INSTRUCTION MANUAL
REFRIGERATOR-FREEZER

HITACHI

For household use

Model R-ZXC740KH R-ZXC740KS R-WXC740KH R-WXC740KS
R-WXC670KH R-WXC670KS R-WXC620KS
R-ZXC740RH R-WXC740RH R-WXC670RH



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, 33
  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.44

If the refrigerator is not cooled down well → Pg.45

If frost or dew is formed → Pg.45

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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)

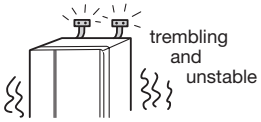
■ This refrigerator uses flammable refrigerants. The symbol column below states the precautions on flammable refrigerants.

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

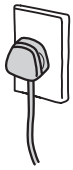
● **Do not install the refrigerator in damp places or where water may splash.**
・This may impair electricity insulation causing electric shock or fire.



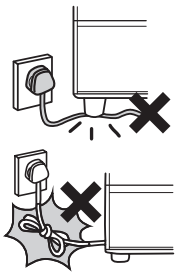
Handling the power and power cable

Prohibited

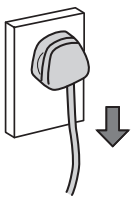
● **Avoid usage that may cause the wall outlet or power cord components to work beyond their specified electric current.**
Also do not use power sources that are not a rated AC voltage.
If a power source is shared with other appliances, double or multipoint adapters may heat up beyond normal levels and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



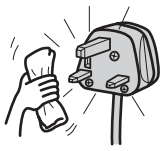
● **Do not do anything that may damage the power cord or plug.**
(The power cord or plug should not be cut, modified, touched with hot implements, bent by force, twisted, pulled, have heavy objects placed on it, squeezed by the refrigerator, or be bound or tied up.)
Using a damaged power cord may cause 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

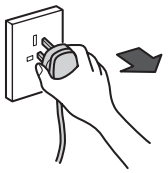
● **Do not insert or remove the power plug with wet hands.**
・This may result in electric shock.





● **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.38
・Always hold the plug when unplugging it.



During use


Wetting Prohibited

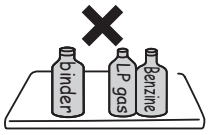
● **Do not splash water on or inside the refrigerator.**
・This may impair electrical insulation causing electric shock or fire.

● **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.

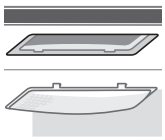
● **Do not put too much force on the door by opening it too much or leaning on the opened door.**

● **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.**

● **When an infant child may use the Auto Door or Auto Refrigerator Door to make mischief, please stop the Auto Door function.** → Pg.22

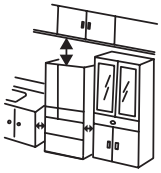
⚠ WARNING R600a

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.

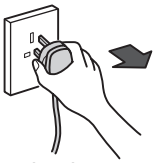


R600a

- **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 engineer only.**

In case of emergency

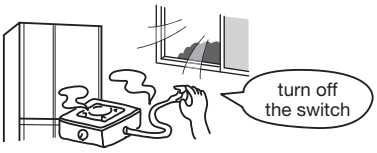
- **Stop the refrigerator by unplugging it if it is not running properly or breaks down.**
  Continuous running may cause electric shock or injury.
  - Always hold the plug when unplugging it.



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)

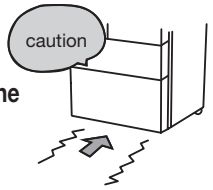
- **Do not use this near automatic control devices such as automatic door.**
  Radio waves from the wireless LAN may affect automatic control devices. It may cause a malfunction.
- **Do not use this in rooms with medical electrical equipment.**
  Radio waves from the wireless LAN may affect the medical 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

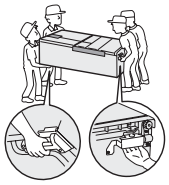
When moving the refrigerator

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.



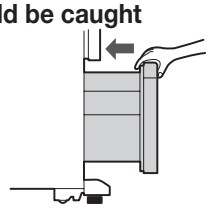
During use

Prohibited

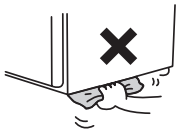
- **Do not put bottles in the Door Baskets if they do not sit properly on the bottom of the front section.**
  - Forcing in items like large bottles may result in them getting tipped over, causing injury.



- **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.
- **Do not press the auto door switch on the auto door compartment with knee, etc.**
- **Avoid placing anything like a bottle near the auto door compartment.**
- **Neither heat the glass surface of the glass shelf nor put a hot item on it.**
- **Be careful not to operate the Auto Door when another person is in front of the refrigerator, which may lead to personal injury unexpectedly caused by the opening door.**

⚠

- **To prevent water from dripping on the floor.**
  Water due to dew and/or frost may drip on the floor if there is a gap clearance around the door for a long time. Close the door completely without no gap.
- **When opening 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

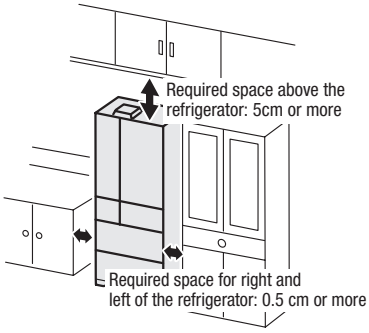
Preparation before use

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)

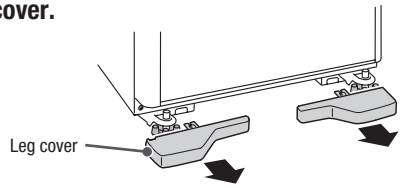
※ The actual size of the center part of the side of the refrigerator's main body is slightly larger than the nominal size. Therefore, please allow enough space around when installing the refrigerator.

※ 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.



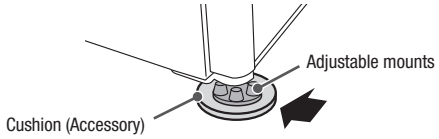
2 Fixing the refrigerator on the level or adjusting its horizontal level

1 To remove leg covers, hold the both ends of one leg cover and pull it towards to you and repeat this operation for another leg cover.



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

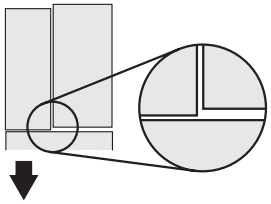
- Always wipe the adjustable mounts and floor clean before placing pads. Adherents may scratch the floor if they remain.



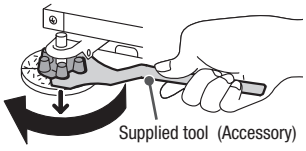
3 Rotate the right and left adjustable mounts until they reach the floor. Adjust the mounts so that the right and left doors of the Refrigerator Compartment get parallel.

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.

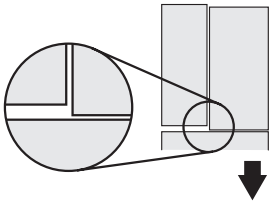
■ The left side door is lower.



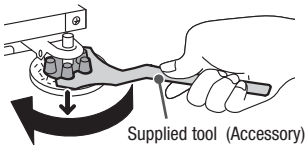
Turn the left Adjustable mount to lower the left side door.



■ 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.

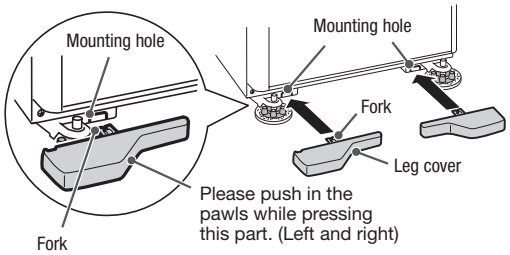
Make sure to use a supplied tool and 2 cushions



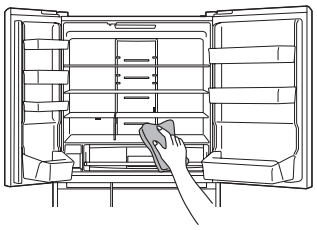
Notice

- Packaging specifications may vary depends on production time, but this does not affect the quality.
- 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.38~41



- 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)

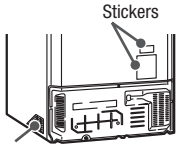
- Check that the power plug or the cord is not wedged between the back of the refrigerator and the wall in order to prevent the cord from getting hot.

Cooling inside the refrigerator starts.

- **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.40
- 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.

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.



Plastic parts - Left/Right

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.) → Pg.56

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.56

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™ store” and “Android” are trademarks or registered trademarks of Google LLC.
- Wi-Fi™ is a trademark of Wi-Fi Alliance®.
- Wi-Fi Protected Setup™, WPA™, WPA2™ 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, “™” 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.

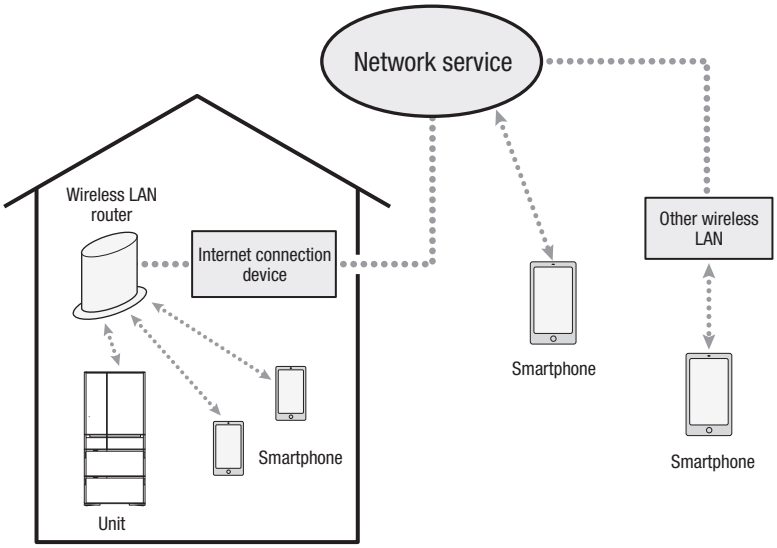
● **"Support" function** → Pg.17

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.50-51

● **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.50

Preparation

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

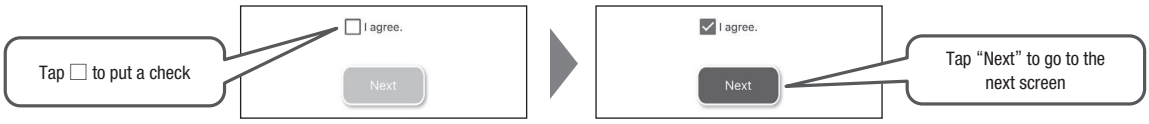
- Select a wireless LAN router that can be connected even where the unit is installed.
- Select a wireless LAN in the 2.4 GHz band. (pairing is not possible in the 5 GHz band)
- The wireless LAN router’s SSID is the name shown at the Wi-Fi setting of the smartphone.
  If he SSID and password of the wireless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

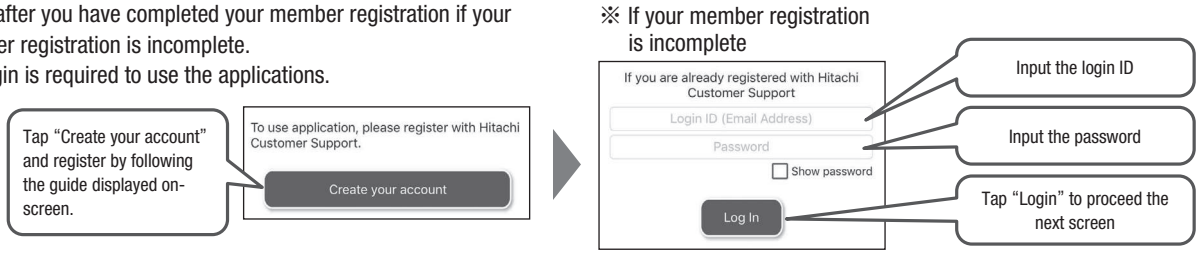


2

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.



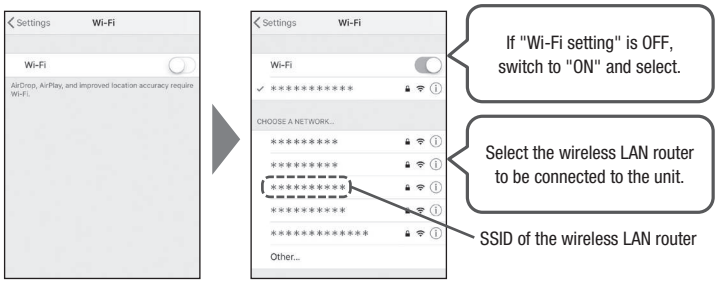
3

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.



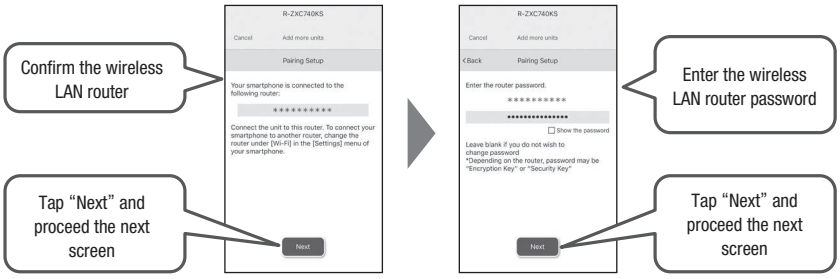
4

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.



CONNECT TO THE SMARTPHONE (CONTINUED)

5 Set the wireless LAN function as "Yes"

Operate the unit

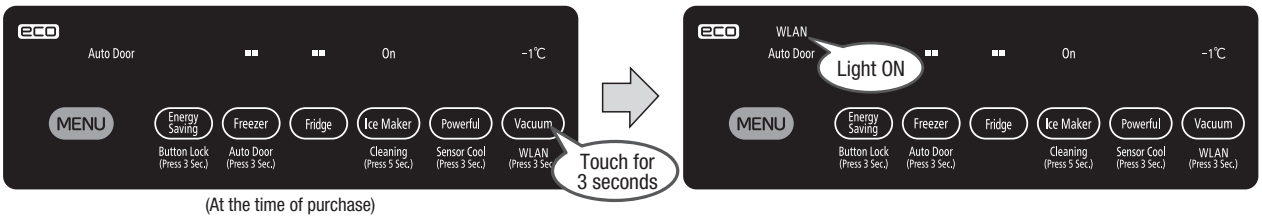
1 Touch MENU button on the Control Panel to turn on the indicator lamp.

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.



(At the time of purchase)

6 Set the unit pairing mode

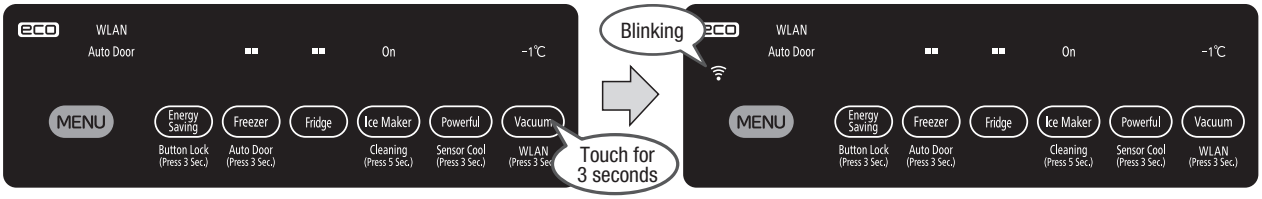
Operate the unit

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 .



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

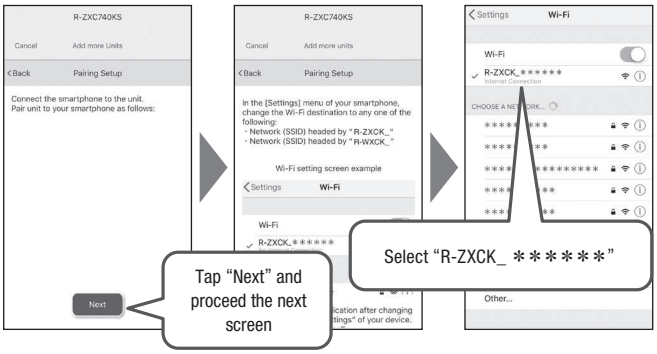
Operate the settings of the smartphone

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

Refrigerator model name	Network name
R-ZXC740K type R-ZXC740R type	R-ZXCK_****** R-ZXCR_******
R-WXC740K type R-WXC670K type R-WXC620K type R-WXC740R type R-WXC670R type	R-WXCK_****** R-WXCR_******

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

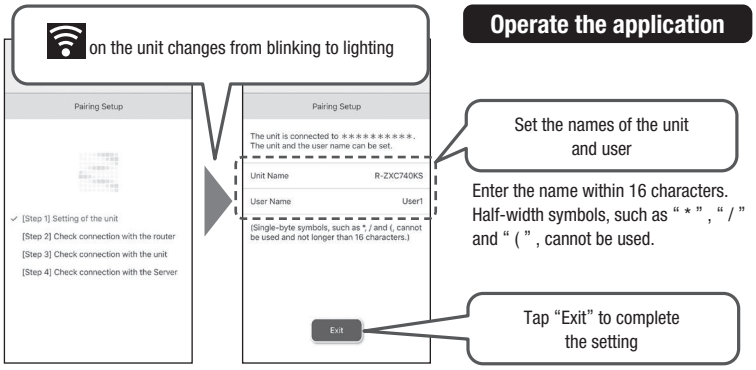
Ex.) In case of R-ZXC740K type



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.



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.

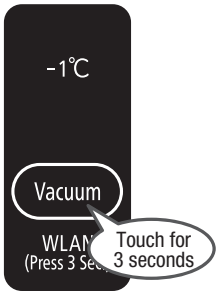
3 **Open the Lower Freezer.**

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

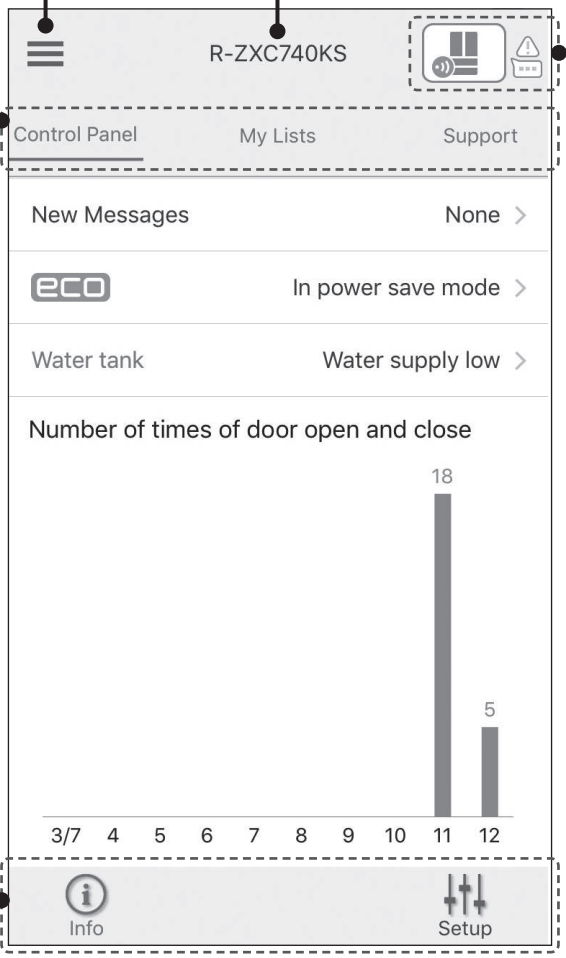
It is possible to change or confirm the setting. → Pg.18

"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



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



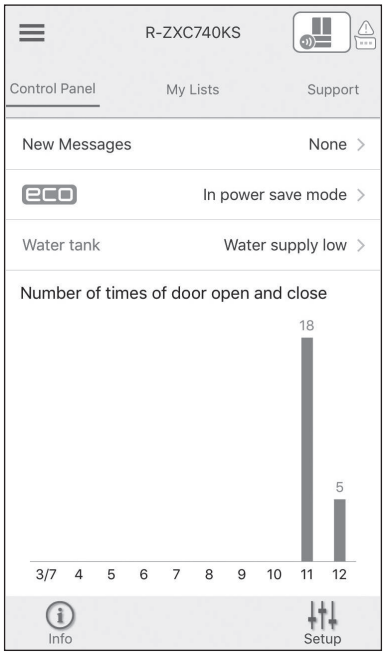
There is a "New Message" .



There is no "New Message" .

How to see the Control Panel (info) screen

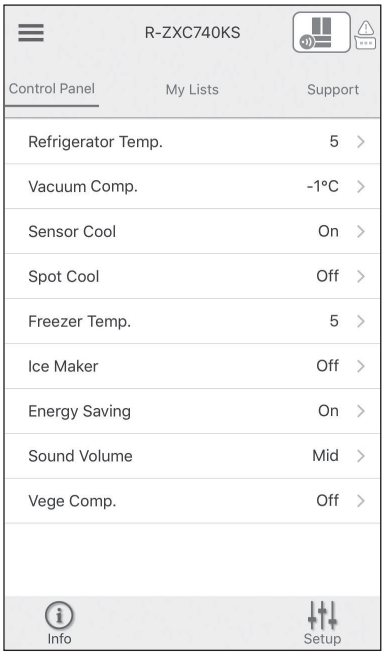
Select “Control Panel” from the “Tab” button of the application, and tap the “Info” button at the lower left to display. → Pg.16
The operation status and new message display of the refrigerator can be confirmed. In addition, number of times the refrigerator door opens and closes for the last 10 days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



※ Number for the door opening / closing is the total number of opening / closing of the doors of each compartments including the refrigerator, ice maker, upper part of the freezer, lower part of the freezer, and vegetable.
(Excluding the upper part of the freezer of R-WXC740K type, R-WXC670K type, R-WXC620K type, R-WXC740R type and R-WXC670R type.)

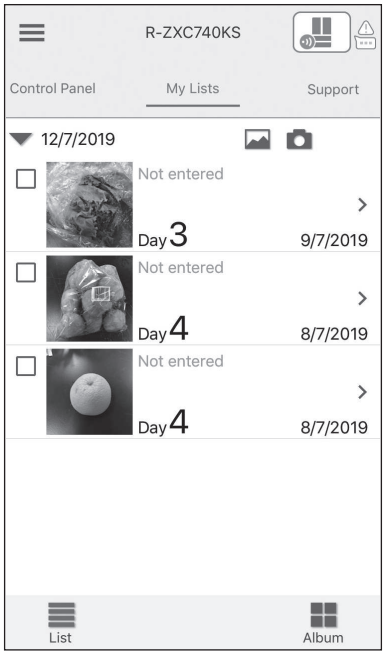
How to see the Control Panel (Setup) screen

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.



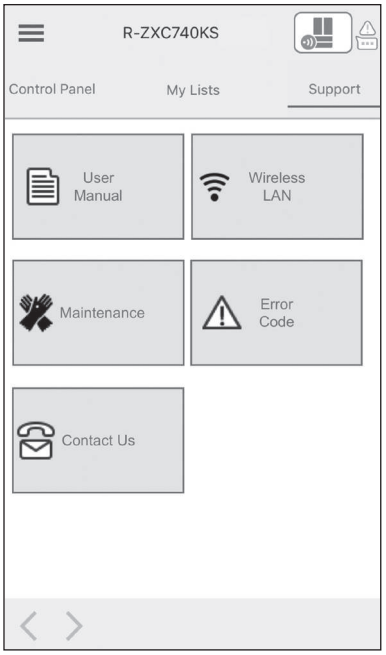
How to see the My Lists screen

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.



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.



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/What's New/Copyright**

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

■ **Language**

Select language.

■ **Customer Support**

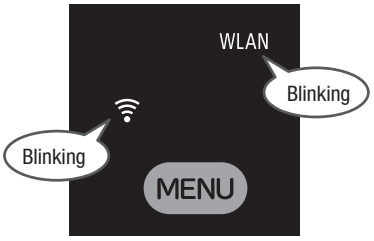
Conduct logout and correction of member information.

On the updating the unit's software

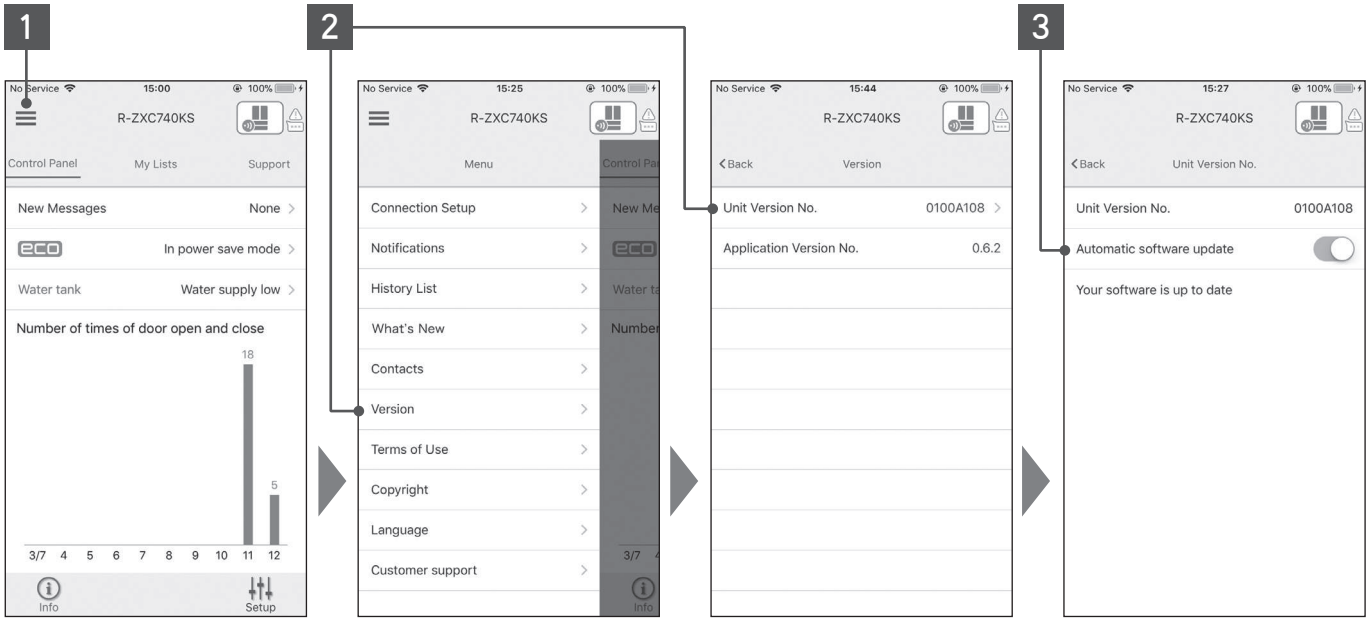
If there is software to update, the wireless LAN feature can be used to update the unit software.

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.



Set the updating of the unit software



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.24

Shelf: About 2˚C ~ 6˚C Pocket: About 2˚C ~ 9˚C

Daily foods



The temperature at the door pocket is slightly high.

Vacuum compartment → Pg.26

+1℃ About 0˚C ~ 2˚C



−1℃ Off About -2˚C ~ 0˚C



Ice compartment → Pg.28

About -19˚C ~ -17˚C

Ice Storage Space

Ice made by Automatic Ice Maker

[Only for R-ZXC740K type, R-WXC740K type, R-ZXC740R type, R-WXC740R type]

Small Article Case

Refrigerants or ice bars → Pg.29

Upper freezer → Pg.30

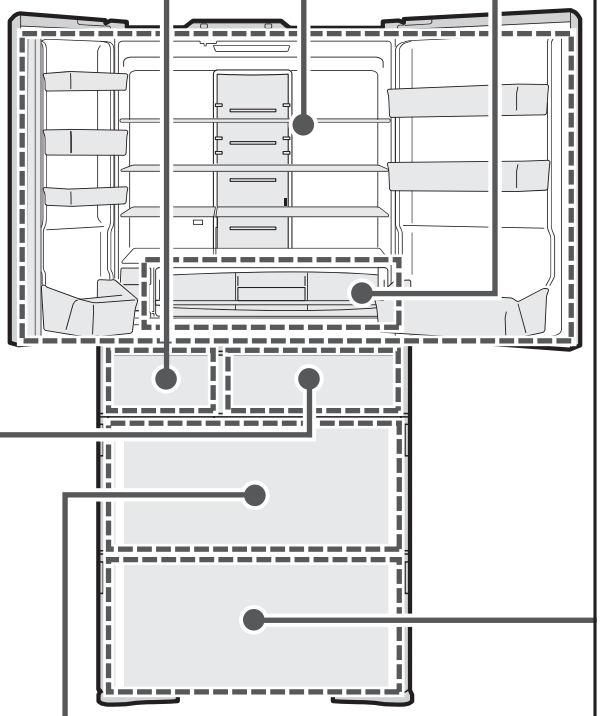
About -19˚C ~ -17˚C



Lower freezer → Pg.30

About -20˚C ~ -18˚C





Vegetable compartment → Pg.32

Upper/Lower space: About 4˚C ~ 8˚C

Upper space

Unfinished vegetables, small vegetables, fruits, etc.

Lower space

Leaf vegetables (spinach, Japanese Mustard Spinach etc.), large vegetables (cabbage, lettuce), etc.



Tall Storage Compartment: About 4˚C ~ 9˚C

Tall Storage Compartment

Tall vegetables, PET bottle.



※ 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, whereas the setting is "■■" for both refrigerating chamber and freezing chamber. The above temperatures are those when "Sensor Cool" and/or "Veg" is not enabled.

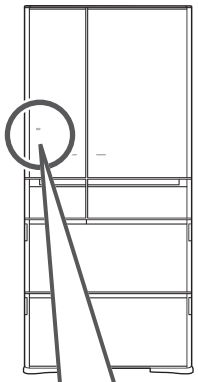
※ The temperature may vary depending on food storage conditions, door opening and closing, etc.

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.53

Functions of the Control Panel

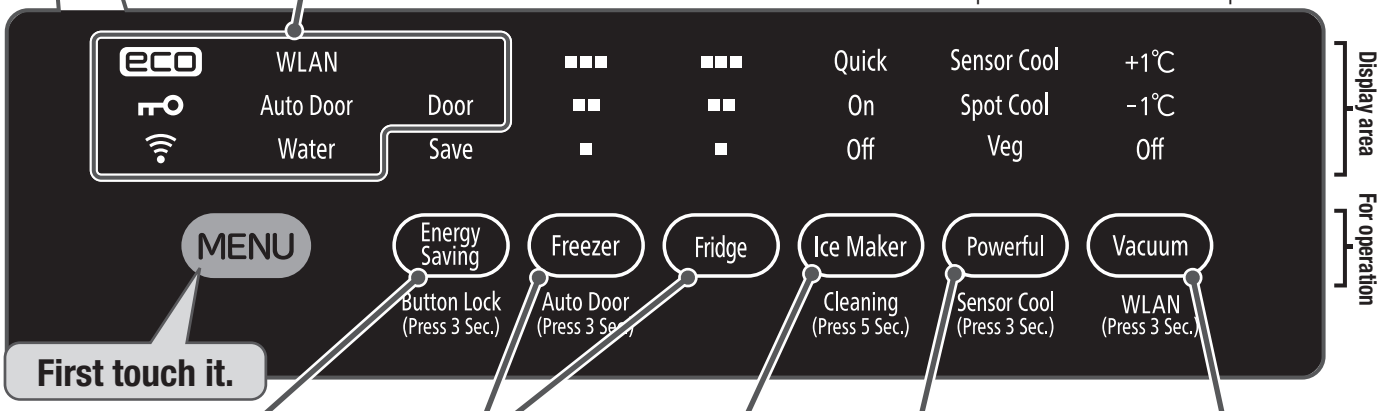
The Control Panel is divided into two sections:
Display Section in the upper part and Operation Section in the lower part.
The Display and Operation Sections are normally unlit. Touch MENU to light it up.
The Operation Section is a touch panel. Touch it to toggle the setting.



Providing information

eco	It will turn on while it is working in "eco" mode. → Pg.36 ["eco" Operation indicator]
🔑	It will turn on while the Control Panel is locked. → Pg.34
📶	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.
Auto Door	Is lit when the Auto Door function is turned ON. → Pg.22
Water	It will turn on when water in the water supply container is getting low. → Pg.29 [Water Supply indicator]
Door	Is lit when a door is frequently opened or closed. → Pg.36 [Door Open & Close indicator]

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



Setting Energy Saving mode

Energy-saving by reducing cooling power of each compartment.

"Save" → Pg.37

Adjusting temperature settings

Normally, use the "■■" setting.

Refrigerator Compartment → Pg.24

Freezer Compartment → Pg.31

Setting an ice-making

"Quick" → Pg.29

"On" → Pg.28

"Off" → Pg.29

Setting a cooling mode

"Sensor Cool" → Pg.25

"Spot Cool" → Pg.25

"Veg" → Pg.32

Setting the Vacuum Compartment

+1℃ → Pg.27

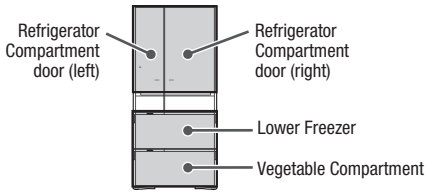
-1℃ → Pg.27

"Off" → Pg.27
(Non-vacuum)

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)" , ["eco" Operation], and [Door Open & Close].
- 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.45 .

Auto Door



■ **Auto Refrigerator Door** You can open the door easily by touching the door lightly with your fingers thanks to the Auto Refrigerator Door function. (Only for R-ZXC740K type, R-ZXC740R type)

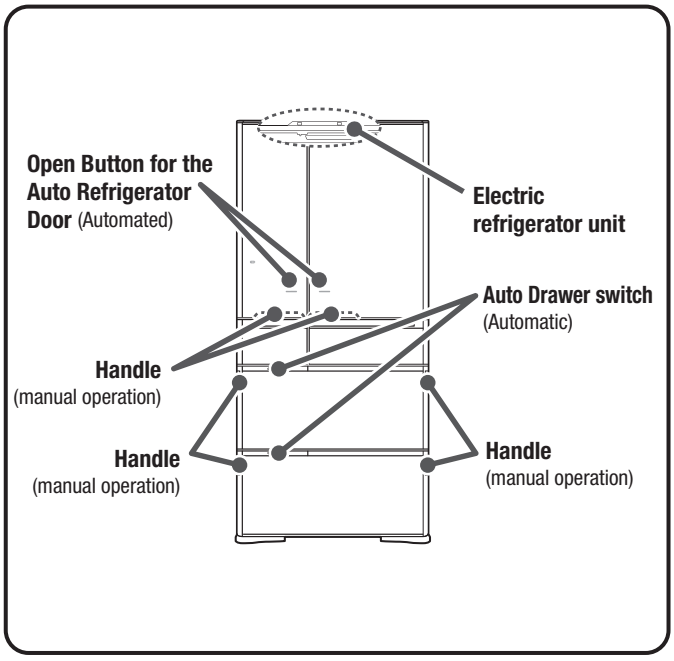
■ **Auto Drawer** Auto Drawer function helps you to pull out the case easily even if it is heavy with plentiful foods in.

⚠ Warning

- **When an infant child may use the Auto Refrigerator Door or the Auto Drawer to make mischief, please stop the Auto Door function.**

⚠ Caution

- **When an infant child may use the Auto Door to make mischief, please stop the Auto Door function.**
- **Do not operate the Auto Refrigerator Door Switch when another person is in front of the refrigerator (which may lead to personal injury unexpectedly by the opening door).**
- **Do not bring your foot too near the refrigerator when you press the Auto Drawer switch of the vegetable compartment. (You may knock your foot against the door and may cause injury)**
- **Do not put any item on the refrigerator.**
- Do not hold any portion of the door other than the handle. (This can cause pinching of fingers, which could result in injury.)
- Do not press the Auto Drawer switch with your knee.



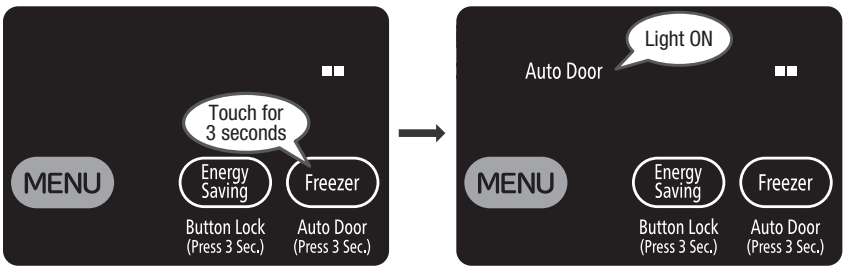
Setting the Auto Door

You can enable or disable the Auto Door function. The function is enabled when you purchase the product.

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 Freezer for three seconds or more until the preset sound (long beep) is heard to turn on the "Auto Door" indicator lamp.**



(At the time of purchase / At the time of setting)

3 **Touch MENU on the Control Panel to turn on the indicator lamp, press and hold Freezer for 3 seconds or more until the preset sound (2 beeps) is heard to turn off the "Auto Door" indicator lamp.**

Notice

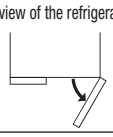
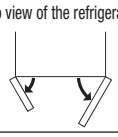
- When the Auto Door function is turned "off" , open the door with the handle.
- The Auto Door function cannot be disabled for either Auto Refrigerator Door or Auto Drawer only.

Using the Auto Refrigerator Door

When touching the Open Button for the Auto Refrigerator Door, the operation sound is heard, and then it will open automatically.

Request

When closing it, use the handle with your hand to do so.
The door does not close automatically.

How to open the Auto Refrigerator Door	Opening one door on either side 	Open both doors at a time 
How to operate	Touch the Open Button of the door to be opened  * Operate with a finger.	Slide your finger from one edge of the Open Button to the other.  (Doors will open in turn from the side you touch.)
Operation sound of the Auto Refrigerator Door	1 beep	Long beep

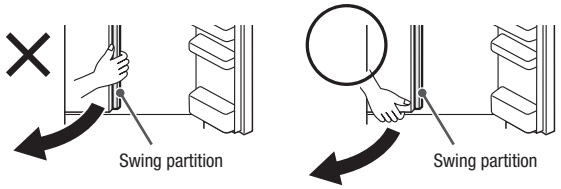
Notice

- **The Auto Refrigerator Door does not open when either the "Ice Compartment" or the "Upper Freezer" is opened to prevent hands from being caught.**
- The Auto Refrigerator Door is a function to reduce load incurred at the beginning of the opening of the door of the Refrigerator Compartment. Opening angle of the door may vary or the door may slightly go back, depending on installation conditions of the refrigerator or how beverages or foods are stored in the door pocket, but this is not an abnormal.
- After touching the Open Button for the Auto Refrigerator Door, the operation sound may be heard when opening the door, but this is not malfunction.
- If the Open Button for the Auto Refrigerator Door is wet or dirty, it may not respond. Use a wet cloth to wipe off dirt, and then wipe it with a dry cloth.
- If you touch the Open Button of the Auto Refrigerator Door and its neighboring part at the same time, or you touch it for about one second or more, the Auto Refrigerator Door may not be opened automatically.
- Hold the handle with your hand to open the door while the Auto Refrigerator Door function is disabled.

■ Manually open and close the Refrigerator Door.

When opening a door

- Do not hold the swing partition to open the door.
  (It may make it impossible to open the door.)



When closing a door

- Do not close the door with the swing partition erected.
  (It may make it impossible to close the door completely.)

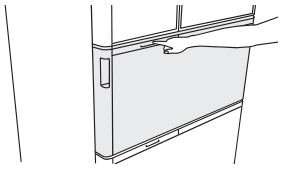


Request Do not apply excessive force to a door, by, for example, opening it with too much force or leaning against the opened door. Doing so may damage it.

Using the Auto Drawer

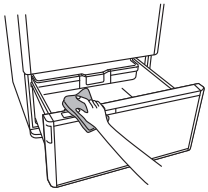
Press the Auto Drawer to automatically open the drawer.

When you close it, push the handle on the right/left to close.
The door does not close automatically.

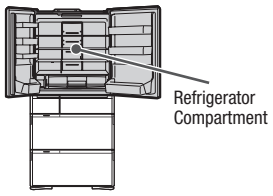


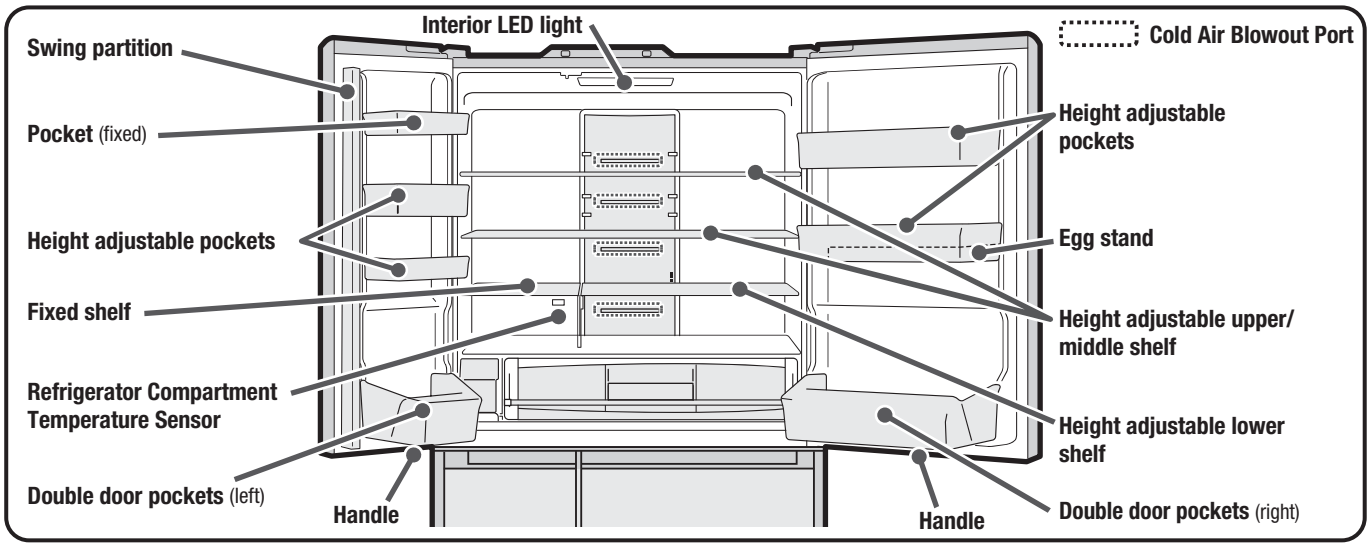
Notice

- This function is to reduce an initial load when pulling out the Auto Drawer. The Auto Drawer can be pulled out by approx. 15 cm or more. The length may vary depending on installation conditions of the refrigerator, or the door may go back a little after the door is opened automatically, but it is normal.
- "Lower freezer" and "vegetable compartment" cannot be electrically opened at the same time.
- When one of the "lower freezer" and "vegetable compartment" is open, the Auto Drawer function does not work.
- A sound is heard when you press the Auto Drawer switch. This is not abnormal.
- Wipe off spilled liquid and others on the Auto Drawer switch immediately.
  Or Auto Drawer switch may fail to work, causing the door open disorderly.
- Hold the right and left handles with your hand to pull the drawer out while the Auto Drawer function is disabled.



REFRIGERATOR COMPARTMENT





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 "Sensor Cooling" is enabled. A lid or plastic wrap can prevent freezing.

Adjusting temperature in a refrigerator compartment

The temperature is set to "■■" at the time of purchase. Use the setting on a daily basis.
If you feel the inside is not cooled enough in summer, select "■■■" .

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.

Request ● When you use "■■■" for a long time during winter, food may be frozen. If the inside is too cool, use "■■" or "■" .

Notice
● The temperature may change depending on the operation states.
● If you adjust the temperature more finely. → Pg.34
● The "■■■" setting of the Freezer Compartment consumes more energy than the "■■" setting by approximately 20%.
● Changing the temperature setting of the Refrigerator Compartment also changes the temperature in the Vacuum Compartment.

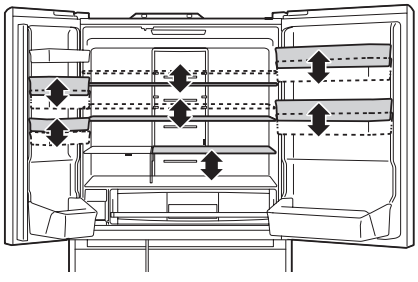
Adjust the height of a pocket/shelf

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.42 .

⚠ CAUTION

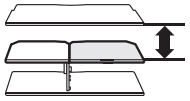
■ Handling the glass shelves
● Avoid a high impact on the glass shelf. (A broken glass may cause injury)
● Be careful to attach the glass shelves because they are heavy.

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

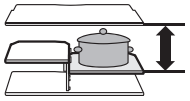


R-ZXC740K Type
R-WXC740K Type
R-WXC620K Type
R-ZXC740R Type
R-WXC740R Type

● State at the time of purchase

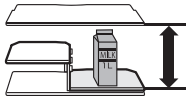


● Storage of pans, etc.



Mount the shelf board at the middle level.

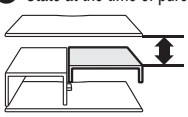
● Storage of milk carton, etc.



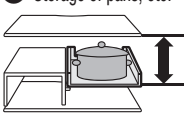
Mount the shelf board at the lower level.

R-WXC670K Type
R-WXC670R Type

● State at the time of purchase

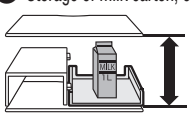


● Storage of pans, etc.



Turn the upside of the shelf board down and mount it at the upper level.

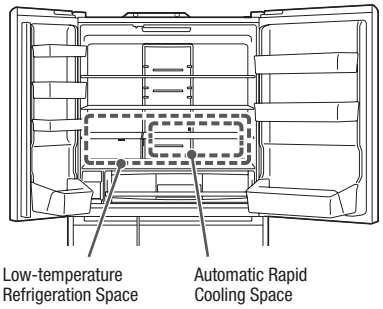
● Storage of milk carton, etc.



Turn the upside of the shelf board down and mount it at the lower level.

When keeping food at lower temperatures (using the "Sensor Cooling" function)

"Sensor Cooling" has two functions:



- **Lower the temperature of the "Low-temperature Refrigeration Space"** (Disabled: About 2 to 6 ˚C ⇒ Enabled: About 0 to 3 ˚C)
  Suitable for storing prepared daily dishes.
- **Upon placing a hot food in the "Automatic Rapid Cooling Space" , a sensor detects the temperature of the food and cools it rapidly.**
  Even if you put a hot pan, the refrigerator can cool it rapidly, while reducing the impact on other foods.
  To put a pan in the "Automatic Rapid Cooling Space" , **cool it down to a temperature at which one can touch it with bare hands (50 ˚C or less)**. This can prevent burn injury or shelf deformation.

Notice

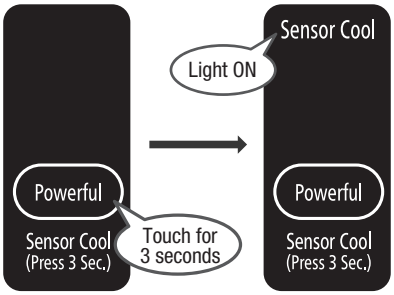
- Enabling "Sensor Cooling" enables both of the "Low-temperature Refrigeration" and "Automatic Rapid Cooling" functions at the same time. Either of the functions cannot be enabled.
- When "Sensor Cooling" is enabled, the regrigerator consumes more power than when disabled. The operating sound may be noisier.
- When "Sensor Cooling" is enabled, temperature in the Double door pockets is also lower than when disabled.
- When the Refrigerator Compartment is set to "■" or "Energy Saving", the temperature in the entire Refrigerator Compartment is higher than that for "■■" by about 1 to 3 ˚C. If the Refrigerator Compartment is set to "■■■" , the temperature in the entire Refrigerator Compartment is about 0 to 3 ˚C.
- In the "Automatic Rapid Cooling" mode, the sensor may not be able to detect the temperature of food, depending on the amount or temperature of the food. However, when "Sensor Cooling" is enabled, the Low-temperature Refrigeration Space is lower than when disabled, allowing you to cool food more quickly.
- The above temperature in the "Low-temperature Refrigeration Space" is based on the assumption that the surrounding temperature is about 32 ˚C and the temperatures of the Refrigerator and Freezer Compartments are stable at the "■■" setting.

■ How to enable "Sensor Cooling"

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.
The Sensor Cooling is set to "Off" at the time of purchase.

2 **Touch and hold Powerful for at least 3 seconds until the setting sound (beep) sounds to light "Sensor Cool" .**
"Sensor Cool" is valid until it is released.

Cancel **Touch MENU on the Control Panel to turn on the indicator lamp, touch and hold Powerful for at least 3 seconds until the setting sound (2 beeps) sounds to turn off the "Sensor Cool" .**

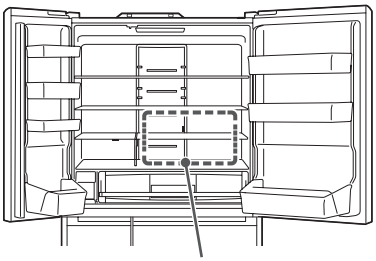


(At the time of purchase) (Setting at time of purchase)

When you want to quickly cool the foods. (using the "Spot Powerful Cooling" function)

When you want to quickly cool the foods, operate to strengthen the cooling of the "Automatic Rapid Cooling Space" .

It can reduce the time for cooling warm foods and the removal of heat just after cooking.
It is recommended when you want to quickly cool a lunch box or drinks as well as vegetables before going out just after cooking. When storing warm foods, cool it to **a temperature that can be touched by hand (50˚C or less)** and then put it in. It can prevent burns or shelf deformation.



Notice

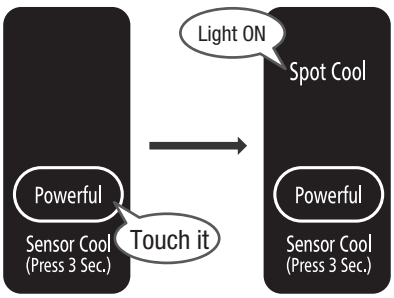
- When "Spot Powerful Cooling" is set, the amount of power consumption is greater than when it is released.
- Continuous use of "Spot Powerful Cooling" may freeze foods in the refrigerator.
- It can be also used even when the "Sensor Cooling" is set.

■ How to enable "Spot Powerful Cooling"

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.
The Spot Powerful Cooling is set to "Off" at the time of purchase.

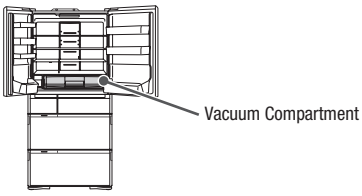
2 **Touch Powerful button to turn on "Spot Cool" indicator lamp.**
The operation is automatically stopped in around 60 minutes and the indicator "Spot Cool" display turns off.

To cancel it **Touch MENU button on the Control Panel to turn on the indicator lamp, and touch Powerful button to turn off "Spot Cool" indicator lamp.**



(At the time of purchase) (Setting at time of purchase)

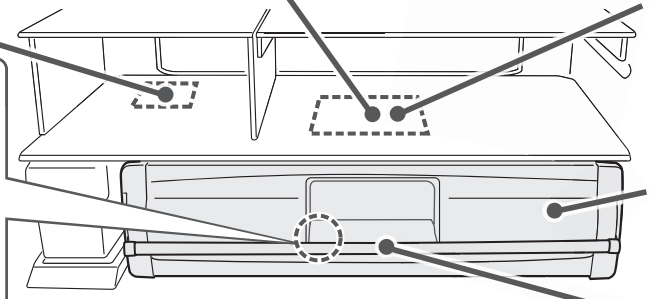
VACUUM COMPARTMENT



Platinum catalyst The platinum catalyst decomposes odor ingredients of meat or fish into carbon dioxide to maintain the freshness of foods.

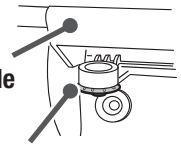
Vacuum Pump

LED light
Brightly lights up the Vacuum Case when a door of the Refrigerator Compartment is opened.



Vacuum Case
(With an aluminum tray)

Handle



Vacuum release valve (in blue)

Raise the handle to unlock it. The vacuum will be released by the vacuum release valve.
Hissing sound is generated when releasing the vacuum.

Key points for using appropriate temperatures

Switch between "+1℃" and "-1℃" , depending on the food to be stored.

※ At the time of purchase, the refrigerator is set to the "-1℃" .

+1℃ (About 0℃ – 2℃)	● **Dairy products**  ● **Precut vegetables and fruits**  ● **Food which form air bubbles inside if frozen** 
-1℃ (About -2℃ – 0℃)	● **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℃ – 0℃)	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.
- When putting food materials that should be stored at subzero and chiller temperatures together, set the temperature to "+1℃" to prevent freezing.
- 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.

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.

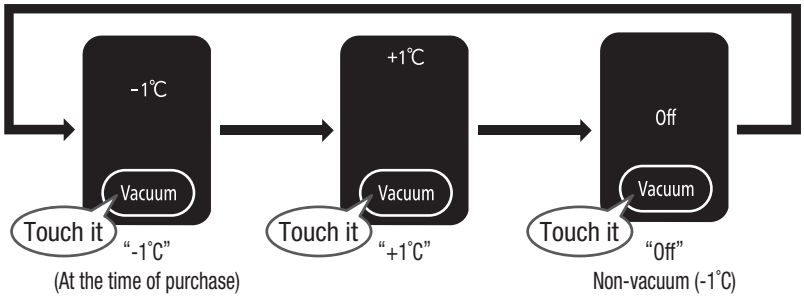
2 Touch Vacuum button to change the settings as you like.

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

The temperature is set to "-1˚C (Subzero)" 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.

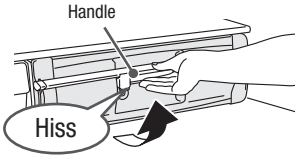


※The above values are obtained with an ambient temperature of 32˚C, the temperature in the Vacuum compartment in a stable state with no food stored and no door opened.

When opening/closing the door of the Vacuum Case

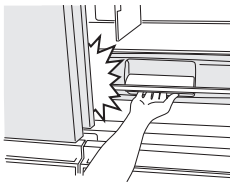
When opening the door

1 Pull up the handle to unlock.

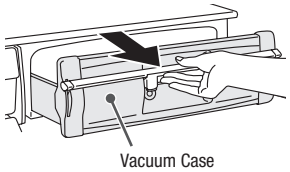


※ It takes about three to four minutes for the Vacuum Case to be vacuumed after the vacuum pump starts to operate. The hissing sound may not be heard when the Vacuum Case is opened within four minutes.

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



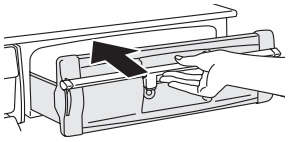
2 Pull out the Vacuum Case.



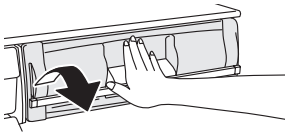
※ The hissing sound indicates that vacuum is being released. Thus, the Vacuum Case cannot be drawn out while the sound is heard. Draw it out after the sound is no longer heard.

When closing the door

1 Push the Vacuum Case back to the end.

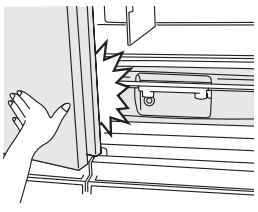


2 Press down the handle to lock.



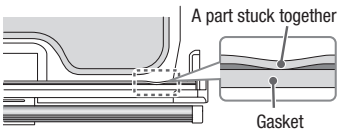
Caution

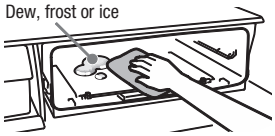
- **The Vacuum Case is not put in the vacuum state unless the handle is pushed down securely.**
- **Closing the door of the Refrigerator Compartment without locking the handle may damage parts or food or form a clearance between the doors, which reduces cooling performance.**



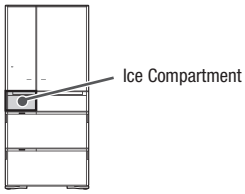
Request

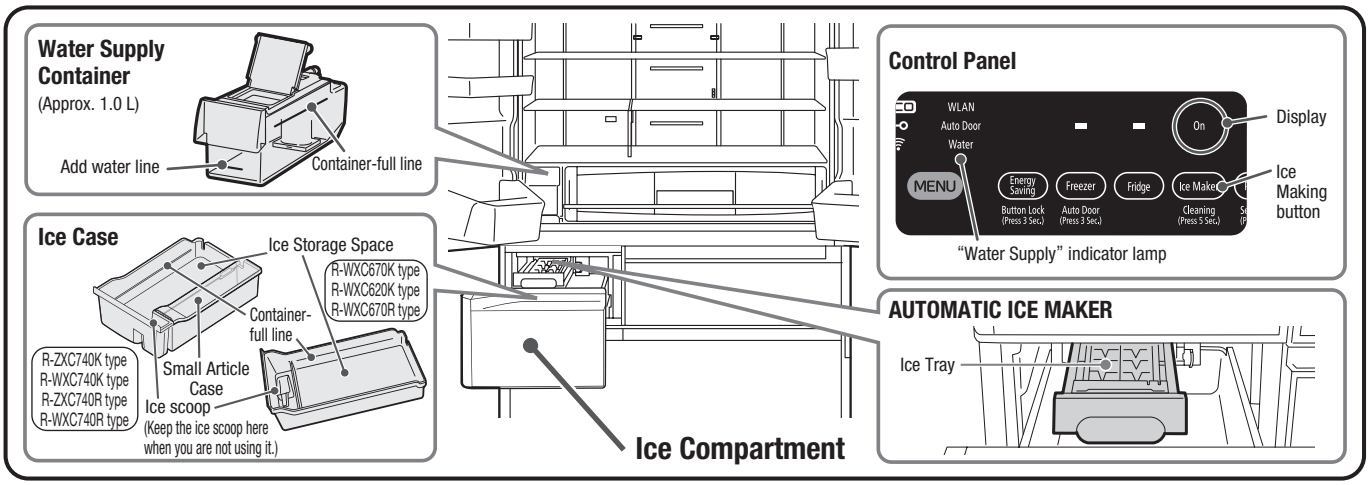
- **If a part of the gasket is stuck together, the vacuum state cannot be maintained. If it is stuck together, please remove it. Since it is difficult to see the left and right sides and the bottom, remove the Vacuum Chilled Case and check it.** → Pg.42
- Dew and/or frost may be formed in the sealed 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)





How to make Ice

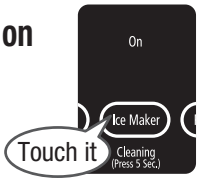
Perform "Ice Maker Cleaning" when making ice for the first time or for the first time in a week or more. → Pg.40

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

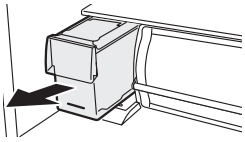
All indicator lamps turn on, and then the current settings are displayed.

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.

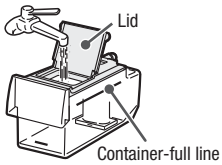


3 Take off the Water Supply Container.



4 Open the lid and add water.

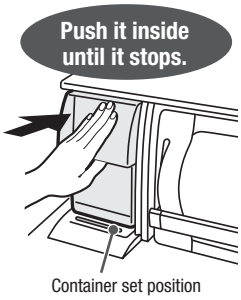
※ Do not pour water into it beyond the full water line.



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.



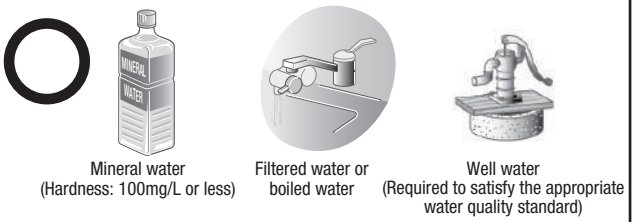
※ Water may spill out if the water supply container is inclined. Wipe off spilled water immediately.

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.41
- 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 (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 drink | Sports drink | Carbonated drink | Tea

Stored ice amount and ice-making time

Model		R-ZXC740K type, R-WXC740K type, R-WXC670K type, R-WXC620K type, R-ZXC740R type, R-WXC740R type, R-WXC670R type
Stored ice amount	Normal operation	About 90 pcs
	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

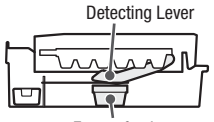
※ The above values are obtained with an ambient temperature of 30˚C, the temperature in each compartment set to "■■" and no door opened/closed.

Notice

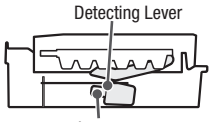
- **Ice cubes stacked unevenly may suspend ice-making even if they are not enough.** Make them flat.
- **It may take longer time to make ice in the following cases:**
  - It is used for the first time (it may take 24 hours or more).
  - When the temperature of the Freezer Compartment is set to "■" .
  - Large volume of foods is stored in the refrigerator at a time.
  - It is set to the "Energy Saving" mode.
  - In case of power outage.
  - The door is opened/closed frequently.
  - After the ice tray is cleaned.
  - When the door of the Freezer Compartment / Ice Compartment is not closed completely.
  - 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 or close the Ice Compartment door slowly.
  Failing to do so may cause ice cubes to drop from the Ice Case onto the Lower Freezer.



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



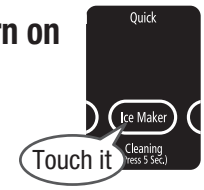
Is the Ice scoop placed in a given place?

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.**



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

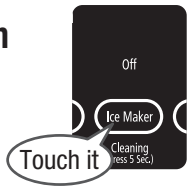
- "Quick" indicator continues to be lit during the "Quick" operation. The ["eco" operation indicator lamp] is not turned on.
- While "Quick" is operating, cooling for the freezer compartment is given priority, so the temperature of the refrigerator compartment is likely to increase when the doors are opened and closed frequently.

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.**



※ If you set to "Off" for 1 week or more, maintain the Automatic Ice Maker.
→ Pg.40, 41

Notice

- "Off" indicator continues to be lit during the "Off" operation.

Small Article Case (Only for R-ZXC740K type, R-WXC740K type, R-ZXC740R type, R-WXC740R type)

Stored foods	Refrigerants or ice bars

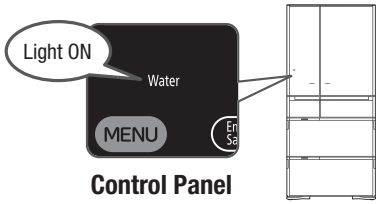
Notice

- When putting something hot, ice in the Ice Storage Space may melt or ice-making may take a long time.
- Ice cream may be soft due to indirect cooling.
- Be sure to close the lid. Do not put an object which is too large to close the lid.

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)



Control Panel

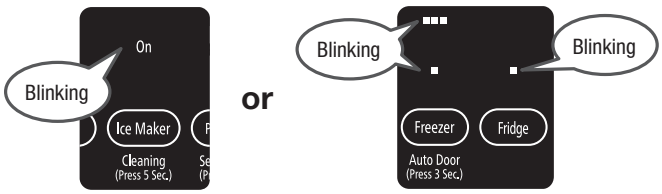
Notice

- 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.

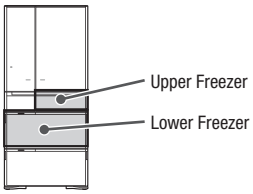
When the "On" indicator blinks, or the "■■■" and "■" Freezer indicators and the "■" Fridge indicator blink

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.40

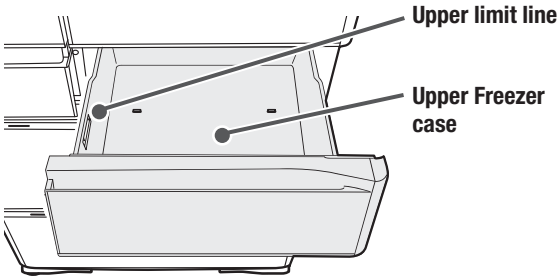


FREEZER COMPARTMENT



Upper Freezer

Use it to keep daily foods or partially used food.

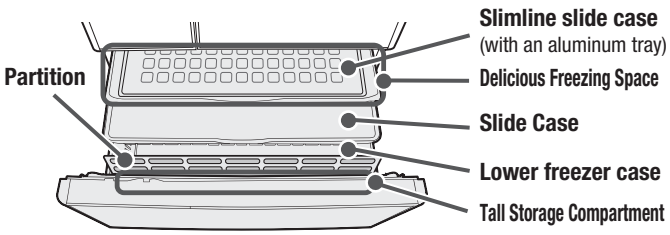


Caution ● Don't put foods beyond the upper limit line.

Lower Freezer

3-layer freezer case provides you with large storage space compartment and convenient reach of your freeze food items.

It is suitable for storing the food preserved for a long time and the food that melt easily such as ice cream.



Caution ● Do not remove the Slimline slide case and the partition.

Stored foods

Upper Freezer		Frozen packages, sealed containers, bread, etc.
Lower Freezer	**Slimline slide case**	Small-item and frozen food, etc. Delicious Freezing Space When you want to freeze meat, fish or rice quickly
	Slide Case	Freezing bag and airtight container etc.
	Lower freezer case	Frozen food and bread, ice cream etc. Tall Storage Compartment PET bottle for freezing, etc.

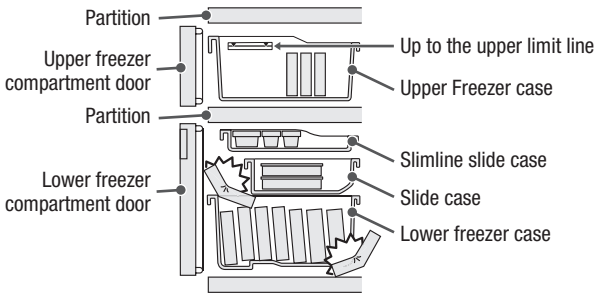
When storing food

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.

Otherwise the door may not be closed completely, which leads to inefficient cooling action, and also may cause damage to the food or cases.

Caution

- **Do not store any 500ml PET bottle in the Slimline slide case. It may not be taken out because it expands when it is frozen.**
- Do not use with the slide case removed. Food may drop to the inner part of the case, and as a result, the door may not close completely.
- Store only food which can be frozen such as PET bottle which can be stored in freezer.



Adjusting temperature in a refrigerator compartment

The temperature is set to "■■" at the time of purchase. Use the setting on a daily basis.

If you feel the inside is not cooled enough in summer, select "■■■" .

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 Freezer button to set the temperature as you like.**



Guide for Freezer Compartment temperatures:

"■■■" 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.

Request

- If the inside is too cool, use "■■" or "■" .

Notice

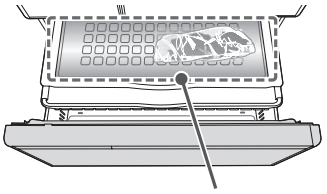
- The temperature may change depending on the operation states.
- If you adjust the temperature more finely. → Pg.34
- The "■■■" setting of the Freezer Compartment consumes more energy than the "■■" setting by approximately 20%.
- Changing the temperature setting of the Freezer Compartment also changes the temperature in the Ice Compartment.

Using the Delicious Freezing

The large aluminum tray helps freeze food more quickly.

Just by placing food in the Delicious Freezing Space, the sensor detects its temperature and automatically switches cooling operation.

Wrap a food item with food plastic film or put it in a freezing bag and then place it on the aluminum tray.
Dividing a food item into small lumps and flattening them allows the center of each lump to be frozen quickly and facilitates the taking-out of the frozen food.

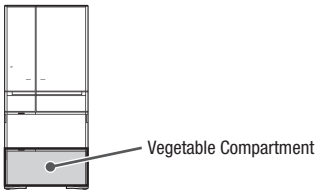


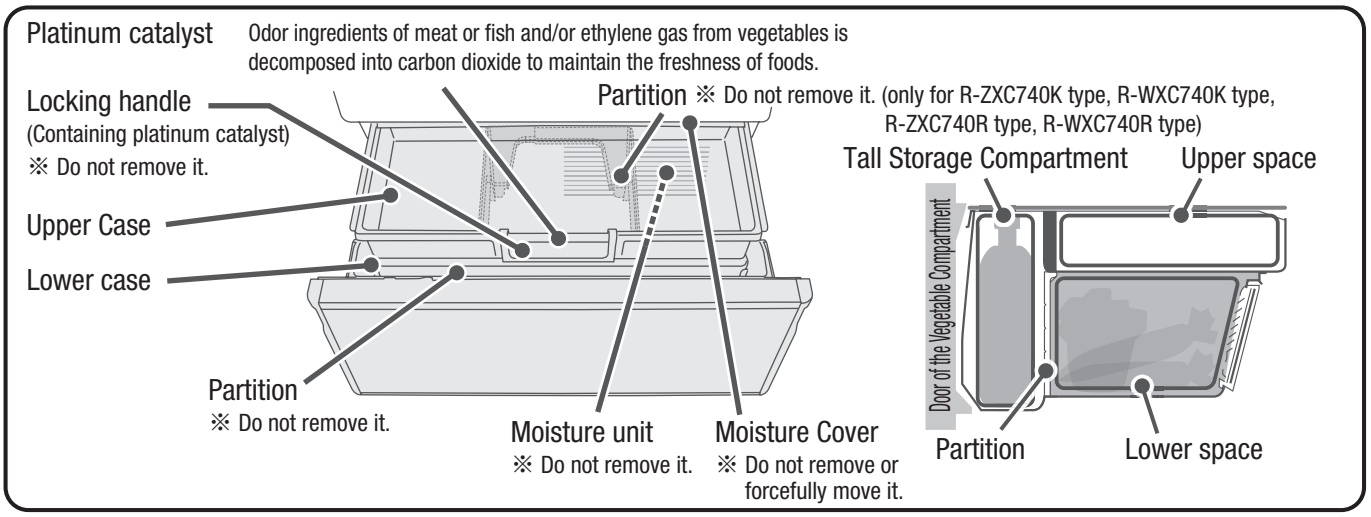
Delicious Freezing Space

Notice

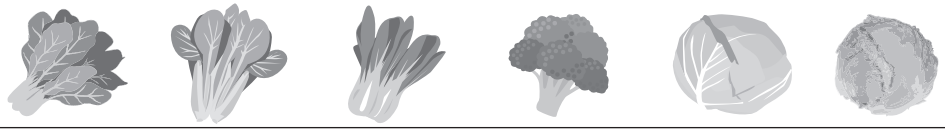
- Food can be frozen more efficiently if put them in close contact each other on the large aluminum tray without stacking.

VEGETABLE COMPARTMENT





Stored foods

Upper space	Unfinished vegetables, small vegetables, fruits, etc.
Lower space	Leaf vegetables (spinach, Japanese Mustard Spinach etc.), large vegetables (cabbage, lettuce), etc. 
Tall Storage Compartment	Tall vegetables, 2L PET bottle, etc.

Adjusting temperature of Vegetable Compartment [Vegetable Compartment (MAX)]

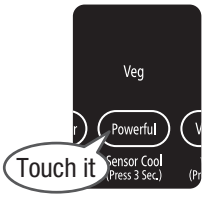
1 **Touch MENU button on the Control Panel to turn on the indicator lamp.**

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

2 **Touch Powerful button to turn on "Veg".**

Food is cooled at temperatures lower than usual (Normally, approx.4˚C to 8˚C, → "Veg": 2˚C to 6˚C)

※ The above temperatures are provided as a guide when the inside temperatures are stabilized at the ambient temperature of 32˚C under the conditions that: The temperatures of the Refrigerator and Freezer Compartments are set to "■■" and the doors are closed without storing food.



Notice

- Although the indicator goes off about 40 seconds for energy savings, the setting is valid until it is cancelled. Meanwhile, note that while the "Veg" setting is on, the ["eco" Operation indicator lamp] does not turn on.

Cancel **Touch MENU button on the Control Panel to turn on the indicator lamp, and then touch Powerful button to turn off the "Veg" indicator lamp.**

Notice

- If foods are kept in the "Veg" for a long time, vegetables high in water content may freeze.
- When setting "Energy Saving" mode during the "Veg" mode, the cooling function is shifted to weaker cooling effects from the "Veg". → Pg.37
- Temperature in the case may be lowered when the outdoor temperature is low.

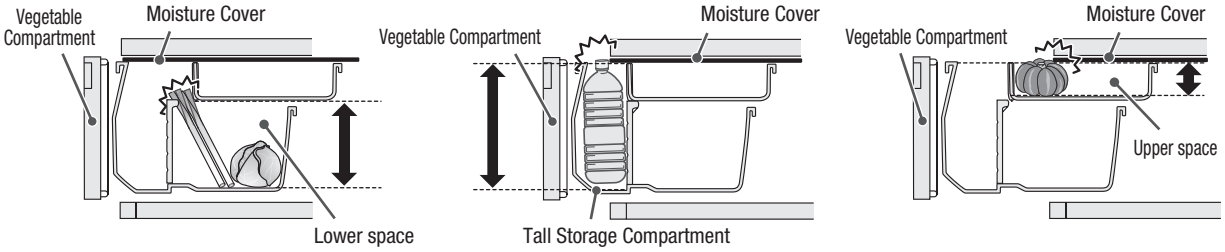
Request In the following cases, cancel the "Veg" setting:

- You care about dents on or discoloration of the surfaces of low-temperature sensitive vegetables, such as eggplant.
- You care about dew condensation in the Vegetable Compartment.

When storing food

Store food according to its type or size.

- **Pay attention to the height of food to be stored.**
  - The door may not be closed securely, which leads to inefficient cooling. It may also damage food, the case and the Moisture Cover.
  - Some PET bottle can't be stored, depending on its type.
- **Do not use the refrigerator with the Upper Case removed.**
  - Doing so may cause food to drop into the rear of the case, which may prevent the closing of the door.
- **Do not push more food or beverage than can be accommodated.**
  - The partition, the cases or the Moisture Cover may be damaged.



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: Eggplants, tomatoes, 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.
- The moisture level of the vegetable compartment is relatively high. As such, depending on the amount and types of vegetables stored in the compartment, moisture might condense on the surfaces of containers, on the moisture-retention unit and cover, or on items stored in the compartment. If you are concern about moisture condensing on the surface of foods, wrap foods in plastic wrap before storing them in this compartment.
- If the moisture-retention unit is blocked (for example, by food in containers or bags), moisture is more likely to condense. Be sure to store food in a way that does not block the moisture-retention unit.
- 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 / Freezer Compartment)

Temperature settings for Refrigerator and Freezer Compartments can be more finely adjusted by 11 levels.

1 **Open the door of the Lower Freezer 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 **Press down Fridge button for 5 seconds or more until 1 beep is heard.**

4 **Close the door of the Lower Freezer Compartment.**

5 **Touch Fridge or Freezer button to make an adjustment.**

Each time you touch the button, the corresponding indicator lamp changes in the order shown below.
Usually it is recommended to use it at the setting of "■■" .

(□ Lighting ▣ Blinking ■ Turned off)

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

To cancel

Follow the operations shown in Step 1, 2, 3 and 4.

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

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 Energy Saving 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

- **The Auto Door function will not be disabled even when the Control Panel is locked.**
  In order to stop Auto Door function, unlock the Control Panel, and touch the Freezer button for 3 seconds or more until it beeps twice.
  → Pg.22, 23
- **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.**

Door Alarm

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

All the doors have the Door Alarm function. (However, for R-WXC740K type, R-WXC670K type, R-WXC620K type, R-WXC740R type, R-WXC670R type, no Door Alarm is installed in the Upper Freezer.)

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 **Press down Fridge 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)

Notice

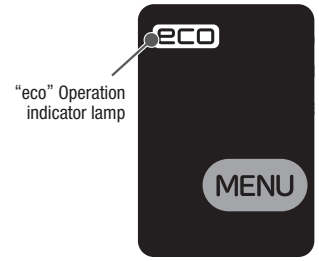
- It is impossible to adjust the volume level of either door alarm or operation sound only.
- When the Door Alarm is disabled, characters on the Control Panel no longer blink.
- Even if the volume level is set to "Sound off" , the alarm of the Ice Maker Cleaning is raised and the operation sound is heard when the Auto Door is set to "ON".
- 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.

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.

Energy Saving

“eco” Operation indicator lamp

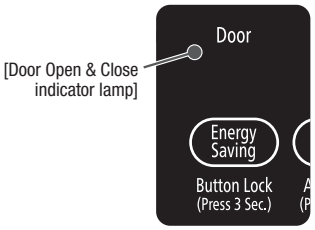


eco is automatically turned on and inform the energy saving operation when the operation is comparatively stable.
Open or close a door less frequently and quickly. Use this indicator wisely to save energy efficiently.

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” or “Veg” is set.
- The ambient temperature of the refrigerator is about 35˚C or higher.

Door Open & Close indicator lamp



When a door is opened or closed frequently, Door is automatically lit.
Open or close a door less frequently and quickly. Use this indicator wisely to save energy efficiently.

Notice

- Door is turned off automatically after about 5 minutes.
- eco remains unlit when Door is lit.

Setting “Energy Saving” mode

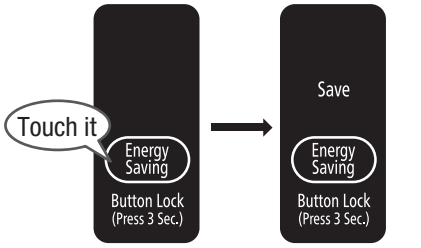
Setting the “Energy Saving” mode reduces the ability to cool each compartment for energy savings.
Likewise, when the door of the Vegetable Compartment is left open for 30 seconds or more, the LED light in the compartment has reduced brightness for energy savings.
If a door is not opened or closed for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

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 Energy Saving button to turn on the “Save” indicator lamp.**

The Energy Saving mode is set to “Off” (lamp off) at the time of purchase.



(At the time of purchase) (At the time of setting)

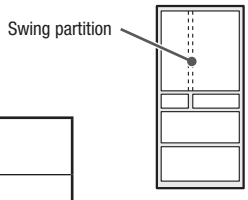
Cancel **Touch MENU button on the Control Panel to turn on the indicator lamp, and touch Energy Saving button to turn off “Save” indicator lamp.**

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.**
- The “Save” indicator lamp is turned on during the “Energy Saving” mode.
- When “Quick” is set in the Energy Saving mode, the Energy Saving mode is temporarily cancelled, and restored after the completion of the quick operation.
- When both “Save” and “Veg” modes are set concurrently, the cooling function will be weakened from the “Veg”. → Pg.32
- When the temperature of the “Freezer Compartment” and/or “Refrigerator 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 door of the Lower Freezer 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 **Press down Powerful 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 door of the Lower Freezer Compartment.**

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.

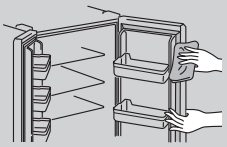


To prevent fire or electric shock. → Pg.4

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.

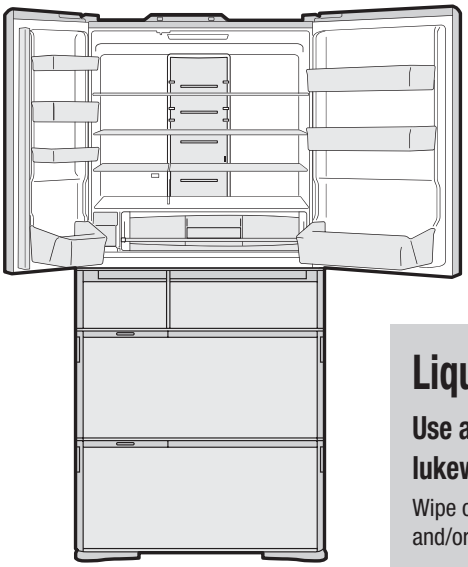
Surface of door

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.

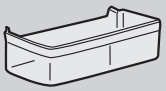




Each shelf/pocket

Once per three months

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



For how to remove → Pg.42

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.

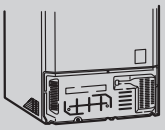


Liquid receivers

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.

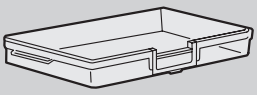


- The back of the refrigerator easily becomes dirty because fine dust is accumulated on it by convection of air.Lay the protection board etc. on the floor which can be easily scratched.
- If you care about vibrating sound, or about discoloration or dirt caused by humidity on a wall behind, install the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



When the lower case of the Vegetable Compartment is washed with water, turn it upside down to drain water, and then wipe off water with a dry cloth. Don't use thick-pile toothbrush or scrubbing brush to wash. It may cause damage to case or moisture unit.

For how to remove → Pg.43

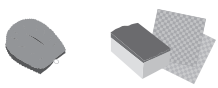
※ Do not wash the platinum catalyst with water.

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.

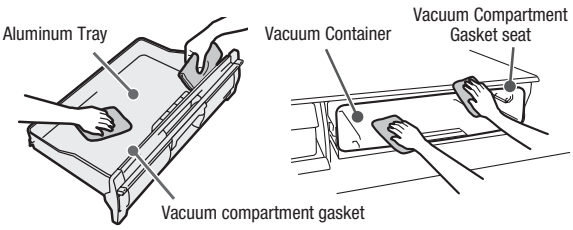
Vacuum Compartment Once a month

1 Pull out the Vacuum Case.

For how to remove, → Pg.42
Be sure to remove foods contained in the Vacuum Case.

2 Wipe off following parts with a soft cloth which is steeped in lukewarm water.

※ Do not use the detergents, etc.



Request

- Wipe the ceiling of the compartment (platinum catalyst and LED light) gently. Failing to do so may cause damage.
- If detergents and others except lukewarm water are used to clean the vacuum compartment gasket, the vacuum compartment gasket may be damaged, deformed or change in color, which may cause the vacuum state unable to keep well.

3 Attach the Vacuum Case.

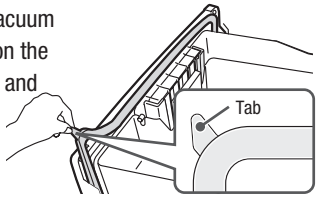
For how to attach, → Pg.42

Loosened vacuum compartment gasket or loose-fitting door of the Vacuum Case may cause the vacuum state unable to keep well.

When the Vacuum Compartment Gasket is dirt

1 Remove the vacuum compartment gasket from the Vacuum Case.

Grasp the tab of the vacuum compartment gasket on the observer's upper right and remove it by hand carefully.



2 Rinse dirty portion in water using a soft sponge, etc.

※ Do not use the detergents, etc.

3 Wipe off excess moisture with a dry cloth and dry it out naturally.

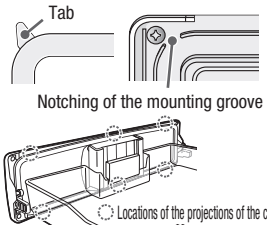
4 Wipe off dirt in the vacuum compartment gasket mounting groove.



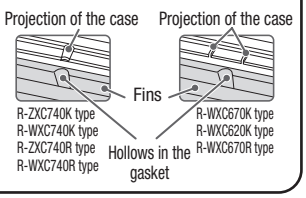
5 Attach the vacuum compartment gasket.

Align the vacuum compartment gasket tab with the notch of the mounting groove.

R-ZXC740K type
R-WXC740K type
R-ZXC740R type
R-WXC740R type
Align the indentations of the gasket with the projection (6 locations) of the case and attach firmly.



R-WXC670K type
R-WXC620K type
R-WXC670R type
Align the hollows of the gasket between the projections (6 locations) of the case and attach firmly.



Auto Drawer

Clean the auto door unit when food falls onto or is caught in the upper part of the auto door unit and when liquid is deposited on the auto door unit.

1 Unplug the power plug.

2 Remove each case of the Lower Freezer or the Vegetable Compartment. → Pg.43

3 Remove all foods which drop or are caught in.

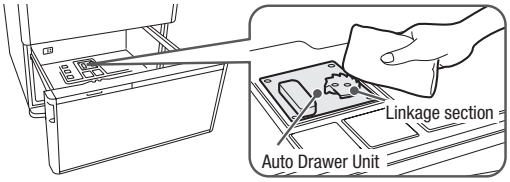
4 Wipe off deposited liquid using a soft and dry cloth.

Caution

- Make sure that water never splash to the Auto Drawer unit. Otherwise, it may cause malfunction.
- Do not disassemble the Auto Drawer unit. Otherwise, it may cause injury and/or malfunction.
- Exercise caution not to move the linkage section. Failing to do so may cause a failure.

⚠ Warning

- Make sure to disconnect the power plug from the power outlet before starting maintenance to avoid injury.



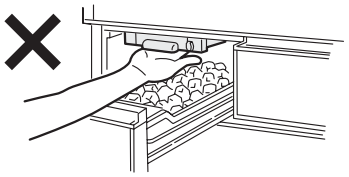
MAINTENANCE (CONTINUED)

Ice Maker Cleaning

When using for the first time **When not used for more than one week**

⚠ Warning

● Do not place your hand in the mechanical section of the automatic ice maker.
(Rotation of the ice tray may cause injury.)



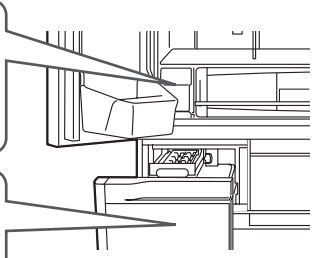
Wash the Ice Tray or water paths with water.

Preparation

Be sure to check the followings before starting the operation.

Water supply container
- Water is filled in it up to the limit line.
- It is set correctly beyond the tank set position line.

Ice case
- If there remains ice, remove it.



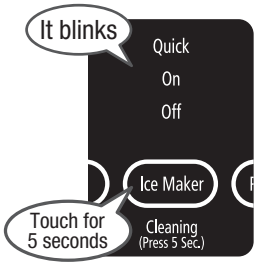
Go to the next step after checking them.

1 **Close all the doors.**

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 **Hold down Ice Maker button for 5 seconds or more until the alarm sounds.**

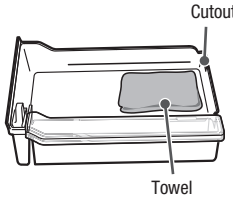


When the 3 indicator lamps “Quick” , “On” and “Off” start to blink and alarm starts to sound, stop holding the button.
“Ice Maker Cleaning” starts (for about 4 minutes).
- The indicator lamp will flash and the buzzer will sound for about 4 minutes.
- “Ice Maker Cleaning” can’t be interrupted.
- If you open any of the refrigerator doors during Ice Maker Cleaning, the cleaning may not work properly. Do not open or close the door until cleaning is completed.
- Door alarm sounds even if alarm is disabled. → Pg.35

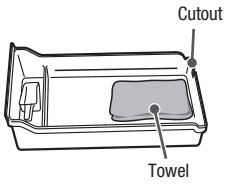
4 **Place a clean towel, etc. on the bottom in the Ice Case so that the cutout of the Ice Case can be blocked after the alarm and blinking of the indicator lamp end.**

Place a water-absorbing towel on the bottom in the Ice Case to prevent trapped water during the ice maker cleaning from spilling out of the cutout of the Ice Case.

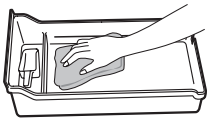
R-ZXC740K type, R-WXC740K type, R-ZXC740R type, R-WXC740R type



R-WXC670K type, R-WXC620K type, R-WXC670R type



5 **Wipe off water inside the Ice Case completely, and then set it to the Ice Compartment.**

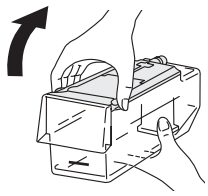


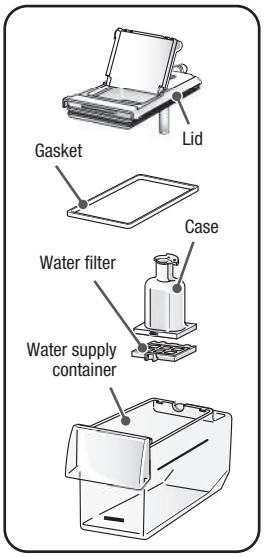
Remove the towel with which you have wiped off water.
There is no problem with using water remaining in the water supply container, if any.
After “Ice Maker Cleaning” , it is set to “On” mode, etc.

Water supply container — Once a week

1 Remove the water supply container, and then the lid.

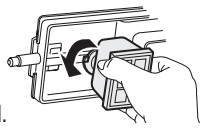
Take up the near side of the lid toward in the direction of the arrow, and then remove it.





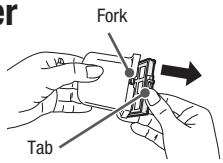
2 Remove the gasket from the lid and then the case.

Turn the case and remove it from the lid.



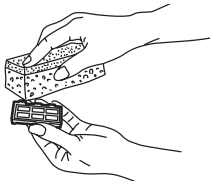
3 Remove the water filter from the case.

Pinch the tab of the water filter with fingers to unset it from the fork, and then remove the case.



4 Rinse each part of the water supply container in water.

Wash it with a soft wash sponge etc.
Do not use the detergents etc.

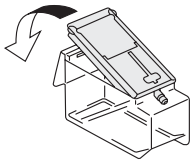


Notice

- Replace the water filter normally every 3 - 4 years. → Pg.52

5 Attach each part to the water supply container, pour water in and then set it.

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



Notice

If you intend not to use the Automatic Ice Maker for an extended period of time, care the water supply tank, dry it adequately, and replace it in a predetermined position (dry out the water filter, among others).

Ice tray — Once or twice a year

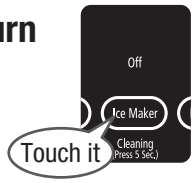
1 Touch MENU button on the Control Panel to turn on the indicator lamp.

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

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

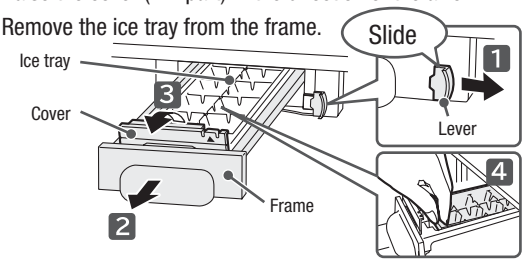
It stops water supply to the ice tray.

※ When "Off" indicator lamp blinks, wait for about 1 minute for it to turn on, and then follow the next steps.
Note that the frame cannot be pulled out.



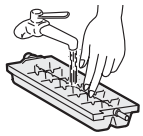
3 Open the door of the Ice Compartment, and take out the ice tray.

1 Push the level laterally. 2 draw the frame.
3 Raise the cover (▲ part) in the direction of the arrow.
4 Remove the ice tray from the frame.



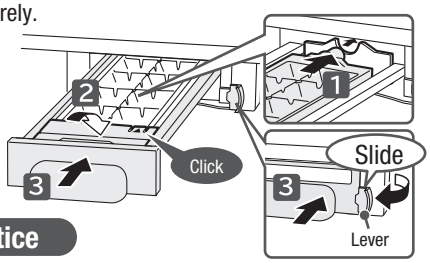
4 Empty the ice tray and wash it lightly in the stream.

Do not use a sponge / cleanser, etc.
Be sure not to scarify.



5 Open the Ice Compartment, and then attach the ice tray.

1 Set the ice tray
2 Hold down the cover to the end until it snaps.
3 Push the frame into the rear until the lever slides right.
4 Move the frame back and forth to check that it is fixed securely.



Notice

- If the ice tray frame cannot be pushed into the rear, the motor that drives the ice-tray may have operated since ice-making is not set to "Off" . Remove the ice tray and then push the frame alone into the rear, close the Ice Compartment door, touch Ice Maker button to enable "Off" . After about one minute, the ice-tray driving motor gets ready, allowing you to mount the ice-tray.

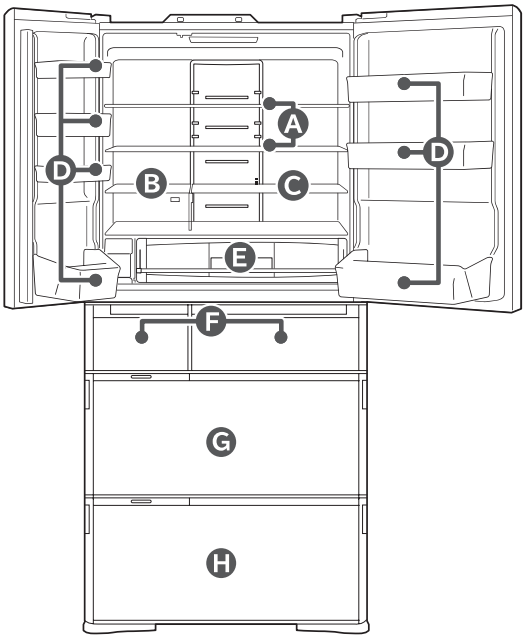
6 Touch MENU button on the Control Panel to turn on the indicator lamp, and then touch Ice Maker button to turn on the "On" indicator lamp.

Automatic Ice Making starts.

HOW TO REMOVE/ATTACH PARTS

Caution

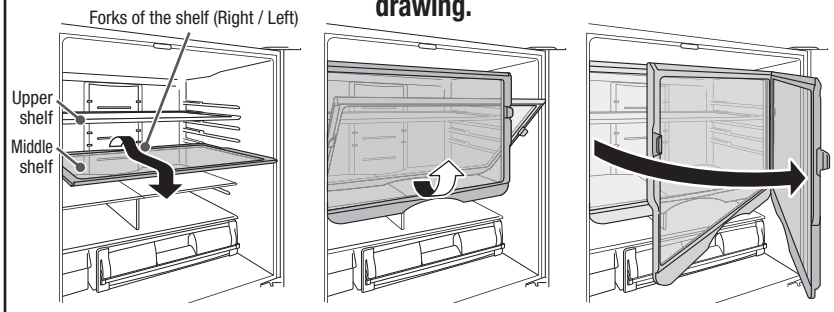
- Before removing parts, take out all the foods on the parts.
- Do not remove parts except the ones listed here.
  Please contact with a Hitachi customer service centre for cleaning such parts after removing them.
- Do not remove the platinum catalysts in the Vacuum and Vegetable Compartments. Do not wash them with water.



A Height adjustable upper and middle shelf

Request Before removing the upper shelf, remove the middle shelf.

1 Slightly lift up the back of the shelf and draw it. **2 Raise the shelf, as shown in the drawing.** **3 Rotate and remove it.**

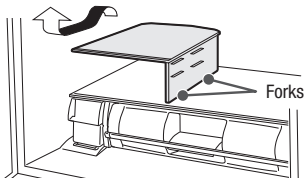


When installing the shelf, slide it until it reaches to the interior wall, then slightly lift up the back of the shelf and push it in.
(hitch the forks of the shelf to the parts on the back of the shelf)

Notice Be careful to attach/remove the glass shelf because it is heavy.
If it drops, it may break and cause bruise or injury.

B Fixed shelf

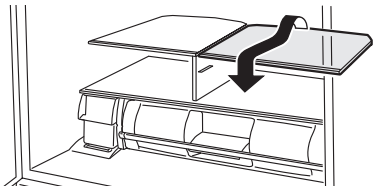
Draw the shelf, and pull off the 2 pins on the lower right and remove it.



Notice The shape of the shelves varies by model.

C Height adjustable lower shelf

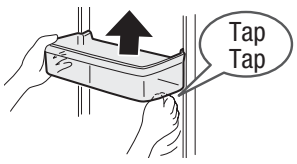
Slightly lift up and pull out.



Notice The shape of the shelves varies by model.

D Door pocket

Lift up the door pocket while tapping the left/right of its bottom surface, and remove it.
(It is fixed a little tightly.)

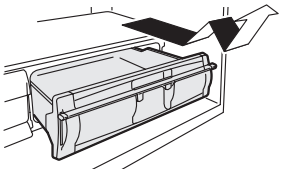


Caution Insert the door pocket fully to the end when installing it.
If it drops, it may break and cause bruise or injury.

E Vacuum Case

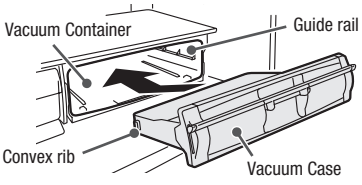
How to remove

Pull out the Vacuum Case by slightly lifting up and moving up and down.



How to attach

Insert the Vacuum Case so that both right and left convex ribs on the case can slide under the guide rail of the Vacuum Container.
Lastly, hold down the handle to lock.



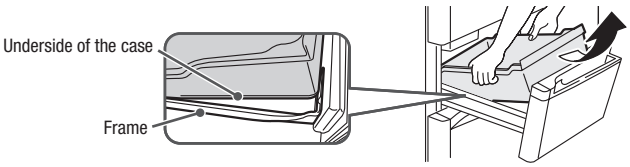
Request Check that it is fixed properly by taking it in and out a few times.

F Ice Case (Ice Compartment) • Upper Freezer case (Upper Freezer)

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

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

- Before taking out the Ice Case of R-ZXC740K type, R-WXC740K type, R-ZXC740R type, R-WXC740R type close the lid of the Small Article Case by pulling it to the front.

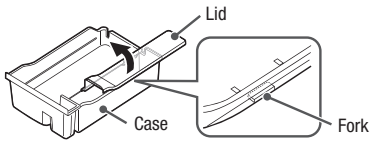


[Only for R-ZXC740K type, R-WXC740K type, R-ZXC740R type, R-WXC740R type]

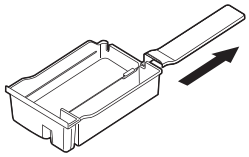
Remove the lid of the Small Article Case as follows:

(Mount it in the reverse order of removal)

1 Slide the lid halfway and deflect the side of the Ice Case to remove the fork.



2 Slide the lid toward the rear and pull it out.

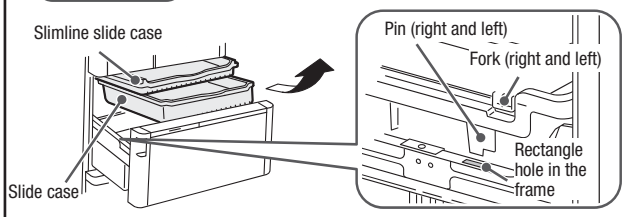


G Slide case and lower freezer case (Lower Freezer)

1 Draw the door fully, and draw the Slide case respectively.

Caution

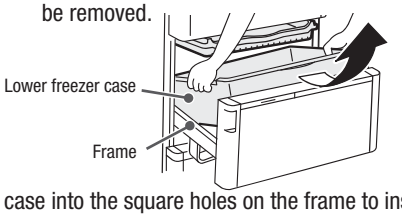
- Do not remove the Slimline slide case.



2 Lift up the Lower freezer case.

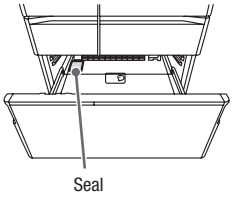
Caution

- The partition of the Lower Freezer can't be removed.



Caution

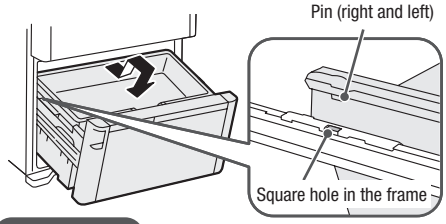
- Do not peel off the adhesive seal.



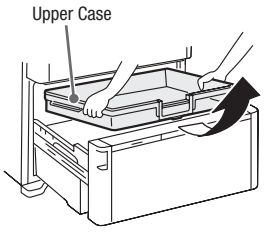
When installing it, insert the pins on the left/right of the Lower freezer case into the square holes on the frame to install it.
Moreover, hitch the fork on the left/right of the Slide case to the outside of the Lower freezer case.

H Upper Case, Lower Case (Vegetable Compartment)

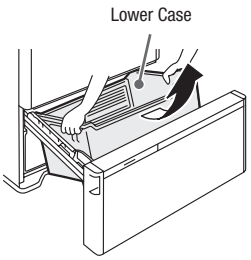
1 Draw the door fully and pull up both hands further to pull it out slowly and to place it on the floor.



2 Lift up the Upper Case.



3 Lift up the Lower Case.



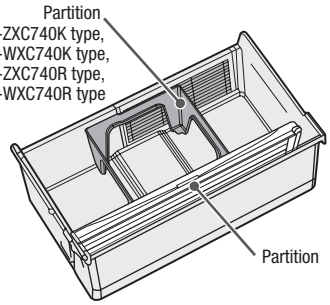
Caution

- When opening the door, do not place your foot near the door. Doing so may get your foot caught between the door and the floor.
- Be careful. Water may drip from the backside of the lower case.

Wrong setting may cause abnormal noise or half-closed door when opening or closing the door.

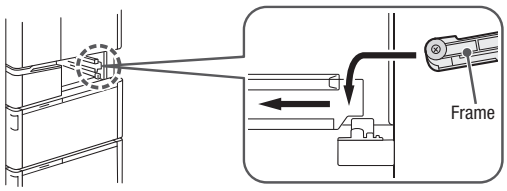
Request

- **The partition cannot be removed.**
- **Improper installation of the Upper Case may damage parts, including cases.**
  Once the Upper Case is installed, slide it in the front-rear direction to confirm that it is mounted properly.

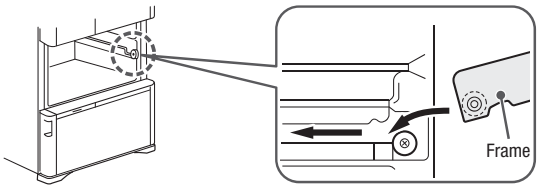


How to attach the slide door (Ice Compartment/Upper Freezer/Lower Freezer/Vegetable Compartment)

Ice Compartment/Upper Freezer



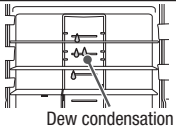
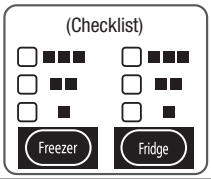
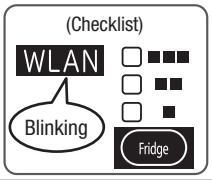
Lower Freezer/Vegetable Compartment



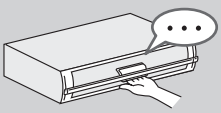
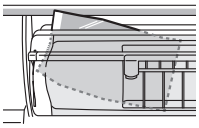
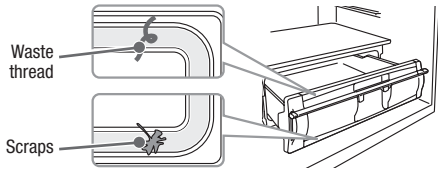
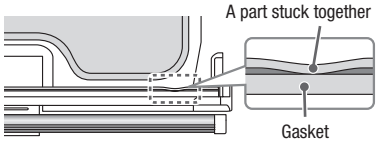
TROUBLESHOOTING

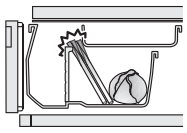
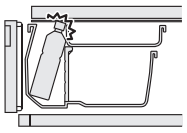
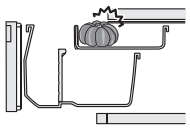
Check the following points before asking repair. Contact your dealer or our customer center if the problem still exists after checking them.

	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.34
		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.
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.28, 29
		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.28, 29
		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.28
		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.28
		Do you push the frame into the rear until the lever slides right?	Push the frame into the rear until the lever slides right. → Pg.41
		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.29
		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.37
	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.28
	Connected ice is made.	Do you push the frame into the rear until the lever slides right?	Push the frame into the rear until the lever slides right. → Pg.41
		Isn't the Ice Tray damaged?	A damaged Ice Tray precludes the removal of ice cubes from the Ice Tray, resulting in broken ice cubes or ice cubes sticking to each other. Contact your distributor for the replacement of the Ice Tray.
		———	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.
	Ice tray frame cannot be drawn.	Is "Off" set?	The ice tray cannot be drawn when the auto ice maker is operating. Set it to "Off". When the "Off" indicator lamp is blinking, wait for 1 minute until "Off" is lit, and then draw the ice tray. → Pg.41
	When you do not make ice	———	Set "Off". See "Stop Ice Making". → Pg.29

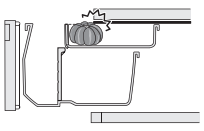
	When this happens	Check Item	Action and Reasons
Refrigerator does not cool	**Is not cooled down. Ice cream is soft.**	Does any food or package caught in the door prevent the door from closing completely?	Remove caught food, if any, and close the door securely. Pay attention to the height of food when 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.43
		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.37
		Isn't the temperature set to " ■ "?	If a compartment is not be cooled enough, change the temperature setting. →Pg.24, 31
		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. → Refer to the below
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.37
		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.  Dew condensation
Lamp at Display Section is blinking	**3 or more of the temperature adjustment lamps of freezing/ refrigerating are blinking.**	Check the ON/OFF of 6 lamps of the freezing " ■■■ / ■■ / ■ " 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. 
	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. 
	When the On indicator blinks, or the "■■■" and "■" Freezer indicators and the "■" Fridge indicator blink	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.40
	−1℃ blinking	Have you just had your service engineer member inspect your refrigerator?	It may be in the operation check mode for service engineer. It will return to the normal mode after about 15 minutes. There is no problem with using the refrigerator.
	Auto Door blinking	Have you just had your service engineer member inspect your refrigerator?	It may be in the operation check mode for service engineer. It will return to the normal mode after about 10 minutes. There is no problem with using the refrigerator.
	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.
	" Off " Ice Maker indicator blinking	Haven't you just set "Off"?	The Automatic Ice Maker is working. Blinking stops in about one minute. The frame of the Freezer cannot be removed during blinking.
	All displays blinking	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.
	" WLAN " and " " are blinking	———	The unit software update process is in progress. When the unit software update process completes, blinking also stops. → Pg.19
	" WLAN " blinking	———	Wireless connection cannot be established because communication is in preparation. Wait for a while until it lights.
	Blinks other than those above	———	Consult your dealer.
	The indication on the Control Panel is changing quickly.	———	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 door of the Lower Freezer. Touch MENU on the Control Panel to turn on the indicator lamp. Press and hold the Freezer 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 door of the Lower Freezer.

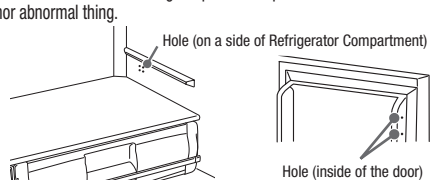
TROUBLESHOOTING (CONTINUED)

	When this happens	Check Item	Action and Reasons
Refrigerator cools overly	**Refrigerator cools overly. Food freeze.**	" ■■■ " is selected in the temperature setting.	Switch it to " ■■ ". →Pg.24, 31
		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.
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 "Sensor Cool"/"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)	This sound is heard when the parts squeaks due to changes in temperature in the refrigerator or atmospheric pressure in the Vacuum Compartment. This is not malfunction.
		Sound like something is caught (clacking) Sound like roaring (honking) Sound caused immediately after closing the door (booming)	These sounds are caused when the electric parts to control the refrigerator temperature operates. 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.29
		Sound occurs sometimes (clacking)	This sound is caused when the refrigerator starts the operation to cool.
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.
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.
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 "-1˚C (Subzero)" or "+1˚C (Chiller)". → Pg.27
		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?	Install the Vacuum Compartment Gasket. → Pg.39
		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.39
		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.42 If the gasket is dirty, clean it. → Pg.39 If it is damaged or deformed, replace it. → Pg.52
		Was the door of the Vacuum Compartment or the Refrigerator Compartment opened / closed just before?	It takes about three to four minutes for the Vacuum Case to be vacuumed after the vacuum pump starts to operate. Wait for more than four minutes after opening or closing.

	When this happens	Check Item	Action and Reasons
There is something strange with the Vacuum Compartment	**It is not clear whether the Vacuum Compartment has been vacuumized.**	Do you hear a sound when opening the Vacuum Compartment?	The Vacuum Compartment has been vacuumized properly if a vacuum releasing sound (hissing sound) is heard when opening it.
	The handle cannot be locked.	Is there any food etc. caught in the inner part of the Vacuum Compartment Case or the vacuum compartment gasket?	Remove any food if it is caught in.
		Is the Vacuum Case set in place?	Mount the Vacuum Case as shown in "How to attach the Vacuum Case". → Pg.42
	Booming sound and vibration occur around the Vacuum Compartment.	———	This sound is caused when the vacuum pump operates. You can stop the vacuum pump operation when you want to stop the sound (ex: night time). Change the setting of the Vacuum Compartment to "Off (Vacuum off)" (Non-vacuum). → Pg.27
		Isn't something caught in the Vacuum Case or the gasket of the Vacuum Compartment dirty? Do you push down the handle until it stops to lock it?	A sound may be heard or vibration may be felt more frequently. Remove any packaging material of foods or other things which are caught in. Clean the vacuum compartment gasket if it is dirty. → Pg.39 Push down the handle until it stops to lock it.
	Dew, frost or ice is formed inside the Vacuum Compartment or around the Vacuum Case.	Don't you place food containing a lot of water? Dew and/or frost 	The moisture from the juicy food may cause dew condensation and/ or frost adhering insider the compartment because the Vacuum Compartment is sealed. It is recommended to wrap the juicy food with plastic film, etc. Wipe dew and /or frost off with a soft cloth wet by lukewarm water.
	Food in the Vacuum Compartment freezes.	Is the Vacuum Compartment set to "-1˚C (Subzero)" or "Off (Vacuum off)" (Non-vacuum)?	Set the "+1˚C (Chiller)". → Pg.27
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.41
		———	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.
Vegetable Compartment	**Dew condensation occurs in the Vegetable Compartment.**	Don't you place a large amount of vegetable containing much water?	As the Vegetable Compartment is more humid than the other compartments, dew may be condensed in the case or ceiling of the Vegetable Compartment 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.
		Isn't the Moisture Unit blocked with food bags or containers?	A blocked Moisture Unit is likely to cause dew condensation. Move the food bags or containers that block the Moisture Unit to other portions. Wipe off the dew condensation with a soft cloth.
	The Vegetable Compartment door doesn't close / When the Vegetable Compartment door is opened, the upper case doesn't go back to the locking position.	Is any food, etc. caught between the upper case and the lower case? 	Remove it if any.
		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 food caught between the Upper Case and Moisture Cover? 	Remove it, if any. Do not close the door with force while the food is in contact with the Moisture Cover.

TROUBLESHOOTING (CONTINUED)

	When this happens	Check Item	Action and Reasons
Auto Refrigerator Door	**Noise is loud. There is an abnormal noise.**	Hitting sound (thumping sound)	This is the operating sound of the Auto Refrigerator Door. This is not malfunction.
		Buzzing sound (whir)	This is the operating sound of the Auto Refrigerator Door. This is not malfunction.
		Operation sound in the Vegetable Compartment is heard louder than it at the Lower Freezer.	Operation sound in the Vegetable Compartment is heard louder than it at the Lower Freezer. And it varies depending on the quantity of the stored food. This is not malfunction.
	Auto Door won't open even if touching the Open Button.	Is the Auto Door light not lit? Turn on the light.	Turn on the Auto Door indicator lamp. →Pg.22
		Isn't the Ice Compartment or the Upper Freezer opened?	Close the slide door and then touch the Control Panel of the Auto Door.
	The Auto Refrigerator Door does not close.	Is any food or food bag caught on the compartment?	Remove foods and others that are caught in.
		Did a power failure occur or did the compartment knock against any obstacle during electrical operation?	Auto Refrigerator Door stops on the way, so push in the door with hand.
	Auto Refrigerator Door does not open widely.	Don't stored beverages or foods make contact with the wall in the Refrigerator Compartment?	Remove beverages or foods that make contact with the wall.
		Is the installation site level?	Opening angle of the Auto Refrigerator Door may vary or the door may go back a little after it is opened automatically depending on installation conditions of the refrigerator, but this is not malfunction.
	Auto Refrigerator Door moves even if it is locked on the Control Panel.	———	Auto Refrigerator Door can not be locked from the Control Panel. In order to stop Auto Refrigerator Door, unlock the Control Panel first, and then touch Freezer button for 3 seconds or more until it beeps twice. →Pg.22, 34
Auto Drawer	**Noise is loud. There is an abnormal noise.**	Hitting sound (thumping sound)	This is the operating sound of the Auto Drawer. This is not malfunction.
		Buzzing sound (whirring, grunt)	This is the operating sound of the Auto Drawer. This is not malfunction.
		Operation sound of the Vegetable Compartment is louder than that of the Lower Freezer.	Operation sound of the "vegetable compartment" is louder than the "lower freezer". The operation sound depends on the amount of food stored. This is not malfunction.
	The compartment does not open even if the electrical drawer switch is pressed.	Is the Auto Door light not lit? Turn on the light.	Turn on the Auto Door indicator lamp. →Pg.22
		Is either one of the lower freezer or the vegetable compartment open?	Close the open electrical drawer compartment and then press drawer switch for the compartment you want to open.
	The Auto Drawer does not open/close.	Is any food, food bag or plastic wrap, etc. caught on the compartment?	Remove foods and others that are caught in.
		Did a power failure occur or did the compartment knock against any obstacle during electrical operation?	The door does not open/close smoothly because the electrical drawer function is stopped before the operation completes. Manually push in the door with strength. Otherwise, unplug the power plug with the door drawn, and connect it after 10 seconds.
		Isn't the food caught between the Upper Case and the Moisture Cover? 	Remove it, if any. Do not close the door with force while the food is in contact with the Moisture Cover.
	The Auto Drawer does not open much.	———	The Auto Drawer is pulled out by approx. 15 cm or more. The length may vary depending on installation conditions of the refrigerator, or the Auto Drawer may go back a little after the door is opened automatically. This is not malfunction.
	Auto Drawer moves even if it is locked on the panel for operation.	———	Auto Door can not be locked from the panel for operation. In order to stop Auto Door function, unlock it first on the panel for operation, and then touch Freezer button for 3 seconds or more until it bleeps. →Pg.22, 34

	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.
	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.
	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.  * 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.38-41 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.52
	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.

TROUBLESHOOTING (CONTINUED)

	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.51 “  ” 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).

	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

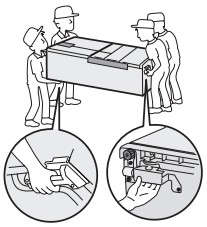
5 **Use a tape to secure the door/power cord.**

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.**



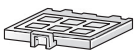
8 **Make sure to hold the handles when carrying it with 2 persons or more.**
Do not lay it down horizontally for transportation (which may cause failure of the refrigerator).



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	
Vacuum state can't be maintained ● It may be damaged, deformed or discolored.	Vacuum compartment gasket	R-ZXC740K type R-WXC740K type R-ZXC740R type R-WXC740R type	R-WX7400G 311	
		R-WXC670K type R-WXC670R type	R-XG6700G 311	
		R-WXC620K type	R-XG6200G 311	

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-ZXC740K Type R-WXC740K Type R-ZXC740R Type R-WXC740R Type	R-WXC670K Type R-WXC670R Type	R-WXC620K Type
Refrigerator compartment	Height adjustable upper shelf	23.0kg	21.0kg	19.5kg
	Height adjustable middle shelf	23.0kg	21.0kg	19.5kg
	Height adjustable lower shelf, Fixed shelf	23.0kg	21.0kg	18.5kg
	Upper shelf of the vacuum compartment	12.0kg	11.0kg	10.0kg
	Vacuum compartment case	5.5kg	5.0kg	4.5kg
	Total for the right door pockets	26.0kg	26.0kg	20.0kg
	Total for the left door pockets	14.5kg	11.0kg	11.0kg
Ice compartment	Ice case → Pg.29			
	Small Article Case	1.0kg	—	—
Upper freezer	Upper Freezer case	9.0kg	9.0kg	8.0kg
Lower freezer	Slimline slide case	6.0kg	5.5kg	5.3kg
	Slide case	8.0kg	7.0kg	6.5kg
	Lower freezer case	19.0kg	17.0kg	15.5kg
Vegetable compartment	Upper Case	8.5kg	7.5kg	7.0kg
	Lower Case	24.0kg	22.0kg	18.0kg

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.

MEMO

MEMO

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
  Arcelik Hitachi Home Appliances Sales Hong Kong Limited
  18/F., Ever Gain Centre, 28 On Muk Street, Shatin,
  N.T., Hong Kong, China
  Tel : +852-2753-5386
  Fax : +852-2753-0993

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

R-ZXC740K Type Ⓒ
R-WXC740K Type
R-WXC670K Type
R-WXC620K Type
R-ZXC740R Type
R-WXC740R Type
R-WXC670R Type