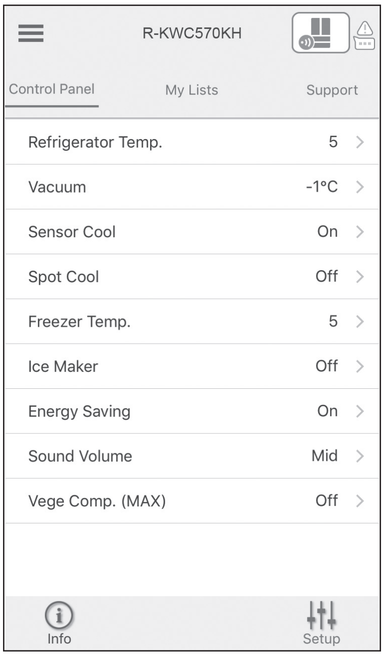
Number of times of door open and close

18
5
3/7
4
5
6
7
8
9
10
11
12
Info
Setup

※ Number for the door opening / closing is the total number of opening / closing of the doors of each compartments including the refrigerator, ice maker, lower part of the freezer, and vegetable. (Excluding the upper freezer)

How to see the Control Panel (Setup) screen

Select “Control Panel” from the “Tab” button of the application, and tap the “Setup” button at the lower left to display. → Pg.16
With using the paired smartphone, the temperature control of the refrigerator / freezer compartments and the setting of the automatic ice maker can be changed.

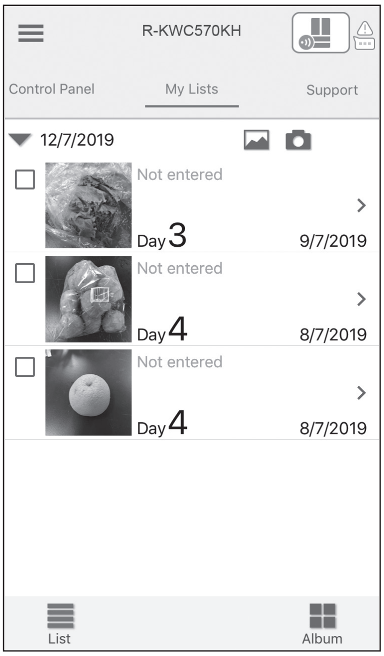

R-KWC570KH
Control Panel
My Lists
Support

Refrigerator Temp. 5
Vacuum -1°C
Sensor Cool On
Spot Cool Off
Freezer Temp. 5
Ice Maker Off
Energy Saving On
Sound Volume Mid
Vege Comp. (MAX) Off

Info
Setup

How to see the My Lists screen

Select “My Lists” from “Tab” button of the application to display. → Pg.16
By taking photos with the smartphone's camera, it can be checked how many days have passed since the ingredients put in the refrigerator.


R-KWC570KH
Control Panel
My Lists
Support

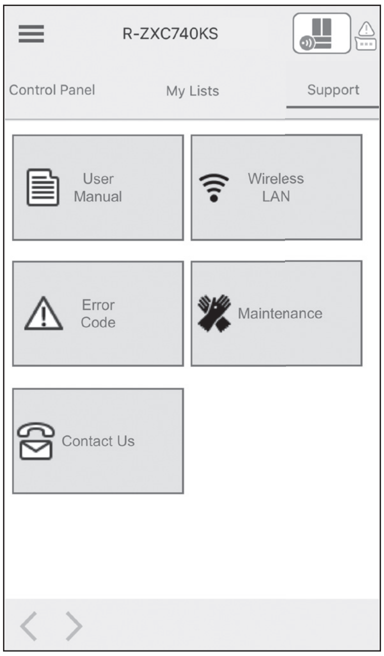
12/7/2019

☐ Not entered Day 3 9/7/2019
☐ Not entered Day 4 8/7/2019
☐ Not entered Day 4 8/7/2019

List
Album

How to see the support function screen

Select “Support” from “Tab” button of the application to display. → Pg.16
The instruction manual can be viewed on the smartphone.


R-ZXC740KS
Control Panel
My Lists
Support
User Manual
Wireless LAN
Error Code
Maintenance
Contact Us

HOW TO USE THE APPLICATION (CONTINUED)

How to use the menu

Tap “ ≡ ” button in the application to display the menu.
It is possible to register and change the registration information, make notification settings, and make settings for convenient usage.
Operate according to the indication on the smartphone screen.

■ **Connection Setup**

“Select Unit” , “Add Unit” , “Delete Unit” , “Name Setup” , and “Network setup” can be conducted.

● Select Unit

At pairing with multiple units, the unit operated from the smartphone can be switched.
If the unit is paired with multiple phones, it will be displayed first when the application is started.

● Add Unit

By pairing with a new unit, a unit to be operated can be added.
In order to change the wireless LAN router (network), change from “Network Setup” .
Up to 5 units can be paired with 1 smartphone.

● Delete Unit

- The information of the unit registered in the smartphone can be deleted.
  It shall be conducted before changing etc. the smartphone.
  When the unit is connected to a wireless LAN router (📶 lights):
    Information on the smartphones registered in the unit is also deleted.
  When the unit is not connected to a wireless LAN router (when 📶 lights out):
    The information on the smartphone registered in the unit is not deleted. Connect the unit to the wireless LAN router, and conduct "Delete registered user" on the paired smartphone.
- When the unit is transferred to another person, conduct “Delete all registered information” . → Pg.15
- After deleting the registration information in the unit, when the wireless LAN feature is used again, it is necessary to redo the pairing setup. → Pg.13

● Name Setup

- Change the names of the unit or user
  Change the names of the unit and user, registered at pairing.
- Confirm and delete registered users
  The users paired with the selected unit can be confirmed and the pairing setup between the users and the unit can be deleted.
  Up to 5 users can be paired with 1 unit.

● Network Setup

The wireless LAN router to be connected to the unit can be changed. Such change shall be conduct edat changing the wireless LAN router to be connected or the using place.
If paired with multiple smartphones, the wireless LAN router connected by devices other than the smartphone for which the setting has been changed is not changed.
Change the wireless LAN settings for each smartphone as needed.

■ **Notifications**

The operation status of the unit and the content of the notification to be notified by push notification can be set.

■ **History List**

The date and the time of occurrence of the new message indication, and the contents of such message, which occurred on the unit, can be confirmed.
The history cannot be saved correctly when the unit is not connected to the wireless LAN router.

■ **Contacts**

Display the product information and its handling, smartphone connection, and inquiry on refrigerator repair.

■ **Version**

Display the software version of the unit or the application.
The unit's software can be updated. If there is software to be updated, it will be notified to the smartphone.

■ **Terms of Use/Error Code/Copyright**

The terms of use for the application, new message about this product, and copyright info about this product and the application are displayed.

■ **Log Out**

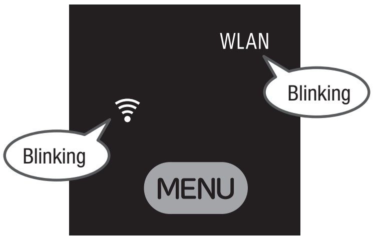
Log out.

On the updating the unit’s software

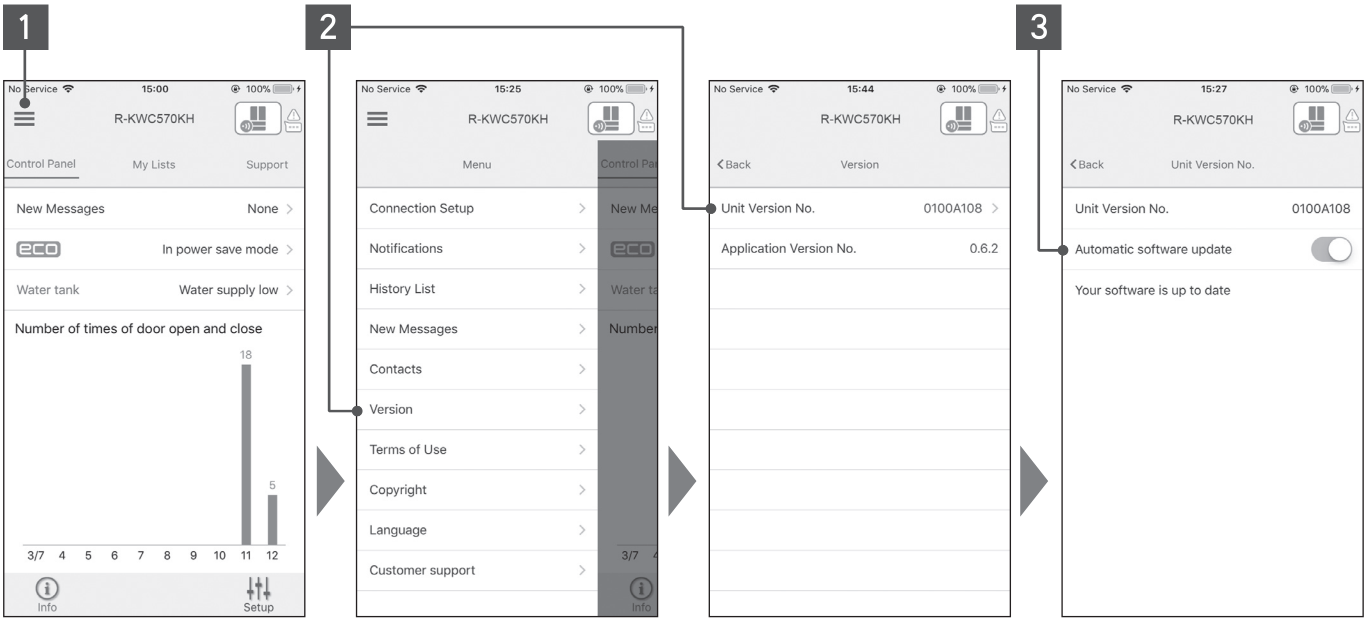
If there is software to update, the wireless LAN feature can be used to update the unit software.

Caution at updating

- In order to update the unit software, it is necessary to set the pairing via a wireless LAN router. → Pg.13
- 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.
  Do not turn off the power until the update is complete.


WLAN
Blinking
Blinking
MENU

Set the updating of the unit software


1
2
3
No Service 15:00 100%
R-KWC570KH
Control Panel
My Lists
Support
New Messages None
eco In power save mode
Water tank Water supply low
Number of times of door open and close
18
5
3/7 4 5 6 7 8 9 10 11 12
Info
Setup
No Service 15:25 100%
R-KWC570KH
Menu
Connection Setup
Notifications
History List
New Messages
Contacts
Version
Terms of Use
Copyright
Language
Customer support
No Service 15:44 100%
R-KWC570KH
Back
Version
No Service 15:27 100%
R-KWC570KH
Back
Unit Version No.

Unit Version No. 0100A108

Application Version No. 0.6.2

Unit Version No. 0100A108

Automatic software update

Your software is up to date

1 Tap “MENU” — **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.

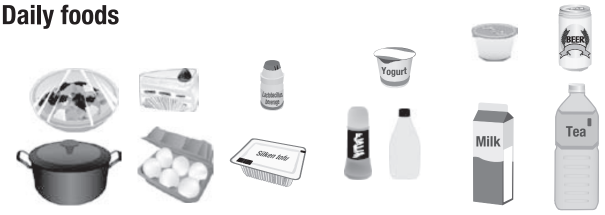
LEARN NAME & FUNCTION OF EACH PART

Name of each compartment, temperature guide, and examples of stored food

Refrigerator compartment → Pg.22 ※Setting "■■■"

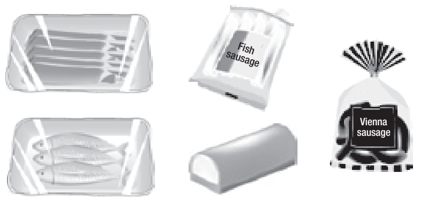
Shelf: About 0℃ ~ 3℃ Pocket: About 0℃ ~ 7℃

Daily foods


Yogurt
BEER
Silken tofu
Milk
Tea

Vacuum compartment → Pg.24

About -2℃ ~ 0℃


Fish sausage
Vienna sausage

Ice compartment

→ Pg.26

About -19℃ ~ -17℃

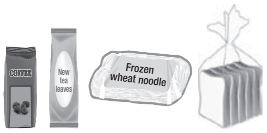
Ice made by Automatic Ice Maker

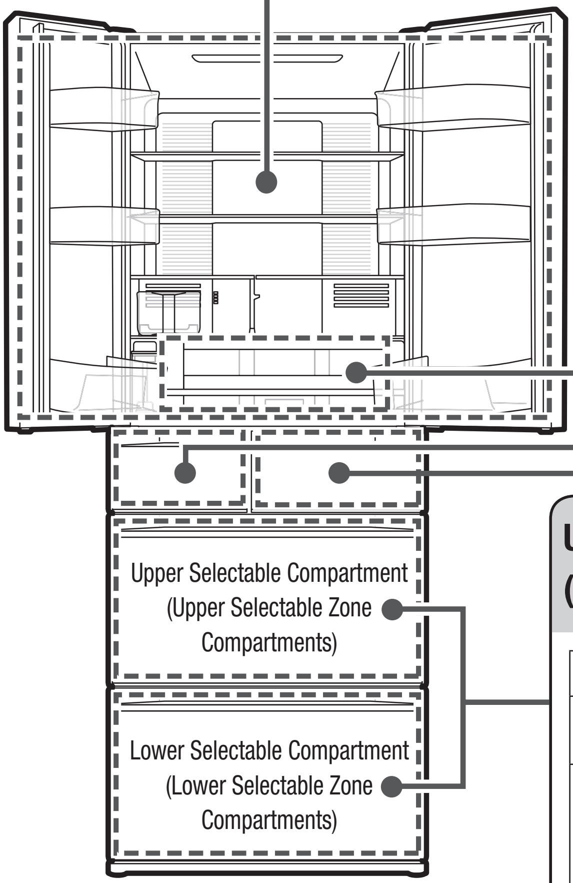
Do not put other ice and foods.

Freezer compartment

→ Pg.28

About -19℃ ~ -17℃


COFFEE
New tea leaves
Frozen wheat noodle


Upper Selectable Compartment (Upper Selectable Zone Compartments)
Lower Selectable Compartment (Lower Selectable Zone Compartments)

Upper and Lower Selectable Compartment (Selectable Zone Compartments) → Pg.29

Setting "Fridge"		Setting "Freezer" . ※ Setting "■■" .
Setting "■■■" "■■" About 1℃ ~ 6℃	Setting "■" About 4℃ ~ 8℃	About -20℃ ~ -80℃
Cooked dishes Stock of prepared foods Drinks and seasonings	Vegetables / fruits If "■■■" or "■■" is set, it takes a long time to cool the inside of the compartment, which may cause low-temperature related damage to vegetables or fruits.	Frozen foods and ice cream Stocks such as meat, seafood, rice

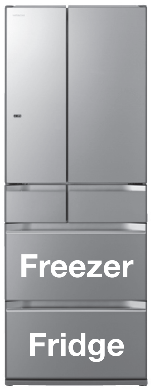
The above temperatures are standard values under the condition that the refrigerator is stable with no food stored and the door closed, at ambient temperatures of approximately 32ºC.

Tip for storage

- Store foods in a loosely arranged way.
- It is recommended to wrap smelling foods.
- There is a rough guide on the weight of foods that can be stored in the refrigerator. → Pg.51

SELECTABLE COMPARTMENT Default Settings

At purchased, Upper Selectable Compartment is set as "Freezer", and Lower Selectable Compartment is set as "Fridge". Switch to your preferred setting for use. → 29頁

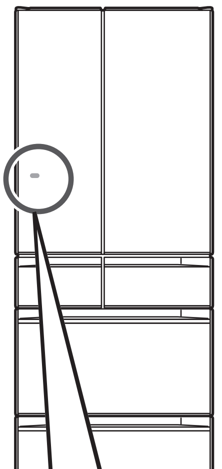

Freezer
Fridge

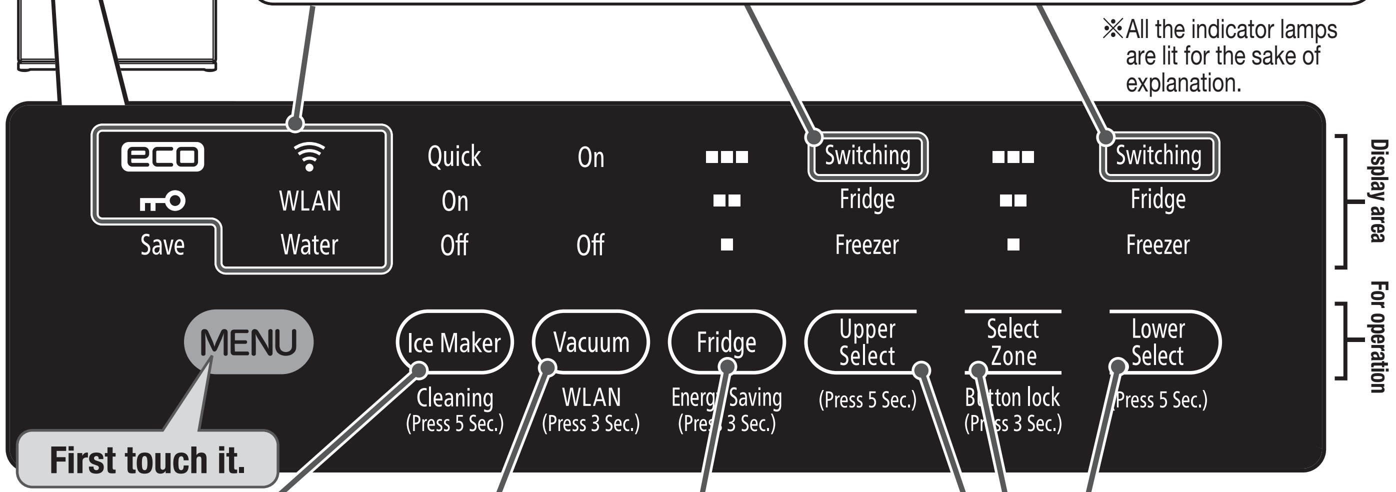
Functions of the Control Panel

The Control Panel is divided into two sections:
Display Section in the upper part and Operation Section in the lower part.
The Display and Operation Sections are normally unlit. Touch MENU to light it up.
The Operation Section is a touch panel. Touch it to toggle the setting.

Providing information

eco	It will turn on while it is working in “eco” mode. → Pg.32 [“eco” Operation indicator]
🔑	It will turn on while the Control Panel is locked. → Pg.33
📶	It will turn on while connecting to the wireless LAN with pairing setup.
WLAN	Wireless LAN function lights up when “available” . → Pg.14 While it is blinking, communication is in preparation and the wireless LAN function is not available. Please wait for a while until it lights up.
Water	It will turn on when water in the water supply container is getting low. → Pg.27 [Water Supply indicator]
Switching	Lights up while switching the setting of Selectable Compartment. → Pg.29




eco
WLAN
Save
Water
Quick
On
Off
On
Off
■■■
■■
■
Switching
Fridge
Freezer
■■■
■■
■
Switching
Fridge
Freezer
Display area
MENU
Ice Maker
Cleaning (Press 5 Sec.)
Vacuum
WLAN (Press 3 Sec.)
Fridge
Energy Saving (Press 3 Sec.)
Upper Select
(Press 5 Sec.)
Select Zone
Button lock (Press 3 Sec.)
Lower Select
(Press 5 Sec.)
For operation
First touch it.

※All the indicator lamps are lit for the sake of explanation.

Setting an ice-making

“Quick”	→ Pg.27
“On”	→ Pg.26
“Off”	→ Pg.27

Setting the Vacuum Compartment

“On”	→ Pg.25
“Off”	→ Pg.25
(Non-vacuum)	

Adjusting temperature settings

Refrigerator Compartment → Pg.22

Setting the Upper and Lower Selectable Compartment

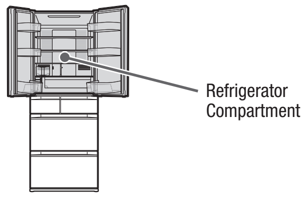
Switching the setting → Pg.29

Adjusting the temperature → Pg.30

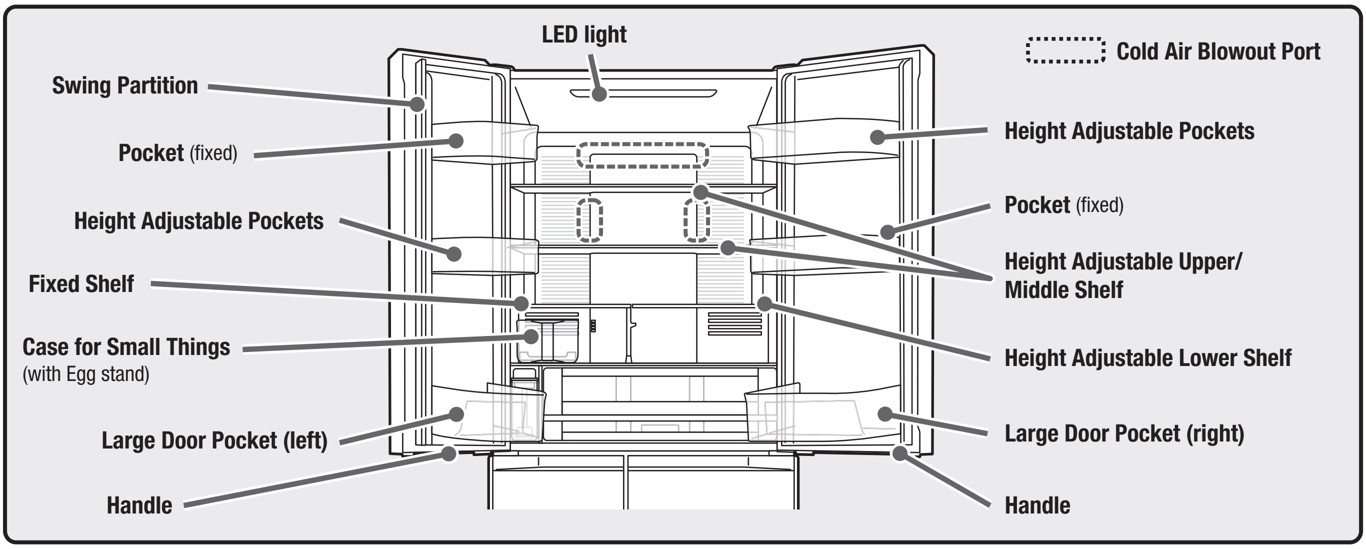
Notice

- Touch MENU to light up the Control Panel and display the current settings. The current settings are also displayed when a door of the Refrigerator Compartment is opened.
- Touch MENU again at the end of operation to turn off the light of the Display and Operation Sections.
  Even if you do not touch MENU , the display and Operation Sections go out after approx. 40 seconds for energy savings, except for the indicators of the “Energy Saving” mode, “Quick” , “Off (Stop Ice Making)” , “Water” , “Off (Non-vacuum)” , and [“eco” Operation].
- The Display and Operation Sections are lighted up when a door of the Refrigerator Compartment is opened. They go out approx. 15 seconds after the door is closed.
- Response of the touch panel may change depending on the surrounding temperature, humidity, physical condition of the user or operation status of the adjoining electric product.
- Release a finger and touch the panel again if the panel does not respond after touching it. False detection may occur (it may be kept pressed) if the time interval between key touches is too short. Response of the touch panel does not improve even if you touch it strongly.
- The panel may not respond if it is wet or dirty. After removing dirt with a wet cloth, wipe off the water with a dry cloth.
- While a door of the Refrigerator Compartment is left open or the Display Section is blinking, the Operation Section remains inactive even if you touch a button. The display is blinking. Please see → Pg.41 .

REFRIGERATOR COMPARTMENT


Refrigerator
Compartment

Parts


LED light
Cold Air Blowout Port
Swing Partition
Pocket (fixed)
Height Adjustable Pockets
Fixed Shelf
Case for Small Things
(with Egg stand)
Large Door Pocket (left)
Handle
Height Adjustable Pockets
Pocket (fixed)
Height Adjustable Upper/
Middle Shelf
Height Adjustable Lower Shelf
Large Door Pocket (right)
Handle

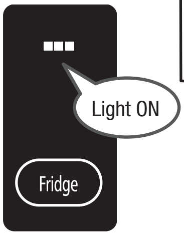
Request

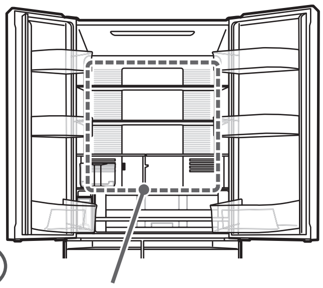
- Food containing a lot of water or canned beverage placed in front of the cold air blowout port may be frozen or burst. Avoid doing so. In particular, they are likely to be frozen if “■■■” is enabled. A lid or plastic wrap can prevent freezing.
- When storing dried foods such as rice and seaweed, put them in sealed containers (bags) and then store them. Dry foods may absorb moisture.

Use the “Moisture Cooling”

※ The refrigerator compartment is set as “Moisture Cooling” as a default.

- **The temperature of the refrigerator compartment is even lower (about 0 - 3 ˚C at setting)**
  It is recommended for storing the pre-made dishes.
  Even if a pot or similar that is hot is put in, it can be cooled without effecting other foods.
  When storing hot foods, first cool them to a temperature that can be touched by hand (50 ˚C or less). This prevents burns and shelf deformation.


■■■
Light ON
Fridge


Area for “Moisture Cooling”

Notice

- The “Moisture Cooling” setting consumes more power than “■■” . Also, the driving noise may increase.
- At setting of “Moisture Cooling” , the temperature of the pockets is also lower than “■■” .

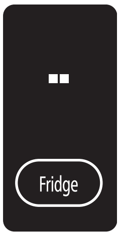
When changing the settings

If it feels too cold, use the “■■” or “■” settings.

1 **Touch MENU button on the Control Panel to turn on the indicator lamp.**

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

2 **Touch Fridge button to set the temperature as you like.**



Guide for Refrigerator Compartment temperatures:

“■■■” sets a temperature lower than that for “■■” by about 1 to 3 ˚C.

“■” sets a temperature higher than that for “■■” by about 1 to 3 ˚C.

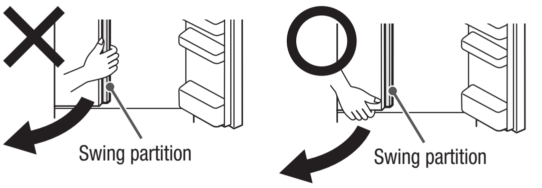
Opening and closing the refrigerator doors

Request Do not apply excessive force to the refrigerator doors, for example, by forcing open the refrigerator doors or leaning against the doors while they are open. Applying excessive force to the doors might cause them to break.

Hold the door handle when opening and closing the refrigerator doors.

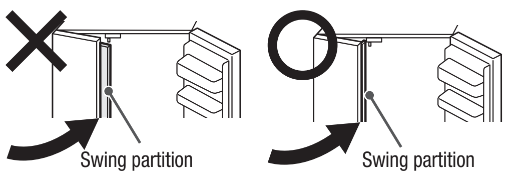
■ Opening the door

Do not pull on the swing partition to open the refrigerator door. (If you pull on the partition, you will not be able to open the door completely.)



■ Closing the door

Do not close the refrigerator door while the swing partition is raised. (If you close the door while the partition is raised, you will not be able to close the door completely.)



Adjust the height of a pocket/shelf

You can adjust the position of the pocket and the shelf depending on size of foods or beverages.
For how to remove/attach, see → Pg.38 .

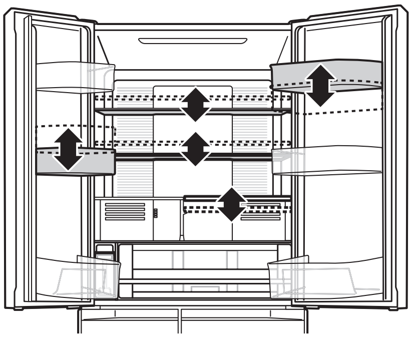
⚠ CAUTION

■ Handling the glass shelves

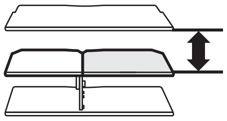
- ● Avoid a high impact on the glass shelf. (A broken glass may cause injury)
- ● Be careful to attach the glass shelves because they are heavy.

■ Height adjustable upper shelves / Height adjustable middle shelves / Height adjustable lower shelves / Height adjustable pockets

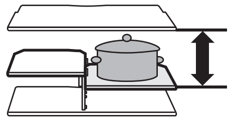
You can adjust the position of them depending on the height of foods or beverage.



● State at the time of purchase

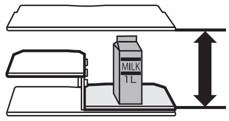


● Storage of pans, etc.



Mount the shelf board at the middle level.

● Storage of milk carton, etc.



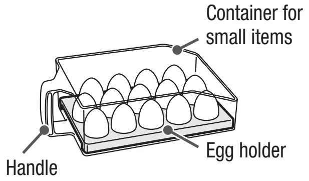
Mount the shelf board at the lower level.

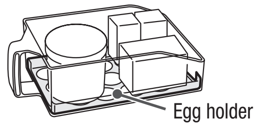
Container for small items

Place in this container eggs and other small items to be stored in the refrigerator.

The egg holder holds 14 eggs. You can even store eggs without removing them from their carton.

Flip over the egg holder to use the container to store other small items.

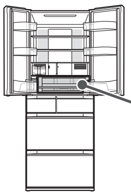


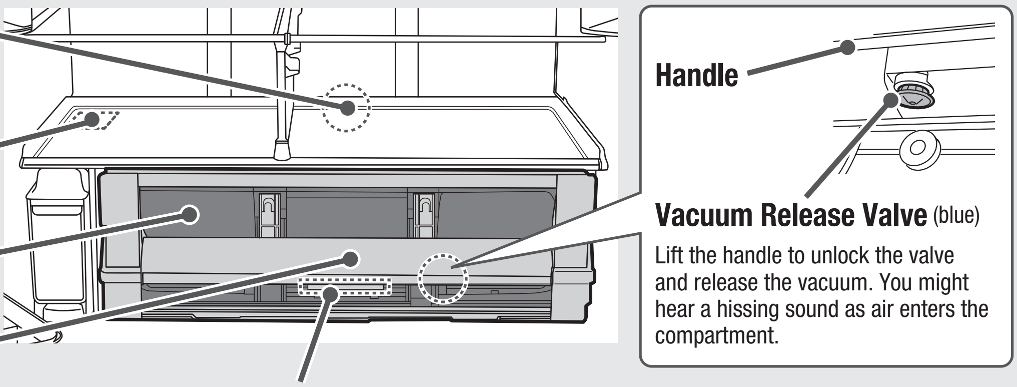


Request

- ● When handling this container, make sure you have a firm grip on the handle.
- ● Do not place items on top of each other in this container. If items are placed on top of each other, they might fall out.
- ● Do not place in this container items that are taller than the container itself (the height of the container closest to the handle).
- ● Do not use this container to make ice. If used to make ice, this container might break.
- ● Be sure to keep this container away from the cold air vent. If this container is placed near the cold air vent, items in the container might freeze or rupture.
- ● When placing this container on a shelf, make sure the entire container is securely on the shelf.

VACUUM COMPARTMENT





LED Light
Lights up the vacuum compartment when the refrigerator doors are open.

Vacuum Pump

Vacuum Compartment
(with aluminum tray)

Handle

Handle

Vacuum Release Valve (blue)
Lift the handle to unlock the valve and release the vacuum. You might hear a hissing sound as air enters the compartment.

Platinum Catalyst Helps keep food fresh by breaking down odor particles released by meat and fish, and converting the particles into carbon dioxide.

Stored foods

At the time of purchase, the refrigerator is set to the “On” .

On **(About -2°C – 0°C)**	● **Meat, processed meat** ● **Fish, seafood, boiled fish paste** ● **Thawing meat or fish** ・Foods containing a lot of water may be frozen.
Off **(Vacuum off)** **(About -2°C – 0°C)**	The vacuum function is disabled. This setting is recommended to store food in “sealed bags” or “sealed plastic containers” , which requires caution in storing. Foods with a high water content may freeze because this is an ice-temperature compartment.

Notice
- ● The vacuum effect will not be changed even if foods are wrapped. If you are concerned about the transfer of smell, be sure to wrap a food item in question.

Caution
- ● Foods high in water content may freeze if ambient temperature is low.
- ● The temperatures of the Vacuum Compartments also change if the temperature of Refrigerator/Freezer Compartment is set to “■■■” or “■” .
- ● **Do not put too much food or too many containers in the Vacuum Compartment.** Doing so may make it difficult to pull out the Vacuum Case.

■ Foods not suitable for the Vacuum Compartment

Freezing is not preferable for the following foods, store in Refrigerator Compartment.

● **Dairy products**

Cheese etc.

● **Precut vegetables and fruits**

Cut vegetables / cut fruits

● **Food which form air bubbles inside if frozen**

Silken tofu

Tofu, konnyaku, deep-fried tofu, shirataki, boiled egg, etc.

Change the settings of the Vacuum Compartment

1

Touch MENU button on the Control Panel to turn on the indicator lamp.

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

2

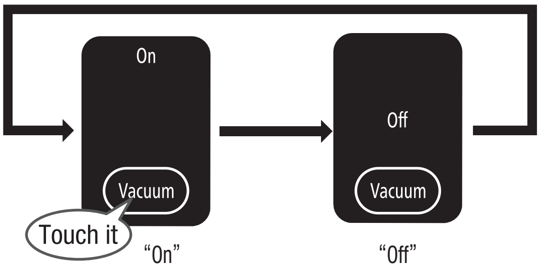
Touch Vacuum button to change the settings as you like.

The display switches in sequence as shown below every time the button is touched.

The temperature is set to “On” at the time of purchase.

Caution

- The “Off” indicator lamp continues to be lit during the “Off” operation. The display will be turned off after about 40 seconds for energy saving, but the function that is set once will remain effective.



“On”
(At the time of purchase)

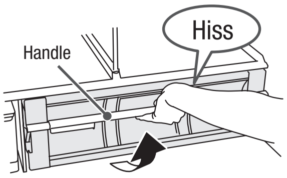
“Off”
Non-vacuum (-1˚C)

When opening/closing the door of the Vacuum Case

When opening the door

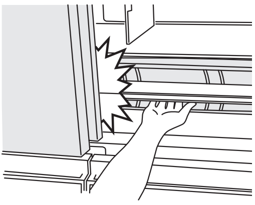
1

Pull up the handle to unlock.



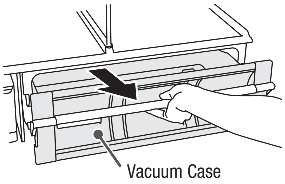
※ It takes about three to four minutes for the Vacuum Case to be vacuumed after the vacuum pump starts to operate. The hissing sound may not be heard when the Vacuum Case is opened within four minutes.

※ If you pull out the Vacuum Case without opening the door on the left/right, it may cause damage to parts.



2

Pull out the Vacuum Case.

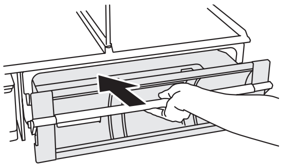


※ The hissing sound indicates that vacuum is being released. Thus, the Vacuum Case cannot be drawn out while the sound is heard. Draw it out after the sound is no longer heard.

When closing the door

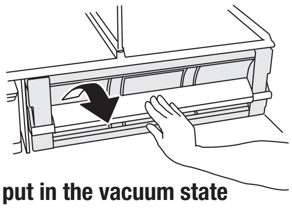
1

Push the Vacuum Case back to the end.



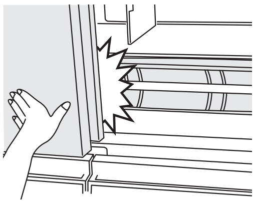
2

Press down the handle to lock.



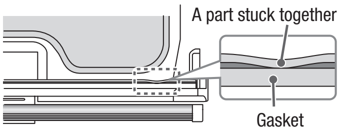
Caution

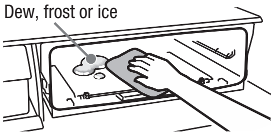
- **The Vacuum Case is not put in the vacuum state unless the handle is pushed down securely.**
- **Closing the door of the Refrigerator Compartment without locking the handle may damage parts or food or form a clearance between the doors, which reduces cooling performance.**



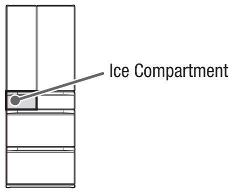
Request

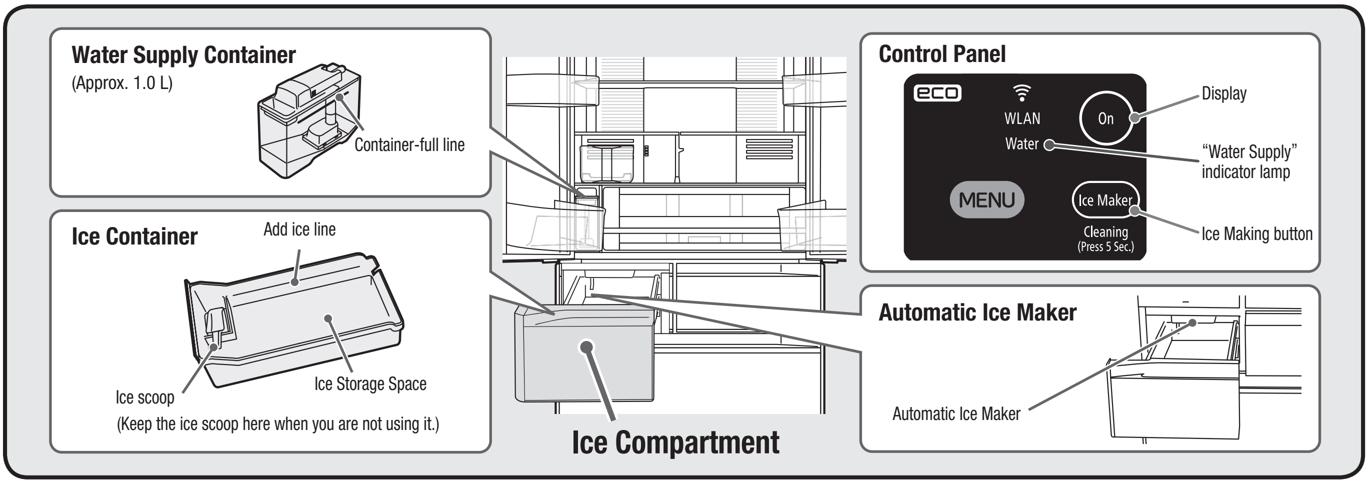
- **If a part of the gasket is stuck together, the vacuum state cannot be maintained. If it is stuck together, please remove it. Since it is difficult to see the left and right sides and the bottom, remove the Vacuum Chilled Case and check it.** → Pg.42
- Dew and/or frost may be formed in the sealed Vacuum Compartment due to moisture contained in food or in the air. Soak a soft cloth in lukewarm water and wipe off the dew and/or frost with the cloth. (Attached dew, frost or ice does not reduce performance.)
- If you want to avoid dew, frost or ice, stored food should be wrapped with plastic wrap.
- Wipe water or soup spilled in the compartment soon, if any.
- The platinum catalyst needs no replacement. Do not remove it.





ICE COMPARTMENT (AUTOMATIC ICE MAKER)


Ice Compartment


Water Supply Container
(Approx. 1.0 L)
Container-full line
Ice Container
Add ice line
Ice Storage Space
Ice scoop
(Keep the ice scoop here when you are not using it.)
Ice Compartment
Control Panel
eco
WLAN
Water
On
MENU
Ice Maker
Cleaning (Press 5 Sec.)
Display
"Water Supply" indicator lamp
Ice Making button
Automatic Ice Maker
Automatic Ice Maker

How to make Ice

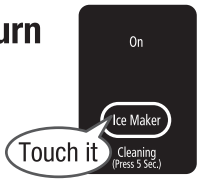
Perform "Ice Maker Cleaning" when making ice for the first time or for the first time in a week or more. → Pg.37

1 Touch MENU button on the Control Panel to turn on the indicator lamp.

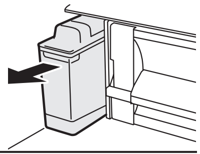
All indicator lamps turn on, and then the current settings are displayed.

2 Touch Ice Maker button to turn on "On" indicator lamp.

The "On" mode is set to "On" (light on) at the time of purchase.

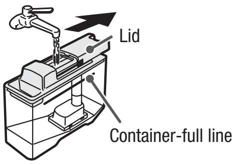

On
Ice Maker
Cleaning (Press 5 Sec.)
Touch it

3 Take off the Water Supply Container.



4 Open the lid and add water.

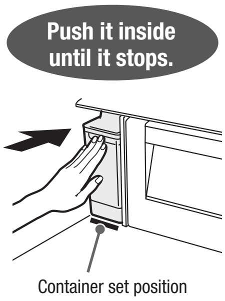
※ Do not pour water into it beyond the full water line.


Lid
Container-full line

5 Replace the Water Supply Container.

Push it straight beyond the "Container set position" line completely.

Ice cubes are not produced unless the water supply tank is pushed into the rearmost position.


Push it inside until it stops.
Container set position

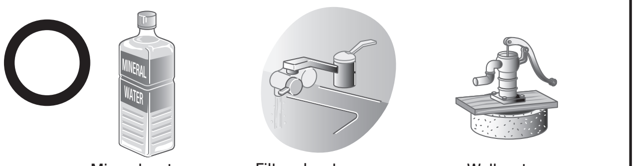
※ Water may spill out if the water supply container is inclined. Wipe off spilled water immediately.

6 Ice-Making starts automatically.

- When ice cubes reach the Container-full line, the automatic ice-making function is suspended. The function automatically resumes when ice gets low.
- When the Ice Case contains no ice cube, you may hear a large sound when ice cubes fall from the Ice Tray.

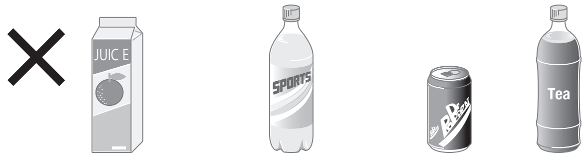
Request

- 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 come out, however this is due to those mineral ingredients and harmless.
- Furthermore, these types of water are easily contaminated with bacteria. Please wash the container usually once 3 days.


○
MINERAL WATER

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 ones because they may cause malfunction, deformation or sticking ice.


×
JUICE
SPORTS
Tea

Juice drink / Sports drink / Carbonated drink / Tea

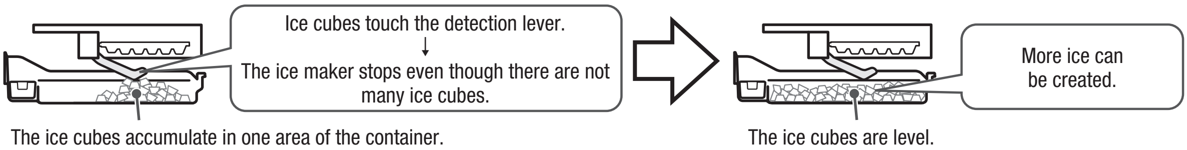
Stored ice amount and ice-making time

Model		R-KWC570K type
Stored ice amount	**Ice is leveled**	About 150 pcs
Time for one-time ice making (12 cubes)	**Normal “On”**	About 110 minutes ～ 140 minutes
	“Quick”	About 80 minutes

※ The above values are obtained with an ambient temperature of 30˚C, the temperature in each compartment set to “■■” and no door opened/closed.

Notice

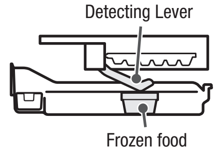
- **If ice cubes accumulate in one area of the ice container, the ice maker might stop even if there are not many ice cubes.**
- **If you level the ice cubes, you can prevent the ice maker from stopping prematurely and thus create more ice.**


Ice cubes touch the detection lever.
↓
The ice maker stops even though there are not many ice cubes.
The ice cubes accumulate in one area of the container.
More ice can be created.
The ice cubes are level.

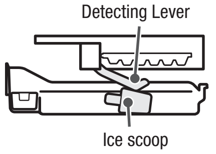
- **In the following situations, it might take some time to make ice.**
  - It is used for the first time (it may take 24 hours or more).
  - When the temperature of the Freezer Compartment is set to “ ■ ” .
  - Large volume of foods is stored in the refrigerator at a time.
  - It is set to the “Energy Saving” mode.
  - The door is opened/closed frequently.
  - When the door of the Freezer Compartment/ Ice Compartment is not closed completely.
  - In case of power outage.
  - With the low ambient temperature in winter, etc.

Request

- It is set to the “On” or “Quick” mode, do not put frozen food other than the ice cubes made by the Automatic Ice Maker in Ice Storage Space. (Doing so may prevent ice-making, damage parts or bring a part of the ice maker into contact with food, which may prevent the opening of the door.)
- Open and close the door to the ice compartment with care. If you open or close the door forcefully, ice might fall from the ice container into the freezer compartment.


Detecting Lever
Frozen food

Is any frozen food stored in the inner part of the Ice case?


Detecting Lever
Ice scoop

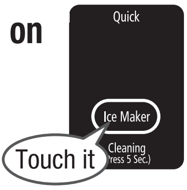
Is the Ice scoop placed in a given place?

Quick Ice Making

1 **Touch MENU button on the Control Panel to turn on the indicator lamp.**

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

2 **Touch Ice Maker button to turn on “Quick” indicator lamp.**


Quick
Ice Maker
Cleaning
(Press 5 Sec.)
Touch it

Ice cubes are made in a shorter time than that of “On” operation. 12 ice cubes are made by one ice-making operation.

“Quick” operation ends automatically in about 7 hours, and it is changed to “On” mode.

Notice

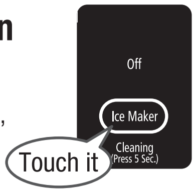
- “Quick” indicator continues to be lit during the “Quick” operation. The [“eco” operation indicator lamp] is not turned on.

Stop Ice Making

1 **Touch MENU button on the Control Panel to turn on the indicator lamp.**

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

2 **Touch Ice Maker button to turn on “Off” indicator lamp.**


Off
Ice Maker
Cleaning
(Press 5 Sec.)
Touch it

※ If you set to “Off” for 1 week or more, maintain the Automatic Ice Maker. → Pg.36, 37

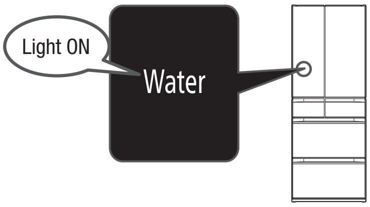
Notice

- “Off” indicator continues to be lit during the “Off” operation.

Water Supply indicator

Water indicator lamp comes on when water in the water supply container is getting low. Replenish the container with water.

When you open/close the door at left door of the Refrigerator Compartment, the lamp Water will be turned off. If no water supplies, it will be turned on again. (after 3 hours as the maximum)


Light ON
Water

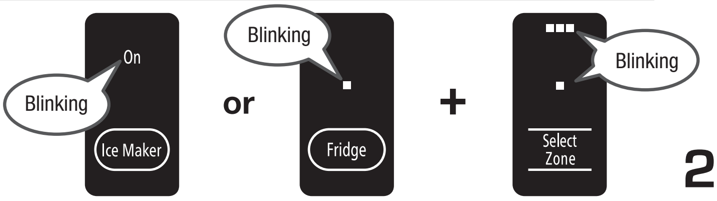
Notice

- Water indicator lamp remains off when “Off” is selected for automatic ice making.
- Water may come on regardless of water level if the water supply container is not placed properly. Push in the container straight and completely if the indicator lamp comes on.
- Even in the “On” mode, the Water indicator lamp may not be lit if the tank is full.

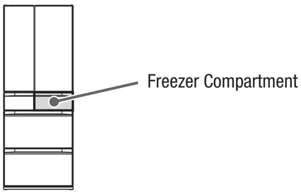
When the “On” Ice Maker indicator blinks, or the “■■■” and “■” Select Zone indicators and the “■” Fridge indicator blink

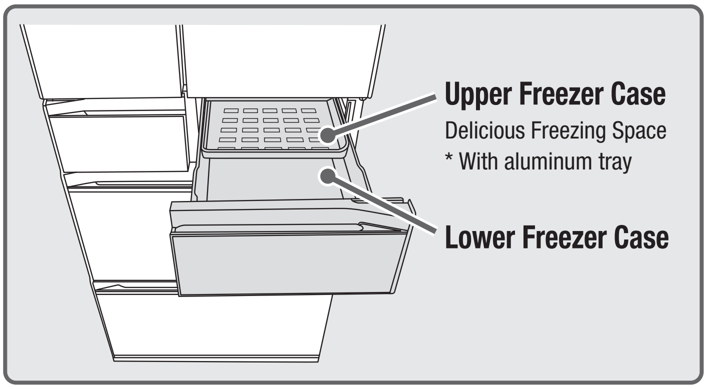
If the ice maker’s “On” indicator blinks, the ice tray might have come into contact with food inside the ice container.

Empty the Ice Case once, and then start the “Ice Maker Cleaning” . → Pg.37


On
Blinking
Ice Maker
or
Blinking
Fridge
+
Blinking
Select Zone

FREEZER COMPARTMENT


Freezer Compartment


Upper Freezer Case
Delicious Freezing Space
* With aluminum tray
Lower Freezer Case

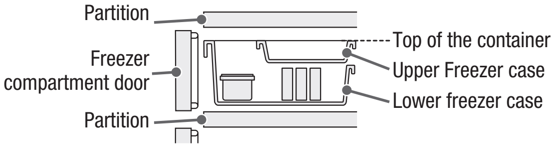
Stored foods

Upper Freezer Case	Small-item and frozen food, etc. Delicious Freezing Space When you want to freeze meat, fish or rice quickly
Lower Freezer Case	Freezing pack, sealed container, etc.

When storing food

Store food according to its type or size. As for the height of the foods to be stored, please use the reference standard line as a guide for upper freezing point, and the end face as a guide for other cases.

Store food such that it does not comes into contact with the upper case or partition.


Partition
Freezer compartment door
Partition
Top of the container
Upper Freezer case
Lower freezer case

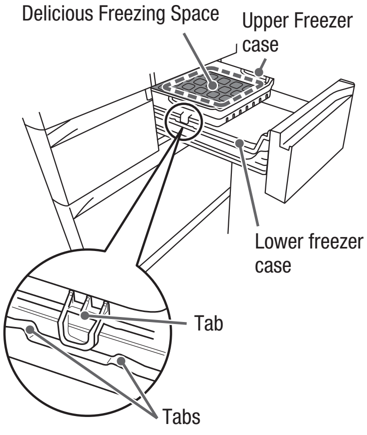
If foods touch the upper case or the partition, the door may not close firmly and the cooling may get worse.
In addition, foods or each case may be damaged.

Quickly freezing meat, fish and rice (Using “Delicious Freezing”)

Foods can be more quickly frozen combined with the effect by the aluminum tray.

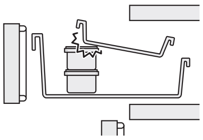
Only by putting foods at the delicious freezing space, cooling mode can be automatically switched with detecting the temperature of the foods by the sensor.

Cover foods by wraps or freezing packs and put it on an aluminum tray.
If food is divided into small portions, it not only freezes quickly it to its center but also make convenient to take it out.

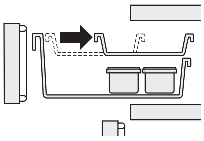

Delicious Freezing Space
Upper Freezer case
Lower freezer case
Tab
Tabs

Notice

- **If the height of the food in the lower case is lower than the bottom of the upper freezer case, the upper case can be pulled out to the front.**
  When using “Delicious Freezing” , set the left and right tabs of the upper freezer case between the projections of the lower freezer case.
- Foods can be frozen more efficiently if placed in close contact with the aluminum tray without stacking.
- If upper freezer case cannot be stored to the back end, it may be caused by the height of foods in lower freezer case which is higher than the bottom of upper freezer case.



- Remove upper freezer case and store the foods, in lower freezer case, with the lower height than the bottom of upper freezer case.



Caution

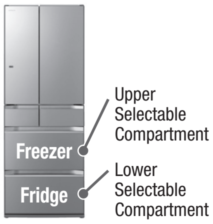
- **Do not store 500 mL plastic bottles. If a plastic bottle freezes, it will expand and cannot be taken out.**
- Do not use with upper freezer case removed. Food may fall to the back of the case and the door may not close.

SELECTABLE COMPARTMENT

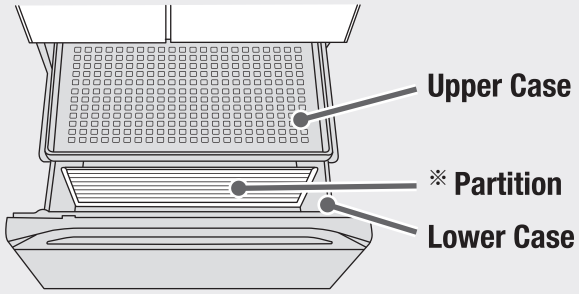
(Selectable Zone Compartments)

SELECTABLE COMPARTMENT Default Settings

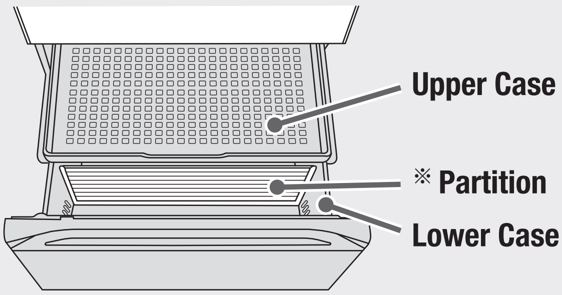
At purchased, Upper Selectable Compartment is set as “Freezer”, and Lower Selectable Compartment is set as “Fridge”.
Switch to your preferred setting for use.
When storing vegetables, temperature setting of “■” is recommendable.


Freezer
Fridge
Upper Selectable Compartment
Lower Selectable Compartment

Upper Selectable Compartment (Upper Selectable Zone Compartments)


Upper Case
※ Partition
Lower Case

Lower Selectable Compartment (Lower Selectable Zone Compartments)


Upper Case
※ Partition
Lower Case

Caution ※ Partition cannot be removed.

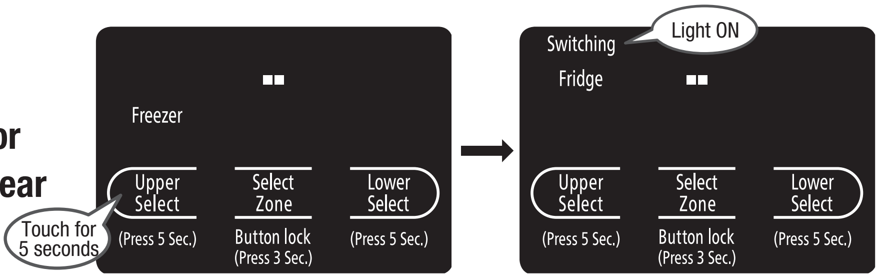
Switching the setting of Selectable Compartment (Selectable Zone Compartment)

Switch the setting of Selectable Compartment

1 **Touch MENU button on the Control Panel to turn on the indicator lamp.**

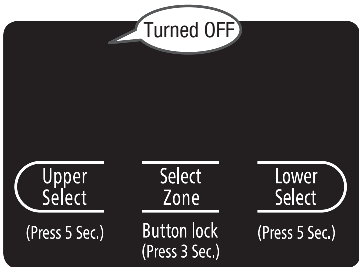
All indicator lamps turn on, and then the current settings are displayed.

2 **Continue to push the Selectable compartment, targeted to be selected, for 5 seconds or more until hear setting sound (beep) to switch the setting.**


■■
Freezer
Upper Select
(Press 5 Sec.)
Select Zone
Button lock
(Press 3 Sec.)
Lower Select
(Press 5 Sec.)
Touch for 5 seconds
Switching
Light ON
Fridge
■■
Upper Select
(Press 5 Sec.)
Select Zone
Button lock
(Press 3 Sec.)
Lower Select
(Press 5 Sec.)

※ When switching the setting of Upper Selectable Compartment as "Freezer" → "Fridge"

3 **When switching is finished, it sounds popping and the “Switching” indication’ s light is turned off.**


Turned OFF
Upper Select
(Press 5 Sec.)
Select Zone
Button lock
(Press 3 Sec.)
Lower Select
(Press 5 Sec.)

Notice

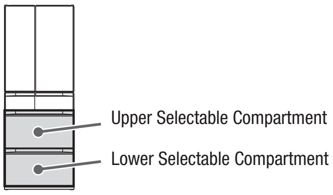
- **Approximate time necessary for switching while using**
  About 3 to 8 hours for “Freezer” → “Fridge” , and about 2 to 5 hours for “Freezer” → “Fridge” .
  It may take about 12 hours depending on the ambient temperature or using status.
- “Switching” on the display panel lights up until the setting is switched.
  When the setting is switched, it sounds popping and the “Switching” indication's light is turned off.
- Do not store food until the setting is switched.
  It may freeze refrigerated foods or melt frozen foods. Also, if setting is switched while using, take out the foods of the compartment under switching.
- When the setting is switched, the temperature is changed to “■■” .

Caution

- When the setting is switched, the frost or dew may be generated on the ceiling, wall or case of the selectable compartment. The food to be stored may be damaged, so after switching the setting, wipe off any frost or dew with a dry cloth before putting the food.

SELECTABLE COMPARTMENT (continued)

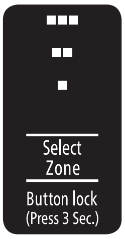
(Selectable Zone Compartments)


Upper Selectable Compartment
Lower Selectable Compartment

Temperature adjustment (Selectable Compartment)

It is set as "■■" at switching the setting of the selectable compartment.

If cooling is seemed as bad in summer or etc., use with setting of "■■■" .
Refrigerating setting "■" is recommendable for storing vegetables.


■■■
■■
■
Select Zone
Button lock (Press 3 Sec.)

Approximate Refrigerator Compartment temperatures at the setting as "Fridge" :
"■■■" sets a temperature lower than that for "■■" by about 1 to 3 ˚C.
"■" sets a temperature higher than that for "■■" by about 1 to 3 ˚C.
Approximate Freezer Compartment temperatures at the setting "Freezer" :
"■■■" sets a temperature lower than that for "■■" by about 2 to 4 ˚C.
"■" sets a temperature higher than that for "■■" by about 2 to 4 ˚C.

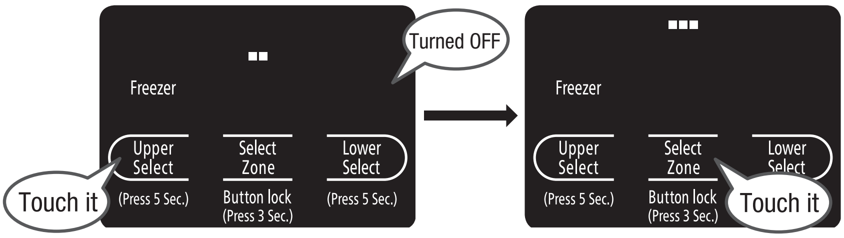
Switching the temperature setting of the Selectable Compartment

1 **Touch MENU button on the Control Panel to turn on the indicator lamp.**

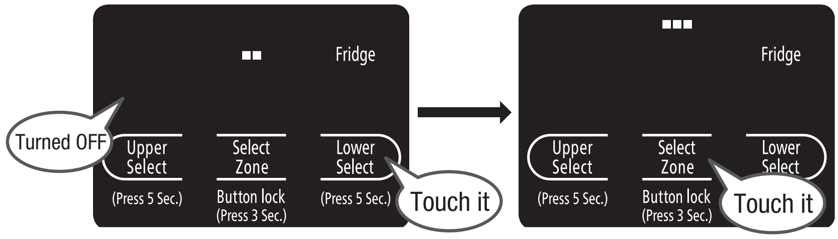
All indicator lamps turn on, and then the current settings are displayed.

2 **Touch the "Selectable Compartment", targeted to be selected, and then touch "Select Zone" to switch the temperature setting.**

<Switching the temperature setting of Upper Freezer Compartment>


■■
Turned OFF
Freezer
Upper Select
Select Zone
Lower Select
Touch it
(Press 5 Sec.)
Button lock (Press 3 Sec.)
(Press 5 Sec.)
■■■
Freezer
Upper Select
Select Zone
Lower Select
(Press 5 Sec.)
Button lock (Press 3 Sec.)
Touch it

<Switching the temperature setting of Lower Freezer Compartment>


■■
Fridge
Turned OFF
Upper Select
Select Zone
Lower Select
(Press 5 Sec.)
Button lock (Press 3 Sec.)
(Press 5 Sec.)
Touch it
■■■
Fridge
Upper Select
Select Zone
Lower Select
(Press 5 Sec.)
Button lock (Press 3 Sec.)
Touch it

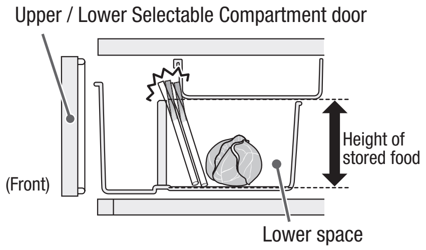
When storing food

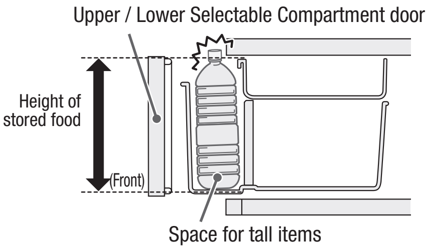
Store food according to its type or size. The height of the foods to be stored should be based on the end face of each case. Store the foods in such a way that they do not touch Upper Case or the partitions.

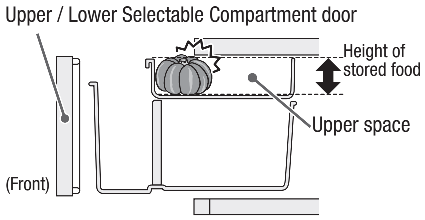
If foods touch Upper Case or the partition, the door may not close firmly and the cooling may get worse.
In addition, foods or each case may be damaged.

Caution
- Do not use with Upper Case removed. Food may fall to the back of the case and the door may not close.
- When using in the "Freezer" setting, store only food that can be frozen, such as contained in the plastic bottles for frozen use.

Guide to storing items based on their height


Upper / Lower Selectable Compartment door
Height of stored food
(Front)
Lower space


Upper / Lower Selectable Compartment door
Height of stored food
(Front)
Space for tall items


Upper / Lower Selectable Compartment door
Height of stored food
Upper space
(Front)

※ The above illustrate on Lower Selectable Compartment, but Upper Selectable Compartment is also same.

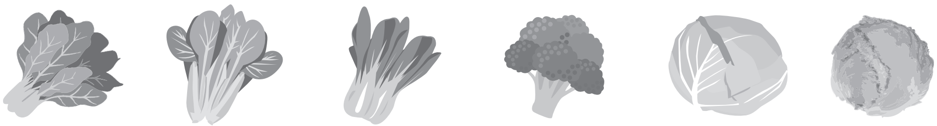
Examples of foods to be stored

At setting as “Fridge”

Upper space	Cooked dishes, prepared food, etc.
Lower space	Drinks, large refrigerated food, etc.
Tall Storage Compartment	2L plastic bottles, seasonings, etc.

At setting as “■” for “Fridge”

It is recommended for storing vegetables.

Upper space	Unfinished vegetables, small vegetables (Tomatoes, green pepper, etc.), fruits (Strawberry, grapefruit, etc.).
Lower space	Leaf vegetables (spinach, Japanese Mustard Spinach etc.), large vegetables (cabbage, lettuce), etc. 
Tall Storage Compartment	Tall vegetables (cucumber, asparagus etc.), 2L PET bottle, etc.

Caution Depending on the type of vegetables, low temperature failure may occur.

At setting as “Freezer”

Upper space	Freezing pack, sealed container, etc.
Lower space	Frozen foods and ice cream, etc.
Tall Storage Compartment	Plastic bottles for freezing

Tips for storing vegetables

■ Types of food recommended to be kept at room temperature

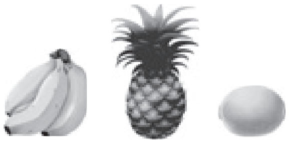
- We recommend that the following types of food be kept in a cool location away from direct sunlight: garlic, onion, potatoes, sweet potatoes, squash, and whole (uncut) pumpkins.

■ Risk of damage due to low temperatures

Some foods might change color or lose flavor if stored in the vegetable compartment for an extended period of time.
Other types of food might lose their vitamin C content, grow mold, or spoil.

- Vegetables: Tomatoes, green pepper, cucumber, eggplants, green beans, sweet potatoes, okra, etc.

- Fruits: Bananas, pineapple, mangos, papayas, avocados, lemons, etc.



Above foods become delicious by cooling in the refrigerator for a short time before eating.

Request

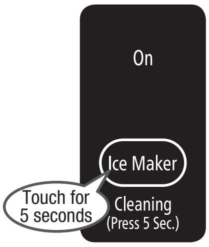
- If the vegetable compartment contains only a few items, it might not be able to maintain a high level of moisture. In such cases, wrap the items to be stored, in plastic wrap to prevent them from drying out.
- Vegetables often contain a lot of water, so depending on the amount and type of vegetables, condensation may occur on cases or food surfaces. If the condensation is concerned, wrap the food.
- Water accumulating in the container might cause food to spoil faster. Use a sponge or dishcloth to wipe up any water that accumulates.
- Dried food (rice, laver, etc.) stored in the vegetable compartment might absorb moisture. To prevent this, put the dried food in a sealed container or bag before storing it in the vegetable compartment.

Notice The temperature of the space for tall items is slightly higher than that of other containers.

VARIOUS FUNCTIONS

Fine adjustment of the temperature (Refrigerator Compartment / Upper Selectable Compartment / Lower Selectable Compartment)

Temperature settings for Refrigerator Compartment and Selectable Compartment (Selectable Zone Compartment) can be more finely adjusted by 11 levels.



1 Open the Upper Selectable Compartment door

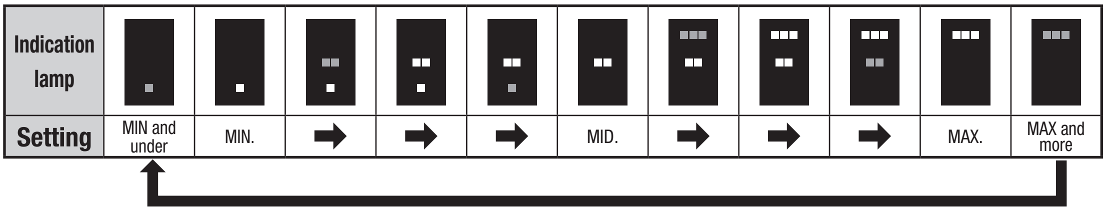
2 Press down Fridge button for 5 seconds or more until 1 beep is heard.

3 Close the Upper Selectable Compartment door

4 Adjusting Refrigerator Compartment

Touch Fridge button to set the temperature as you like.

Refrigerator Compartment (□ Lighting ▨ Blinking ■ Turned off)



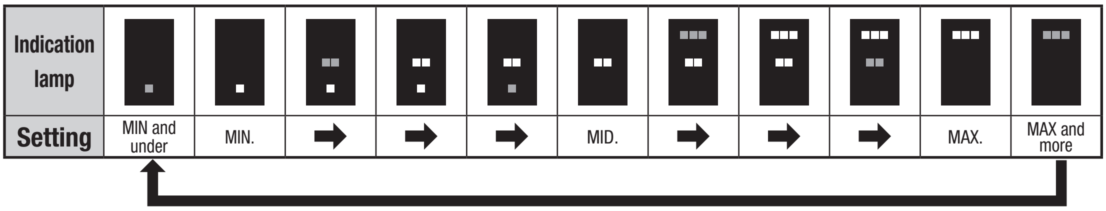
Indication lamp											
Setting	MIN and under	MIN.	➡	➡	➡	MID.	➡	➡	➡	MAX.	MAX and more

Each time you touch it, the corresponding indication changes in the order shown left.

Adjusting Upper / Lower Selectable Compartment

Touch Selectable Compartment preferred to be adjusted and then touch Select Zone to adjust

Upper / Lower Selectable Compartment (□ Lighting ▨ Blinking ■ Turned off)



Indication lamp											
Setting	MIN and under	MIN.	➡	➡	➡	MID.	➡	➡	➡	MAX.	MAX and more

Each time you touch it, the corresponding indication changes in the order shown left.

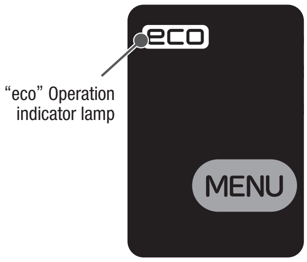
To cancel

Follow the operations shown in Step 1, 2 and 3.

2 beeps sound and you can set the temperature by normal step (3 levels).

“eco” Operation indicator lamp

eco is automatically turned on and inform the energy saving operation when the operation is comparatively stable.
Open or close a door less frequently and quickly. Use this indicator wisely to save energy efficiently.



Notice If eco isn’t illuminated, check the following things.

- Immediately after it is installed, or plentiful foods are stored at a time
- If the door is frequently opened / closed (when the [Door Open & Close indicator lamp] is lit)
- If the door is not closed completely because any food/bag is wedged between the door and the body of the refrigerator.
- “Quick” is set.
- The ambient temperature of the refrigerator is about 35˚C or higher.

Door Alarm

If any door is kept opened for 1 minute or more, it is notified with sound or light.

Door Alarm function is installed in Refrigerator Compartment, Ice Compartment, Upper and Lower Selectable Compartment. (not installed in Freezer Compartment)

Duration when door is open	**1 minute**	**2 minutes**	**From 3 minutes onward**
Alarm sound	Long beep (3 beeps)	Long beep (5 beeps)	Long beep (continuously), Louder
Display area	Blinking	Blinking	Blinking
For operation	Light ON	Light ON	Light ON

Notice

- While the indicator lamp is blinking on the display area, the Control Panel remains inactive upon touching. Close the door before starting operation.
- Door alarm rings after 30 seconds when the door has been opened only in case the power "Energy Saving" mode set. However the indicator blinks after 1 minute of the opening.

Door Alarm and volume adjustment of the operation sound

You can set the sound level of the alarm louder or no alarm sound.

1 **Touch MENU button on the Control Panel to turn on the indicator lamp.**

2 **Open the Upper Selectable Compartment door**

3 **Press down Lower Select button for 3 seconds or more until the preset sound is heard.**

The volume level of the operation sound is changed from "Standard" to "Louder" or "Sound off" . Repeat the change of settings to set the operation sound you like (see the table shown below). The sound is set to "Standard" at the time of purchase.

Volume level	Standard	Louder	Sound off	Standard
Preset sound	— ➡	2 long beeps ➡	Long beep ➡	2 beeps

(At the time of purchase)

4 **Close the Upper Selectable Compartment door**

Notice

- It is impossible to adjust the volume level of either door alarm or operation sound only.
- When the Door Alarm is disabled, characters on the Control Panel no longer blink.
- Even if the volume level is set to "Sound off", the operation sound of the "Ice Maker Cleaning" alarm is raised and is heard.
- When connecting/disconnecting the power plug or after recovering from electric power failure, it will return to the standard setting where the Door Alarm sounds.

Locking the Control Panel

Disenabling operations can prevent erroneous operations or misuse by children.

When this indicator lamp 🔑 (Lock of the Control Panel) is illuminated, any other portion of the Control Panel will not be activated by touching it.

1 **Touch MENU button on the Control Panel to turn on the indicator lamp.**

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

2 **Press down Select Zone button for 3 seconds or more until the preset sound is heard.**

Lock of the Control Panel is changed to "On" or "Off" .

The locking of the Control Panel is set to "Off" ("🔑" is unlit) at the time of purchase.

Setting of the Control Panel's lock	"On" (locked)	"Off" (unlocked)
"🔑 indicator lamp"	On 🔑	Off
Preset sound	Long beep	2 beeps

Notice

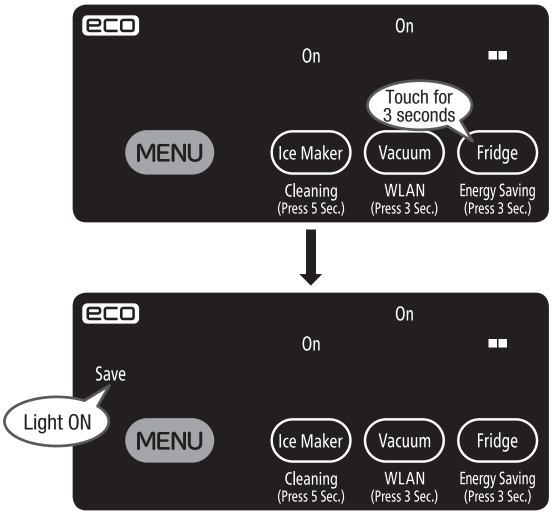
- **When connecting/disconnecting the power plug or after recovering from electric power failure, lock of the panel for operation may be released.**
- **The indication is turned off after about 40 seconds for energy saving. This setting is maintained until it is released.**

ENERGY SAVING

Setting “Energy Saving” mode

Setting the “Energy Saving” mode reduces the ability to cool each compartment for energy savings.
Likewise, when the door of the Vegetable Compartment is left open for 30 seconds or more, the LED light in the compartment has reduced brightness for energy savings.
If a door is not opened or closed for a long time, **the inside is cooled down slowly to further reduce power consumption.**

How to enable “Energy Saving”



1 **Touch MENU button on the Control Panel to turn on the indicator lamp.**

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

2 **Press and hold Fridge for 3 seconds or more until the preset sound (long beep) is heard to turn on the “Save” indicator lamp.**

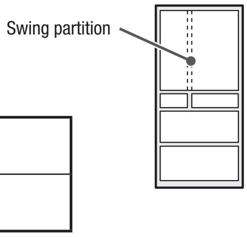
“Energy Saving” mode is off at the time of purchase.

3 **Touch MENU on the Control Panel to turn on the indicator lamp, press and hold Fridge for 3 seconds or more until the preset sound (2 beeps) is heard to turn off the “Save” indicator lamp.**

Notice

- **Automatic temperature control lowers cooling loads, which may cause ice cream to get soft and frost to form on frozen food. It also requires longer freezing time and ice making time.**
- When “Quick” is set in the Energy Saving mode, the Energy Saving mode is temporarily cancelled, and Temporarily cancel the operation which weakens the cooling.
- When the temperature of the “Refrigerator Compartment” and/or “Selectable Compartment” is set to “■”, the minimum level of cooling is not reduced to maintain the freshness of foods.

Set the condensation prevention heater to MIN. (Swing partition)



Setting the condensation prevention heater to MIN saves energy.
When dew is formed in the swing partition, set it to the standard.
The temperature settings for the swing partition can be adjusted by three levels (1 to 2), and level 2 is the most energy saving.

MIN setting of the heater	Standard	MIN setting level 1	MIN setting level 2	Standard
Preset sound	—	Long beep	Long beep (2 beeps)	2 beeps

(At the time of purchase)

1 **Open the Upper Selectable Compartment door**

2 **Touch MENU button on the Control Panel to turn on the indicator lamp.**
All indicator lamps turn on, and then the current settings are displayed.

3 **Press and hold Upper Select button for 3 seconds or more until the preset sound is heard.**
The setting of MIN level of the dew condensation prevention heater will be switched.
Repeat the above-stated operation to set it to the level you prefer (see the table above).

4 **Close the Upper Selectable Compartment door**

Notice

- The setting will be returned to the standard when the power plug is disconnected and connected or power failure recovery takes place.

MAINTENANCE

Warning ● Make sure to unplug the power plug when maintaining the refrigerator.

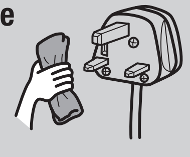
When dirt is found

- Wipe off it immediately. It is recommended to clean the hidden places once a year.

Power plug

Once or twice a year

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



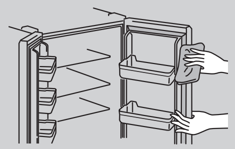
To prevent fire or electric shock. → Pg.4

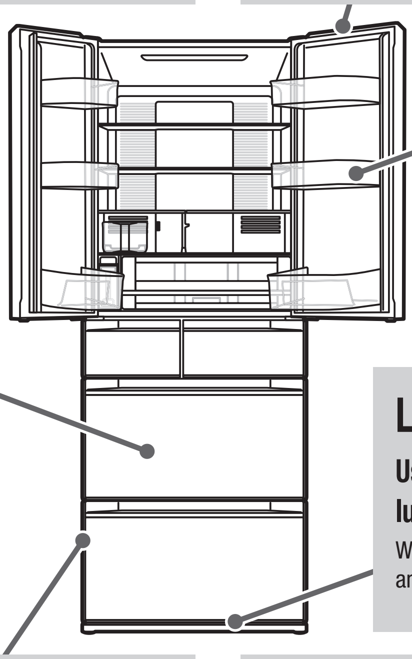
Door gaskets

Once a month

Use a soft cloth wet by lukewarm water to wipe off.

Wipe it thoroughly because it can become easily dirty.



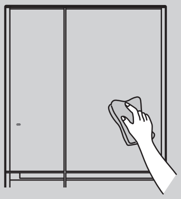


Surface of door

Once a month

Wipe the surface of door using a soft cloth wet by lukewarm water, and then wipe off water with a dry cloth.

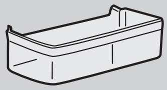
Remaining adhesives on glass surfaces, if any, can be removed clearly by using a plastic eraser to rub it and then wiping it off with a dry cloth.



Each shelf/pocket

Once per three months

Use a soft cloth wet by lukewarm water to wipe off.



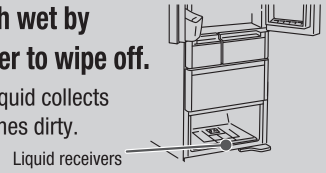
For how to remove → Pg.38

Liquid receivers

Once a month

Use a soft cloth wet by lukewarm water to wipe off.

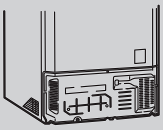
Wipe off them if liquid collects and/or they becomes dirty.



The back/floor of the refrigerator

Once or twice a year

Remove the leg covers, raise the adjustable mounts from the floor, pull the refrigerator toward you, and then wipe off dirt.

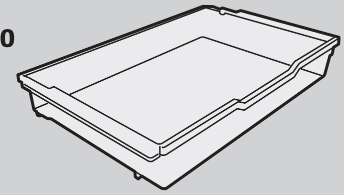


- The back of the refrigerator easily becomes dirty because fine dust is accumulated on it by convection of air.Lay the protection board etc. on the floor which can be easily scratched.
- If you care about vibrating sound, or about discoloration or dirt caused by humidity on a wall behind, install the refrigerator so as to form a gap of 2 cm or more.

Case

Once per three months

Use a soft cloth wet by lukewarm water to wipe off.

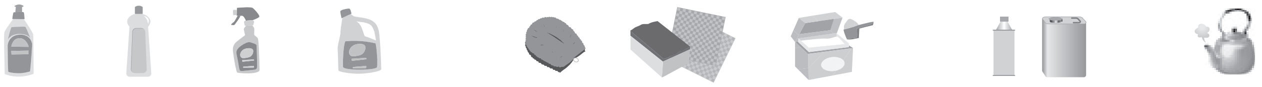


For how to remove → Pg.39

Request

- Do not use the following items because it may cause damage and discoloration of the door, paintwork, plastic parts and glass surface

✕



Alkaline glass detergent, Mild alkaline kitchen detergent (other than neutral), Chlorine bleaching agent

Scrubber, Polishing sponge, Chemical wipe

Polishing powder, Washing powder

Benzin, Thinner, Alcohol

Hot water

Check the “Liquid Property field” of your detergent displayed in accordance with Household Goods Quality Labeling Act.

- Make sure to wipe off spilled cooking oil, citrus fruits juice and food soup. Because it may cause damage and discoloration of the door, paint work and plastic parts.
- Do not wipe off lubricant applied to movable contact surfaces of cases and rails for the slide door.
- When a magnet or suction cup is attached on the side surface of the body or the surface of a door, it may leave some mark.
- When unplugging the power plug, the settings of the Control Panel may be released. So check the settings.

MAINTENANCE (continued)

Vacuum compartment **Once a month**

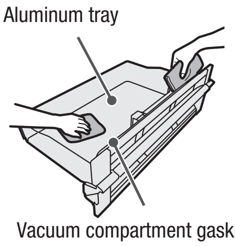
1 Remove the vacuum compartment.

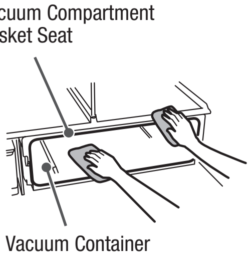
For details on how to remove the vacuum compartment: → P.38

Be sure to remove any items stored in the vacuum compartment.

2 Wet a sponge or dishcloth in warm water, and wipe the following parts.

※ Do not use any detergents or other cleaning agents.





Request

- ● Gently wipe the ceiling of the vacuum compartment, especially in the vicinity of the interior LED light. Excessive force might damage the light.
- ● Using any cleaning agent other than warm water on the vacuum compartment gasket might damage, deform, or discolor the gasket and reduce the effectiveness of the vacuum.

3 Re-installing the vacuum compartment.

For details on how to install the vacuum compartment: → P.38

If the vacuum compartment gasket is loose or the

compartment itself

is not properly aligned, a vacuum state will not be achieved.

If the vacuum compartment gasket is very dirty

1 Wash the gasket by using a soft sponge.

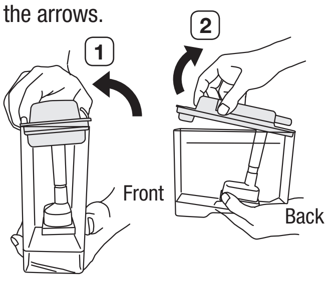
Note: Do not use any detergents or other cleaning agents.

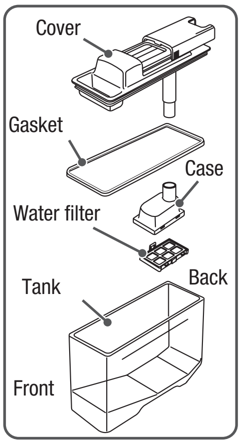
2 Use a dry dishcloth to wipe off any excess water and then allow the gasket to dry naturally.

Water supply tank **Once a week**

1 Remove the water supply tank and its cover.

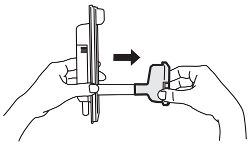
Open the tank by removing the cover in the directions indicated by the arrows.





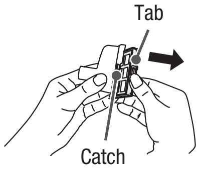
2 Remove the gasket and case from the cover.

Pull the case to remove it from the cover.



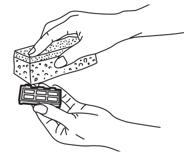
3 Remove the water filter from the case.

To remove the water filter, pull the tab of the water filter to separate it from the catch.



4 Wash each part of the water supply tank.

Wash each part by using a soft sponge. Do not use any detergents or other cleaning agents.

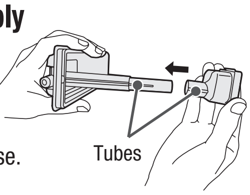


NOTES

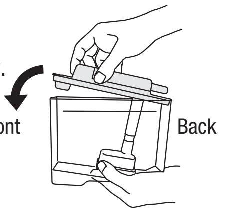
- ● Replace the water filter every 3 to 4 years or as needed. → P.47

5 Reassemble the water supply tank, and then fill the tank.

Reattach the case to the cover by aligning the tubes and inserting the tube of the cover into that of the case.



Close the tank by attaching the cover in the direction indicated by the arrow.



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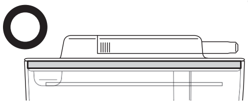

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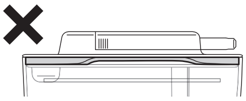
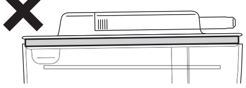


The gasket is twisted.

×



The cover is not attached properly.

Request

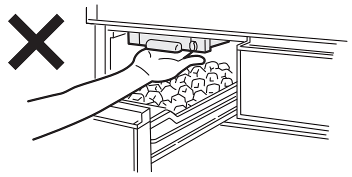
If you do not plan on using the automatic ice maker for a period of time, clean the water supply tank, wait for it to dry completely, and then re-install it in its place.
(Make sure the water filter and all other parts of the tank are completely dry.)

Cleaning the ice maker

Before using the ice maker for the first time or if you have not used the ice maker in over a week.

⚠ Warning

WARNING Do not touch the mechanical parts of the automatic ice maker.
(Touching these parts might result in injury.)



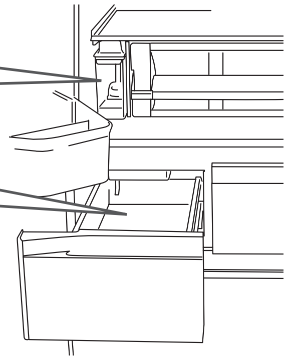
Wash the ice tray and other parts that come in contact with water.

Preparation

Check the following before cleaning the ice maker.

Water supply tank
- Fill the tank up to the max fill line.
- Set the tank correctly in place.

Ice container
- Remove any ice cubes remaining in the ice container.



After checking the above, close all doors of the refrigerator, and then proceed to step 1.

1

Touch MENU on the control panel to activate the control panel.

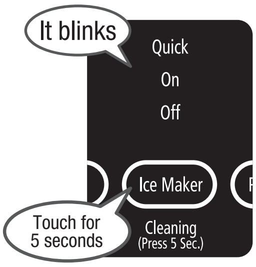
All indicators will turn on, and then some will turn off to reflect the current settings.

2

Touch the Ice Maker button for 5 seconds or more until you hear the alarm.

All three ice maker indicators (“Quick” , “On” , and “Off”) will blink and then cleaning on the ice maker will start. (Cleaning takes about 4 minutes.)

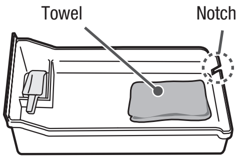
- Close the doors of the refrigerator compartment.
- The indicators will blink and the alarm will sound continuously for about 4 minutes.
- Once cleaning starts, you cannot stop it before it finishes.
- Do not open any door of the refrigerator while the ice maker is being cleaned. Opening a door in the middle of cleaning might cause problems.
- The alarm for the ice-maker cleaning function will sound even if the door alarm is disabled. → Pg.33



3

When the alarm stops, place a clean towel in the ice container to prevent water from spilling out.

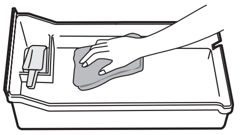
There is a notch at the back of the ice container. To prevent the water that accumulated during cleaning from spilling out from this notch, place a clean, absorbent towel towards the back of the container.



4

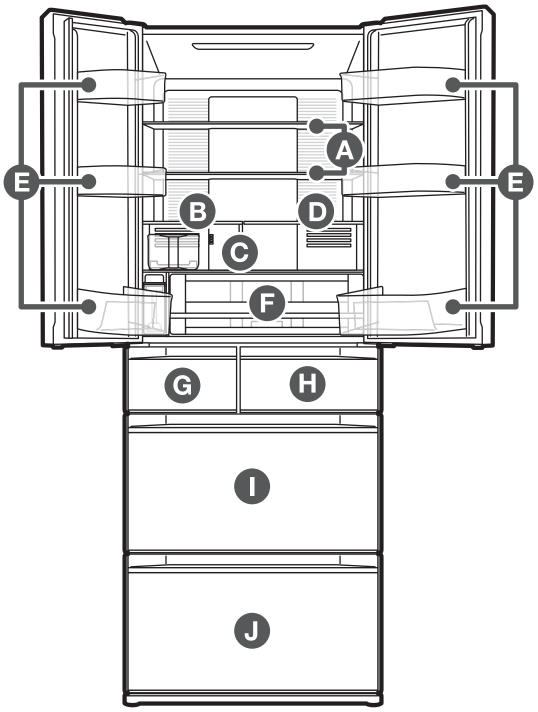
Remove and dry the ice container. Then put it back in the ice compartment.

Remove the towel that you placed in the ice container in the previous step.
Any water remaining in the water supply tank can be used to make ice.
After cleaning finishes, the ice maker will be set to “On” .



HOW TO REMOVE/ATTACH PARTS

Caution
- Before removing any part of the refrigerator, remove all items stored in or on the relevant part.
- Do not remove any refrigerator parts other than those listed in this section.
  To remove or clean parts not listed in this section, contact a customer service center.
- Do not remove or wash the platinum catalysts in the vacuum compartment and vegetable compartment.



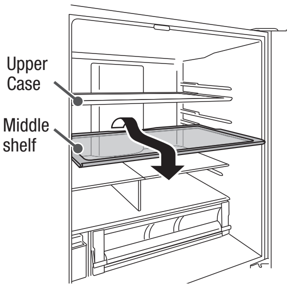
Ⓐ Height adjustable upper and middle shelf

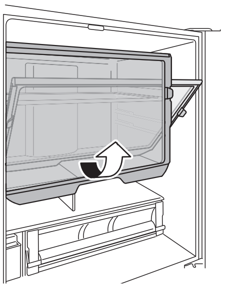
Request Remove the middle shelf before removing the upper shelf.

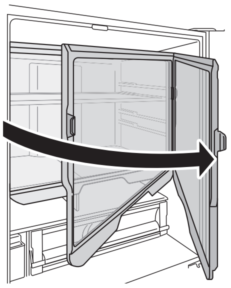
1 Slightly lift the back of the shelf and then pull the shelf forward.

2 Continue to pull the shelf forward as shown in the figure below.

3 Rotate the shelf to remove it.



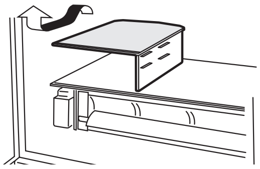




Notice The glass shelves are heavy. Take care when inserting and removing them. If you drop a shelf, it might crack or shatter, causing injury.

Ⓑ Fixed shelf

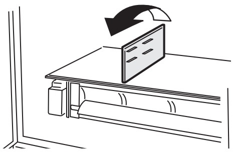
Slightly lift the back of the shelf and then pull the shelf forward.



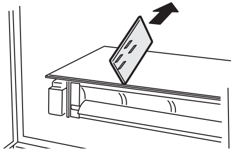
Draw the shelf, and pull off the 2 pins on the

Ⓒ Shelf partition

1 Hold the back of the partition and then rotate the partition forward.

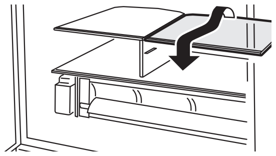


2 Remove the partition by pulling it toward the back of the refrigerator.



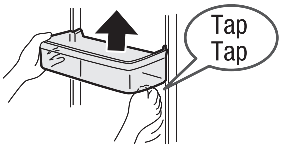
Ⓓ Lower height-adjustable shelf

Lift the shelf to remove it.



Ⓔ Door shelves

Lift each door shelves to remove it. Each shelf is very securely attached, so you might need to lightly tap the bottom-left and right sides of the shelf to dislodge it.

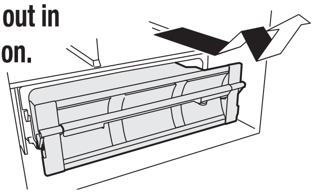


Caution When reattaching each shelf, make sure to attach it securely.
If a shelf is not securely attached, it might fall off, causing injury.

Ⓕ Vacuum Compartment

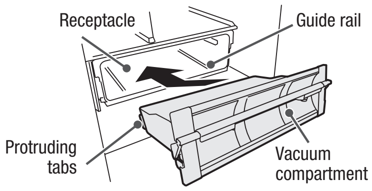
Removal

Pull out the vacuum compartment. Then, lift the front of the compartment and continue pulling the compartment out in an upward direction.



Installation

Align both the left and right protruding tabs of the vacuum compartment with the guide rails of the receptacle, and then insert the compartment. When the compartment is all the way in, press the handle down to lock the compartment.

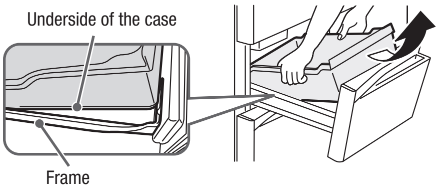


Request After installing the compartment, open and close the compartment a few times to make sure it has been installed correctly.

Ⓖ Ice Case (Ice Compartment)

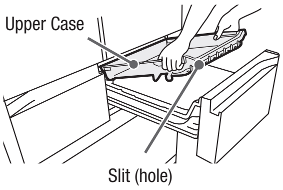
Draw the door fully and lift up the case towards you.

Put the case bottom on the frame and set the case.

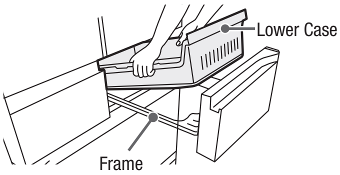

Underside of the case
Frame

Ⓗ Upper Case, Lower Case (Freezer Compartment)

1 Open the door and pull Upper Case out.


Upper Case
Slit (hole)

2 Lift up Lower Case. At attaching, set the bottom of the case on the frame.

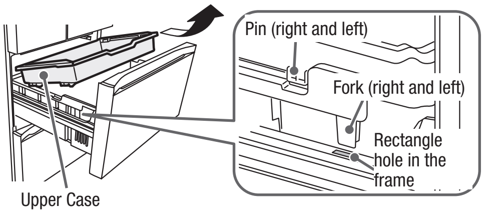

Lower Case
Frame

Insert Upper Case with the slit (hole) facing you.

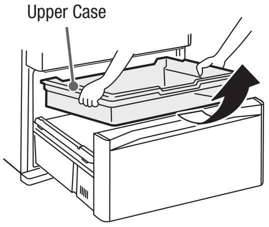
Ⓘ Ⓙ Upper Case, Lower Case (Upper / Lower Selectable Compartment)

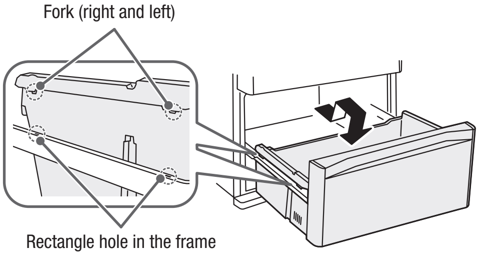
1 Open the door and pull Upper Case out.
For Lower Selectable Compartment, open the door all the way to the front, lift both ends to back, pull it out slowly, and lower it to the floor.

Upper Selectable Compartment


Pin (right and left)
Fork (right and left)
Rectangle hole in the frame
Upper Case

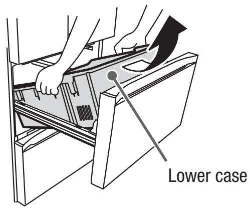
Lower Selectable Compartment



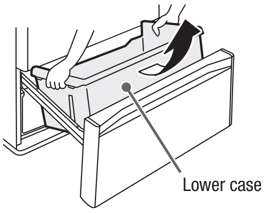

Fork (right and left)
Rectangle hole in the frame

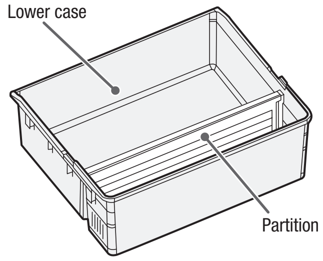
2 Lift Lower Case to back.

Upper Selectable Compartment



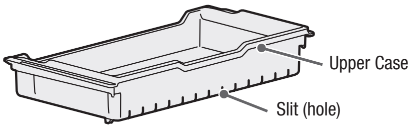
Lower Selectable Compartment




Lower case
Partition

Caution

Partition in the lower case of the Upper / Lower Selectable Compartments cannot be removed.

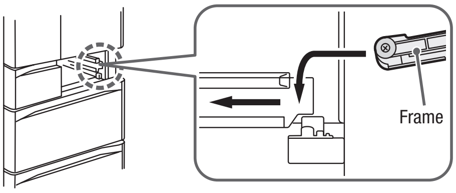

Upper Case
Slit (hole)

Caution

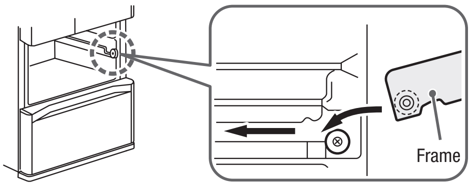
- **If it is set incorrect, it causes the abnormal noise or half-shut at opening/closing door. In addition, the parts such as the case may be damaged.**
- At attaching Upper Case, attach it with the slit (hole) side putting in front of you. After attaching, slide the Upper Case back and forth to check that it is attached correctly.
- The partition cannot be removed.
- Improper installation of the Upper Case may damage parts, including cases.

How to attach the slide door (Ice Compartment/Freezer Compartment/Upper Selectable Compartment/Lower Selectable Compartment)

Ice Compartment/Upper Freezer

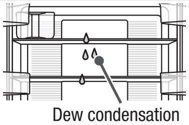


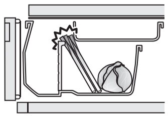
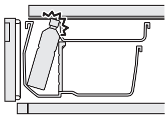
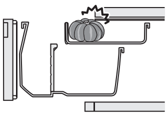
Upper / Lower Selectable Compartment



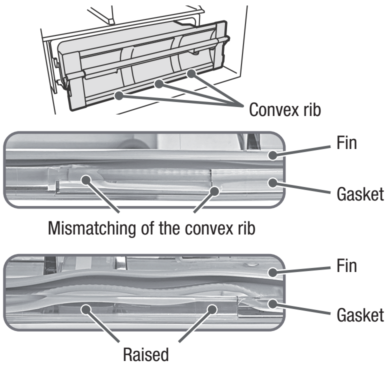
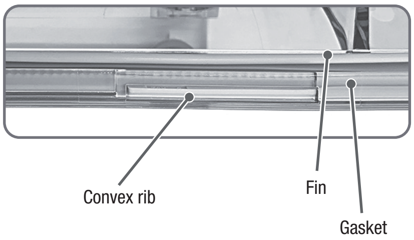
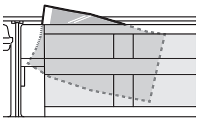
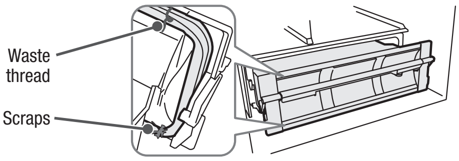
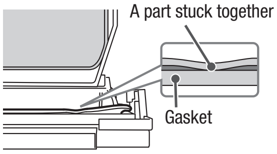
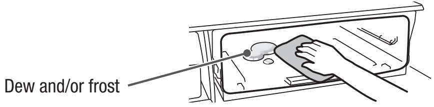
TROUBLESHOOTING

Check the following points before asking repair. Contact your dealer or our customer center if the problem still exists after checking them.

	When this happens	Check Item	Action and Reasons
Initial stage	**Not cooled well.**	Haven't 24 hours passed since the installation?	Cooling may take more than 24 hours at installation. Place food at appropriate intervals, refrain from opening and closing a door as much as possible and wait. Cooling takes more time during summer or in case of a lot of food being stored.
	No ice is made.	Haven't 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 a door as much as possible and wait.
Control Panel	**The Control Panel does not respond.**	Isn't 🔑 lit in the Display Section? If so, the Operation Section is locked.	Cancel the lock of the Control Panel. → Pg.33
		Is Refrigerator Compartment Door open?	Operate after closing it.
		Isn't a water drop or dirt attached to the Control Panel?	Wipe off dirt with a wet cloth and then wipe off moisture with a dry cloth.
		Are you wearing gloves or applying a plaster?	Touch directly with your finger.
		Did you touch adjacent Control Panel wrongly?	Touch the target Control Panel only.
		Is「WLAN」or「📶」blinking?	The unit software update process is in progress. During the unit software update process, it is not accessible. Wait a while until the completion of the update.
	The Operation Section is unlit.	———	The Operation Section goes out about 40 seconds after the completion of operation for energy savings. → Pg.21 To turn it on, touch MENU or open a door of the Refrigerator Compartment.
	Setting of the Operation Section is changed without any operation.	Is any other user operating it by his/her smartphone?	One unit can be operated by five smartphones at maximum.
Refrigerator does not cool	**Impossible to cool: Ice cream putting in the Selectable Compartment with setting of "Fridge", is still too soft.**	Does any food or package caught in the door prevent the door from closing completely?	Remove caught food, if any, and close the door securely. Pay attention to the height of food when placing it in the refrigerator.
		Is food squeezed in? or Is a large amount of food put in at one time?	Allow clearance between each food in each compartment.
		Is the case in each compartment fixed securely?	Install them correctly. → Pg.39
		Food cannot be cooled enough, depending on the installation place or surrounding situation.	Check to see if the refrigerator is installed properly. → Pg.8
		Isn't the "Energy Saving" mode "ON"?	Exit the "Energy Saving" mode. → Pg.34
		Isn't the temperature set to " ■ "?	If a compartment is not be cooled enough, change the temperature setting. → Pg.22, 29, 30
		Is Selectable Compartment set as "Fridge"?	
		Does the temperature around the refrigerator become high due to weather (ex: in summer)?	
		Haven't you left a door open for a long time or opened or closed it frequently?	Temperature in the refrigerator rises little by little while its door is open. If the door is opened/closed frequently or left open for a long time, temperature cannot easily lower. Reduce the number of times of opening and closing the door, or open/close the door quickly.
		Isn't the indication on the Control Panel changing quickly?	The refrigerator is in the demo mode. Please cancel the mode. → Pg.41
Frost and/or dew occurs	**Frost, dew or ice adheres to the inside of the refrigerator or the frame of the drawer.**	Was the door or the drawer not temporarily shut completely?	Check that any food or package caught in the door, and then close it completely.
		Haven't you left a door open for a long time or opened or closed it 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 or close the door quickly, or reduce frequency of opening and closing the door. Wipe off the frost or dew with a dry cloth.
	Dew adheres to the outside of the refrigerator.	Is the air surrounding the refrigerator humid?	Dew may adhere to those parts when the indoor humidity is high (ex: rainy day). Wipe off the dew with a dry cloth.
		Isn't the heater for preventing dew condensation set to Low?	When the air surrounding the refrigerator is humid, dew may be formed. Set the heater for preventing dew condensation to Standard. Wipe off the dew with a dry cloth. → Pg.34
		Isn't the temperature set to " ■■■ "?	When the temperature is set to " ■■■ ", dew may be formed on the surface of a door. Set the temperature to " ■■ ". Wipe off the dew with a dry cloth.
	There is condensation on the back of the refrigerator or on the wall.	Is the ambient of the refrigerator humid? Is there sufficient space between the back of the refrigerator and the wall?	Make sure there is at least 2 cm of space between the back of the refrigerator and the wall. → Pg.8
	Dew condensation occurs in the Refrigerator Compartment.	Haven't you left a door open for a long time or opened or closed it frequently?	Condensation may form on the wall and/or around the cold air blowout port when the door is opened and closed frequently or the humidity is high around the refrigerator. No trouble. Wipe it off with a dry cloth. 
Automatic ice making	**Ice cannot be made at all.**	Isn't "Off" lit in the Display Section? Ice making is set to Stop Ice Making.	Set it to "On" or "Quick" mode. → Pg.26, 27
		Isn't "Water" lit in the Display Section? The water in the water supply tank is low.	Pour water into the water supply container. → Pg.26, 27
		Isn't 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 to the "Container-full line" of the water supply container. → Pg.26
		Is the water supply container pushed firmly until it is 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 of stored ice amount?	Level the ice. → Pg.27
		Do you open the door frequently or store a large amount of food at a time?	The inside is not cooled down enough. Minimize the number of times of opening and closing the door until it cools fully. Allow clearance as much as possible between each stored food.
		Isn't the surrounding temperature low?	Ice making takes more than four hours during winter. Refrain from opening and closing a door as much as possible and wait.
		Haven't you just changed the setting from "Off" to "On"?	Ice-making may take time immediately after changing the setting. Refrain from opening and closing a door as much as possible and wait.
		Does any food or package caught in the door of the Freezer or Ice Compartments prevent the door from closing completely?	Remove caught food, if any, and close the door securely.
		Isn't the "Energy Saving" mode "ON"?	Exit the "Energy Saving" mode. → Pg.34

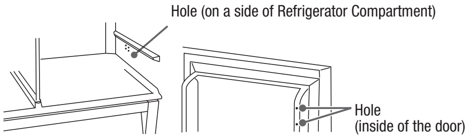
	When this happens	Check Item	Action and Reasons
Automatic ice making	**Projection is generated on ice.**	—	It is frozen water collected in the ice tray groove. It does not indicate any trouble.
	Stored ice becomes small. Ice sticks together.	Have the ice cubes been sitting in the ice container for a long time?	If ice cubes are left unused, they will gradually grow smaller or stick together. If you can separate the ice cubes by using the ice scoop, this is not an issue.
		Do you open the door frequently or store a large amount of food at a time?	Open/close the door quickly or reduce frequency of opening and closing the door.
		Hasn't a door of the Refrigerator Compartment or a drawer been closed incompletely temporarily?	Close the door completely.
	Small ice is made.	Isn't 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 to the "Container-full line" of the water supply container. → Pg.26
	Connected ice is made.	—	Water in the groove in the Ice Tray may be frozen and sticks to ice cubes. It does not indicate any trouble.
	There is white impurity in ice.	—	It is because the fine air bubble in water is contained in ice.
		Did you use mineral water to make ice?	Mineral contained in water may freeze and become white impurity in ice. It may remain after thawing in water, but it is harmless.
	When you do not make ice	—	Set "Off". See "Stop Ice Making". → Pg.27
Lamp at Display Section is blinking	**Are 3 or more of the temperature adjustment lamps, of Power Saving Lamp / Refrigerator Compartment / Select Zone, blinking?**	Check one by one the ON / OFF of 7 lamps of Power Saving Lamp, Refrigerator Compartment " ■■■ / ■■ / ■ " and Select Zone " ■■■ / ■■ / ■ ".	Contact with the customer service with checking ☑ to the blinking lamps. If you record, It can be accurately informed. (Checklist) ☐ ■■■ ☐ ■■■ ☐ Save ☐ ■■ ☐ ■■ ☐ ■ ☐ ■ Save Fridge Select Zone
	3 or more of the temperature adjustment lamps of " WLAN " and refrigerating are blinking	Check the ON/OFF of 4 lamps of the " WLAN " and the refrigerating " ■■■ / ■■ / ■ " one by one.	Contact with the customer service with checking ☑ to the blinking lamps. If you record, It can be accurately informed. (Checklist) ☐ ■■■ ☐ WLAN ☐ ■■ ☐ ■ WLAN Fridge
	Ice Maker Lamp blinks, or Refrigerator Compartment "■" and Selectable Compartment "■■■" and "■" lamps blinks	Don't you put food or ice other than that made by the Automatic Ice Maker in the Ice Compartment?	Some foods, etc. may come into contact with the ice tray. Empty the Ice Compartment and do the "Ice Maker Cleaning". → Pg.37
	Quick On Off **All indicator lamps blink**	Haven't your held " Ice Maker " for five seconds or more?	It is in process of Ice Maker Cleaning. The blink will stop in about four minutes. Do not open any door of the refrigerator during blinking.
	All displays flashing	Isn't the door opened? Isn't the door closed incompletely due to food being caught?	Close a door when it is open. If a door is closed incompletely due to food being caught, remove the caught food and close it securely.
	Lit lamps are changing one after another	—	The refrigerator is in the demo mode. Please cancel the mode. In the demo mode, the refrigerator does not perform the cooling operation. Open the right and left doors of the Refrigerator Compartment and the Upper Selectable Compartment. Touch MENU on the Control Panel to turn on the indicator lamp. Press and hold the Select Zone button for 10 seconds or more until the preset sound is heard. All the indicator lamps are lit for a few seconds, the demo mode is cancelled and the cooling operation is started. Close the right and left doors of the Refrigerator Compartment and the Upper Selectable Compartment.
Selectable Compartment is concerned	**Condensation occurs in Selectable Compartment**	Don't you place a large amount of vegetable containing much water?	As the Vegetable Compartment is more humid than the other compartments when storing vegetables in the selectable compartment, dew may be condensed in the case or ceiling, or on the surface of food, depending on the amount or type of vegetable stored there. This is not abnormal state. To avoid dew condensation, wrap a vegetable with plastic food wrap before storing it in the Vegetable Compartment. Heavy dew condensation may cause water to be pooled in the Vegetable Compartment. Wipe it off with a soft cloth.
	Switching notification sign does not light	Check the "switching notification sign" on the door display.	Switching notification sign lights up while switching the setting of the selectable compartment. When using with the setting as it is at purchased (Upper and Lower Selectable Compartments are set as "frozen" and "refrigerated" respectively), the "switching notification sign" at the door display panel does not light.
	Door of Selectable Compartment cannot be closed, or Upper Case doesn' t return back to the locking position when the door is opened.	Is any food, etc. caught between the upper case and the lower case? 	Remove it if any.
		Isn't a plastic bottle and/or food item in contact with the handle of the Upper Case? 	Store PET bottle, food, etc. so that they don't come in contact with the locking handle.
		Isn't any food caught between Upper Case and ceiling of Selectable Compartment? 	Remove the food if it is caught there. In addition, do not try to close the door too hard in the situation that food or etc. is touching the ceiling of Selectable Compartment.

TROUBLESHOOTING (CONTINUED)

	When this happens	Check Item	Action and Reasons
There is something strange with the Vacuum Compartment	**Hissing sound does not occur when opening.**	Is the setting of the Vacuum Compartment to "Off (Non-vacuum)?	Change the setting to "On". → Pg.13
		Is the handle pulled up?	Hold down the handle to lock.
		Is the handle held down to the end and locked?	The vacuum function will not work unless it is locked. Press the handle until it stops to lock it.
		Isn't the Vacuum Compartment Gasket removed?  Convex rib Fin Gasket Mismatching of the convex rib Fin Gasket Raised	Install the vacuum compartment so that the tabs on the gasket aligns with the holes in the compartment. Make sure the gasket is securely in its retainer, with no raised parts. 
		Is there anything that is caught stuck to the gasket of the vacuum compartment or its retainer? Is the gasket or its retainer dirty?  	Remove any packaging material of foods or other things which are caught in. If the gasket is dirty, clean it. → Pg.36
		Is there any stuck parts on gaskets? 	If a part of the gasket is stuck together, the vacuum ompartment will not be able to maintain a vacuum state. If there is a part stuck together, peel such part off. Since it is difficult to see the left and right side faces and the bottom, such part shall be confirmed with removing the vacuum compartment. → Pg.38 If the gasket is dirty, clean it. → Pg.36
		Did you just open the vacuum compartment?	After you close the refrigerator doors and the vacuum pump starts up, it takes about 3 to 4 minutes to achieve a vacuum state. Wait at least 4 minutes before opening the vacuum compartment.
	I am not sure if the vacuum function is working.	When you open the vacuum compartment, do you hear a sound?	If the vacuum function is working properly, when you open the vacuum compartment, you should hear a hissing sound as air enters the compartment.
	I cannot lock the handle.	Is there any food or packaging caught in the vacuum compartment gasket or in the vacuum compartment receptacle?	Make sure nothing is caught in the gasket or in the receptacle.
		Is the vacuum compartment installed correctly?	Install the vacuum compartment in accordance with the procedure described in "HOW TO REMOVE/ATTACH PARTS". → Pg.38
	The vacuum compartment vibrates and emits a humming sound.	—	This sound is made by the vacuum pump when it is running. If you are bothered by the sound (for example, at night), you can stop the pump from running by changing the "Vacuum" setting to "Off". → Pg.13
		Is there any food or packaging caught in the vacuum compartment receptacle? Is the vacuum compartment gasket dirty? Did you press the handle down firmly to lock the vacuum compartment?	The refrigerator regularly vibrates and emits sounds. Make sure nothing is caught in the vacuum compartment receptacle and that the gasket is clean. → Pg.25 Press the handle down firmly to lock the vacuum compartment.
	There is frost or condensation inside the vacuum compartment or around the vacuum compartment receptacle.	Did you put food high in water content in the vacuum compartment? 	The vacuum compartment is tightly sealed. As such, the water content in foods and moisture in the air might form frost or condensation inside the compartment. If this happens, wet a dishcloth in warm water and wipe away the frost or condensation. In addition, we recommend that you wrap foods high in water content before storing them in this compartment.

	When this happens	Check Item	Action and Reasons
Door is not in a horizontal state	**Door is not in a horizontal state.**	Is the installation site level?	This does not affect the refrigerator performance. Adjust the refrigerator adjustable mount to keep it level if you want to correct it. → Pg.8
		Does the soft floor material sink in around the legs due to the weight of stored items?	Lay a firm board which has more than 1cm thickness on the floor if the refrigerator itself inclines.
It smells strange	**Plastic smells**	—	This smell occurs because a lot of plastic parts are used in the refrigerator, but the smell decreases gradually while cooling. This is not malfunction.
	Ice smells	Do the water supply container and/or water filter become dirty? Or does ice become old?	Wash them regularly to prevent "slime" and/or "fur". →Pg.36, 37
		—	Chlorine may strongly smell because chlorine in tap water is condensed.
	It smells in the refrigerator	Is any food which strongly smells stored without any wrapping?	The deodorizing function cannot completely remove all smells. Seal that kind of food with plastic film etc.
Refrigerator cools overly	**Refrigerator cools overly. Food freeze.**	" ■■■ " is selected in the temperature setting.	Switch it to " ■■ ". →Pg.22, 30
		The surrounding temperature is lower than 5˚C.	When the ambient temperature is low, the inside of the refrigerator may cool overly. Switch the temperature setting to " ■ ".
		Is it placed in front of the Cold Air Blowout Port?	Do not place food in front of the cold air blowout port. A lid or plastic wrap can prevent freezing.
Refrigerator becomes hot	**The side of the refrigerator becomes hot. Hot air comes from the bottom of the refrigerator.**	—	Hot air may come from the bottom of the refrigerator to exhaust the heat generated when the cooling device operates. The temperature may rise to 50 – 60 ˚C immediately after installation or during summer. It does not pose safety or performance problems, but avoid touching it.
Abnormal operating sound is generated	**Annoying sound is generated by the refrigerator.**	Does the floor bend?	Install a sturdy board with a thickness of 1 cm and then install the refrigerator. → Pg.8
		Does the refrigerator come in contact with the wall or furniture, etc.?	Install the refrigerator with clearance around it.
		Is the refrigerator cooled down enough?	You may feel that the operation sound is loud because the compressor operates in high-speed under the following conditions: the refrigerator does not cool fully on the occasion such as using it for the first time, opening/closing the door frequently, the surrounding temperature is high.
		Isn't "Quick" set?	When it is set to "Quick", operation sound of the compressor or the fan motor gets louder because of high-speed revolution.
	Operation sound lasts long.	—	As the compressor operates slowly for energy savings, you may hear an operating noise for a long time.
	Operation sound sometimes becomes louder.	—	The operating power varies in response to changes in the inside temperature of the refrigerator, and thus you may sometimes hear a large noise.
	When other sounds such as shown in the right table are generated by the refrigerator.	Sound like water flowing (trickling) Sound like collision (tapping) Sound like water boiling (bubbling up) Sound like meat roasting (sizzling)	These sounds are caused when the refrigerant flows or water flows/ evaporates to remove frost. This is not malfunction.
		Sound like squeaking (cracking) (knocking)	It is the sound caused by the parts squeezed in change of the refrigerator temperature. This is not malfunction.
		Sound like something is caught (clacking) Sound like roaring (honking) Sound caused immediately after closing the door (booming)	It is the sound caused by the electrical parts activating to control the temperature in the refrigerator. This is not malfunction.
		Sounds caused by the Automatic ice maker (zooming) (rattling) (clunking)	These sounds are made when ice is separated from the ice tray of the auto ice maker or water is supplied to the ice tray. This is not malfunction. To stop the sound, touch the Ice Maker button to change it to "Off". → Pg.27
		Sound occurs sometimes (clacking)	This sound is caused when the refrigerator starts the operation to cool.

TROUBLESHOOTING (CONTINUED)

	When this happens	Check Item	Action and Reasons
Others	**You feel electricity a little when touching the main body of the refrigerator.**	———	The refrigerator may be charged with static electricity, but there is no problem with the safety. → Pg.9
	Radio and/or television are disturbed by noises.	———	It is caused by the electromagnetic radiation slightly generated from this refrigerator. Install the refrigerator away from the television, radio and interphone. It is recommended to connect the power plug to the power outlet separated from the antenna terminal. → Pg.9
	There are thin lines like scratches on the plastic parts.	———	Those lines are caused by the liquid resin flowing when plastic is molded. They are especially conspicuous for the transparent parts, but there is no problem with the strength and they can never lead to any cracks.
	There are waving and/or distortions on the door surface, the side and the top surface of the refrigerator.	———	Slight waving and/or distortions are generated in the manufacturing process of the refrigerator. They may be conspicuous according to the position of the light source and/or the brightness etc., which is not malfunction. There is no problem with the performance.
	There is a small hole inside the door.	———	This hole is used to escape the air inside when filling the heat insulation material into the door during the production process. It is neither a flaw nor abnormal thing.  Hole (on a side of Refrigerator Compartment) Hole (inside of the door) * Some products have an adhesive seal to conceal the hole. Please do not peel it off.
	The electric supply failed.	———	Reduce the number of times of opening and closing the door and avoid storing food additionally until the electric supply is restored. Please check each setting on the panel for operation after the power comes back on.
	The refrigerator is not expected to use for a long term.	———	Remove all the items in the refrigerator. Unplug the refrigerator to take care of the inside or the automatic ice maker. →Pg.35-37 Leave all the doors open to dry the refrigerator for 2 or 3 days.
	Remove frost.	———	Any operation to remove frost is not required because this refrigerator remove frost automatically. Thawed water is collected in the evaporating tray and automatically evaporates.
	Transporting and moving care.	———	See “Transporting your refrigerator (transport for moving)” → Pg.47
	Glass is broken (door glass, glass shelf)	———	Do not touch a broken glass, but contact your dealer for repair soon.
	When a door is shut, another is naturally opened.	———	Did you shut the door too strongly? Compartments are connected each other by cool air paths therefore the wind pressure caused by shutting a door may open another door for just a moment.
	A door is heavy to open just after shutting it.	———	Have you leave the door open long time? It is because that the air taken inside is cooled and its pressure reduces temporarily. Don’t leave a door open long time. Open and shut it at each time.
	Bothered by vibration noise, discoloration and dirt on the back wall due to moisture.	———	Keep it away from the back wall (2 cm or more). → Pg.8
	When a midge fly, etc. enters in the refrigerator	Are there fruit flies around it?	Keep the environment clean. Put something a fruit fly hates or fruit fly traps or something like that.
		Is there any food with strong flavor in the refrigerator?	Cover food with the lid so that fruit flies can’t be attracted by the flavor.
		Is the door left open for a long time?	Please close the door as soon as possible.

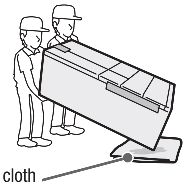
	When this happens	Action and Reasons
Wireless LAN	**Want to know whether the smartphone is corresponding to the application.**	For the corresponding OS version, confirm via the website below. https://www.homeappliances.hitachi.com/global/app/ref/series01/index.html
	Want to use a tablet terminals.	The application does not correspond to a tablet terminal. (No operation guarantee)
	Want to use a mobile routers or the tethering.	Mobile router or tethering operation is not guaranteed. Some routers cannot be used even though corresponding to IEEE802.11b, IEEE802.11g, and IEEE802.11n (2.4 GHz only).
	Want to operate without using the application.	The application is required to use the "Control panel" function or "Notification" function.
	Impossible to connect the unit and a smartphone to the wireless LAN.	The following environment is required to connect the unit and a smartphone to the wireless LAN. • Internet connection environment is required. • Wireless LAN router is required. • The wireless LAN router shall correspond to any of IEEE802.11b, IEEE802.11g, IEEE802.11n (2.4GHz). If not, it is impossible to connect by the wireless LAN function. In addition, it doesn't correspond to IEEE802.11n (5GHz) and IEEE802.11.ac.
		Make sure that power for the wireless LAN router is on. Refer to the instruction manual for the wireless LAN router and turn on the power.
		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.14
		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.
		Make sure that the password is correct. If the password is wrong, it cannot be connected to the wireless LAN.
		While " WLAN " of the unit is blinking, it is under communication preparing and cannot be connected to the wireless LAN. Wait until it lights.
		It cannot be connected to the wireless LAN if " 📶 " of the unit lights off. **(→ Pg.46 " 📶 " is lighting off)**
		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.
		If the above does not apply, turn off the smartphone and wireless LAN router, wait for a while, and then turn it on again.
	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.14
		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).

TROUBLESHOOTING (CONTINUED)

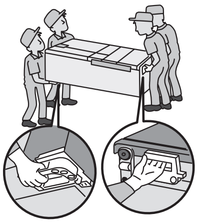
	When this happens	Action and Reasons
Wireless LAN	**SSID or password for the wireless LAN router are unknown.**	Refer to the instruction manual of the wireless LAN router. The password may be described as “Encryption Key” or “Security Key” etc. depending on the manufacturer or the model of the wireless LAN router.
	You want to use the applications without registering as a member.	Member registration is required to use the applications. Register by the relevant application.
	I want my family to login using the same login ID.	Only one person can login simultaneously with one login ID.
	Impossible to operate from the smartphone Operation cannot be accepted.	Immediately after the other user operates, the operation from the smartphone is not accepted. Wait a while and try again.
		Make sure that the smartphone is connected to the wireless LAN or mobile phone lines.
		If the unit is far from the wireless router, move the wireless router closer to the unit.
		While “ WLAN ” of the unit is blinking, wireless LAN connection cannot be established because communication is in progress. Wait until it lights up.
		Wireless LAN connection is not possible when “ 📶 ” of the unit is off. **(→ Refer to the below “ 📶 ” is lighting off)**
	Push notification cannot be reached.	While “ WLAN ” of the unit is blinking, the push notification cannot be reached because communication is in progress. So, wait for a while.
		Confirm that the notification of the application is set by “Setting” of the smartphone.
		Confirm that the notification is set by “Notification Setting” of the application. → Pg.18
	Want to suspend the push notification.	Change the notification without setting by “Notification Setting” of the dedication application. → Pg.18
	The operating status of the unit is different from the content of the push notification.	Depending on the status of the server and the communication status of the unit and smartphone, the operating status of the unit may be delay to be notified.
	The status indicated by the application is different from the operation of the unit.	Depending on the status of the server and the communication status of the unit and smartphone, the indication of the application may differ from the operation status of the unit.
	“ WLAN ” is blinking.	It becomes communication preparing status immediately after power on for the unit, and “ WLAN ” blinks. Wait a while until it lights.
	“ 📶 ” is lighting off.	If the pairing setting is incomplete, “ 📶 ” does not blink. Please do pairing setup. → Pg.12-14
		Make sure that power on for the wireless LAN router. Refer to the instruction manual of the wireless LAN router and turn on the power.
		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.14
	Contents of the instruction manual differ from the operation of the unit and the application.	Contents of the description may differ due to unit software updating, the application updating, etc.

Transporting your refrigerator (transport for moving)

1. **Take out foods or ice.**
2. **Empty the water from the water supply container/ice tray.**
3. **Pull off the power plug.**
   No problem just before moving.
4. **Remove the leg covers, and raise the adjustable mounts.** → Pg.8
5. **Use a tape to secure the door/power cord.**
6. **Place a sheet or cloth for protection when moving / transporting it.**
   To prevent damage to the floor material or water from spilling out.
7. **Place a sheet or cloth for protection first, and then lay it back to drain water.**



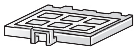
8. **Make sure to hold the handles when carrying it with 2 persons or more.**
   Do not lay it down horizontally for transportation (which may cause failure of the refrigerator).



9. **See "Preparation before use" for installing the refrigerator in a new location.** → Pg.8, 9

AVAILABLE PARTS

■ If you order any part listed below, specify the model of your refrigerator to a dealer for purchasing genuine parts.

Subject	Product Name	Model	Product Model	
Ice smells ● Water filter may be old and dirty (available about 3 or 4 years, as a guide)	Water filter for the automatic ice maker	Common for all models	RJK-30	

Triple Power Deodorizing Effect

A combination of 3 types of deodorizing materials leads to deodorize various odorous substances in the refrigerator including 4 major odors such as sulfur, nitrogen, aldehyde and oxidization odors. Activities of bacteria collected by the filter are also restricted.
Deodorant filter has the effect of sterile filtration.

● Testing laboratory: Boken Quality Evaluation Institute, a general incorporate foundation ● Test method: Film contacting method (JIS Z 2801)
● Name of the part used for treatment: Filter ● Sterilization method: applying oxidation catalyst to the filter ● Target: bacteria collected by the filter
● Test result: sterilization effect of 99 % after 24 hours by using a filter only. This does not always have effect on the entire refrigerator or foods.

MEMO

MEMO

MEMO

ABOUT NON-CFC REFRIGERATORS/STORABLE WEIGHT

About non-CFC refrigerators

- Instead of CFCs, hydrocarbons are used in the coolants and insulation materials used in this refrigerator. Hydrocarbons do not damage the ozone layer, and they are environmental-friendly materials, having an exceptionally small affect on global warming.
- Hydrocarbons are flammable. The coolants are sealed in the coolant circuitry, and with normal operation they will not leak, but should the circuitry be damaged, refrain from using flames or other electrical products, and open windows for ventilation. After that, please contact the dealer or Hitachi customer service centre.

Storable weight

The following table shows the weight of food that can be stored on the shelves and in the cases.

	Name of parts	R-KWC570K Type
Refrigerator compartment	Upper height-adjustable shelf	17.5 kg
	Middle height-adjustable shelf	17.5 kg
	Lower height-adjustable shelf and fixed shelf	18.5 kg
	Shelf above the vacuum compartment	10.5 kg
	Vacuum compartment	4.5 kg
	Total for shelves on the right-side door	18.0 kg
	Total for shelves on the left-side door	12.5 kg
Ice compartment	Ice case → Pg.27	
Freezer compartment	Upper Freezer Case	1.6kg
	Lower Freezer Case	3.2kg
Upper Selectable Compartment	Upper Case	6.0kg
	Lower Case	18.0kg
Lower Selectable Compartment	Upper Case	6.0kg
	Lower Case	17.0kg

Severe warning signs for Disposal

Cyclopentane is used in the insulation material.
The gases in insulation material require a special disposal procedure.
Please contact your local authorities in regard to the environmentally safe disposal of this product.

AFTER-SALES SERVICE

Please contact the following Hitachi Service Centre if power cord is damaged or service is required.
If some malfunction occurs during operation, unplug the power plug immediately and contact the service centre to have the refrigerator repaired.

- Hong Kong
  Hitachi (Hong Kong) Ltd.
  18/F., Ever Gain Centre, 28 On Muk Street, Shatin,
  N.T., Hong Kong, China
  Tel : +852-2753-5386
  Fax : +852-2753-0993

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

Hitachi Tokyo Japan

R-KWC570K Type Ⓐ