Thank you very much for buying this HITACHI product. Before using your HITACHI refrigerator, please read this operation manual to ensure that you gain the maximum benefit from your new refrigerator.
SAFETY SUGGESTIONS
Suggestions below are very important for safety use of the refrigerator.

- Plug in refrigerator to the proper wall outlet, properly fused according to its electrical ratings. An individual appliance circuit from fuse box is preferable.
- 將電源插頭插進適當的牆壁插座 (按額定電流使用適當保險絲)。如能接在專用電源線則更佳。

- Handle the power cord carefully.
  A damaged power cord will cause troubles such as fire or a short circuit.
  Do not let the power cord touch the hot parts at the back of the refrigerator.
  Do not wind or bundle the power cord, or it will overheat.
  When you pull out the power cord from the wall outlet, grasp the plug and pull it straight forward. If you pull the cord, the cord and plug could be damaged.
- 若電源線損壞就會燒毀或短路，使用時請為留意。
  電源線應避免接觸到熱源，否則電源線會因過熱而損壞。手持電源插頭時，切勿搖動電源插座，以免損壞。

- In case of gas leak, ventilate the area by opening a window, etc. Do not touch the refrigerator or the power outlet.
- 萬一發生瓦斯氣漏事故，請勿用手去觸摸雪櫃和插座，要打開窗戶通風。

- When replacing the lamp bulb, unplug the refrigerator first to prevent electric shock.
- 僅在更換雪櫃內的燈泡時，要先拔掉電源插頭。

- Dust deposited on the power plug may cause fire. Wipe it off carefully.
- 電源插頭上積滿灰塵是引起火災的原因。因此，請時常將其擦淨。

- When cleaning your refrigerator, do not splash water directly on the outer cabinet or the interior. This may lead to rusting and deterioration of the electrical insulation.
- 擦拭雪櫃時，請勿直接將水灑在雪櫃的內外。這樣會導致生鏽及漏電。

- Do not use flammable sprays such as lacquer and paint near the refrigerator, because there is a danger if it ignites.
- 不可在雪櫃旁邊使用易燃性的噴漆，因這樣是有著火的危險。

- Highly volatile and inflammable materials such as ether, petrol, propane gas, adhesive agents and pure alcohol, etc. are liable to explode. Do not store these.
- 乙醚，汽油，丙烷氣，粘合劑，純乙醇等揮發性物質和易燃性物質有爆炸之危險。請勿將這類物質保存在雪櫃內。此外，請勿在雪櫃附近使用這類物質。
• Drugs, 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 remodel this refrigerator. Also other than repair technicians, do not disassemble or repair it, which can result in fire, electric shock, or injury.

• If any areas adjacent to electrical components have to be cleaned, unplug the refrigerator first to prevent electric shock, then wipe the area with a dry cloth.

• Remove the door gaskets when disposing of the refrigerator. It is dangerous if infants or young children get trapped inside. The door gaskets can be removed by pulling them.

• This refrigerator is not intended for use by young children or infirm persons without supervision. Young children should be supervised to ensure that they do not play with the refrigerator.

• Do not place heavy or easily broken objects on top of the refrigerator. Objects may fall when opening or closing the refrigerator, causing bodily injury.

• Do not install this refrigerator in damp or wet location as the insulator will be faulty to cause leak. Furthermore, condensation may build up on the outside of the refrigerator.

• Wait more than seven minutes to re-start the refrigerator after you stop it once. (If you plug in the refrigerator immediately after you pull the plug, you may not be able to start the refrigerator. It only starts operation after 30 seconds if it is not cold yet.)
SAFETY PRECAUTIONS

Air conditioning Solution (since it is flammable gas, you are required to be careful in the following matters)

- It is prohibited to use sharp articles, such as, sharp iron to abrade or scrape on the refrigerator body.
- It is prohibited to place any articles close to the refrigerator (recommended blank space please see on page 5)
- It is recommended to move refrigerator away from other electric equipment in case of leakage of air conditioning.

Because air conditioning solution is flammable gas and may leak from the refrigerator dangerously to cause fire or explosion. 

- It is prohibited to use sharp articles, such as, sharp iron to abrade or scrape on the refrigerator body.
- It is prohibited to place any articles close to the refrigerator (recommended blank space please see on page 5)
- It is recommended to move refrigerator away from other electric equipment in case of leakage of air conditioning.

Because should there is constant leakage of solution, it may cause fire or explosion.

- If you want to dispose your refrigerator, please contact your dealer or Environment Protection Department for further management.
- Leakage of air conditioning solution may cause fire or explosion.

Leakage of air conditioning solution may cause flame dangerously to cause fire or explosion. 

- Keep ventilation opening, in the appliance enclosure or in the built-in structure, clear of obstruction.
- Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.

- It is prohibited to remove, repair or alter your refrigerator by.
- Leakage of air conditioning solution may cause flame dangerously to cause fire or explosion.

- Damaged bulb

- In case of damaged bulb inside your refrigerator, please contact your dealer or Hitachi Service Center.
**INSTALLATION / 怎樣安放雪櫃**

- Install refrigerator in convenient location away from extreme heat and cold. This refrigerator is designed as a free-standing unit, so don't set it built-in.
- Level refrigerator so it rests solidly on the floor without rocking. The leveling legs are located at front corners. Turn clockwise to raise the corner, counterclockwise to lower it.
- Do not let the back of the refrigerator touch a sink, water splashes are liable to rust.
- Do not cover the cabinet sides by cloth to keep the heat radiating efficiency high.
- The frost on the evaporator, which is hidden in back of the freezer compartment, is melted away by the work of the defrosting heater automatically.
- The defrosted water drains into the evaporating pan and evaporates automatically.
- Any moisture on the exterior surface of the doors, due to condensation, will be absorbed back into the atmosphere.
- The water tank for water dispenser is located inside the freezer compartment.

**LIMITED WARRANTY**

- Warranty period for the refrigerator is one year from the date of purchase.
- The warranty covers any defects in materials and workmanship.

**HOW TO ADJUST FRONT LEGS**

1. Pull the front grille toward you to remove.  
2. Turn adjustable legs clockwise so that adjustable legs touch floor firmly.  

**VITAL INSTRUCTIONS**

- Use the appropriate product as specified in the manual.
- Keep the product in a clean and dry environment.
- Do not use the product in hazardous environments.

**PARTS IDENTIFICATION / 各部名稱**

- **GLASS SHELVES** - 玻璃層架
- **CONTROL PANEL** - 調整板
- **FRESH ROOM** - 調整板
- **VEGETABLE COMPARTMENT** - 調整板
- **LEVELING LEGS** - 窗檯
- **DOOR POCKET** - 門袋
- **WATER TANK** - 水箱
- **WHEELS** - 輪

**DEFROSTING**

- You never have to defrost either compartments. The frost on the evaporator, which is hidden in back of the freezer compartment, is melted away by the work of the defrosting heater automatically.
- The defrosted water drains into the evaporating pan and evaporates automatically.
TEMPERATURE CONTROL / 温度控制

TEMPERATURE OF FRESH FOOD COMPARTMENT
- Set the dial to “N” for normal use. If the temperature of the fresh food compartment is too warm or too cold, adjust the dial. It is not necessary for you to re-adjust the dial after you find the proper setting.

<table>
<thead>
<tr>
<th>Dial</th>
<th>Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>“WARM”</td>
<td>For a warmer temperature</td>
</tr>
<tr>
<td>“N”</td>
<td>For normal use</td>
</tr>
<tr>
<td>“COLD”</td>
<td>For a colder temperature</td>
</tr>
</tbody>
</table>

- If you turn the dial to “COLD” the temperature drops and to “WARM” the temperature rises.
- “COLD” position will lower the inside temperature 2 or 3°C and “WARM” position will raise the inside temperature 2 or 3°C.

TEMPERATURE OF FREEZER COMPARTMENT
- Set the dial to “N” for normal use. For most efficient use, adjust the dial according to freezer usage.

<table>
<thead>
<tr>
<th>Dial</th>
<th>Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>“COLD”</td>
<td>For quick ice-making and food freezing.</td>
</tr>
<tr>
<td>“N”</td>
<td>For normal use and for storing frozen food for a long time.</td>
</tr>
<tr>
<td>“WARM”</td>
<td>For storing ice cubes and save electricity.</td>
</tr>
</tbody>
</table>

- “COLD” position will lower the inside temperature 2 or 3°C and “WARM” position will raise the inside temperature 2 or 3°C.

QUICK FREEZING 快速冰凍
- When the quick freeze button is pressed, the indicator lights and the quick freezing starts.
- To turn off this operation, press the button again. The indicator will go off.
- Put the food to be frozen in the upper freezer case in the freezing compartment.

Quick freezing is completed in about 2 hours. After completing this operation, the set returns to normal operation automatically.

If a power failure occurs during the quick freezing operation the quick freezing operation is released. After the power is recovered, press the button again. If the power plug is pulled out during the quick freezing operation, do the same thing.

- 按下 QUICK FREEZE (快速冰凍) 開關時指示燈點亮而開始“快速冰凍運作”。
- 要停止快速冰凍時將這開關再按一次，這時指示燈熄滅。
- 要冰凍的食品請放在冰凍箱內的上冰凍箱。

2 小時後快速冰凍運作會停止，然後本機自動回到正常運轉狀態。

快速冰凍運轉中如發生了停電的話，“快速冰凍運轉”狀態就被解除。停電完了後請再度按下開關。拔出了電源插頭後的情形也相同。
**DOOR ALARM**

When the fresh food compartment door or freezer compartment door has been opened more than one minute, door alarm keep on ringing. Close the door, then stop the door alarm.

- **Stop the function of door alarm**
  When you push the control button of "QUICK FREEZE" more than 3 seconds, then you can stop the function of door alarm.

- **Set up again the function of door alarm**
  When you push the control button same as action while the function of door alarm is stopped, you can set up the function again.

**MALFUNCTION INDICATOR**

The flashing of ice making lamp indicates malfunction of automatic icemaker, temperature control or anti-freeze mechanism. Please contact Hitachi Service Center.

- If you change the lamp, follow the following process:
  Unplug power cord. Remove the shelves as page 8, and remove the lamp cover as shown.
  Turn and remove the lamp, and change to the new lamp.
  The rating of the lamp is 240V 10W. Install the lamp cover, and plug in power cord.

- If you change the lamp, follow the following process:
  Unplug power cord. Remove the shelves as page 8, and remove the lamp cover as shown.
  Turn and remove the lamp, and change to the new lamp.
  The rating of the lamp is 240V 10W. Install the lamp cover, and plug in power cord.

- If you change the lamp, follow the following process:
  Unplug power cord. Remove the shelves as page 8, and remove the lamp cover as shown.
  Turn and remove the lamp, and change to the new lamp.
  The rating of the lamp is 240V 10W. Install the lamp cover, and plug in power cord.

- If you change the lamp, follow the following process:
  Unplug power cord. Remove the shelves as page 8, and remove the lamp cover as shown.
  Turn and remove the lamp, and change to the new lamp.
  The rating of the lamp is 240V 10W. Install the lamp cover, and plug in power cord.

- If you change the lamp, follow the following process:
  Unplug power cord. Remove the shelves as page 8, and remove the lamp cover as shown.
  Turn and remove the lamp, and change to the new lamp.
  The rating of the lamp is 240V 10W. Install the lamp cover, and plug in power cord.

- If you change the lamp, follow the following process:
  Unplug power cord. Remove the shelves as page 8, and remove the lamp cover as shown.
  Turn and remove the lamp, and change to the new lamp.
  The rating of the lamp is 240V 10W. Install the lamp cover, and plug in power cord.

- If you change the lamp, follow the following process:
  Unplug power cord. Remove the shelves as page 8, and remove the lamp cover as shown.
  Turn and remove the lamp, and change to the new lamp.
  The rating of the lamp is 240V 10W. Install the lamp cover, and plug in power cord.

- If you change the lamp, follow the following process:
  Unplug power cord. Remove the shelves as page 8, and remove the lamp cover as shown.
  Turn and remove the lamp, and change to the new lamp.
  The rating of the lamp is 240V 10W. Install the lamp cover, and plug in power cord.

- If you change the lamp, follow the following process:
  Unplug power cord. Remove the shelves as page 8, and remove the lamp cover as shown.
  Turn and remove the lamp, and change to the new lamp.
  The rating of the lamp is 240V 10W. Install the lamp cover, and plug in power cord.

- If you change the lamp, follow the following process:
  Unplug power cord. Remove the shelves as page 8, and remove the lamp cover as shown.
  Turn and remove the lamp, and change to the new lamp.
  The rating of the lamp is 240V 10W. Install the lamp cover, and plug in power cord.

- If you change the lamp, follow the following process:
  Unplug power cord. Remove the shelves as page 8, and remove the lamp cover as shown.
  Turn and remove the lamp, and change to the new lamp.
  The rating of the lamp is 240V 10W. Install the lamp cover, and plug in power cord.

- If you change the lamp, follow the following process:
  Unplug power cord. Remove the shelves as page 8, and remove the lamp cover as shown.
  Turn and remove the lamp, and change to the new lamp.
  The rating of the lamp is 240V 10W. Install the lamp cover, and plug in power cord.

- If you change the lamp, follow the following process:
  Unplug power cord. Remove the shelves as page 8, and remove the lamp cover as shown.
  Turn and remove the lamp, and change to the new lamp.
  The rating of the lamp is 240V 10W. Install the lamp cover, and plug in power cord.

- If you change the lamp, follow the following process:
  Unplug power cord. Remove the shelves as page 8, and remove the lamp cover as shown.
  Turn and remove the lamp, and change to the new lamp.
  The rating of the lamp is 240V 10W. Install the lamp cover, and plug in power cord.

- If you change the lamp, follow the following process:
  Unplug power cord. Remove the shelves as page 8, and remove the lamp cover as shown.
  Turn and remove the lamp, and change to the new lamp.
  The rating of the lamp is 240V 10W. Install the lamp cover, and plug in power cord.

- If you change the lamp, follow the following process:
  Unplug power cord. Remove the shelves as page 8, and remove the lamp cover as shown.
  Turn and remove the lamp, and change to the new lamp.
  The rating of the lamp is 240V 10W. Install the lamp cover, and plug in power cord.

- If you change the lamp, follow the following process:
  Unplug power cord. Remove the shelves as page 8, and remove the lamp cover as shown.
  Turn and remove the lamp, and change to the new lamp.
  The rating of the lamp is 240V 10W. Install the lamp cover, and plug in power cord.

- If you change the lamp, follow the following process:
  Unplug power cord. Remove the shelves as page 8, and remove the lamp cover as shown.
  Turn and remove the lamp, and change to the new lamp.
  The rating of the lamp is 240V 10W. Install the lamp cover, and plug in power cord.

- If you change the lamp, follow the following process:
  Unplug power cord. Remove the shelves as page 8, and remove the lamp cover as shown.
  Turn and remove the lamp, and change to the new lamp.
  The rating of the lamp is 240V 10W. Install the lamp cover, and plug in power cord.

- If you change the lamp, follow the following process:
  Unplug power cord. Remove the shelves as page 8, and remove the lamp cover as shown.
  Turn and remove the lamp, and change to the new lamp.
  The rating of the lamp is 240V 10W. Install the lamp cover, and plug in power cord.

- If you change the lamp, follow the following process:
  Unplug power cord. Remove the shelves as page 8, and remove the lamp cover as shown.
  Turn and remove the lamp, and change to the new lamp.
  The rating of the lamp is 240V 10W. Install the lamp cover, and plug in power cord.
HOW TO INSTALL AND REMOVE PARTS

FOLDABLE-SHELF

- Lift inner part and pull toward the front.
  將裡面提起，再往前拉出。

- Put the shelf in the inner area, when you want to use please pull the upper part.
  可以摺的層架藏在裡面，如果要用的時候拉上面出來。

FRESH ROOM

- Remove the "FRESH ROOM" as shown below.
  如下圖所示方法，取出冰溫，寒溫保鮮箱的部件。

  Do not store more than 3kg in the "FRESH ROOM" or it may be broken.
  在冰溫保鮮箱內不可存放3公斤以上的食物，否則，會損壞冰溫保鮮箱。

FOLDABLE-SHELF

- Usable & normal-conditioned shelf.
  正常使用的層架。

- When put high-shaped and very large food.
  擺放比較高及大型的食品。

- When put high-shaped food please put on the front part.
  比較高締的食品，應該擺放在前面。

- Raise the shelf a little bit and push inward.
  層架稍微抬起一點，然後把它推進去。

- After you press to the furthest inside part, raise the front part of the shelf around 1 cm and put it in the inner side.
  雖深按下去之後，把前面層架拉起來1公分，然後豎立在裡面。

※ Please do not put any material whose weight is 10kg up on the foldable-shelf because it may mark the shelf distort its shape and break.
  請勿把超重10公斤的東西放在可以折的層架上面，因為會將層架變形及破掉。

MILK

- Please do not put any material whose weight is 10kg up on the foldable-shelf because it may mark the shelf distort its shape and break.
  請勿把超重10公斤的東西放在可以折的層架上面，因為會將層架變形及破掉。
Remove the door pocket as shown.

To remove slide case, lift it up as shown.

Pull out the vegetable compartment door, and lift up slide case and vegetable case as shown.

To remove lower freezer case, lift it up as shown.

Lower freezer case is for large-sized food and those that need to be stored over an extended time period.

Do not store more than 11kg in the case. It may become deformed or be broken.

Make sure food is stored below the indication line. Otherwise food touches the slide case above and it prevents the door to be closed properly and cooling efficiency suffers. Food and the slide case may be also damaged.

Do not store more than 4.3kg in the vegetable case or it may be broken.

Do not store more than 12kg in the vegetable case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 11kg in the lower freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.

Do not store more than 4.6kg in the upper freezer case or it may be broken.
HOW TO USE AUTOMATIC ICE MAKER

自動製冰機使用方法

Supply water to the water tank and set it: Ice making will be done automatically.

- 將水注入供水箱，再將供水箱裝入製冰箱內後，製冰機即可開始自動製冰。

Ice will collect in the ice cube box automatically. (When ice supply is low, the sound of ice dropping is clearly audible.)

- 水箱內的冰塊會被自動積存在冰塊箱內，冰塊儲存量較少時，可清晰地聽到冰塊的掉落聲。

Taking out ice cubes

- 藉用冰勺，由後向前取出冰塊。然後將冰勺放回原位。

Using the ice maker for the first time:

- Do not pour liquid except drinking water into the water tank. It may cause a trouble.
- If water tank was dropped, make sure that water is not leaking from the tank.
- Do not put any other liquid, such as juice, hot water, etc., into the water tank. Doing so could cause deformation of tank. (Heat-resistant temperature: 50°C)

Note

- Do not put anything other than ice in the inner part of ice cube box, such as frozen foods, ice cream, etc. If food touches ice detection lever or ice tray, ice making may stop.
- Do not touch ice detection lever or ice tray with your hands: You may be injured if ice tray turns.
- Do not put any other liquid, such as juice, hot water, etc, into the water tank. Doing so could cause deformation of tank. (Heat-resistant temperature: 50°C)

Support water to the water tank and set it: Ice making will be done automatically.

- 將水注入供水箱，再將供水箱裝入製冰箱內後，製冰機即可開始自動製冰。

冰塊會被自動積存在冰塊箱內，冰塊儲存量較少時，可清晰地聽到冰塊的掉落聲。

- 轉而釋放冰塊時，可聽到馬達和電磁閥的運轉聲。當供水箱空的時候（不使用時），也會聽到運轉聲，但這並不是故障。

※ Note

- 請勿將冰凍食品，冰淇淋，保冷劑等冰塊以外的東西放在冰
  噴箱隔板的內側，否則，食品等物會碰到儲冰量檢測桿和製冰盤
  而導致製冰機停止製冰。
- 手不得碰到製冰盤或儲冰量檢測桿，否則，製冰盤轉動時，會弄
  傷您的手。

- 剛開始使用時
  • 多次掉入冰塊箱內，並且作製冰機時，因為冰
    噴室溫度不夠低，第一次製作冰霜的需要 24 小時。
  • 將水注入供水箱後，再將供水箱裝入製冰箱內。
  • 打開供水箱蓋子。
  • 將水注入供水箱。
  • 將供水箱一直推到底。

- 剛開始使用時
  • 請勿將飲料水之外的液體注入供水箱，否則會引起
    鎖固。
  • 不小心將供水箱掉在地上時，必須確認水是否從水
    箱溢出。
  • 請勿將水以外的果汁，開水等注入供水箱，否則會
    引起供水箱的變形和供水泵的故障 (耐熱溫度為
    50°C)。

- 取出冰塊
  用冰勺從內側向外取出冰塊。取冰杓用完後，請
  將其放回原来的規定位置。
• Do not open/close freezer door with force. Doing so may cause ice cubes to fall to the inner side so that the freezer door cannot be closed completely.

• If ice cubes heap up, they may fall to the inner side so that the door cannot be closed: Keep the ice cubes below the ice cube box, due to structure of the ice maker.

• Set the ice scoop in the specified position.

• Do not put anything, such as frozen foods, ice cream other than ice in the cube box. If you do so, they may touch the ice detection lever or ice tray, and ice making may stop.

- • 請勿用力開關冰凍室門，否則冰塊會掉入內側，從而無法完全關閉冰凍室門。
- 冰塊堆成局部的小堆時，冰塊可能會掉入內側，從而無法完全關閉冰凍室門。
- 因此，請將冰塊堆平（從製冰機構上來講，冰塊箱無法儲滿冰塊）。
- 請將取冰槽放在規定位置。
- 請勿將冰凍食品、冰淇淋、保冷劑等冰塊以外的東西放在冰塊箱內，否則，食品等物會碰到儲冰量檢測桿和製冰盤而導致製冰機停止製冰。

**HOW TO SET TEMPORARY STOP/STOP MODE**

**暫時停止法與停止法**

During ice making operation, the indicator (green lamp) is off. Ice making operation will automatically stop when a fixed amount of ice cubes has collected. To assure a steady ice supply, ice maker will start after a fixed time has elapsed. Ice making operation can be set to temporary stop mode or full stop mode for a long period of time.

### Pressing once sets "TEMPORARY STOP"

Pressing once sets "TEMPORARY STOP" and setting is: "TEMPORARY STOP".

### Pressing twice sets "STOP"

Pressing it twice sets "STOP" and setting is: "STOP".

### Pressing three times releases the setting.

Pressing it three times releases the setting, and setting is: "STOP".

### Set to "Temporary stop of ice making" if the sound of falling ice cubes bothers you:

- After the switch is pressed, quiet operation will continue for about eight hours, with ice making operation temporarily stopped.
- When the switch has been set once, quiet operation with temporary stop of ice making will start at the set time every day until the switch is released.
- If power plug is disconnected or power failure occurs, setting of "Temporary stop of ice making" is released. In this case, set again.

### Set to "Stop of ice making" if ice will not be needed for a long time:

- After "Stop of ice making" is set, clean using the following the procedure.
- Remove water from tank. Wash water tank, ice scoop, and water supply cap.
- Install after they are dried.

**Note**

- Ice cubes being made in the ice tray will be released to the ice cube box even after ice making operation stops.
- If power plug is disconnected or power failure occurs, setting of "stop of ice making" is released. In this case, set again.
- Before auto ice maker is to be used again after stopping, clean each part. Remove ice cubes made first time (about 30 cubes), since odor or dust may adhere to them.

### Pressing once sets "TEMPORARY STOP"

Pressing once sets "TEMPORARY STOP" and setting is: "TEMPORARY STOP".

### Pressing twice sets "STOP"

Pressing it twice sets "STOP" and setting is: "STOP".

### Pressing three times releases the setting.

Pressing it three times releases the setting, and setting is: "STOP".

### Set to "Temporary stop of ice making" if the sound of falling ice cubes bothers you:

- After the switch is pressed, quiet operation will continue for about eight hours, with ice making operation temporarily stopped.
- When the switch has been set once, quiet operation with temporary stop of ice making will start at the set time every day until the switch is released.
- If power plug is disconnected or power failure occurs, setting of "Temporary stop of ice making" is released. In this case, set again.

### Set to "Stop of ice making" if ice will not be needed for a long time:

- After "Stop of ice making" is set, clean using the following the procedure.
- Remove water from tank. Wash water tank, ice scoop, and water supply cap.
- Install after they are dried.

**Note**

- Ice cubes being made in the ice tray will be released to the ice cube box even after ice making operation stops.
- If power plug is disconnected or power failure occurs, setting of "stop of ice making" is released. In this case, set again.
- Before auto ice maker is to be used again after stopping, clean each part. Remove ice cubes made first time (about 30 cubes), since odor or dust may adhere to them.

### Pressing once sets "TEMPORARY STOP"

Pressing once sets "TEMPORARY STOP" and setting is: "TEMPORARY STOP".

### Pressing twice sets "STOP"

Pressing it twice sets "STOP" and setting is: "STOP".

### Pressing three times releases the setting.

Pressing it three times releases the setting, and setting is: "STOP".

### Set to "Temporary stop of ice making" if the sound of falling ice cubes bothers you:

- After the switch is pressed, quiet operation will continue for about eight hours, with ice making operation temporarily stopped.
- When the switch has been set once, quiet operation with temporary stop of ice making will start at the set time every day until the switch is released.
- If power plug is disconnected or power failure occurs, setting of "Temporary stop of ice making" is released. In this case, set again.

### Set to "Stop of ice making" if ice will not be needed for a long time:

- After "Stop of ice making" is set, clean using the following the procedure.
- Remove water from tank. Wash water tank, ice scoop, and water supply cap.
- Install after they are dried.

**Note**

- Ice cubes being made in the ice tray will be released to the ice cube box even after ice making operation stops.
- If power plug is disconnected or power failure occurs, setting of "stop of ice making" is released. In this case, set again.
- Before auto ice maker is to be used again after stopping, clean each part. Remove ice cubes made first time (about 30 cubes), since odor or dust may adhere to them.
To prevent “water slime” and / or “scum”, wash the water supply tank once a week.

When the ice making machine has never been used for a long time, take the water supply tank out and make it dry properly before returning it to the right position inside the refrigerator. Turning the automatic ice making machine off is recommended.

If the automatic ice making machine is still on while taking the water supply tank out, it is usual to hear water pumping sound sometime.

As seen in the figure below, press the central front part of the lid to lift it up.

To close the lid, make sure that the grips at the back are still holding the lid, then close the lid down in the direction as shown below.

Remove the case from the lid by turning it in the direction as shown below.

While pressing the knob, remove the water filter from the bottom of the case.

Wash the water filter with soft sponge.

Do not use kitchen soap or bleaching agent.

The water filter is torn easily; therefore do not stab it with sharp stick.

Can not be used if the water filter is torn.
Odor or dust might prevail when the ice tray is not in use for more than a week or when just starting to use the ice tray. Please clean the water piping or ice tray.

1. Refresh the water in water tank and set it properly.
2. Empty the water storage corner inside the freezer and lay a clean tablecloth or towel at the bottom.
3. Upon confirming that the freezer door is closed, press and hold ice-making button for more than five seconds. Alarm will beep and the cleaning process begins.
   - Alarm keeps beeping during cleaning process.
4. Cleaning process completes in approximately three minutes.
   - Alarm stops beeping when cleaning process is completed.
5. Remove the ice or water left in side the water storage corner and tablecloth or towel.

**CAUTION**
- Do not open freezer door once the button is pressed until the completion of cleaning process.
- Water might not drain if ice making paused or ice making stopped were in use. Set to automatic ice making and try resume cleaning after 30 minutes.

製冰盤 Cleaner時或一個星期沒使用過時，也可能會粘上異味或灰塵，請清潔製冰盤及供水管道。

1. 供水箱換上新的水之後把它置於固定位置上。
2. 把冰凍室的儲水間清空之後，在底部舖上抹布或面巾。
3. 確認冰凍室門關上後把製冰開關按住 5 秒以上。“警鈴會發出警聲警音，清洗功能開始啟動”。
   - (警鈴將會在清洗過程中持續響)
4. 清洗過程大約有 3 分鐘就完畢。
   - (清洗完畢後警鈴也會停止)
5. 請使用抹布或棉布來擦拭儲水間內的冰和水。

**警告**
- 一旦開始按鈕，請勿打開冰凍室，直到清洗過程完畢。
- 在製冰暫時停止或製冰停止情況下，水可能不會排出。請設定自動製冰功能，30 分鐘過後再啟動清洗功能。
FOOD STORAGE

INITIAL OPERATION
• Clean refrigerator and parts to remove dust incurred in shipping and packing. See “CLEANING”
• Place all shelves and containers in their proper positions which have been removed for transportation. See “HOW TO INSTALL AND REMOVE PARTS”.
• Store food after the temperature in the refrigerator gets sufficiently low. It takes a few hours after starting the refrigerator to reach the proper temperature.

FOOD STORAGE
• Refrigerated air blow from the rear of the fresh food compartment and goes down along the front. Therefore, store the foodstuffs which require quick refrigeration to the rear of compartment.
• Leave spaces among foodstuffs to help air circulation.
• Foodstuffs which are easily dried should be well wrapped with waxed paper, aluminum foil or plastic wrap.
• Wrap fish and smoked meats in moisture-vapor-proof material to prevent transfer of odors.
• Pre-cool hot foods. Then wrap them with plastic film or put them in an airtight receptacle.
• Wipe off water on the surface of bottles before storing them.
• When you store juicy food, wrap it with plastic film or put it in an airtight receptacle.
• Be sure not to store bottles such as beer, cokes, etc. in the freezer compartment.
• Do not put vegetables which are liable to freeze at the rear part of the shelves.
• If planning to keep fresh fish and meats for a long period, wrap them in freezer paper and store in the freezer compartment.

FROZEN FOODS
• Store frozen foods in the freezer as soon as possible after you purchase them.
• To thaw frozen foods such as fish or meats, place them in the fresh food compartment for several hours before cooking. If you want to thaw food in a hurry, put it in a closed plastic bag and leave it under a running faucet.
• As thawing and cooking methods vary according to the kinds of foods, please read the instructions attached to the purchased frozen foods.
• DO NOT REFREEZE FOODS.
Once it has thawed completely, food should not be refrozen. In an emergency, foods, may be refrozen if food is still firm and ice crystals remain. However, these foods may lose quality and flavor. Use them as soon as possible for they will not keep as long as freshly frozen.

food保存

最初使用時
• 因在運輸和包裝時會沾有塵埃，請参照「清
理」項先清理雪櫃及其附件。
• 所有附件，運輸時皆已包裝妥當，請先將各包
裝用墊物和膠貼紙等取出，並將各附件，依照
適當位置安放。請参照「安裝及移動部件方
法」。
• 等雪櫃內溫度下降後儲放食物。
在首次接通電源後，要達到所期最佳的冷凍效
果，則需要約數小時。

食物保存
• 冷空氣從冷藏室的後面下降，而由前面向上流
昇。因此存放如魚和肉等需要較快至冷的食
物，請將之放在冷藏室的深內側。
• 食品之間須留有空隙，使冷空氣易於循環。
• 易於乾燥的食物，必須以臘紙，鋁箔或塑膠膜
將之包裹好。
• 魚和燻肉須以防漏氣的材料包好，以防氣味散
移。
• 熟的食品須先“放涼”，然後才存放在冷藏室
內。
• 請先將樽瓶抹乾，才放進雪櫃裡。
• 水份較多的食品，請先用封膜膜或密封容器將
之封好，然後放入雪櫃內。
• 請注意切勿將瓶裝啤酒，汽水等存於冰凍室。
• 不要將易被凍壞的蔬菜放在間隔架的深內側。
• 如欲長時間的保存鮮魚，肉類，須以冷凍紙將
之包好並將之存放在冰凍室內。

急凍食品
• 應盡快將購進的急凍食品存放在冰凍室內。
• 欲將急凍食品解凍，如生的魚和肉等，可在烹
煮前數小時，將之放進冷藏室裡。如想急速將
食品解凍，可將之裝入袋袋用來水沖解。
• 由於解凍之烹飪的方法可按食品的種類而有不
同，請閱讀附於採購的急凍食品中之說明。
• 不可重複急凍食品
食品經完全解凍後，切勿再行冷凍。
在必要時及在食品仍凍硬及尚有冰晶時，方可
重行冷凍。不過此時食品的質量和味道可能降
低，更由於不能如最初凍時般的作長時間保
存，故應儘可能早日食用。
CLEANING / WHEN MOVING

CLEANING

- Removable parts may be rinsed with water.
- For cleaning the refrigerator, wipe the refrigerator with a damp cloth or sponge. Mild soap may be used.
- If soap is used, rinse the refrigerator thoroughly with water and wipe it dry.
- Never use a hard brush, harsh, abrasive cleansers, heavy-duty cleansers or solvents, such as paint thinner, benzene, petroleum, soap-power, hot water, acid, etc. on any surface.
- Water splashed on the refrigerator will damage the insulation of the electric parts or rust the metal parts.
  1. Do not splash water on the refrigerator, even when cleaning it.
  2. When cleaning electric parts or such as “SWITCH”, “LAMP” and “CONTROL PANEL”, wring the cloth or sponge well.

WHEN MOVING

Refrigerator can be moved easily by setting leveling legs on the upper side. Cover the floor if it is apt to be scratched. When refrigerator is to be moved while inclined perform the following to prevent water in the water tank, ice tray and/or evaporating pan from spilling.

1. Remove water from water tank and also remove ice from ice tray.
2. Remove water tank and slightly open freezer compartment (upper side).
3. Press the switch (see page 13), and close the freezer compartment quickly. (Water or ice will drop into ice cube box.)
4. Wait for about one minute and open freezer compartment and remove water or ice from ice cube box.
5. Disconnect the power plug.
6. Take out all food inside refrigerator and remove water from evaporating pan.

CLEANING

- Removable parts may be rinsed with water.
- For cleaning the refrigerator, wipe the refrigerator with a damp cloth or sponge. Mild soap may be used.
- If soap is used, rinse the refrigerator thoroughly with water and wipe it dry.
- Never use a hard brush, harsh, abrasive cleansers, heavy-duty cleansers or solvents, such as paint thinner, benzene, petroleum, soap-power, hot water, acid, etc. on any surface.
- Water splashed on the refrigerator will damage the insulation of the electric parts or rust the metal parts.
  1. Do not splash water on the refrigerator, even when cleaning it.
  2. When cleaning electric parts or such as “SWITCH”, “LAMP” and “CONTROL PANEL”, wring the cloth or sponge well.
Before you call for service, check the following items. • 在要求服務前，請先自行檢查下列各點。

1. **The refrigerator does not run.**
   - Check the power supply at the wall outlet.
   - Make sure the power supply cord is plugged firmly.
   - Check the fuse box for blown fuse or tripped circuit breaker.

2. **Food temperature is too warm.**
   - Check the temperature control dial setting. See "TEMPERATURE CONTROL". Check spaces among the foodstuffs. Overcrowded shelves prevent good air circulation.
   - Make sure the refrigerator is not in direct sunlight.
   - Check the spacing at the top, sides and rear of the refrigerator. See "INSTALLATION".
   - Check the door opening-too-frequent and too long.

3. **Food in the fresh food compartment freezes.**
   - Check the temperature control dial setting of the fresh food compartment. See "TEMPERATURE CONTROL".
   - Make sure food storage is proper.

4. **The refrigerator sounds noisy**
   - Check for weak floor.
   - Make sure the refrigerator is installed firmly.
   - Make sure the back of the refrigerator does not touch the wall.

5. **Moisture condenses on the exterior of the cabinet:**
   - When humidity is too high, the cabinet is liable to sweat. This is the same phenomenon as moisture condensing on a glass of iced tea on a hot summer day. If moisture does not disappear, wipe the cabinet with a cloth.

6. **Moisture condenses in the refrigerator.**
   - Have the door been opened often?
   - Is it very humid? Some moisture is normal on humid days. In humid weather air carries moisture into refrigerator when door is opened. The moisture will disappear after running refrigerator for a few hours with door closed.
   - If moisture dose not disappear wipe them with a cloth.

7. **The lamp does not light.**
   - Check that the lamp is not loose. If the lamp remains lit for a long time with the door kept open, the lamp may become loose due to its generation of heat.

8. **Food temperature is too warm.**
   - Check the temperature control dial setting. See "TEMPERATURE CONTROL". Food inside the refrigerator needs to be protected from external temperature.
   - Make sure the refrigerator is not in direct sunlight.
   - Check the spacing at the top, sides and rear of the refrigerator. See "INSTALLATION".
   - Check the door opening-too-frequent and too long.

9. **Food in the fresh food compartment freezes.**
   - Check the temperature control dial setting of the fresh food compartment. See "TEMPERATURE CONTROL".
   - Make sure food storage is proper.

10. **The refrigerator sounds noisy.**
    - Check for weak floor.
    - Make sure the refrigerator is installed firmly.
    - Make sure the back of the refrigerator does not touch the wall.

11. **Moisture condenses on the exterior of the cabinet.**
    - When humidity is too high, the cabinet is liable to sweat. This is the same phenomenon as moisture condensing on a glass of iced tea on a hot summer day. If moisture does not disappear, wipe the cabinet with a cloth.

12. **Moisture condenses in the refrigerator.**
    - If the door has been opened often?
    - Is it very humid? Some moisture is normal on humid days. In humid weather air carries moisture into refrigerator when door is opened. The moisture will disappear after running refrigerator for a few hours with door closed.
    - If moisture does not disappear wipe them with a cloth.

13. **The lamp does not light.**
    - Check that the lamp is not loose. If the lamp remains lit for a long time with the door kept open, the lamp may become loose due to its generation of heat.
8. Ice cannot be made:
- Is the water tank set correctly?
- Is there water in the water tank?
- Did you set “Temporary stop of ice-making” or “Stop of ice-making”?
- It may take about 24 hours to make ice, if freezer is not cool enough, such as on the first time of use.
- Was the door left open?
- Is something such as food, other than ice placed on the inner side of partition plate in the ice cube box?

9. Amount of ice being made is too small:
- Did you open/close door numerous times?
- Did you put too much food in the refrigerator?
- Did you set “Temporary stop of ice-making” or “Stop of ice-making”?

10. Ice smells bad:
- Is water in the tank old?
- Is the water tank or water filter dirty?
- Is strong-smelling food in the refrigerator without wrapping?

11. Ice cubes are melted or too small:
- Did you open/close door numerous times or leave door open for a long time?
- Is the power plug disconnected? Did a power failure occur?
- Have ice cubes been left stored for a long time? If left for a long time, ice cubes may change shape, get stuck to each other.

12. Ice cubes are stuck to each other:
- This may occur if ice cube box is filled with ice cubes.

If the refrigerator does not perform satisfactorily even after the above points have been checked, contact the store from which you bought the refrigerator.

If已作了上述的檢查後，雪櫃仍未能如常運行時，請即與經銷商或本公司服務中心聯絡。

<table>
<thead>
<tr>
<th>THESE ARE NOT DEFECTIVE</th>
<th>這些並非故障</th>
</tr>
</thead>
<tbody>
<tr>
<td>When the refrigerating unit stops, the flow of the refrigerant may make a sound. This is the sound of the refrigerant flowing in the refrigerating unit.</td>
<td>當機器運行停止時，冷媒(雪種)流動而會發出聲音，這並非故障，這是冷媒在冷凍器內循環流動的音響。</td>
</tr>
<tr>
<td>The mullion bar between the vegetable compartment and the freezer compartment is warmed by hot gas pipe. It will sometimes feel warm. But do not worry about stored food.</td>
<td>位於上下層之間的地方是被熱氣管所暖著的，但閣下絕不用擔心雞蛋等儲存食物會有問題。</td>
</tr>
<tr>
<td>Electronic parts which have moving contact point are installed this refrigerator. So you will sometimes hear their sound.</td>
<td>當聽到雪櫃內電氣零件接觸點的移動聲音。在這處位置發出的轉動聲音(如答如答的得的得)可以清楚聽見。</td>
</tr>
</tbody>
</table>

CAUTION
- Refrigerator has heaters for defrosting etc. and so, should the defrost thermostat have a trouble, the inside temperature. At that time, unplug the refrigerator before contacting Hitachi Service Centres.

注意
- 假如除霜溫度計發生故障時，箱內溫度是會比周圍的溫度要高，因為箱內裝有除霜發熱線等之故。此時自插座拔出電源插頭，請即與本公司服務中心聯絡。
WHEN ELECTRICITY FAILS / VACATIONING

WHEN ELECTRICITY FAILS
• Do not open the door if possible. Food may be preserved safely for a few hours even in summer.

WHEN YOU KNOW THERE WILL BE A POWER FAILURE
• Cool the refrigerator as much as possible by setting the dial to “COLD” position.
• Do not stock any new food in the refrigerator.
• Make a lot of ice cubes and put them on the upper shelf in “FRESH FOOD COMPARTMENT”.

VACATIONS
• If you leave the power on, remove perishables and make sure doors are completely closed.
• If you shut off the house power for extended vacations, remove food, defrost and clean interior.
  Wipe dry and leave the door open slightly to prevent formation of odor.
• Oiling is not necessary.

WHEN YOU DISCARD A REFRIGERATOR...
COMPLETELY REMOVE THE DOORS TO PREVENT CHILD ENTRAPMENT. It takes only a moment with a screwdriver. Do this immediately and have the old unit carted away and destroyed before it attracts a child’s curiosity... and endangers his life. When you want to store a refrigerator that will be use again... (1) remove the doors: or (2) use rubber bumpers or wooden blocks to prevent door form closing completely; or (3) chain and padlock tape door closed.
WARNING
- Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
- Do not use electrical appliances inside the food storage compartments of the appliance unless they are of the type recommended by the manufacturer.
- Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.
- Do not damage the refrigerant circuit.
- This refrigerator (this food freezer) shall be protected against indirect contact. Please consult the instructions for use.

Please contact Hitachi Service Center as follows if supply cord is damaged or service is required.
- Hong Kong
  Hitachi ELECTRIC SERVICE CO. (Hong Kong) Limited – Service Department
  18/F., Ever Gain Centre, 28, On Muk Street, Shatin, N.T., Hong Kong
  Tel: +852-2753-0656
  Fax: +852-2753-0993

- Singapore
  Hitachi Home Electronics Asia (S) Pte. Ltd.
  438A Alexandra Road #01-01/02, Alexandra Technopark, Singapore 119967
  Tel: +65-278-7177
  Fax: +65-278-3117

- India
  Hitachi Home & Life Solutions (India) Ltd.
  A-15, Mohan Co-operative Industrial Estate, Mathura Road, New Delhi 110-044, India
  Tel: +91-11-26991366
  Fax: +91-11-26991360

- SERVICE CENTER
  DAI PHU LOC JOINT STOCK COMPANY
  288 Truong Chinh, Ward 13, Tan Binh Dist., Ho Chi Minh City
  Tel: (08) 8122379 Fax: (08) 8498154

This refrigerator complies with the regulations on specified chlorofluorocarbons in 1996.

Refrigerators use chlorofluorocarbons as their cooling and insulation media. These chlorofluorocarbons are noninflammable, are not directly harmful to the human body and have superior properties, so they have contributed to the development of contemporary civilization as one of the most valuable chemicals. However, the specified chlorofluorocarbons used as cleaning agents and in aerosols and “refrigerators” are thought to damage the ozone layer. The production of these chlorofluorocarbons will be abolished by the end of 1995 and a worldwide switch be made to chemicals that have little effect on the ozone layer.

WARNING
- Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
- Do not use electrical appliances inside the food storage compartments of the appliance unless they are of the type recommended by the manufacturer.
- Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.
- Do not damage the refrigerant circuit.
- This refrigerator (this food freezer) shall be protected against indirect contact. Please consult the instructions for use.

Please contact Hitachi Service Center as follows if supply cord is damaged or service is required.
- Hong Kong
  Hitachi ELECTRIC SERVICE CO. (Hong Kong) Limited – Service Department
  18/F., Ever Gain Centre, 28, On Muk Street, Shatin, N.T., Hong Kong
  Tel: +852-2753-0656
  Fax: +852-2753-0993

- Singapore
  Hitachi Home Electronics Asia (S) Pte. Ltd.
  438A Alexandra Road #01-01/02, Alexandra Technopark, Singapore 119967
  Tel: +65-278-7177
  Fax: +65-278-3117

- India
  Hitachi Home & Life Solutions (India) Ltd.
  A-15, Mohan Co-operative Industrial Estate, Mathura Road, New Delhi 110-044, India
  Tel: +91-11-26991366
  Fax: +91-11-26991360

- SERVICE CENTER
  DAI PHU LOC JOINT STOCK COMPANY
  288 Truong Chinh, Ward 13, Tan Binh Dist., Ho Chi Minh City
  Tel: (08) 8122379 Fax: (08) 8498154

This refrigerator complies with the regulations on specified chlorofluorocarbons in 1996.

Refrigerators use chlorofluorocarbons as their cooling and insulation media. These chlorofluorocarbons are noninflammable, are not directly harmful to the human body and have superior properties, so they have contributed to the development of contemporary civilization as one of the most valuable chemicals. However, the specified chlorofluorocarbons used as cleaning agents and in aerosols and “refrigerators” are thought to damage the ozone layer. The production of these chlorofluorocarbons will be abolished by the end of 1995 and a worldwide switch be made to chemicals that have little effect on the ozone layer.