

Instruction Manual

HITACHI Refrigerator

For household use only

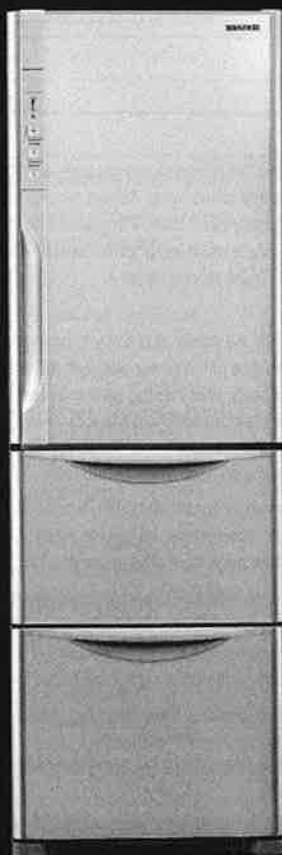
HITACHI

Inspire the Next

Model

R-SG31BPTH

R-SG37BPTH



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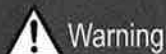
Thank you very much for purchasing of HITACHI product.

Before using the refrigerator, please read the instruction manual carefully for the correct usage.

Maintenance work must only be carried out at workshop by well-trained maintenance worker.

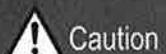
Warning and Caution for Safety

The following warnings and cautions are categorized by the level of possible harm or damage that may occur from ignoring directions.



Warning

This pictograph indicates "There is a high possibility of serious injury or death, if ignored".



Caution

This pictograph indicates "There is a high possibility of injury or damage to property, if ignored".

The symbols are shown as below clearly showing the significance of directions.

The symbols below are examples.



This symbol is an alert mark.



This symbol indicates "prohibited".



This symbol indicates "necessary".

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



R600a

This symbol denotes the precautions on flammable refrigerants.

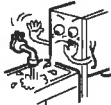


Warning

When you install ... To avoid fire, electric shock, and injury .



- Do not install the refrigerator in a place where it may come in contact with water.
- Do not install the refrigerator in a place exposed to rain.
- This may impair electricity insulation and cause electric shock or fire.



- Ground this refrigerator to prevent electric shock and noise interference. Always ground this refrigerator when using it in places with high humidity or moisture. (Please consult with a retailer or HITACHI service center.)



Power Cord and Power Plug ...To avoid fire, electric shock .



- Do not connect the wall outlet whose power capacity is less than the refrigerator's. Also, do not use power sources that are not a rated voltage.
- If a power source is shared with other appliances using double or multipoint adapters, the adapter may heat up beyond the normal level and cause fire.



- Do not use a damaged or loose power plug or power outlet. This may cause fire or electric shock.



- Do not cut, bend, fold the power cord to avoid fire and electric shock.



- Do not insert or remove the power plug with wet hands.



- 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.



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



- Clean the dust on the power plug frequently with dry cloth.
- Unplug the power plug and wipe it with dry cloth.
- An insulation failure due to moisture or when dust collects on the power plug may cause fire.



- Be sure to unplug the power plug before maintaining the refrigerator.
- Be sure to hold the power plug to unplug.



During daily use ...To avoid fire, electric shock .



- Do not splash water on or inside the refrigerator.
- This may impair electricity insulation causing electric shock or fire.
- This may also cause gas leakage because of pipe rust.



- 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.



- Do not disassemble, repair, or modify the refrigerator by yourselves.
- Please consult with a retailer or HITACHI service centre if any repair is required.



- Ether, liquid propane gas, solvent, etc. which volatile cannot be stored in this refrigerator.
- Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.



- Do not hang on the doors or step up on the various compartments.
- Injury may be caused by the refrigerator tipping over or hands getting caught in door.



- Do not put water containers or foreign articles on the top of the refrigerator.
- Opening and closing doors etc. may cause the articles on the top of the refrigerator may fall down, resulting in injury.



- 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.
- And, open windows to ventilate and contact retailers or HITACHI service center.

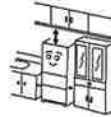


- Medicines, chemicals, research and experimental substances should not be stored in the refrigerator.
- Substances that require precise conditions for storage cannot be stored in a domestic refrigerator.



Warning and Caution for Safety (Continued)

Warning

-  Do not use electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer. 
 -  In an event of a flammable gas leak, do not touch the refrigerator and open windows for ventilation.
 - Sparks from points of electrical contacts such as door switches may ignite explosions causing fire or a burn. 
 -  Do not make an impact on the glass-made doors or shelves.
 - They are made of tempered glass, however, an excess impact may result in breakage and is dangerous. 
 -  Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer. 
 -  Children should be supervised to ensure that they do not play with the appliance.
 - Children getting inside may not be able to get out. 
 -  Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction. 
 -  If find something wrong with the refrigerator, immediately unplug and consult with the retailers or HITACHI service centre. 
- When discarding the refrigerator.**
-  Follow the instructions of your region when discarding.
 - This refrigerator uses R-600a for the refrigerant and cyclopentane for the blowing agent of the urethane heat insulation. 
 -  When discarding the refrigerator, remove the door gaskets.
 - To avoid a risk of an infant or child to be entrapped inside. 

Caution

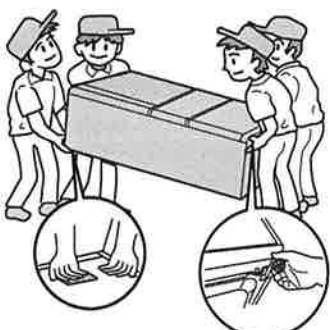
During daily use ...To avoid illness and injury.

-  Do not put bottles, etc. forcibly in the door pockets.
 - This may cause bottles dropping down or door pockets coming off. 
-  Do not store food which smells or food whose color is changed abnormal.
 - Such an action may cause diseases. 
-  Food and containers inside the freezer compartment should not be touched with wet hands.
 - This may cause frost injury. (Especially in case of metal items.) 
-  Do not hold the top, bottom and side of the doors when closing them.
 - This may result in your fingers caught by the door edge. 
-  If someone else is using the refrigerator, do not open the door.
 - Fingers may get caught in the spaces between the doors and may cause injury. 
-  Do not have food items protruding over the front edge of each shelf.
 - Doors may not be closed properly or the door pockets may drop down. Injury may be caused from items like bottles getting knocked over your feet. 
-  Do not store glass bottles in the freezer compartment.
 - Bottles may break by the contents freezing and cause injury. 
-  Do not put your hands into the base surface of the refrigerator cabinet.
 - When cleaning, putting your hands near the base surface of the refrigerator may result in injury by thin metal sheets. 
-  Be sure to hold the handle firmly to open or close the door. 
-  Do not have your feet too close when opening the door of the refrigerator.
 - When opening the door, your feet may be hit, resulting in injury. 

When moving or carrying ...To avoid damaging, wetting, soiling the floor, or to avoid injury.

-  Do not use door handles when carrying the refrigerator.
 - Never use the carrying handles to hang up with a chain hoist or similar machines. 
-  Use the carrying handle when carrying the refrigerator.
 - Hold the carrying handles only. If hold door handles, hands may slip and may cause injury.
 - Carry the refrigerator by at least 4 persons for safety reasons.
 - Carry it with the doors facing upward.
-  Before carrying the refrigerator:
 1. Take out all food items and ice cubes.
 2. Dispose water in the evaporating tray located in the bottom of the refrigerator.
 3. Place the protective mat or cloth on the floor on which you move.
 4. Finally carry the refrigerator with the doors facing upward.
 - Secure the doors well with adhesive tapes so they do not open.
 - If transporting in a vehicle, do not load the refrigerator on its side. This could damage the compressor.
-  On a floor that is easily scratched, do not move the refrigerator with the wheels of refrigerator.
 - The wheels may scratch the floor.
 - For a floor that may be easily scratched, lay a protective mat, etc. 

When replacing lamps (LED) is required.

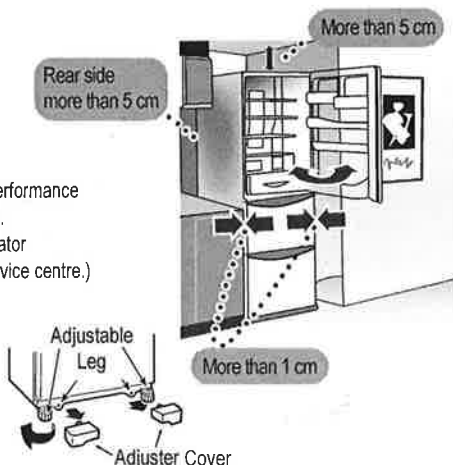
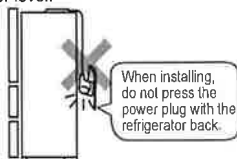
-  When replacing lamps (LED) is required. Please contact your dealer or Hitachi Service Center. 

Preparations before Use

Installation

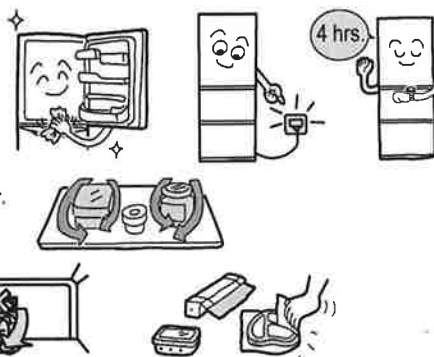
1. Install on a rigid and level floor.
2. Please use this refrigerator between the room temperature of 10 °C to 43 °C.
Sufficient performance may not be obtained, if the room temperature is too low or too high.
3. Do not install where the refrigerator is exposed on a direct sunlight or other heat sources.
4. Install in a atmosphere which is dry or has air ventilation.
5. The refrigerator requires enough air ventilation space around the cabinet to have efficient cooling performance space of at least 5 cm over the top and 5 cm at rear and 1 cm at both sides for proper air circulation.
6. Ground the refrigerator to prevent electric shock and noise interference. Always ground this refrigerator when using it in places with high humidity or moisture. (Please consult with retailers or HITACHI service centre.)
7. Adjusting the adjustable legs to keep the left/right refrigerator door level.
 - Without adjusting the legs, door height may not be level, or there may be abnormal vibration or noises depending on floor conditions. Follow the instructions below.

(1) Turn the adjustable legs until they touch the floor firmly.



Beginning

1. Cleaning inside the refrigerator. Wipe the surface gently with soft cloth.
2. Connect the refrigerator to an exclusive wall power outlet. The refrigerator can be connected to an outlet soon after it is installed. Surely use with the rated voltage and exclusive power outlet.
3. The compressor will start running in approximately 30 seconds, if inside is not cold.
4. Allow enough duration for sufficient cooling before storing food. It may take about 4 hours to fully cool down and could even take about 24 hours when the ambient temperature is high.

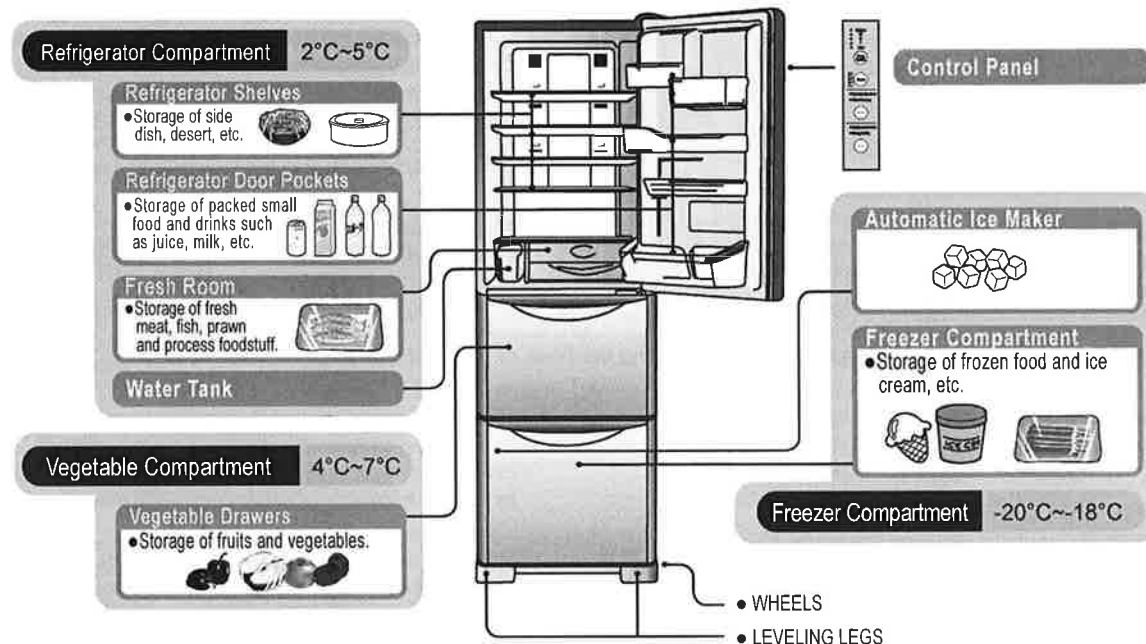


Food storage

1. Keep enough space between food. Several food placed to close together may obstruct the flow of cold air.
2. Make food cool enough before putting it in the refrigerator. Putting warm food in the refrigerator raises the inside temperature and wastes electricity.
3. Do not block the cold air vent. This will adversely affect the cold air flow and may not keep the temperature inside even. Moreover, it could result in food near the vent freezing.
4. Using food wrap or sealed containers prevent the food from drying or transition of smells.



Identification Parts



Notice

- Above temperatures are the approximate values in the conditions of outside temperature 32 °C, the temperature setting of the refrigerator compartment "Normal", freezer compartment "Normal", doors being closed and without food storage.
- Door pocket temperatures may be little higher than above temperatures.
- The specification of your purchased model may be different from one of the above illustration. (Above illustration is based on the R-SG37BPTH model.)

How to install and remove parts

3-way Flexible Shelf

- Lift inner part and pull towards the front.
- Put the shelf in the inner area, when you want to use please pull the upper part.



Fresh Room

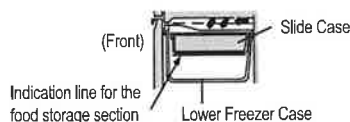
- Remove the "Fresh Room" as shown below. Do not store more than 3 kg in the "Fresh Room" or it may be broken.



Lower Freezer Case

Lower Freezer Case is for large-sized food and those that need to be stored over an extended time period.

- Make sure food is stored below in the indication line. Otherwise food touches the slide case above and it prevents the door to be closed properly and cooling efficiency suffers. Food and the slide case may be also damaged.



Door Pocket / Egg Pocket

Remove the door pocket as shown



Vegetable Compartment

Pull out the vegetable compartment door, and lift up slide case and vegetable case as shown.



Do not store more than 4.3 kg in the slide case or it may be broken.



Freezer Compartment

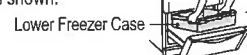
1. To remove slide case, lift it up as shown. Do not store more than 4.6 kg in upper freezer case or it may be broken.



2. Pull out the lower freezer compartment door, and pull up toward you.



3. To remove lower freezer case, lift it up as shown. Do not store more than 11 kg in the lower freezer case or it may be broken.



3-way Flexible Shelf

- Use as normal-conditioned shelf.
- When put high-shaped food please put on the front part.
- Raise the shelf a little bit and push inward.

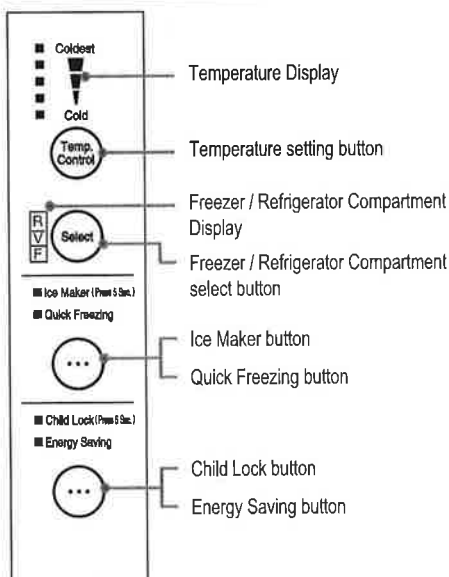


- When put high-shaped and very large food.
- After you press the furthest inside part, raise it in the front part of the shelf around 1 cm and put inner side.



※ Please do not put any material whose weight is 10 kg up on the "3-way Flexible Shelf" because it may mark the shelf distort its shape and break.

How to use control panel



Temperature Control

The display is indicating the status of the temperature setting.

1. Freezer compartment



Press "Select" button to select "F". "F" light is on.



Press "Temp." button to set the temperature.

2. Refrigerator compartment

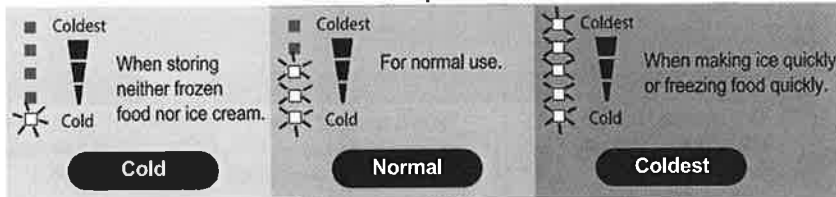


Press "Select" button to select "R/V". "R/V" light is on.

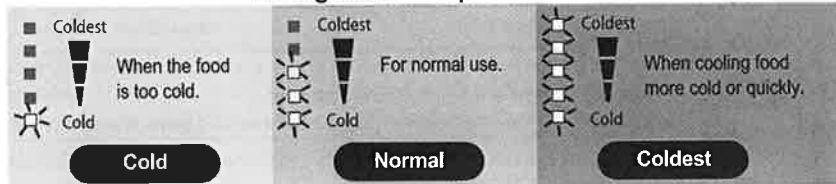


Press "Temp." button to set the temperature.

Freezer compartment



Refrigerator compartment



Notice

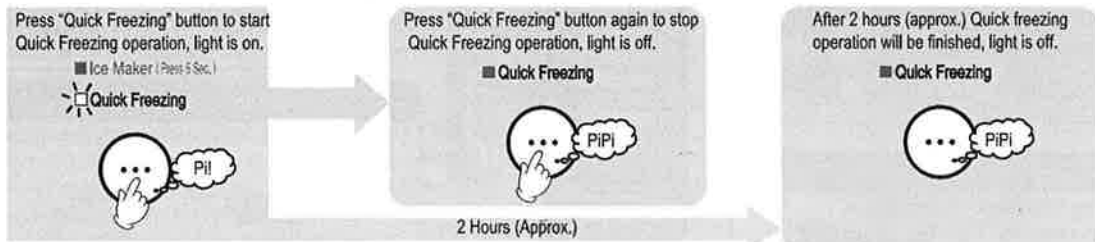
- If you unplug the power plug or a power failure occurs and then the refrigerator restarts, the temperature display and each setting will be automatically resumed. However, "Quick Freezing" operation is cancelled.
- All display will be on 5 seconds after the power plug is inserted.

Operation

Other Functions

1. Quick Freezing

- When you want to freeze food or make ice quickly, use this function.

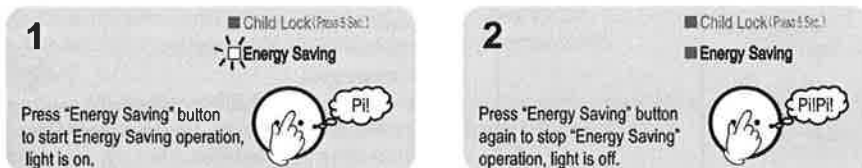


Notice

- During "Quick Freezing", priority cooling of the freezer compartment will be done. Thus, try to avoid unnecessary opening and closing of the doors to avoid a temperature rise of the refrigerator compartment.
- After "Quick Freezing" is automatically finished and if the button is pressed again, the lamp will turn on. However, the next "Quick Freezing" operation will not start. After 60 minutes, the operation will start.
- During defrost periods, even if "Quick Freezing" lamp is on, no operation will be made. After finishing the defrost operation, "Quick Freezing" will automatically start.

2. Energy Saving

- Recommend to use this function in case of low storage volume, or a long vacation when the doors are not opened for long time.



Notice

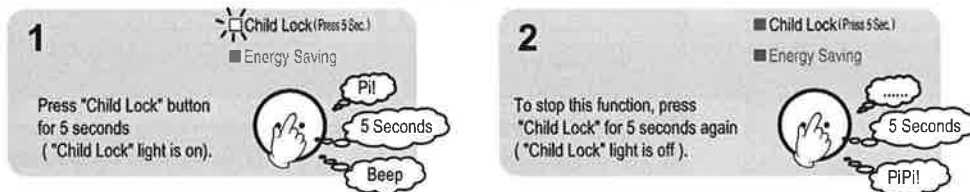
- In case the compartment temperature rises up, the operation will be back to a normal setting (temporary).
- After a long time operation of "Energy Saving", in some cases, fatty ice cream, etc, may become soft. Please stop "Energy Saving" operation in this case.

Caution

- If "Energy Saving" operation is working in high humidity environment, dew may appear. Please stop "Energy Saving" operation in this case.

3. Child Lock

- You can prevent mischief of all the buttons on the control panel caused by children.



4. Door Alarm Functions

If the door is left open for more than 1 minute, the alarm system will inform the user by the sound,

- Door Alarm: Informs by Pipipi sound.

Duration of Door Opening	Door Alarm Sound
After 1 minute	Pipipi
After 2 minute	Pipipipipi
After 3 minute	Beeps continuously.

To Deactivate Alarm and Sound

- Keep pressing "Select" button for 5 seconds until "Beep" sound is heard.

There is no sound when pressing any button (deactivate door alarm sound).



Notice

- Upon shipment, the alarm and sound are activated.
- Unplugging and inserting the power plug or in the event of a power failure the refrigerator will automatically reset the alarm and sound to activated.

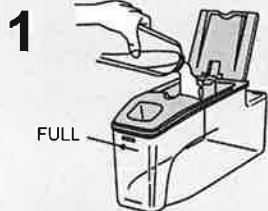
To re-activate Alarm and Sound

- Keep pressing "Select" button for 5 seconds until "Pipipi" sound is heard.

There is sound when pressing any button (activated door alarm sound).



How to use Automatic Ice Maker



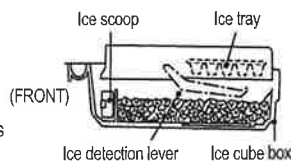
Filling the pure water until the "FULL" level then closed by cap.



Push the tank into the case until it locked at the setting line.

Notice

- For a first installed, allow 24 hours for the refrigerator to cool down and make ice.
- Ice maker will stop automatically when ice box is full and it will start again automatically when ice cubes in the ice box is reducing or empty.
- It is normal that a noise is generated when ice made or ice dropped into the ice box.



Caution

Using the ice maker for the first time :

- Throw away the first full ice box of Ice cubes. Odor or dust may adhere on it.
- If water tank was dropped, make sure that water is not leaking from the tank.
- Do not fill other liquid, any beverages such as juice, cola, beer etc, into the water tank.
- Do not fill hot water into the tank (Tank Heat-resistance temperature : 50 °C).
- Do not put anything, such as frozen food, ice cream other than ice in the ice box.
- Do not touch ice lever detector or ice tray with your hands, you may get injured.

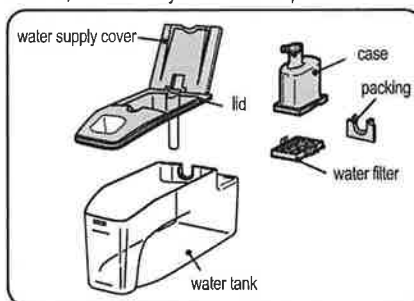


Cleaning the Water Tank

Notice

- Water Tank should be cleaned every week for reasons of hygiene.
- Using a clean sponge or soft cloth and a neutral detergent in warm water, hand wash, rinse and dry all removable parts and interior surfaces thoroughly

- As seen in the figure below, press the central front part of the lid to lift it up. (Do not open the lid by nails.)
- To close the lid, make sure that the grips at the back are still holding the lid, then close the lid down in the direction as shown below.



Turning on/off the Automatic Ice Maker Function

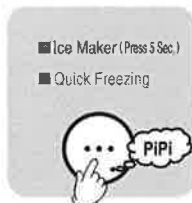
First, check the Automatic Ice Maker is in operation.

1. When in operation.



The lamp will turn on.

2. To stop the operation, press the "Ice Maker" button.



The lamp will turn off.

3. When restarting operation.



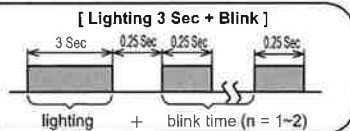
The lamp will turn on.

Notice

- If you do not intend to use the Automatic Ice Maker, turn it off.

Malfunction Display

- The Energy Saving display reports malfunctions.



Error Trouble Display	Possible cause	What to check
Light 3 sec. Blink once	The freezer compartment door might not be closed properly.	Remove the obstacles if any, and confirm that the freezer compartment door is closed properly. Then, wait for the inside of the freezer compartment to cool sufficiently.
Light 3 sec. Blink twice	The refrigerator compartment door might not be closed properly.	Remove the obstacles if any, and confirm that the refrigerator compartment door is closed properly. Then, wait for the inside of the refrigerator compartment to cool sufficiently.

Cleaning

□ Cleaning (Clean the refrigerator once a month)

1. Unplug the refrigerator.
2. Take out all the food.
3. Wipe the refrigerator clean.
 - Wiping off smudges immediately is highly recommended. It is also recommended to clean the areas of the refrigerator which is not clearly in view once a year.
 - Use soft cloth with lukewarm water to wipe off smudges. If it is difficult to remove smudges, use diluted, pH-balanced washing liquid.
 - Neatly clean the door gasket, because it gets dirty easily.
4. If any droplets remain on the surface of the parts, wipe them.
5. Return all parts to their original locations.
6. Check and clean the power plug, cord and outlet.
7. Plug the power cord into the outlet.

Notice • Even if the power plug is plugged in immediately after being unplugged, the compressor will not run for 10 minutes. However, if the inside is not cold, it will start running in approximately 30 seconds.

Caution

- Do not do the following, since parts and paint may be damaged.
1. Do not splash water to the doors and refrigerator body.
 - It may cause electric shock or a fire.
 - It may cause refrigerant leakage because of tube rust.
 - It may result in rusty door surface.



2. Do not use following : Polishing powder, soap powder, oil, boiling water, brush, acid, benzene, thinner, alcohol and alkaline detergent, etc.
 - It may cause damaged door surface.
 - It may cause cracked plastic parts.
3. If the cooking oil smears on the refrigerator, please wipe it off immediately. The plastic parts might be cracked.

Before calling for repair (before service call).

Before you call for service, please check the following items:

The refrigerator does not get cold at all.		• Is the refrigerator plugged in properly ? • Check the fuse box for blown fuse or tripped circuit breaker.
The refrigerator does not get cold enough.		• Is the refrigerator placed in the direct sunlight ? • Is the temperature setting to "Cold" ? • Is the food store too much ? • Is the door being slightly opened ? • Is the refrigerator placed near heat sources ? • Has anything hot been placed in the refrigerator ? • Is the door being opened and closed too frequently ?
Food in the refrigerator compartment freezes.		• Is the temperature setting to "Coldest" ? • Do you place food with moisture or vegetables nearby the cold air vent ? They will be frozen, if they are placed nearby the cold air vent.
Dew appears.	Outside	• When the ambient humidity is too high, the door gasket may have dew. Please wipe it up with dry cloth.
	Inside	• Please wipe it off with dry cloth and please check the details below. • Is the door closed firmly ? • Is the door being opened and closed too frequently or opened for a long time ? • Is it too humid outside ?
The inside is smelling.		• Do you store food with odor without wrapping it ?
The refrigerator is noisy.		• Make sure the refrigerator is installed firmly. • Is the refrigerator touching the wall ?

This is not a malfunction of the refrigerator.

The surface of the refrigerator is hot.	• The refrigerator is equipped with the dew prevention and heat radiation tubes. The back and side plates may be heated especially when starting up or if the door is frequently opened and closed.
If a door is shut, other doors may open.	• The two compartment are connected with an air duct. When closing one of the door, another door may be opened by the air pressure through the duct. This is a normal phenomenon.
Does the refrigerator make any abnormal noises (sound)?	• The sound like water flowing and boiling water are the sound of the cooling liquid (refrigerant). • A creaking sound comes from the storage compartment. It is the sound caused by friction of the parts due to temperature change.
Annoying sound is generated by the refrigerator.	• You may feel that the operation sound is larger 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. The sound becomes small after cooling fully. The compressor operates at low speed at night, for long vacations or absences, potentially developing large vibrations.
Operation sound lasts long.	• It is because the compressor operates in low-speed for conserving energy.
Operation sound sometimes becomes larger.	• It is because the system changes the operating power of the refrigerator according to the temperature change.

Service center

- Before you request repair, please check the refrigerator well according to page number 8. If it is still abnormal, please contact the retailer of purchase or the following service center after unplug the power plug.

Sales and Service Center

HITACHI SALES (THAILAND) CO., LTD

994, 996 Soi Thong Lo, Sukhumvit 55 Rd., Khlong Tan Nua, Watthana, Bangkok 10110

Tel. 02-335-5455, FAX. 0-2381-9520 Web Site : [http:// www.hitachi-th.com](http://www.hitachi-th.com) E-mail : hitachi@hitachi-th.com

Factory : 610/1 Moo9 Tambol Nongki, Amphur Kabinburi, Prachinburi, Thailand 25110

About Non-fluorocarbon refrigerator.

- This refrigerator, include refrigerant and the heat insulator, is using hydrocarbon (non-fluorocarbon). The hydrocarbon is a material that does not rip up the ozone and have very little influence on global warming. It is the global environment concern material).
- R600a refrigerant is flammable. But the refrigerant is being sealed up by the refrigerate circuit, and never leak by usual use. In case of the refrigerate circuit damage by any chance. Please avoid the use of fire and electric product, open the window and ventilate. Afterwards, please contact Hitachi Service Center.

Severe warning signs for Disposal

Cyclopentane is used as in the insulation. 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.