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.
Warnings 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. The symbols shown 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.

![R600a](image)

This symbol denotes the precautions on flammable refrigerants.

**Warning**

*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 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**

*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.

*Be sure to unplug the power plug before maintaining the refrigerator.*

- Be sure to hold the power plug to unplug.

*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.*

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

**During daily use**

*Do not splash water on or inside the refrigerator.*

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

*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

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

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

*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.
Warning

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

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

Caution

During daily use To avoid illness and injury

- 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 have your feet too close when opening the door of the refrigerator.
  - When opening the door, your feet may be hit, resulting in 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 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 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.
- Never use an ice pick or other sharp instrument to take front away.
  - If a hole is made in the evaporator, the refrigerant leaks and cooling is impaired.
  - In this case, the actual expenses for repairing the refrigerating until will be charged to you.
- Do not put bottles, etc. forcibly in the door pockets.
  - This may cause bottles dropping down or door pockets coming off.
- Do not put 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.

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.
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.

For a floor that may be easily scratched, lay a protective mat, etc.

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.

Carry it 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.

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).

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**

- **Freezer Compartment**
  - Ice Tray: For making ice cubes
  - Egg Tray: Storage of eggs (8 eggs)

- **Refrigerator Compartment**
  - Temperature: -2℃~2℃

- **Refrigerator Door Pockets**
  - 4℃~7℃
  - Storage of packed small food and drinks such as juice, milk, etc.

- **Vegetable Compartment**
  - 4℃~7℃
  - Storage of fruits and vegetables.

- **Vegetable Drawers**
  - Storage of eggs (8 eggs)

**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.
  - The display figure is 6.4c/f model.

**How to operation**

**Temperature control**

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

<table>
<thead>
<tr>
<th>Refrigerator Compartment</th>
<th>When the food is too cold</th>
<th>For normal use</th>
<th>When cooling food more coldly or quickly</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cold</td>
<td>Cold</td>
<td>Cold</td>
<td>Cold</td>
</tr>
<tr>
<td>CobList</td>
<td>Cam</td>
<td>CobList</td>
<td>CobList</td>
</tr>
</tbody>
</table>

- 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”.

**ICE MAKING**

- Fill the ice tray 3/4 to 4/5 full or "WATER LEVEL" to allow for expansion of water during freezing. Do not overfill.
- To remove ice cubes, twist the tray having both ends.
  - In this case, do not bend the ice tray or it will be cracked.
- Set the temperature control knob to “Coldest” position for the rapid ice-making. Be sure to reset the knob to the original position when sufficient ice has been made.

**Notice**
- To remove ice cubes, twist the tray having both ends. In this case, do not bend the ice tray or it will be cracked.
- If it has a lot of ice in freezer room, please push the defrost button to clear an ice.
- If it has a lot of ice in Drain area, please cleaning that area.
- If user always open door or Refrigerator under auto defrost, Some food in freezer room may melt.
How to operation

FREEZER

CHILLER

- Meat and fish can be kept fresh before being frozen.

Caution

- There may be water in chiller from thawed frost in freezer compartment. Thus, the following actions should be taken.
  - Wrap or put your foods in boxes before keeping in chiller.
  - In case of long time storing of meat or fish, please put them in freezer compartment.
  - If there is water in chiller, please clean up the drain hole in chiller.
  - Please put chiller into its position firmly. Otherwise, there may be water flowing into refrigerator compartment.
  - If there is water from chiller flowing into refrigerator compartment, please check the positions of the cone and the drain hole if they are at the same and not blocked.

Egg pocket

- It can place 8 eggs also turn the rear side to place the small pocket.

DEFROST MODE

The Refrigerator has 2 mode for defrost, That are Auto defrost mode and Semi-auto defrost mode

- Automatic defrosting mode is “ON” (Default setting)
  - Normally, the refrigerator can defrost around once a day.

- Semi-auto defrosting / Automatic defrosting mode is “off” (Manual defrost)
  - The frost should be defrosted when the thickness of frost about 7 mm. on the surface of evaporator. A large amount of frost on the surface of evaporator will reduce cooling efficiency.

  so user should be push a “defrost mode”

<table>
<thead>
<tr>
<th>Manual defrosting during automatic defrosting mode</th>
<th>Manual defrosting during manual defrosting mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Push Defrost Mode button once to defrost manually.</td>
<td>Push Defrost Mode button once to defrost manually.</td>
</tr>
<tr>
<td>Defrosting status</td>
<td>Defrosting status</td>
</tr>
<tr>
<td>Blinking</td>
<td>Blinking</td>
</tr>
<tr>
<td>STATUS IS NORMALLY</td>
<td>STATUS IS NORMALLY</td>
</tr>
<tr>
<td>STATUS IS DEFROSTING</td>
<td>STATUS IS DEFROSTING</td>
</tr>
</tbody>
</table>
How to operation (Continue)

DEFORST MODE (Continue)

- How to change defrosting modes.

<table>
<thead>
<tr>
<th>Switching from automatic to Semi-auto</th>
<th>Switching from Semi-auto to automatic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Push Defrost Mode button for 3 seconds to switch its mode.</td>
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</tr>
<tr>
<td><img src="image1" alt="Automatic defrosting mode" /></td>
<td><img src="image2" alt="Semi-auto defrosting mode" /></td>
</tr>
<tr>
<td><img src="image3" alt="Semi-auto defrosting mode" /></td>
<td><img src="image4" alt="Automatic defrosting mode" /></td>
</tr>
</tbody>
</table>

**Note**

- Refrigerators are set to automatic defrosting before delivery.
- There may be water from defrosting flows into chiller case.
- In case of power failure or plug taked-off, the refrigerator will start with automatic defrosting mode.
- If defrost mode button is pushed while the temperature in the refrigerator is high, the lamp will be blinking simultaneously when pushed.

**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 cleaner.
   - 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 alkali detergent, etc.

Replace spare parts.

1. **Drain pan**
   - Take 2 screws out.

![Screw](image5) ![Ev-drain](image6) ![Reciever](image7)
# Troubleshooting

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

<table>
<thead>
<tr>
<th>症状</th>
<th>原因及解决方法</th>
</tr>
</thead>
</table>
|The refrigerator does not get cold at all. | *
|The refrigerator does not get cold enough. | *
|Food in the refrigerator compartment freezes. | *
|Dew appears. | *
|The inside is smelly. | *
|Sound is noisy. | *
|There are waving and/or distortions on the door surface, the side and the top surface of the refrigerator. | *

### 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

- Telephone numbers are subject to change without notice.
- When you request repair, please check the refrigerator well according to Troubleshooting on page 8. When still abnormal, please contact the retailer or local Hitachi Service Center.

### 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.

### Warning

- 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.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Children shall not play with the appliance.
- Cleaning and user maintenance shall not be made by children without supervision.