

Instruction Manual

HITACHI Refrigerator

For household use only

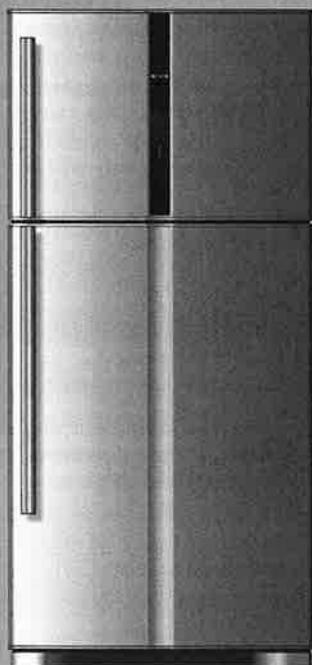
No frost

Model

R-V550PZ

R-V510PZ

R-V450PZ



Thank you very much for purchasing the HITACHI refrigerator.
Before installation and usage, please read the users guide carefully
for the correct usage.

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

HITACHI

Inspire the Next

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R600a


Refrigerant


Warnings and Caution for Safety

To avoid harm to the user, other persons or damage to property, please read and follow the warnings and cautions below and those given throughout this manual.




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

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

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

The symbols below are examples.	
	This symbol is an alert mark.
	This symbol indicates "prohibited".
	This symbol indicates "necessary".




R600a

This symbol denotes the precautions on flammable refrigerants.

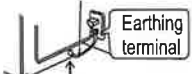
Warning

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 of fire.



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

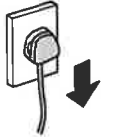



Power Cord and Power Plug ... To avoid fire, electric shock .

-  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.



- 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.




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



- 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.




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



- 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 sticks on the power plug, may cause fire.




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



- 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.



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




-  Do not use electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer.



- Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.




-  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.



- 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 enter in the refrigerator.



- 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 falling 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.




- 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

During daily use ... To avoid fire, electric shock . (Continuance)


-  Do not use the refrigerator in the atmosphere of flammable gas.

- Sparks from points of electrical contacts such as door switches may ignite a fire.




-  In the event of a flammable gas leak, do not touch the refrigerator and open the windows for ventilation.


Closing gas valve

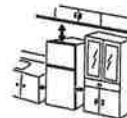
-  If you find something wrong with the refrigerator, immediately unplug and consult with the retailers.




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



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.




-  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 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 falling and knocking 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 bottom surface of the refrigerator cabinet.
- When cleaning, putting your hands near the bottom surface of the refrigerator may result in injury by thin metal sheets.




-  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.

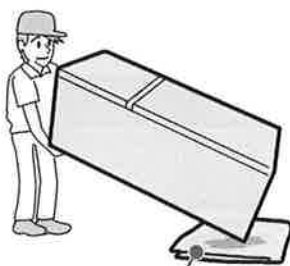
- Carry the refrigerator by at least 4 persons for safety reasons.
- Carry it with the doors facing upward.

■ Before carrying the refrigerator:

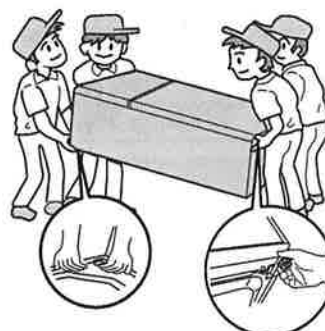
1. Take out all food items and ice cubes.
2. Lay a protective sheet or cloth to protect the floor from damage and catch remaining water spilled from the refrigerator.
3. With a large piece of old cloth underneath, tilt the refrigerator backward to drain water.
4. Finally carry the refrigerator with the 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. .



Such as old cloth



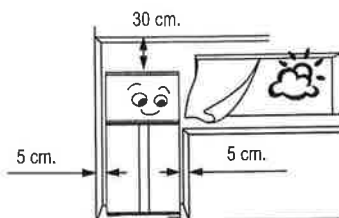
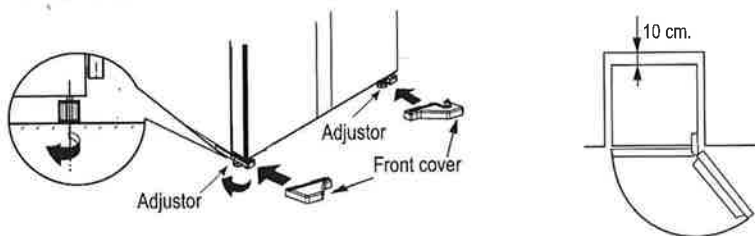
When replacing lamps (LED) is required.

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

Preparations before Use

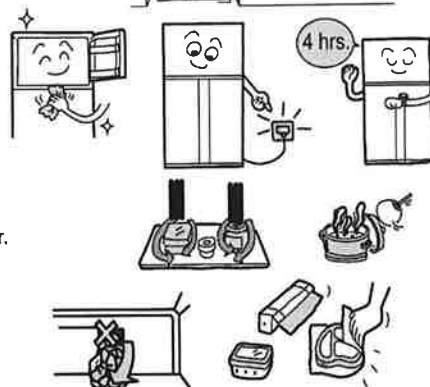
Installation

1. Install on a rigid and level floor.
2. Please use this refrigerator in a room temperature between 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 the refrigerator where it is exposed to direct sunlight or other heat source.
4. Install in an 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 30 cm over the top, 10 cm at rear and 5 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).
7. Make the refrigerator stand horizontally by adjusting the leveling legs (adjustor).
8. Place the front cover in the direction as figure and insert both into the holes until locked position.



Before Use

1. Clean 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. 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.



Optimal Food Storage

1. Keep enough space between food. Several food placed too 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 freezing food near the vent.
4. Using food wrap or sealed containers prevent the food from drying on transition of smells.

Location of Food Storage

R-V550PZ

Freezer Compartment -20°C~-18°C

Freezer Shelves

- Storage of frozen food and ice cream ,etc.



Movable Twist Ice Tray

- For ice cube storage made by "Twist Ice Maker"



Refrigerator Compartment 1°C~5°C

Refrigerator Shelves

- Storage of side dish, desert ,etc.



Selectable Mode Compartment 1°C~5°C

Selectable Mode Compartment

- Storage of fruits vegetables or dairy meat. (see page 7)

Adjusting the Drawer divider

- The drawer divider can be adjusted by moving it left or right. It can also be removed when you need more space for keep some big items.

Freezer Door Pockets -19°C~-17°C

Freezer Door Pockets

- Storage of packed small frozen food.
- Not recommended for long storage, because temperature rise caused by door open may occur.



Refrigerator Door Pockets 2°C~6°C

Refrigerator Door Pockets

- Storage of packed small food and drinks such as juice, milk ,etc.



Adjustable Door Pockets

- Lift up for storage 2 litres bottle at the lower pocket.



Vegetable Compartment 4°C~7°C

Vegetable Drawers

- Storage of fruits and vegetables.



Notice

- Above temperatures are the approximate values in the conditions of outside temperature 32°C, the setting of the refrigerator compartment "Normal", freezer compartment "Normal" while doors being closed and without food storage.
- Door pocket temperatures may be little higher than above temperatures.

Location of Food Storage

R-V510PZ

Freezer Compartment -20°C~-18°C

Freezer Shelves

- Storage of frozen food and ice cream, etc.



Movable Twist Ice Tray

- For ice cube storage made by "Twist Ice Maker"



Refrigerator Compartment 1°C~5°C

Refrigerator Shelves

- Storage of side dish, desert, etc.



Selectable Mode Compartment 1°C~5°C

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- Storage of fruits vegetables or dairy meat. (see page 7)

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Vegetable Compartment 4°C~7°C

Vegetable Drawers

- Storage of fruits and vegetables.



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- Above temperatures are the approximate values in the conditions of outside temperature 32°C, the setting of the refrigerator compartment "Normal", freezer compartment "Normal" while doors being closed and without food storage.
- Door pocket temperatures may be little higher than above temperatures.

Location of Food Storage

R-V450PZ

Freezer Compartment -20°C~-18°C

Freezer Shelves

- Storage of frozen food and ice cream, etc.



Movable Twist Ice Tray

- For ice cube storage made by "Twist Ice Maker"



Refrigerator Compartment 1°C~5°C

Refrigerator Shelves

- Storage of side dish, desert, etc.



Selectable Mode Compartment 1°C~5°C

Selectable Mode Compartment

- Storage of fruits vegetables or dairy meat. (see page 7)

Freezer Door Pockets -19°C~-17°C

Freezer Door Pockets

- Storage of packed small frozen food.
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Refrigerator Door Pockets 2°C~6°C

Refrigerator Door Pockets

- Storage of packed small food and drinks such as juice, milk, etc.



Vegetable Compartment 4°C~7°C

Vegetable Drawers

- Storage of fruits and vegetables.

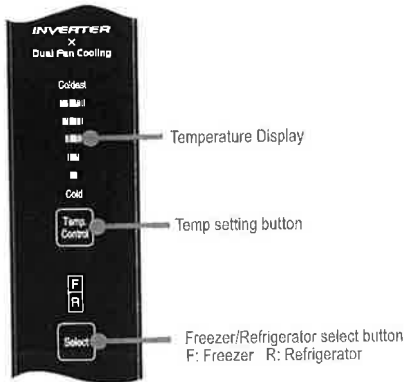


Notice

- Above temperatures are the approximate values in the conditions of outside temperature 32°C, the setting of the refrigerator compartment "Normal", freezer compartment "Normal" while doors being closed and without food storage.
- Door pocket temperatures may be little higher than above temperatures.

How to operation

☐ Name and Functions of Display

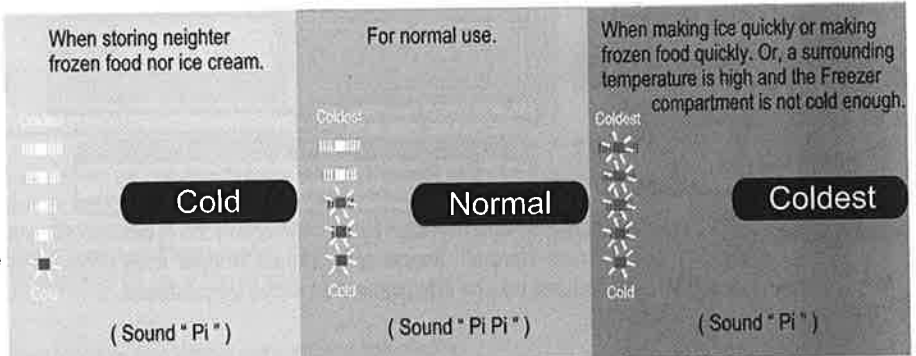
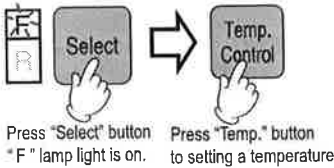


Notice

- 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.
- Approximately 30 seconds after the end of operation, indicator LED become unlit.
- 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.
- The panel may not respond if it is wet or dirty.

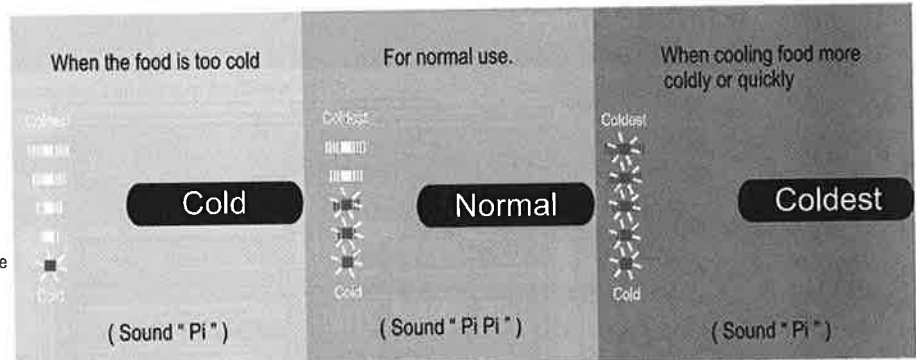
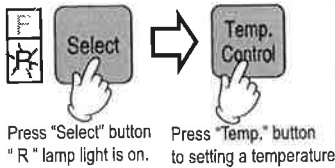
☐ Temperature control

■ Freezer Compartment



The display is indicating the status of temperature setting.

■ Refrigerator Compartment



The display is indicating the status of temperature setting.

☐ Other Function

Door Alarm and ECO Alarm Functions

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

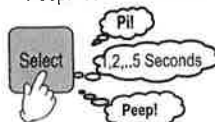
- Door Alarm: Informs by PeepPeepPeep sound.
- Eco Alarm Display: Indicates the door opening state on the control panel.

Duration of Door Opening	Door Alarm Sound	ECO Alarm Display
After 1 minute	PeepPeepPeep	All LED on display - are Flashing
After 2 minute	PeepPeepPeepPeepPeep	
After 3 minute	Peeps continuously.	

To Disactivate Alarm and Sound

1. Keep pressing "Select" button for 5 seconds until "Peep!" sound is heard.

There is not sound when pressing any button (disactive door alarm sound).



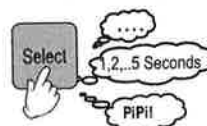
Notice

- Upon shipment, the alarm and sound are set "ON".
- If the Door Alarm, Eco Alarm Display and each button operation sound have been deactivated, the refrigerator will still set the alarm and sound to "OFF" even though a power failure or when unplugging and reconnecting the power plug.

To re-activate Alarm and Sound

1. Keep pressing "Select" button for 5 seconds until "PiPi!" sound is heard.

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



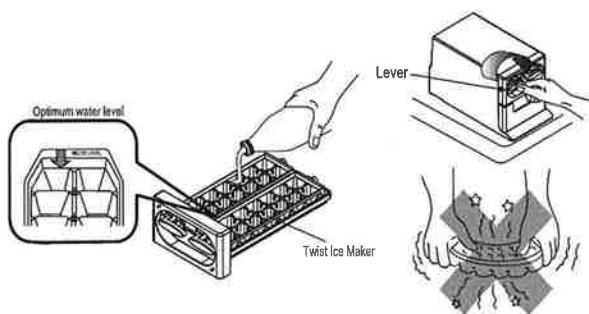
Freezer Compartment

Ice Making

- Pull out the "Twist Ice Maker" and pour in water up to the full line.
- After ice is made, turn the lever clockwise firmly and drop the ice into the "Ice Bank".

Notice

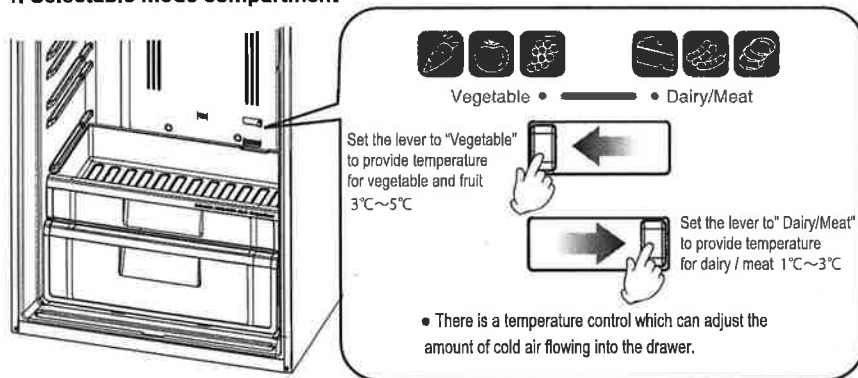
- Do not remove the ice maker with the frame and do not twist it as shown in the picture or else it will be damaged.
- Do not use the "Ice Bank" as an ice maker tray or else it will be damaged.



Refrigerator Compartment

- If you keep refrigerator in a hot and humid place, frequent opening the door or storing a lot of vegetables in it may cause dew forming which has no effect on its performance. Remove the dew with cloth free from care.

1. Selectable mode compartment



Caution

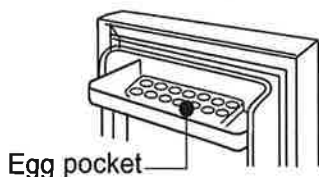
- If you want to store meat or fish longer, please store them in the freezer compartment.
- Be careful, it might be frozen if that food has a lot of moisture.
- When closing the refrigerator door, push the chilled case for close. If you close the door while the chilled case is still pulled out. The chilled case might be broken.
- Meat and fish can be kept fresh before being frozen.



The drawer is large enough space for children or pets to crawl
DO NOT allow them to play inside the drawer.

2. Egg pocket

- It can place 14 eggs also turn the rear side to place the small items.



3. Adjusting the shelves.

- Pull up the back and pull out the shelf forward.
- Set the refrigerator shelves by combining with stored food.



Maintenance

Cleaning (Please clean the refrigerator once a month)

1. Unplug the refrigerator.
2. Remove all food.
3. Wipe the refrigerator clean.
 - It is the best if smudges are wiped off immediately. It is also recommended to clean the areas of the refrigerator not clearly in view once a year.
 - Use a soft cloth moistened with lukewarm water to wipe of smudges. For smudges which are difficult to remove, use diluted neutral washing liquid.
 - Neatly clean the door gasket because it gets dirty easily.
4. If any droplets remain on the surface of the parts that have been washed, wipe them.
5. Return all part to their original locations.
6. Inspect 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 use the following items which damage parts and painting : Polishing powder, soap powder, oil, boiling water, brush, acid, benzene, thinner, alcohol and alkaline detergent, etc.
- If the cooking oil smears on the refrigerator, please wipe it off. (The plastic parts might be cracked).



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

Troubleshooting

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

The refrigerator does not get cold at all.	<ul style="list-style-type: none"> Is the refrigerator plugged in properly? 	<ul style="list-style-type: none"> Check the fuse box for blown fuse or tripped circuit breaker.
The refrigerator does not get cold enough.	<ul style="list-style-type: none"> Is the refrigerator placed in the direct sunlight? Is the temperature set to "Cold"? Is the food stored too much? Is the door being slightly opened? 	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> Is the temperature set to "Coldest"? Do you place food with moisture or vegetables nearby the cold air vent? It will be frozen if it is placed nearby the cold air vent. 	
Dew appears.	Outside	<ul style="list-style-type: none"> When the ambient humidity is too high, the door gasket may have dew. Please wipe it up with dry cloth.
	Inside	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> Do you store food with odor without wrapping it? 	
The refrigerator is noisy.	<ul style="list-style-type: none"> Make sure the refrigerator is installed firmly. 	<ul style="list-style-type: none"> Is the refrigerator touching the wall?

The Control Panel does not respond:

The Control Panel does not respond:	<ul style="list-style-type: none"> Is Refrigerator the compartment Door open? Operate after closing it. Are you wearing gloves or applying a plaster? Touch directly with your finger. 	<ul style="list-style-type: none"> Is there water or dirt on the Control Panel? Are you touching a next button? Touch only one button at a time
The Control Panel is unlit.	<ul style="list-style-type: none"> Approximately 30 seconds after the end of operation, Indicator LED become unlit. 	

This is not a malfunction of the refrigerator.

The surface of the refrigerator is hot.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> The two compartments are connected with an air duct. When closing one of the doors, the door may be opened by the air pressure through the duct. This is a normal phenomenon.
Does the refrigerator make any abnormal noises (sound)?	<ul style="list-style-type: none"> The sound like water flowing and boiling water is 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.

Service Center

Service Center	TEL No.
Hitachi Sales (Thailand), Ltd. 994, 996 Soi Thonglor, Sukhumvit 55 Rd., Klongtonnua, Vadhana, Bangkok 10110	<ul style="list-style-type: none"> 0-2335-5455

- When you request repair, please check the refrigerator well according to Trouble shooting on page 8. When still abnormal, Please contact the retailer or local Hitachi service center.

- Telephone numbers are subject to change without notice.

About Non-fluorocarbon refrigerator.

- This refrigerator, including 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 being damaged 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.



This symbol mark means that used electrical and electronic products shall not be mixed with general household waste. Do not try to dismantle the system and unit by yourself as this could have harmful effects on your health and the environment. Refrigerators must be treated at a specialized treatment facility for recycling and recovery and shall not be disposed of in the municipal waste stream. Please contact the installer, dealer or local authority for more information.