

# Instruction Manual

## Chest Freezer

### Model

F-C145AM1      F-C200AM1      F-C316AM1



Thank you very much for purchasing the Hitachi appliances.  
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 work

# 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.

	<b>WARNING</b>	This pictograph indicates "There is a high possibility of serious injury or death, if ignored".
	<b>CAUTION</b>	This pictograph indicates "There is a high possibility of injury or damage to property, if ignored".

- This appliances 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".



**This symbol denotes the precautions on flammable refrigerants.**

## WARNING

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

- Do not install the appliances in a place where it may come in contact with water.
- Do not install the appliances in a place exposed to rain.
  - This may impair electricity insulation and cause electric shock or fire.
- Ground this appliances to prevent electric shock and noise interference. Always ground this appliance and install earth leakage circuit breaker when using it in place 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 appliances'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.
  - Do not locate multiple portable socket-outlets or portable power supplies at the rear of the appliances.
- 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 appliances, ensure the supply cord is not trapped or damaged.
- Be sure to unplug the power plug before maintaining the appliances.
  - 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 appliances.
  - This may impair electricity insulation causing electric shock or fire.
  - This may also cause gas leakage because of pipe rust.
- This appliances 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 appliances 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 appliances tipping over or hands getting caught in door.
- Do not enter in the appliances.
- Do not disassemble, repair, or modify the appliances 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 appliances.
  - Do not store anything that are generate heat or fire spark inside the appliances.
- Do not put water containers or foreign articles on the top of the appliances.
  - Opening and closing doors etc. may cause the articles on the top of the appliances to fall down, resulting in injury.









# Warning and Caution for Safety

## ! WARNING





-  Do not damage the refrigerant circuit.
    - If there the damage of refrigerant pipe happened, stay away from the appliances and avoid using fire and electrical appliances.
    - And, open windows to ventilate and contact retailers or Hitachi Service Center.
  -  Do not use electrical appliances inside the food storage compartments of the appliances, unless they are of the type recommended by the manufacturer.
  -  In an event of a flammable gas leak, do not touch the appliances and open windows for ventilation.
    - Sparks from points of electrical contacts such as door switches may ignite explosions causing fire or a burn.
  -  Do not use the appliances in the atmosphere of flammable gas.
  -  If you find something wrong with the appliances, immediately unplug and consult with the retailers or Hitachi Service Center.
  -  Keep ventilation openings in the appliances enclosure or in the built-in structure clear of obstruction.
  -  Medicines, chemicals, research and experimental substances should not be stored in the appliances.
    - Substances that require precise conditions for storage cannot be stored in a domestic appliances.
  -  Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
  -  Children should be supervised to ensure that they do not play with the appliances.
    - Children getting inside may not be able to get out.
  - Cleaning and user maintenance shall not be made by children without supervisor.
  - This appliances 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 appliances in a safe way and understand the hazards involved.
  - Children shall not play with the appliances.
  - Children aged from 3 to 8 years are allowed to load and unload refrigerating appliances.
- When discarding the appliances.**
-  When discarding the appliances, pull the plug out of the socket, cut the power cord (as close to the appliances as you can) and remove the door and the door gaskets to prevent children to suffer electric shock or to avoid a risk of an infant or child to be entrapped inside.
  -  Follow the instructions of your region when discarding.
    - This appliances 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 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 your feet too close when opening of the appliances.
  - When opening the door, your feet may be hit, resulting in injury.
-  Do not have food items protruding over the front 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 appliances.
  - When cleaning, putting your hands near the base surface of the appliances may result in injury by thin metal sheets.
-  Be sure to hold the handle firmly to open or close the door.

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

-  Use the carrying handle when carrying the appliances.
  - Hold the carrying handles only. If hold door handles, hands may slip and may cause injury.
  - Carry the appliances by at least 4 persons for safety reasons.
  - Carry it with the doors facing upward.
- Before carrying the appliances:
  1. Take out all food items and ice cubes.
  2. Finally carry the appliances 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 appliances on its side. This could damage the compressor.
  3. This appliances is heavy. Care should be taken when moving it. During transportation and installation of the appliances, be certain that non of the compnents of the refrigerant circuit become damaged.
    - Avoid open flames and sources of ignition.
    - Thoroughly venilate the room in wich tha appliances is situated.
-  Do not use door handles when carrying the appliances.
-  Never use the carrying handles to hang up with a chain hoist or similar machines.
-  On a floor that is easily scratched, do not move the appliances with the wheels of appliances.
  - The wheels may scratch the floor.
  - For a floor that may be easily scratched, lay a protective mat, etc..

### When replacing lamps (LED) is required.(optional)

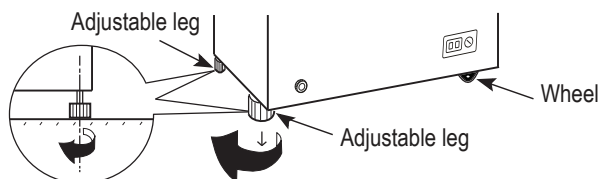
-  When lamps (LED) need to be replaced, please contact Hitachi Service Center.

# Preparations before Use

## 1

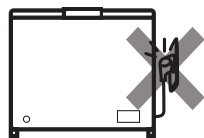
### Installation

- 1) Install on a rigid and level floor.
- 2) Please use this appliances 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 appliances is exposed to direct sunlight or other heat source.
- 4) Install in an atmosphere which is dry or has air ventilation.
- 5) The appliances requires enough air ventilation space around the cabinet to have efficient cooling performance.  
Space of at least 700 mm over the top, 100 mm at rear and 100 mm at both sides for proper air circulation is needed.
- 6) Ground the appliances to prevent electric shock and noise interference. Always ground this appliances when using it in place with high humidity or moisture. (Please consult with retailers or Hitachi Service Center.)
- 7) Adjusting the adjustable legs.
  - Without adjusting the legs, 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 (Only model F-C145AM1, F-C145GD1, F-C145AG1, F-C200AM1, F-C200GD1, F-C200AGMV1).



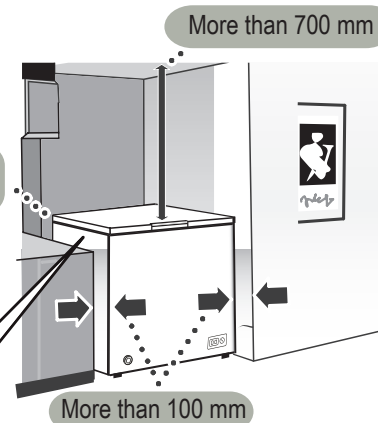
#### CAUTION

- When installing, do not press the power plug with the appliances side.
- It must be possible to disconnect the appliances from the mains power supply, the plug must therefore be easily accessible after installation.



#### CAUTION

Back & both sides of appliances is hot proceed from hot gas pipe inside.



## 2

### Beginning

- 1) Unpack the appliances and check if there are damages on it. Do not connect the appliances if it is damaged. Report possible damages immediately to the place you bought it.
- 2) It should stand upright to wait at least 4 hours before plugging it in.
- 3) Cleaning the interior and all internal accessories with lukewarm water and some neutral soap so as to remove the typical smell of a brand new product, then dry thoroughly.  
**Important!** : Do not use detergents or abrasive powders, as these will damage the finish.
- 4) Connect the appliances to an exclusive wall power outlet. Surely use with the rated voltage and exclusive power outlet.
- 5) Surely use with the rated voltage and exclusive power outlet and make sure that the mains plug is accessible after the installation of the appliances.
- 6) Allow enough duration for sufficient cooling before storing food. It may take about 6 hours to fully cool down and could even take about 24 hours when the ambient temperature is high.

## 3

### Food storage

- 1) Keep enough space between food.
- 2) Make food cool enough before putting it in the appliances. Putting warm food in the appliances raises the inside temperature and wastest electricity.
- 3) Using food wrap or sealed containers prevent the food from drying or transition of smells.
- 4) Do not put hot on the plastic parts in the appliances.
- 5) Frozen food must not be re - frozen once it has been thawed out.
- 6) Store pre - packed frozen food in accordance with the frozen food manufacture's instructions.

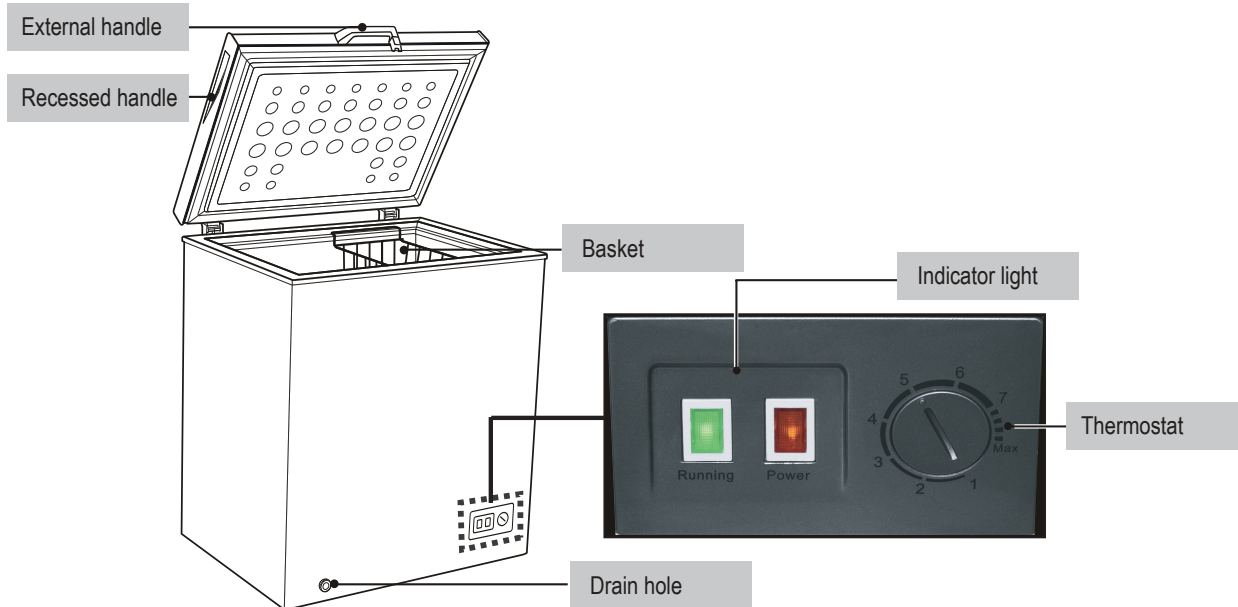
#### CAUTION

Appliances's manufactures storage recommendations should be strictly adhered to refer to relevant instructions.  
Do not place carbonated or fizzy drinks in the freezer compartment as it creates pressure on the container, which may cause it to explode, resulting in damage to the appliances. Ice lollies can cause frost burns if consumed straight from the appliances.

# How to operation

## Overview

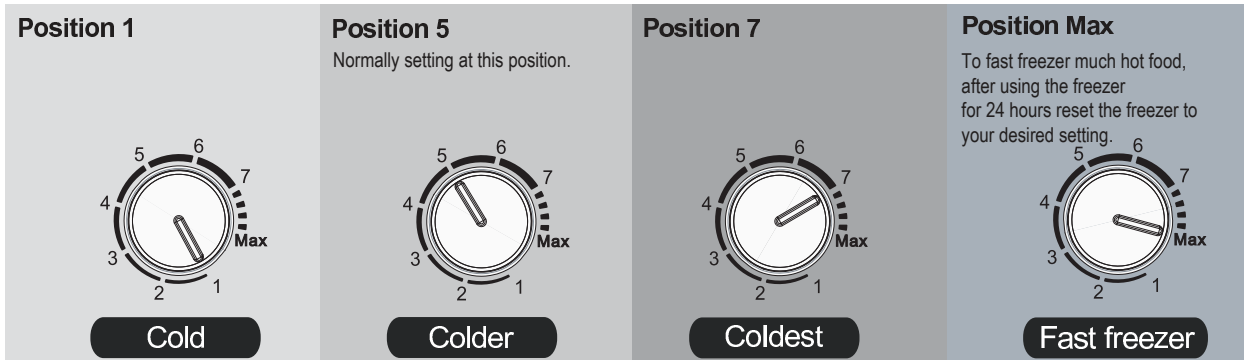
1



## Temperature Setting

2

- Set the temperature, on the temperature control knob.



- The appliances may not operate at the correct temperature if it is in a particularly hot or if you open the door often.

3

## Daily use

### Freezing fresh food

- The freezer compartment is suitable for freezing fresh food and storing frozen and deep-frozen food for a long time.
- Place the fresh food to be frozen in the bottom compartment.
- The maximum amount of food that can be frozen in 24 hours is specified on the rating plate.
- The freezing process lasts 24 hours: during this period do not add other food to be frozen.

### Storing frozen food

- When first starting-up or after a period out of use. Before putting the product in the compartment let the appliances run at least 2 hours on the higher settings.

**Important!** In the event of accidental defrosting, for example the power has been off for longer than the value shown in the technical characteristics chart under "rising time", the defrosted food must be consumed quickly or cooked immediately and then re-frozen (after cooked).

### Thawing

- Deep-frozen or frozen food, prior to be used, can be thawed in a fridge compartment or at room temperature, depending on the time available for this operation.
- Small pieces may even be cooked still frozen, directly from the freezer. In this case, cooking will take longer.

# How to operation

4

## Helpful hints and tips

### ■ Hints for freezing

To help you make the most of the freezing process, here are some important hints:

- The maximum quantity of food which can be frozen in 24 hours is shown on the rating plate;
- The freezing process takes 24 hours. No further food to be frozen should be added during this period;
- Only freeze top quality, fresh and thoroughly cleaned, foodstuffs;
- Prepare food in small portions to enable it to be rapidly and completely frozen and to make it possible subsequently to thaw only the quantity required;
- Wrap up the food in aluminium foil or polythene and make sure that the packages are airtight;
- Do not allow fresh, unfrozen food to touch food which is already frozen, thus avoiding a rise in temperature of the latter;
- Lean foods store better and longer than fatty ones; salt reduces the storage life of food;
- Water ices, if consumed immediately after removal from the freezer compartment, can possibly cause the skin to freeze burnt;
- It is advisable to show the freezing in date on each individual pack to enable you removal from the freezer compartment, can possibly cause the skin to be freeze burnt;
- It is advisable to show the freezing in date on each individual pack to enable you to keep track of the storage time.

### ■ Hints for storage of frozen food

- To obtain the best performance from this appliance, you should:
- Make sure that the commercially frozen foodstuffs were adequately stored by the retailer;
- Be sure that frozen foodstuffs are transferred from the food store to the freezer in the shortest possible time;
- Not open the door frequently or leave it open longer than absolutely necessary.
- Once defrosted, food deteriorates rapidly and cannot be refrozen.
- Do not exceed the storage period indicated by the food manufacture.

## Maintenance

1

### Cleaning

For hygienic reasons the appliances interior, including interior accessories, should be cleaned regularly.

- 1) Switch the appliances off and remove the plug from the mains, or switch off or turn out the circuit breaker or fuse.
- 2) Take out all the food. Store them in a cool place, well covered.
- 3) Wipe the appliances clean. It is highly recommended to wiping off smudges immediately. Use soft cloth with lukewarm water to wipe off smudges. If it is difficult to remove smudges, use diluted, pH-balanced washing liquid. After cleaning wipe with fresh water and rub dry. Neatly clean the door gasket, because it gets dirty easily.
- 4) If any droplets remain on the surface of the parts, wipe them off. Accumulation of dust at the condenser increases energy consumption. For this reason carefully clean the condenser at the back of the appliances once a year with a soft brush or a vacuum cleaner.
- 5) Return all parts to their original locations.
- 6) Check and clean the power plug, cord and outlet. After everything is dry place appliances back into service.
- 7) Plug the power cord into the outlet.

#### CAUTION

Danger of electrical shock !

The appliances may not be connected to the mains during cleaning. Before cleaning switch the appliance off and remove the plug from the mains, or switch off or turn out the circuit breaker or fuse. Do not do the following, since parts and paint may be damaged.

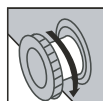
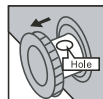
- 1) Do not clean the appliances with a steam cleaner.
- 2) Do not splash water to the doors and appliances body. It may cause electric shock or a fire. It may cause refrigerant leakage because of pipe rust.
- 3) Do not use following Polishing powder, soap powder, boiling water, brush, acid, benzene, thinner, alcohol or alkaline detergent, etc. Do not use any abrasive cleaners. It may damage door surface. It may crack plastic parts.
- 4) If the cooking oil smears on the appliances, please wipe it immediately. Otherwise, the plastic parts might be cracked.

2

### Defrosting

The freezer, however, will become progressively covered with frost. This should be removed. Never use sharp metal tools to scrape off frost from the evaporator as you could damage it. However, when the ice becomes very thick on the inner liner, complete defrosting should be carried out as follows:

- Unplug the unit. Remove the drain plug from the inside of the freezer. Defrosting usually takes a few hours. To defrost faster keep the freezer door open.
  - For draining, place a tray beneath the outer drain plug. Pull out the drain dial.
  - Rotate the drain dial 180 degree. This will let the water flow out in the tray. when done, push the drain dial in. Replug the drain plug inside the freezer compartment.
  - Wipe the interior of the freezer and replace the electrical plug in the electrical outlet.
  - Reset the temperature control to the desired setting.
- 1) If the condenser is at back of appliances.



#### NOTICE

- Monitor the container under the drain to avoid overflow.

6



# Troubleshooting



## CAUTION

**Before troubleshooting :** Disconnect the power supply. Only a qualified electrician of competent person must do the troubleshooting that is not in this manual.

**Important!** There are some sounds during normal use (compressor, refrigerant circulation).

Problem	Things to check	Instructions	Page
Appliances dose not work.	<ul style="list-style-type: none"> <li>• Mains plug is not plugged in or is loose.</li> <li>• Fuse has blown or is defective.</li> <li>• Socket is defective.</li> </ul>	<ul style="list-style-type: none"> <li>• Insert mains plug.</li> <li>• Check fuse, replace if necessary.</li> <li>• Mains malfunctions are to be corrected by an electrician.</li> </ul>	-
Appliances freezes too much.	<ul style="list-style-type: none"> <li>• Temperature is set to cold or the appliances runs at MAX setting.</li> </ul>	<ul style="list-style-type: none"> <li>• Turn the temperature regurator to a warmer setting temporarily.</li> </ul>	-
The food is not frozen enough.	<ul style="list-style-type: none"> <li>• Temperature is not properly adjusted.</li> <li>• Door was open for an extended period.</li> <li>• A large quantity of warm food was placed in the appliances within the last 24 hours.</li> <li>• The appliances is near a heat source.</li> </ul>	<ul style="list-style-type: none"> <li>• Please look in the initial Temperature setting section.</li> <li>• Open the door only as long as necessary.</li> <li>• Turn the temperature regulation to a colder setting temporarily.</li> <li>• Please look in the installation location section.</li> </ul>	-
Heavy build-up of frost on the door seal.	<ul style="list-style-type: none"> <li>• Door seal is not air-tight.</li> </ul>	<ul style="list-style-type: none"> <li>• Carefully warm the leaking sections of the door seal with a hair dryer (on a cool setting). At the same time shape the warmed door seal by hand such that it sits correctly.</li> </ul>	-
Unusual noises	<ul style="list-style-type: none"> <li>• The appliances is touching the wall or other objects.</li> <li>• A component, e.g. a pipe, on the rear of the appliances is touching another part of the appliances or the way.</li> </ul>	<ul style="list-style-type: none"> <li>• Move the appliances slightly.</li> <li>• If necessary, carefully bend the component out of the way.</li> </ul>	-

## Dew or Frost is generated

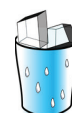
General operation	Please check here	Possible causes and / or Recommended solutions
Frost or ice is generated in the appliances	The door of the appliances was not left open temporarily?	Check that the wrapping paper of the food is not getting caught in order not to make gap between door and door gasket when you close the door.
	The door of the appliances was not opened frequently or longer time than necessary?	When the door is opened frequently or if the door is opened when the humidity around the appliances is high, moisture in the air may be turned into some frost or ice on the inner wall or component of the appliances, or around the air channels. This is not a failure. Please try not to open the door too many times or for a long time. Also, please wipe frost or ice generated in the appliances off with use of a dry cloth.
	Making extra ice by using an additional ice-tray which was not originally installed in the appliances?	When the many containers in which water or liquid is stored are put in the same time, water or liquid may be evaporated and turned into frost or ice on the wall or component of the appliances, or around the air channels. You can suppress these f rost and ice by putting lid to avoid evaporation. Please wipe frost and ice off with use of a dry cloth.

### Why frost and dew are generated?

When warm and humid air contacts something cold, dew is generated. For example, if you put some ice in the glass in your room, air around the glass will be cold down and some dew may be generated on the outer surface of the glass.

In the same way, when warm and humid air enters into the appliances at the door opening, the warm and humid air contacts cold inner wall and little dew may be generated.

Accordingly, if the door opening is too frequent or too long, dew will be accumulated at every door opening. In some cases, dew may be frozen to generate some frost or ice flakes in the appliances.



# Safety information

## ■ Service

Any electrical work required to do the servicing of the appliances should be carried out by a qualified electrician or competent person. This product must be serviced by an authorized Service Center, and only genuine spare parts must be used.


## ■ Energy saving

Don't put hot food in the appliances;  
Don't pack food close together as this prevents air circulating;  
Make sure food don't touch the back of the compartment(s) ;  
If electricity goes off, don't open the door(s);  
Don't open the door(s) frequently;  
Don't keep the door(s) open for too long time;  
Don't set the thermostat on exceeding cold temperatures;  
Some accessories, such as drawers, can be remove to get larger storage volume and lower energy consumption.

## ■ Environment Protection



This appliances does not contain gasses which could damage the ozone layer, in either its refrigerant circuit or insulation materials. The appliances shall not be disgarded together with the urban refuse and rubbish. The insulation foam contains flammable gases: the appliances shall be dispose according to the appliances regulations to obtain from your local authorities. Avoid damaging the cooling unit, especially the heat exchanger. The materials used on this appliances marked by the symbol ♻ are recyclable.

The sybol  on the product or on the packaging indicates that this product may not be treated as household waste. Instead it should be taken to the appropriate collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negcative consequences for the environment and human health, which could otherwise be caused by inabppropriate waste handling of the product. For more detailed information about recycling of this product, please contact your local council, your household waste disposal service or the shop where you purchased the product.

## ■ Packing materials

The materials with the symbol recyclable. Dispose the packing in a suitable collection containers to recycle it.

## ■ Disposal in the appliance

1. Disconnect the mains plug from the mains socket.
2. Cut off the mains cable and disgard it.

# Service Center

- Before you request repair, please check the appliances 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

- Telephone number is subject to change without notice.

### About Non-fluorocarbon appliances

- This appliances, 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. Appliances 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.