Instruction Manual

Hitachi Refrigerator

HITACHI
Inspire the Next

For household use only

No frost

R-H300PD **R-H270PD**
R-H230PD **R-H200PD**



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Thank you very much for purchasing the Hitachi refrigerator.
Before installation and usage,please read the user's guide carefully for the correct usage.

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

R600a
Refrigerant

https://manual-hub.com/

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.

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 of fire.

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.



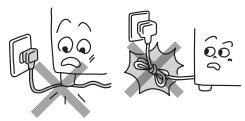
- If a power source is shared with other appliances using double or multipoint adapters, the adapter may heat up beyond the normal level and cause fire.



■ Do not use the 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.



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 use electrical appliances inside the food storage compartments of the appliance, unless they are of the type 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.

■ 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 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.

■ 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.)

■ 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.



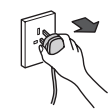
■ Clean the dust on the power plug frequently with dry cloth.

- Unplug the power plug and wipe it with dry cloth.
- An insulation failure due to moisture or when dust sticks 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.

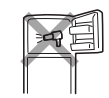


■ Do not disassemble, repair, or modify your refrigerator by yourselves.

- Please consult with a retailer if any repair is required.



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



■ 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.



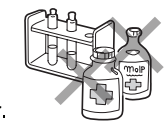
■ Do not put water containers or foreign articles on the top of the refrigerator.

- Opening and closing doors etc. may cause the articles on the top of the refrigerator falling down, resulting in injury.



■ Medicines,chemicals,research and experimental substances should not be stored in the refrigerator.

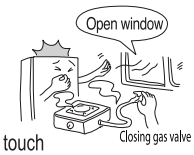
- Substances that require precise conditions for storage cannot be stored in a domestic refrigerator.



⚠ 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.

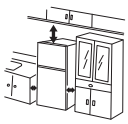


■ In the event of a flammable gas leak, do not touch the refrigerator and open the windows for ventilation.



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

■ 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.)



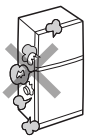
■ Do not hold the top, bottom and side of the doors when closing them.
● This may result in your fingers caught by the door edge.



■ Do not 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.



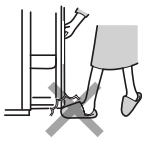
■ Do not store glass bottles in the freezer compartment.
● Bottles may break by the contents freezing and cause injury.



■ 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.

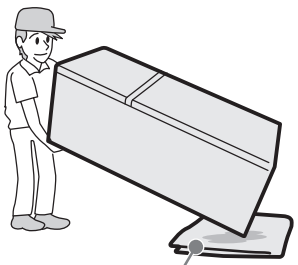
● Carry the refrigerator by at least 4 persons for safety reasons.
● Carry it with the doors facing upward.

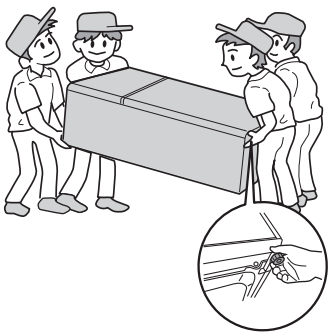
■Before carrying the refrigerator:
1. Take out all food items and ice cubes.
2. Lay a protective sheet or cloth to protect the floor from damage and catch remaining water spilled from the refrigerator.
3. With a large piece of old cloth underneath, tilt the refrigerator backward to drain water.
4. Finally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

● 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.

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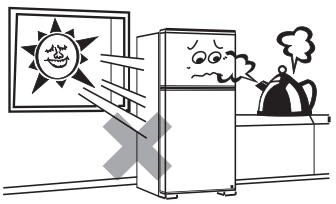
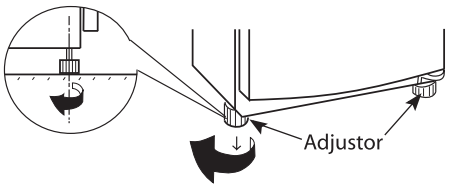
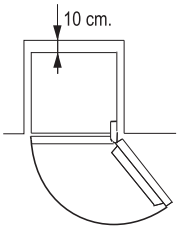
Preparations before Use

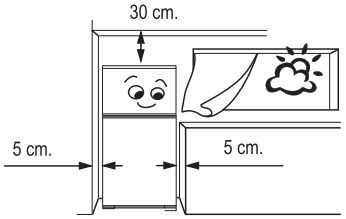
Installation

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).



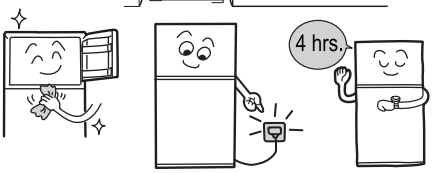






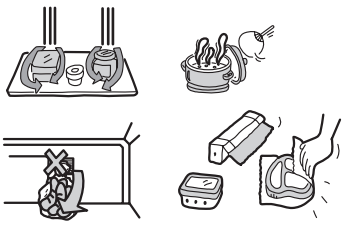
Before Use

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-H300PD, R-H270PD

Freezer Compartment −20℃～−18℃

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

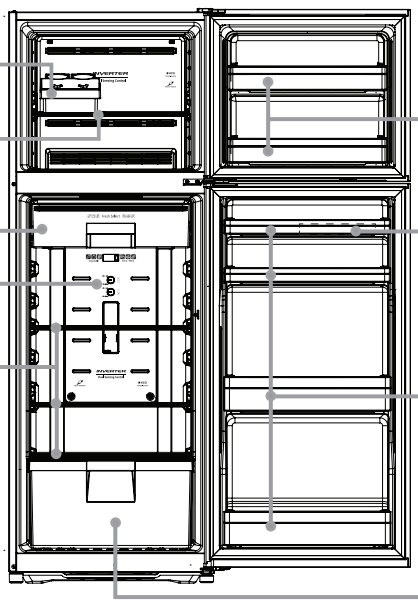
Freezer Shelves
- Storage of frozen food and ice cream ,etc.

Refrigerator Compartment 1℃～5℃

Fresh Select Compartment
- Storage of fruits vegetables or dairy meat. (see page 6)

Temperature control
- Freezer temperature control dial
- Refrigerator temperature control dial

Refrigerator Shelves
- Storage of side dish, desert ,etc.



Freezer Door Pockets −19℃～−17℃

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℃～6℃

Egg tray
- Storage of eggs (14 eggs)

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

Vegetable Compartment 4℃～7℃

Vegetable Drawers
- Storage of fruits and vegetables.

Notice

- Above temperatures are the approximate values in the conditions of outside temperature 32℃, 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.

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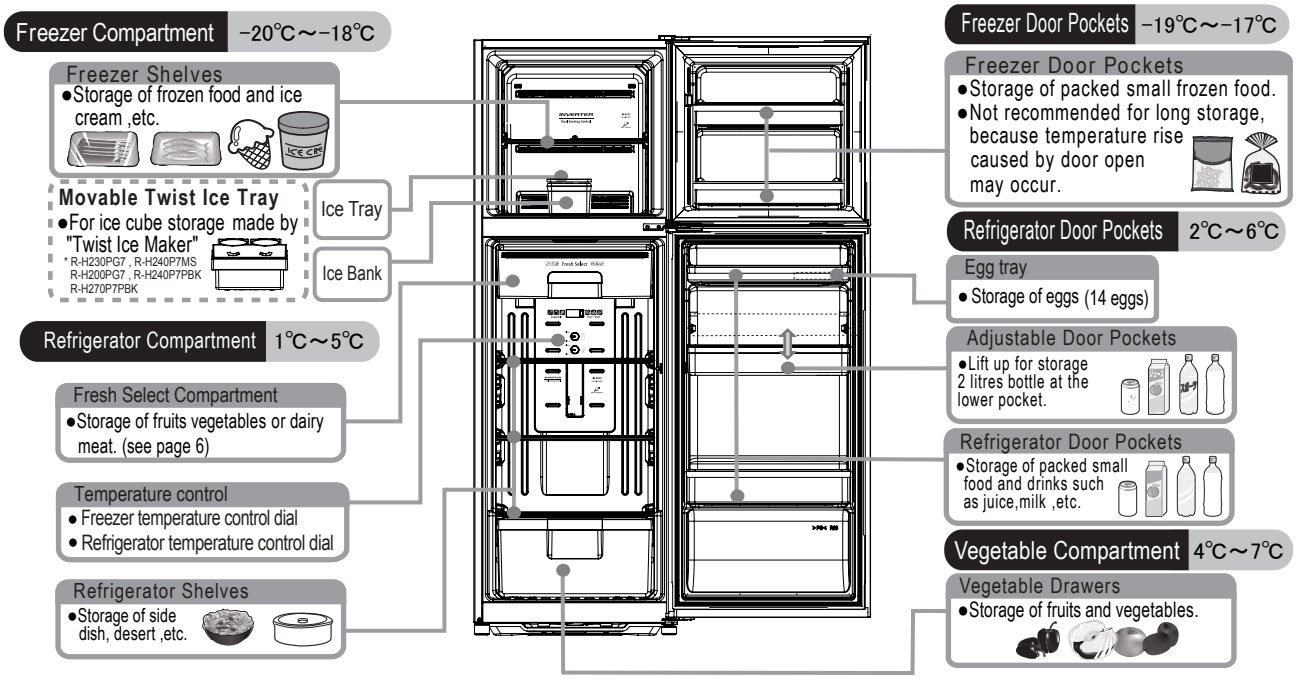
Location of Food Storage

R-H230PD, R-H200PD



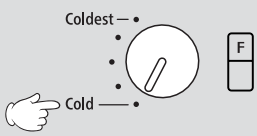
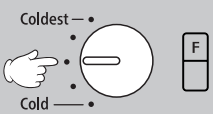
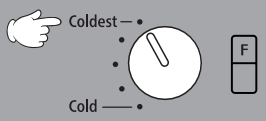
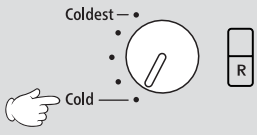
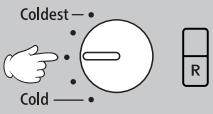
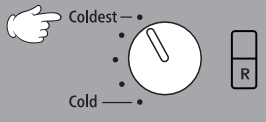
Notice

- Above temperatures are the approximate values in the conditions of outside temperature 32℃, 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

Temperature control

This refrigerator control its temperature automatically. Please adjust a temperature control dial as follows.

1. Freezer Compartment	When storing neighter frozen food nor ice cream.	For normal use.	When making ice quickly or making frozen food quickly. Or, a surrounding temperature is high and the Freezer compartment is not cold enough.
			
	Cold	Normal	Coldest
2. Refrigerator Compartment	When the food is too cold	For normal use.	When cooling food more coldly or quickly
			
	Cold	Normal	Coldest

- Please return the dial to the position of "Normal" after the "Coldest" has been set. Food may be frozen if the "Coldest" is set for a long time.
- If set the dial to the "Cold" side for a long time, the temperature of the food in freezer and refrigerator compartment may rise.

Caution about a refrigerator compartment food freeze.

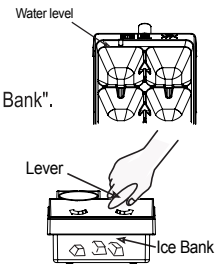
- When you place the high moisture food and vegetables at the inner part of shelf nearby the cold air vent, they will be frozen. If it is possible, please do not place the high moisture food and vegetables at the inner part of the shelf nearby the cold air vent.
- When food and vegetables become frozen, you can prevent them from being frozen by wrapping or putting them in the case. If they are still frozen, please adjust the temperature by turning the temperature control dial to "Cold".

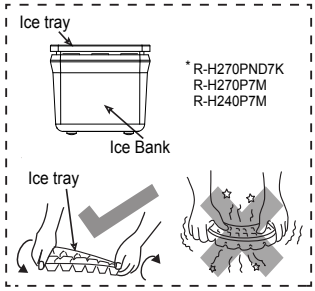
How to operation

Freezer Compartment

Ice Making

- Take the "Twist Ice Maker" and pour in water up to the full line.
- After ice is made, turn the lever firmly by following arrow and drop the ice into the "Ice Bank".



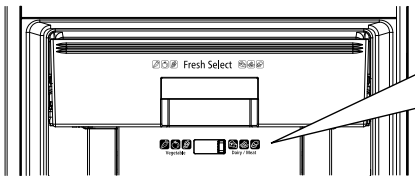


Notice

- 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.

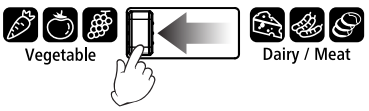
Refrigerator Compartment

1. Fresh Select Compartment

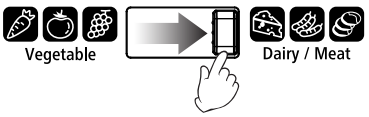


- There is a temperature control which can adjust the amount of cold air flowing into the drawer.

Set the lever to "Vegetable" to provide temperature for vegetable and fruit 3℃~5℃



Set the lever to" Dairy/Meat" to provide temperature for dairy / meat 1℃~3℃



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.

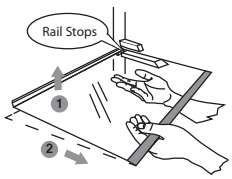
2. Egg pocket

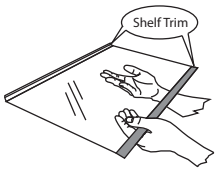
- It can hold 14 eggs. When turned over, it can be used as a case for small items.

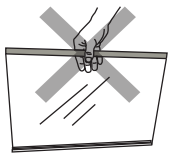


3. Adjusting the shelves.

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







CAUTION

- Do not store in each case more than maximum load.

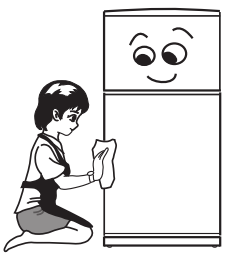
Maximum Load	R-H350* R-H310*	R-H270*, R-H240* R-H230*, R-H200*
Fresh Select Compartment	6.0 kg	6.0 kg
Vegetable Crisper	10.0 kg	8.0 kg
Refrigerator Shelves	10.0 kg	21.0 kg

Shelf trims are removable, Holding the shelf with both hands. DO NOT holding trim or holding shelf with only one hand otherwise it may drop or injury.

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 off smudges. For difficult to remove smudges, use a diluted, neutral kitchen
   - 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 parts to their original locations.
6. Inspect and clean the power plug, cord and outlet.
7. Plug the power cord into the outlet.



Notice

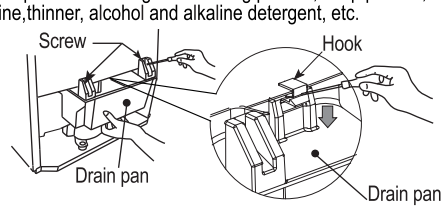
- Even if the power plug is plugged in immediately after being unplugged, the compressor will not run for 10 minutes. However, if the inside is not cold, it will start running in approximately 30 seconds.
- If the cooking oil smears on the refrigerator, please wipe it off. (The plastic parts might be cracked)

CAUTION

- The following do not use it. Parts and paint are damaged. Polishing powder, soap powder, oil, boiling water, brush, acid, benzine,thinner, alcohol and alkaline detergent, etc.

Replace spare parts.

1. Drain pan
   1. Take 2 screws out.
   2. Take the middle hook out.



Troubleshooting

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 refrigerator placed near heat source? ● Is the temperature control dial set to “Cold” ? ● Has anything hot been placed in the refrigerator? ● Is the food stored too much? ● Is the door being opened and closed too frequently? ● Is the door being slightly open?
Food in the refrigerator compartment freezes.		● Is the temperature control dial set to “Coldest” ? ● Do you place the high moisture food and vegetables at the inner part of the shelf nearby the cold air vent? They will be frozen if being placed nearby the cold air vent.
Dew appears.	Outside	● When the high humidity outside and door gasket will have dew. Please wipe it up by dry cloth.
	Inside	Please wipe it up 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 high humidity, is not it?
The inside is smelling.		● Do you store odor food without wrapping it?
Sound is noisy.		● Make sure the refrigerator is installed firmly. ● Is the refrigerator touching the wall?
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 manufacuring process of the refrigerator. They may be conspicuous according to the position of the light source and/or the brightness etc., but there is no problem with the performance.

This is not out of order.

The surface of the refrigerator is hot.	● The refrigerator contains the dew prevention and heat radiation pipes. Especially the back&side may be heated when starting up or if the door is frequently opened and closed.
If a door is shut, other doors may open.	● The air duct of two compartment is connected. When close one of the door, another door may be opened by the wind pressure. This is a normal phenomenon.
Does it have any abnormal sound?	● The sounds like water flowing and boiling water are 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

- When you request repair, please check the refrigerator well according to Trouble shooting on page 7. When still abnormal, Please contact the retailer or local Hitachi service center.

Head Office Service Center:
Hitachi Sales (Thailand), Ltd. 333, 333/1-8 Moo 13, Bangna-Trad Road (km7),Bangkaew, Bangplee, Samutprakarn 10540
Tel. : 0-2335-5455 Fax. : 02- 316-1128 Web Site:http://www.hitachi-th.com E-mail : hitachi-th.com

Factory location:
610/1 Moo 9 Tambol Nongki A. Kabinburi, Prachinburi 25110 Tel. : 0-3728-4000 Fax. : 0-3745-5152

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.

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