

Instruction Manual

Refrigerator

Model

HRTN5198M
HRTN5198MXMY
HRTN5198MXMD



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 works by well-trained maintenance worker.

HITACHI

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For household use only

R600a



Refrigerant

Warning 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.

This 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 use flammable refrigerants. The symbol column below states the precautions on flammable refrigerants.

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











Warning: risk of fire or flammable materials.

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 and install earth leakage circuit breaker when using it in please 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 locate multiple portable socket-outlets or portable power supplies at the rear of the appliance.
-  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.
 - When positioning the appliance, ensure the supply cord is not trapped or damaged.
-  Be sure to unplug the power plug before maintaining the refrigerator.
 - Be sure to hold the power plug to unplug.
-  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.
-  Do not insert or remove the power plug with wet hands.

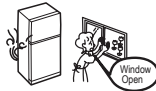
During daily use ... To avoid fire, electric shock.

-  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.
-  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 disassemble, repair, or modify the refrigerator by yourself.
 - Please consult with a retailer or Hitachi Service Center if any repair is required.
-  Ether, liquid propane gas, solvent, aerosol cans, etc. which is volatile cannot be stored in this refrigerator.
 - Do not store anything that are generate heat or fire spark inside 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 to fall down, resulting in injury.
-  Do not touch the electrical / mechanical parts or high temperature parts on the back side of refrigerator. There are risk of electric shock or burn.

! WARNING



- Do not damage the refrigerant circuit.
- If there the damage of refrigerant pipe happened, 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.



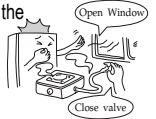
- Do not use other electrical appliances (such as ice cream makers) inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer.



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



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



- Children should be supervised to ensure that they do not play with the appliance.
- Children getting inside may not be able to get out.
- Cleaning and user maintenance shall not be made by children without supervision.



- Do not use the refrigerator in the atmosphere of flammable gas.
- Do not make an impact on the glass-made doors or shelves.



- They are made of tempered glass, however, an excess impact may be result in breakage and is dangerous.

- This appliance is intended to be used in household and similar applications such as
 - Staff kitchen areas in shop, offices and other working environments.
 - Farm houses and by clients in hotels, motels and other residential type environments.
 - Bed and breakfast type environments.
 - Catering and similar non-retail applications.

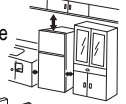
When discarding the refrigerator.



- When discarding the refrigerator, remove the door gaskets.
- To avoid a risk of an infant or child to be entrapped inside.



- Keep ventilation openings in the appliance enclosure or in the built-in structure clear of obstruction.



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



- 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.

! CAUTION

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



- Do not put bottles, etc. forcibly in the door pockets.
- This may cause bottles to drop down or door pockets to come off.



- Do not allow any sharp objects to come into contact with refrigeration system behind and inside the refrigerator.



- Do not store food which smells or food whose color is changed abnormal.
- Such an action may cause diseases.



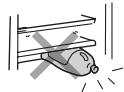
- Food and containers inside the freezer compartment should not be touched with wet hands.
- This may cause frost injury. (Especially in case of metal items.)



- Do not hold the top, bottom and side of the doors when closing them.
- This may result in your fingers being 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 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.



- 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.



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



- Do not use door handles when carrying the refrigerator.
- Never use the carrying handles to hang up with a chain hoist or similar machines.



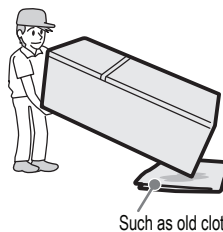
- For a floor that may be easily scratched, lay a protective mat, etc..



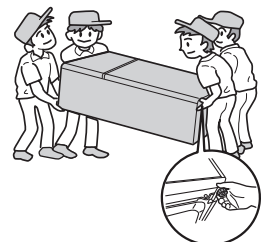
When replacing lamps (LED) is required.



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



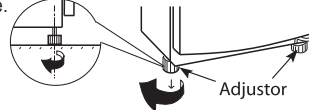
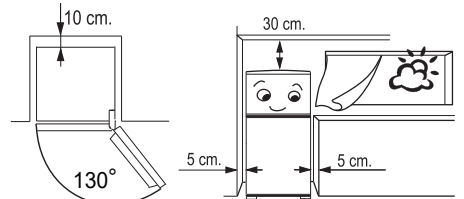
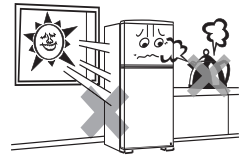
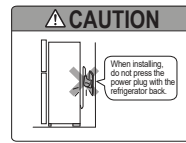
Such as old cloth



Preparations before Use

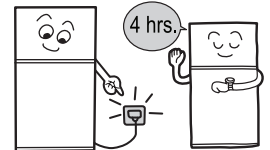
1 Installation

- 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 room temperature is too low or too high.
- 3) Do not install where the refrigerator 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 place with high humidity or moisture. (Please consult with retailers or Hitachi Service Center.)
- 7) Make the refrigerator stand horizontally by adjusting the leveling legs (adjustor).
 - 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.
 - Turn the adjustable legs until they touch the floor firmly.
- 8) When opening the doors, please open carefully until it stops approximately at 130°. Do not over open. Otherwise the door may cause damage.



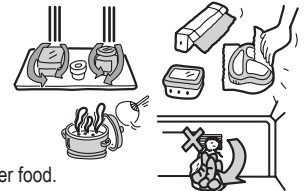
2 Beginning

- 1) After transporting: If Refrigerator has been kept horizontal position for more than 10 minutes for transportation or any other reasons, it should stand upright for more than 1 hour before plugging it in.
- 2) Cleaning inside the refrigerator. Wipe the surface gently with soft cloth.
- 3) 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.
- 4) The compressor will start running in approximately 30 seconds, if inside is not cold.
- 5) 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.
- 6) Opening the door for long periods can cause a significant increase of the temperature in the compartments of the appliance.



3 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 food near the vent freezing.
- 4) Using plastic wrap or sealed containers prevent the food from drying or transition of smells.
- 5) Store raw meat and fish in suitable containers in the refrigerator, so that it is not in contact with or drip onto other food.



Location of Food Storage

Freezer Compartment -20°C ~ -18°C

Temperature control

- Freezer temperature control dial

Freezer Shelves

- Storage of frozen food and icecream, etc.



Refrigerator Compartment 1°C ~ 5°C

Temperature control

- Fresh food temperature control dial

Refrigerator Shelves

- Storage of side dish, desert, etc.



Freezer Door Pocket -19°C ~ -17°C

Freezer Door Pocket

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



Refrigerator Door Pockets 4°C ~ 8°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 slightly higher than above temperatures.

How to operate

Temperature Control

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

<p>1. Freezer Compartment</p>	<p>When storing neither frozen food nor ice cream.</p> <p>Cold</p>	<p>For normal use.</p> <p>NORMAL</p>	<p>When making ice quickly or making frozen food quickly. Or, a surrounding temperature is high and the Freezer compartment is not cold enough.</p> <p>Coldest</p>
<p>2. Refrigerator Compartment</p>	<p>When doesn't the food a lot of coldness</p> <p>0=Turn off</p>	<p>For normal use.</p> <p>Cold</p>	<p>When cooling food more coldly or quickly</p> <p>Coldest</p>

- 0 = Turn off
- If set the dial to the "1" side for a long time, the temperature of the food in freezer and refrigerator compartment may rise.

Caution about a refrigerator compartment food freeze.

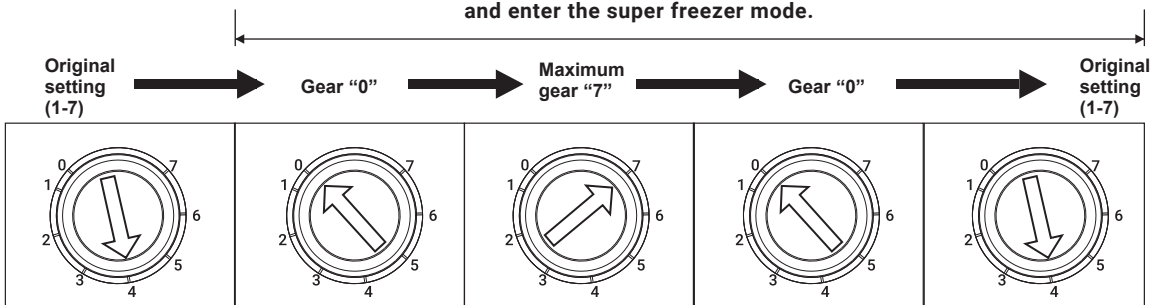
- When you place the high moisture food and vegetables at the inner part of shelf nearby the cold air vent, they will be frozen. If it is possible, please do not place the high moisture food and vegetables at the inner part of the shelf nearby the cold air vent.

Daily Use

Enter Quick freezing mode:

First, turn the temperature control knob to the "0" position, and then operate the temperature control knob in the sequence shown in the figure within 20s. After the operation is completed, the light flashes at 0.5Hz (on for 1.5s, off for 0.5s) (door open light flashes, door closed light off), enter the super freeze mode.

Complete the operation within 20 seconds and enter the super freezer mode.



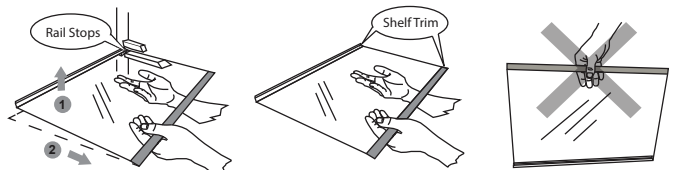
Exit super freeze mode (exit if one of the following conditions is met):

1. Adjust the knob to "0"(OFF);
2. Power off to exit the super freeze mode;
3. Super freeze will automatically turn off after running for 50 hours.

After exiting the super freeze mode, it runs at the current set gear of knob, and the lighting will return to normal control.

Adjusting the shelves.

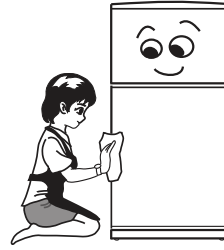
- Pull out the shelf forward.
- Set the refrigerator shelves by combining with stored food.



Maintenance

Cleaning (Please clean the refrigerator once a month)

1. Unplug the refrigerator.
2. Take out all the food.
3. Wipe the refrigerator clean.
 - It is highly recommended to wiping off smudges immediately. It is also recommended to clean the areas of the refrigerator which are not easily full-stop
 - 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 off.
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 pipe rust.



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

Troubleshooting

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

Problem	Things to check
The refrigerator does not get cold at all.	<ul style="list-style-type: none"> • Is the refrigerator plugged in properly? • 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 refrigerator placed near heat source? • Is the temperature set to "Cold"? • Has anything not been placed in the refrigerator? • Is the food stored too much? • Is the door opened and closed too frequently? • Is the door being slightly open?
Food in the refrigerator compartment freezes.	<ul style="list-style-type: none"> • Is the temperature set to "Coldest"? • Do you place the high moisture food or 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	<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.
Dew appears Inside	<p>Please wipe it off with dry cloth and please check the details below.</p> <ul style="list-style-type: none"> • Is the door closed firmly? • Is the door 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. • 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.	<ul style="list-style-type: none"> • Slight waving and/or distortions are generated in the manufacturing process of the refrigerator. They may be conspicuous according to the position of the light source and/or the brightness etc., but there is no problem with the performance.

This is not a malfunction of the refrigerator:

Problem	Things to check
The surface of the refrigerator is hot.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • The air duct of two compartments are connected. When closing one of the doors, the other door may be opened by the air pressure through the duct. This is a normal phenomenon.
Does it have any abnormal sound?	<ul style="list-style-type: none"> • The sound 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

- Before you request repair, please check the refrigerator well according to page number 7.
If it is still abnormal, please contact the retailer of purchase or the following service center.

Service Center	TEL No.
• Arcelik Hitachi Home Appliances Sales Malaysia Sdn.Bhd.	• 1-800-88-1122

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 sealed up by the refrigerant circuit, and never leaks by usual use. In case of the refrigerant circuit being damaged by any chance, please avoid using fire or electric product, open the window and ventilate. Afterwards, please contact Hitachi Service Center.

Sever 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.