MITSUBISHI ELECTRIC

Refrigerator-Freezers

SERIES MODEL

MR-L650EN

MR-L710EN

OPERATING INSTRUCTIONS



R600a

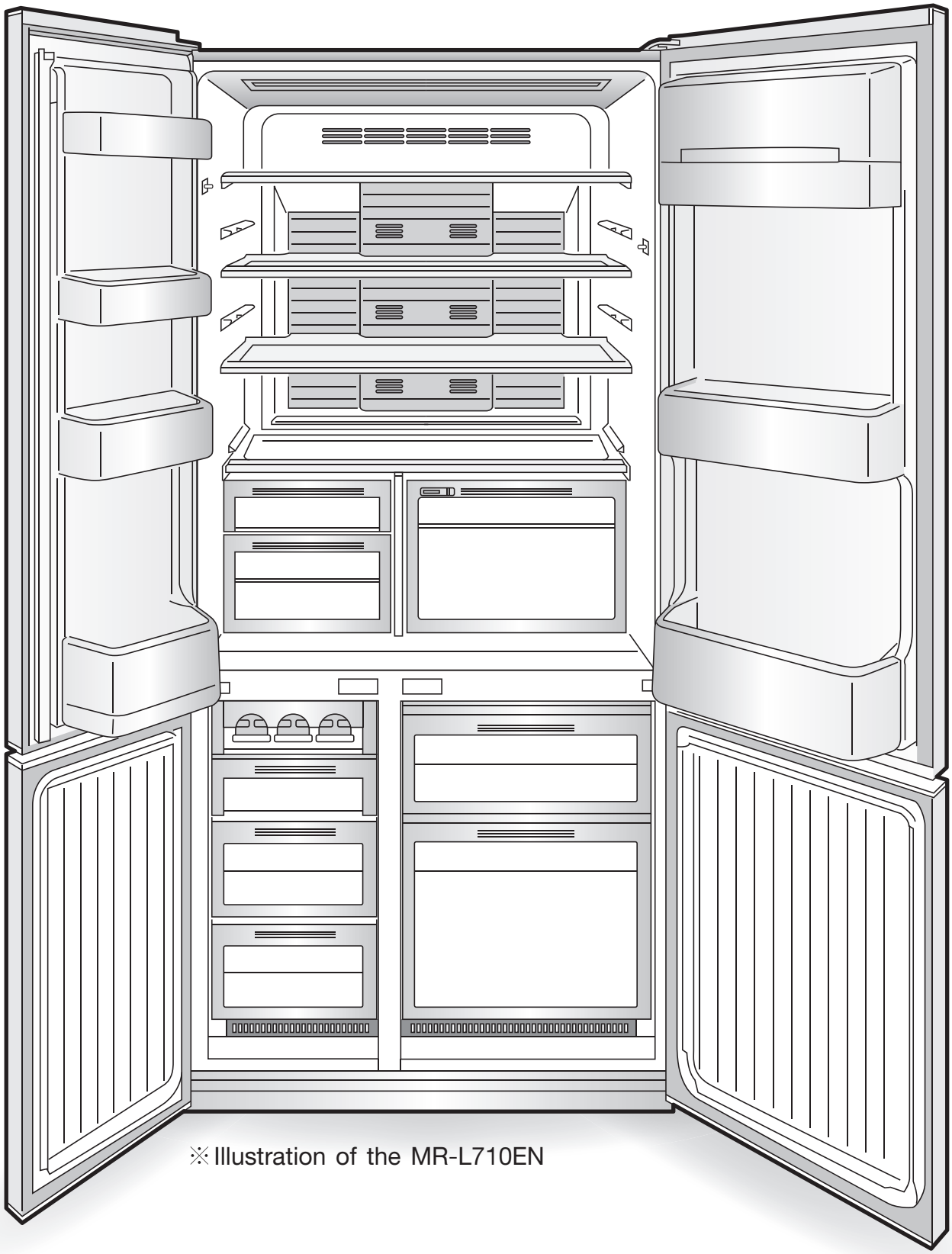
- Please read this manual carefully and follow the information contained within. In particular, be sure to read the safety precautions before using this refrigerator.
- Be sure to receive your copy of the warranty from the retailer and confirm that the purchase date and retailer name are written on the warranty.
- Store this operating instruction manual and the warranty in a safe place.

- This refrigerator was manufactured for refrigerating and freezing of foods in general households. For commercial use, please use a commercial refrigerator-freezer.
- The principal plastic components indicate the material name to facilitate recycling.

Cleaning Instruction - Important!

It is strongly recommended to use only lukewarm water and a soft cloth when cleaning. Cleaning agents can cause cracking to the plastic components of your refrigerator.

Function Overview



※Illustration of the MR-L710EN

- This refrigerator is manufactured for refrigerating and freezing foods in general households. For industrial use, please use a commercial refrigerator-freezer.
- The photographs and illustrations contained in this manual are for the MR-L710EN. While the capacity and dimensions of the MR-L710EN are different from the MR-L650EN the operation is the same.
- The material names are indicated on the main plastic parts to facilitate recycling.

Contents



Vitamin Factory

The vitamins in vegetables are boosted by the LED.

ENERGY SAVING MODE

Use when you want to save power.

When the temperature inside the refrigerator is stable, the power-saving operation is performed automatically.



	Page
For your safety, please be sure to follow these instructions	4-5
From Installation to Operation	6-7
How to Use the Operation Panel	8-9
Refrigerator Compartment	10-11
Freezer Compartment	12
Rapid Cool	13
Rapid Freeze	14
Energy Saving Mode	15
Performing Temperature Adjustment	16
How to remove and clean accessories	17-18
Other Issues	19-22
Troubleshooting	23-24
Accessories	25

For your safety, please be sure to follow these instructions

The types of danger that can result from improper handling are explained in the sections below.

WARNING	Mishandling can lead to serious injury or death.
CAUTION	Mishandling can lead to bodily injury or loss of home and household contents.

■ The symbols illustrated below have the following meanings.

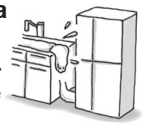
Do not do	Always follow instructions
Do not get wet	Always connect an earth wire
CAUTION	Always unplug electrical plug from socket

WARNING

When installing your unit

Do not get wet

Do not install in an outdoor area where water can get on it or where there is a lot of moisture.



Due to insulation failure, it may cause an electric shock or fire. ➡ Page 6

Always follow instructions

Allow some space around the refrigerator.

If the refrigerant (gas) leaks, it can remain in the area and there's a risk that it may cause a fire or explosion. ➡ Page 6

To be prepared for an earthquake, affix to a strong wall or column.

Not doing so may cause injuries from the refrigerator toppling over. ➡ Page 7

Always connect an earth wire

Attach ground wire and earth leakage breakers when used in a humid or moist area.

(Please consult with the shop). ➡ Page 6

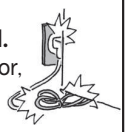
It may cause electric shock and the following ground connection may cause electric shock, explosion and fire.

- Water pipe/gas pipe.
- Telephone ground lines and lightning rod.

About the electrical outlet and electrical plug

Do not do

Do not push the electrical plug with the back of the refrigerator.
Do not damage the electrical cord.



If the plug is pressed by the refrigerator, or if the cord is bent, bundled, or a heavy object is placed on it, it can cause an electric shock or a fire.

Do not use damaged cords or plugs or loose outlets.

Using them can result in an electric shock or injury.

Do not remove the electrical plug by pulling the cord.

The cord can become damaged and can cause an electric shock or a fire.

Do not plug or unplug the electrical plug with wet hands.

It can cause an electric shock.

Always follow instructions

Use a dedicated outlet for the power supply that meets the rating specified on the rating label. (The rating label is located on the door-liner of the refrigerator compartment.)

Using an extention cord or plugging in too many power cords into the outlet can cause heat buildup or a fire. ➡ Page 6

Keep the electrical plug cord facing downwards and insert the plug in fully.



If it is plugged with the cord facing upward, extra pressure gets exerted on it which can cause it to heat up or ignite.

If the power cord is damaged.

If the power cord is damaged call Mitsubishi Electric Service Centre for a technician to replace power cord. The power cord should be designed for this model.

About the electrical outlet and electrical plug

Always follow instructions

Remove dust from the electrical plug.



Not doing so can cause a fire from insulation failure.

Always unplug electrical plug from socket

When replacing the interior refrigerator light or when taking care of the unit, pull out the electrical plug.

Not doing so can result in an electric shock or injury.

About using your refrigerator

Do not do

Do not damage the refrigerant circuit (piping) of the refrigerator; do not drive in screws.

Because a flammable refrigerant (gas) is used, there is the danger of igniting or explosion.

Do not use electrical products inside the refrigerator unit.

If the refrigerant (gas) is leaking inside the unit, there is a risk that a spark from the electrical product's contact can be a source for ignition or explosion.

Do not store volatile products that can easily ignite.

Benzine, cosmetics and hair styling products can be the cause for igniting fires and explosion.

Do not store pharmaceuticals or scientific test material.

Anything that needs strict supervision must not be stored in a home-use refrigerator.

Do not place items on top of the refrigerator.



Items may drop from opening and closing the door and can cause injury.

Do not hang on the door or door handle and do not stand on the compartment drawer-type doors.



The refrigerator can topple over causing injury.

Do not forcefully place items on the glass shelf.

The glass can break and may cause injury.

Do not put your hands in the mechanical part of the automatic ice-maker (the upper part of the ice storage box).

Doing so will cause injury.

Do not use flammable sprays nearby.

A spark from the electrical contact can ignite and cause a fire.

- This appliance is not intended for use by young children or infirm persons unless they have been adequately supervised by a responsible person to ensure that they can use the appliance safely.
- Young children should be supervised to ensure that they do not play with the appliance.
- 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. Children should be supervised to ensure that they do not play with the appliance.

When something abnormal or unusual occurs, turn off immediately and consult with "the store where you purchased the unit" or with a "Mitsubishi Electric repair counter."

⚠WARNING

About using your refrigerator

Do not do

Do not use in a shed or a garage.
If small animals damage the wiring, it can cause an electric shock or a fire.

Do not charge with any refrigerant other than our specification.
It may cause rupture, explosion, fire, etc. when using, repairing, disposal, etc.

Do not get wet

Do not put any vessels, jars, etc. that contain water on top of the refrigerator.
If water gets onto electrical parts, it will cause an electric shock or a fire.

Do not wash with water or spill liquid food items on the unit.
If water and food liquids get on the unit, it can cause an electric shock or a fire. If that happens, dry off immediately.

Always follow instructions

If you sense a gas leakage, do not touch the refrigerator.
Open the window and ventilate the room.
A spark from the electrical contact can cause an explosion or a fire.

When the doors are opened or closed, beware not to hit any furniture.
The door or furniture may be damaged and cause any injury.

About Malfunctions / Long Term Care

Do not do

Do not take apart, repair or convert. Do not continue to use with damaged parts.
This can cause injury, an electric shock or a fire.

Always follow instructions

If the refrigerant circuit (piping) is damaged, do not touch the refrigerator, open the window and ventilate the room.
When the refrigerant circuit is damaged, please consult the store in which the unit was purchased.

If you will not be using the refrigerator for a long period of time, after pulling out the electrical plug, open the door and let the interior dry out.
If it is not dried adequately, the cooling unit may corrode causing the refrigerant (gas) to leak which can then cause the danger of ignition or explosion.

Always unplug electrical plug from socket

If something abnormal occurs (such as a burning smell), pull out the electrical plug and stop the refrigerator from running.
If it continues to run in an abnormal state, it can cause an electrical shock or a fire.

When Recycling

Always follow instructions

If there is a possible danger of a child getting trapped inside while the refrigerator is not in use, please pull off the door seal.
It is dangerous if the child gets shut inside.

When disposing of the unit, transfer it to the store that you purchased it or to the municipality.
If it is neglected and refrigerant (gas) leaks, ignition or an explosion may be caused due to heat from a fire.

⚠CAUTION

Installing and Transporting

Always follow instructions

Install on a strong level floor and adjust the adjustable legs to fix firmly.
The refrigerator may move and cause injury.
➡ Page 6〜7

When carrying, use the handles made for carrying.
If other parts are held while carrying, it can cause injury. ➡ Page 21

Be careful not to damage the floor or injure yourself when moving the refrigerator.
Lay a protective sheet on the floor and move the refrigerator slowly.



About using your refrigerator

Do not do

Do not force food items into the refrigerator. Do not use force to pull out shelves.
Food items may fall out, causing injury.

Do not store bottles in the freezer compartment.
If the center freezes and bottles crack, it will cause injury.

Do not place your hands or feet under the refrigerator.
You can get injured from something such as the steel plate.



Do not eat food that has a bad smell or is discoloured.
Doing so may cause food poisoning or other illnesses.

Observe the following when opening and closing the doors.

- Do not open or close the doors when another person is touching the refrigerator.
- Do not put your fingers on the top edge of a drawer type door while closing it.
- Do not open or close the doors with excessive force. (Food may fall out and cause injury.)
- Be careful not to trap your fingers or any other part of your body.
- Be careful not hit a part of your body.
- Do not trap your feet with the bottom drawer. (Danger of your toes caught by the drawer.)

Not doing this may cause injury.



Do not touch foods or containers in the freezer compartment with wet hands.
Doing so can cause freezer burn.



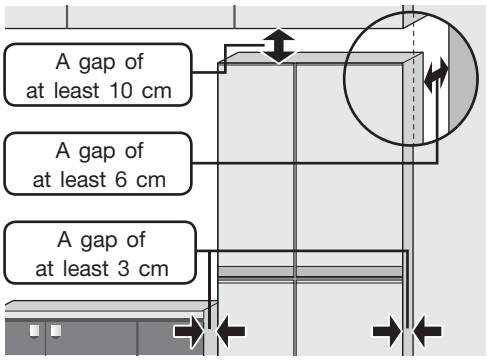
CAUTION

Please take care when removing ice from the ice box.
Built-up frost may cause injury when removing.

Always follow instructions

Make sure that glass shelves or pockets are attached properly.
If insufficiently attached, it may fall out and may cause injury.

From Installation to Operation



1 Installation

Install the refrigerator in:

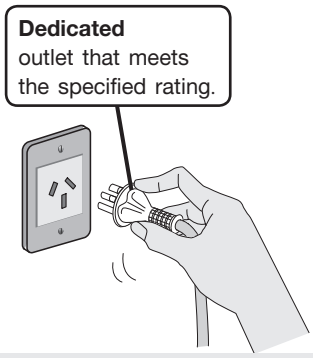
- **A place with good ventilation that is not exposed to direct sunlight of hot air**
  To prevent a diminishing in cooling performance and to reduce power costs.
- **A place with low humidity**
  To prevent rusting, electric shock and fire.
- **A strong and level place**
  To prevent vibration and noise, and ajar or tilting doors.
  If the refrigerator supports sink easily into the floor material, lay a strong plate or board underneath. (To prevent deformation or discoloration due to the weight or heat.)
- **A place away from other devices**
  To prevent noise or video interference with devices such as televisions.
- **A place with at least 3 cm of space beside the left and right of the refrigerator, 10 cm of space from the top and 6 cm from the back.**
  To allow heat to dissipate from the sides, top and the back of the refrigerator.

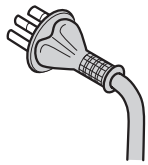
Use in hot spring areas

Corrosion control treatment may be required for the refrigerant circuit (pipe) due to generation of corrosive gases. Contact the retail store where you purchased the refrigerator.

⚠ WARNING

Do not obstruct the refrigerator vents or the space around the refrigerator. If refrigerant leaks, it may accumulate and catch fire or explode.





Turn on the power of the refrigerator as soon as possible.

The refrigerator will not be damaged even if you turn on the power immediately after the installation.

2 Connect the power supply

*Connect power supply soon after installing the refrigerator

- **Use a dedicated outlet**
  Use a dedicated outlet for the power supply that meets the rating specified on the rating label. (The rating label is located on the door-liner of the refrigerator compartment.)

⚠ WARNING

Using outlets that do not meet the specified rating or plugging in too many leads into a single socket can cause heat buildup or fire.

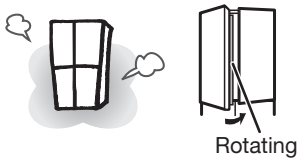
- **The refrigerator will not be damaged even if the power is supplied soon after installation. It takes a while for the refrigerator to cool, therefore supply power as soon as possible.**
- **Electrical Connections**
  Make sure this unit is properly grounded.
  - The refrigerator should always be plugged into its dedicated electrical outlet. This will provide the best performance and prevent electrical circuits from being overloaded and causing a fire. Make sure that the electrical outlet provides the proper voltage. Extension cords are not recommended.
  - If your refrigerator is installed in a high humidity location, not only ground connection but also installation of the earth leakage breaker is recommended.
  - If the power cord is damaged, purchase a new cord from MITSUBISHI ELECTRIC SERVICE CENTRE. Make sure that the power cord is designed for this model.
  - If the power cord is damaged, call our MITSUBISHI ELECTRIC SERVICE CENTRE for the replacement, in order to avoid a hazard.

How to remove the energy label

- Remove the energy label carefully. A glue residue may remain, particularly if the label has been in place for a long period of time.
- Apply either Eucalyptus or Tea Tree oil directly on any residue.
- Do not allow the oil to run or drip onto plastic parts as it may cause the plastic to degrade and potentially crack over time.
- Allow the oil to sit for approximately 1-2 minutes, or until the glue residue has softened.
- Wipe off with a damp cloth.
- If any residue remains, repeat the above process.
- Rinse with clear water.
- Dry thoroughly.

The outside of the refrigerator and the rotating partition get hot.

Heat radiation causes the temperature to rise to about 50°C to 60°C when operation is first started, and during the summer. The rotating partition may get hot when heated by the heater.



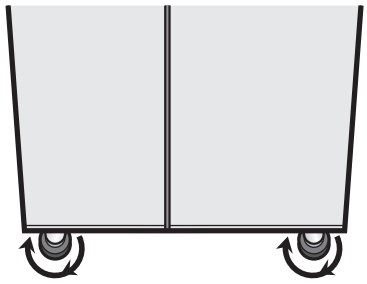
Cooling takes time after turning on the refrigerator.

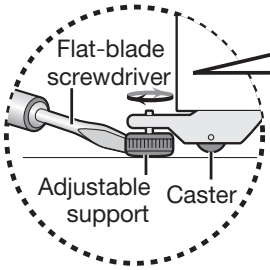
- Wait until the refrigerator has fully cooled before storing non-cooled food or ice cream.
- Do not open the doors more than necessary, and close them as soon as possible.

When making ice for the first time

In summer it may take more than 24 hours before the first batch of ice is made.

Bottom front of refrigerator

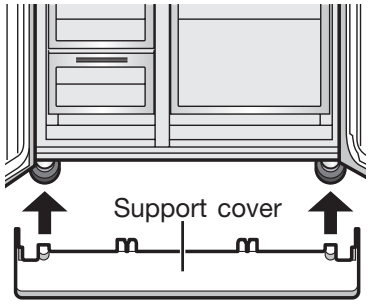




Insert the blade of the screwdriver
Turn the adjustable supports in the arrow direction until they touch the floor.

⚠ CAUTION

If the supports are not adjusted properly, the refrigerator may move and cause injury.



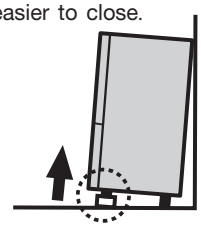
3 Adjustment and anchoring

(To prevent vibration, noise, movement, and ajar doors)

Turn the adjustable supports until they touch the floor and the front casters are raised from the floor.

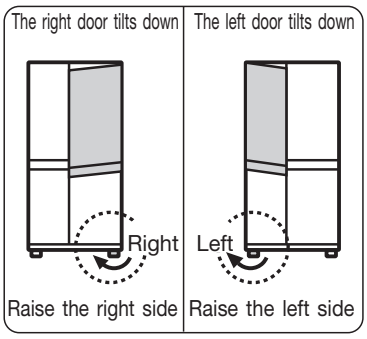
● Preventing ajar doors

Adjust the supports to make the refrigerator level.
If the front of the refrigerator is slightly raised, the doors are easier to close.



● Adjusting a tilted door or unevenness

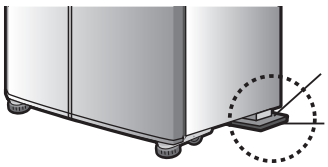
Readjust the adjustable supports as shown in the figures below.



If the installation location is not level or the supports sink after a few days due to the weight of the food, the doors may appear tilted.
Readjust the supports.

● If the door is still tilted after adjustment of the supports

When installing the refrigerator in the corner of a room, one of the rear supports may sink, causing the refrigerator to tilt. If this happens, use a caster support or strong board for adjustment. (Normally, use a board with a thickness of about 2 to 3 mm.)



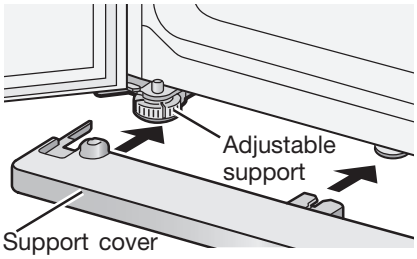
4 Support cover

The support cover is stored inside the refrigerator compartment at shipment.

● Installing the support cover

While the freezer door is open

Insert the support cover horizontally and fully, until it makes contact with the rear side.



The support covers are designed for the left and right adjustable supports respectively.

The operation noise gets louder immediately after installation.

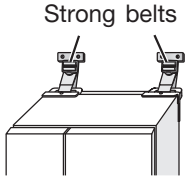
Immediately after instillation, when: the weather is hot, the doors are frequently opened or closed, or any similar situation; the operation noise will get louder because the refrigerator will switch to high-speed operation to cool with high power.

Prepare for earthquakes.

Thread 2 strong belts through the hand-holds on the top rear of the refrigerator and anchor them to a strong location, such as wall or post.

⚠ WARNING

The refrigerator may tip over and cause injury.



Do not damage the refrigerant circuit (pipes) or drive screws into it.

Although R600a refrigerants are combustible, the refrigerant circuit is hermetically sealed and normally leaks will not occur.

⚠ WARNING

Should the refrigerant circuit be damaged:
1. Do not use flames or electrical appliances nearby.
2. Open the windows to fully ventilate the room.

Then, contact the retail store where you purchased the refrigerator.

How to Use the Operation Panel

Touching will cause the operable icons to light up.

To save power, all displays other than are usually turned off (it turns off if there is no operation after 30 seconds).

When operating, be sure to touch the buttons with your fingers.

ECO icon mark

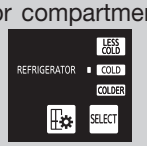
When ENERGY SAVING is set, and the refrigerator is running efficiently, ECO icon mark will light up. ➡ Page 15

Detail Setting

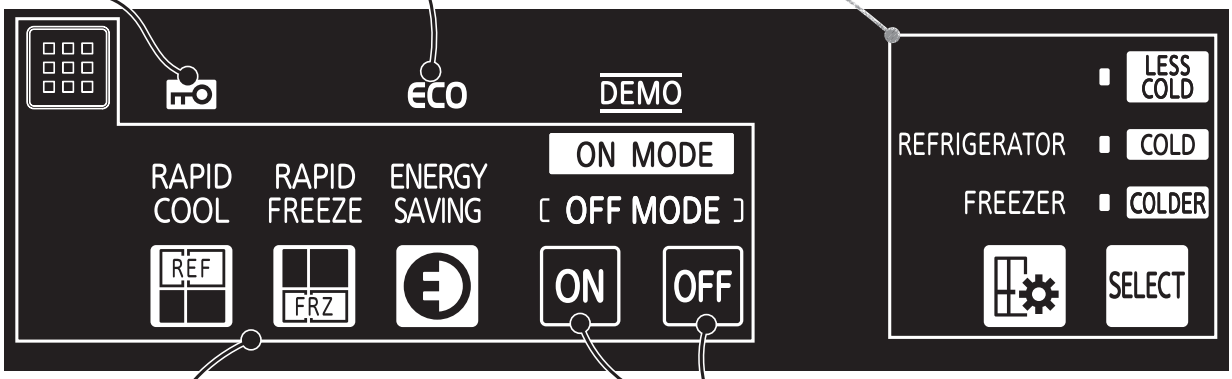
Touch to go to compartment selection;

Touch SELECT to go to temperature settings.

Example: When setting the refrigerator compartment to "COLD"



Child Safety Lock ➡ Page 19



When turning ON or OFF settings, touch one of these.

Touch an icon to display its setting details.

If you touch the operation panel, icons will be displayed.
You can select the setting that you prefer.

Rapid Cool
To cool a large amount of food quickly in refrigerator compartment.

Rapid Freeze
To freeze a large amount of food quickly in freezer compartment.

Energy Saving Mode
To save power.

Operation Example (When Setting RAPID COOL)

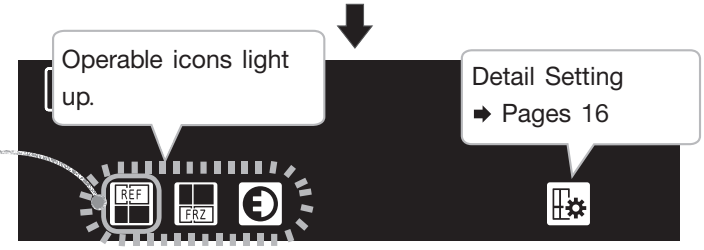
❶ Touch

When you keep the door of the refrigerator open, touch for about 1 second. (until the buzzer sounds once)

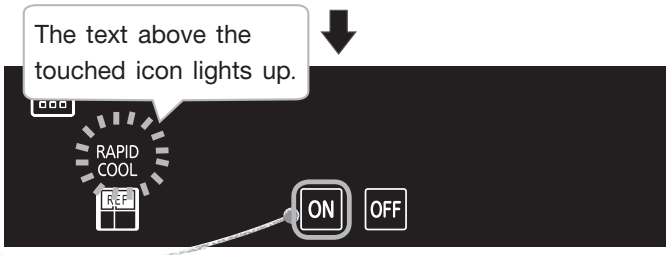


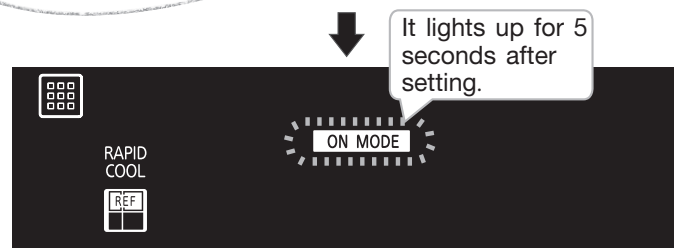
❷ Touch the icon to set

Here touch REF.



❸ Confirm the setting details then touch ON.





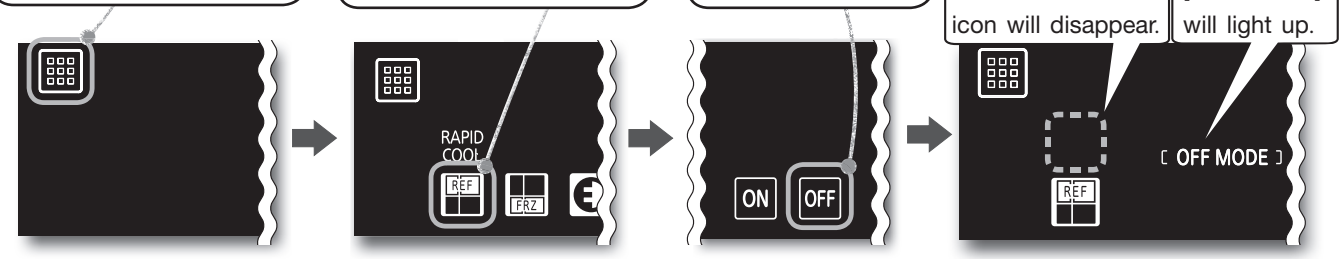
In ❷ and ❸, touching returns the display to the previous state.

To Cancel the Setting

❶ Touch

❷ Touch the icon to cancel

❸ Touch OFF



In the following cases, the display may not change even when you touch it.

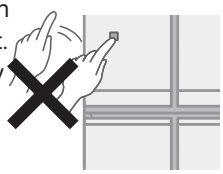
The operation panel or your fingers are wet or dirty.



You are wearing gloves or have sticking plaster on your finger.

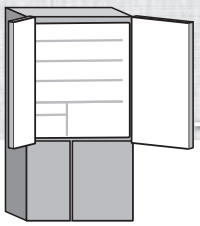


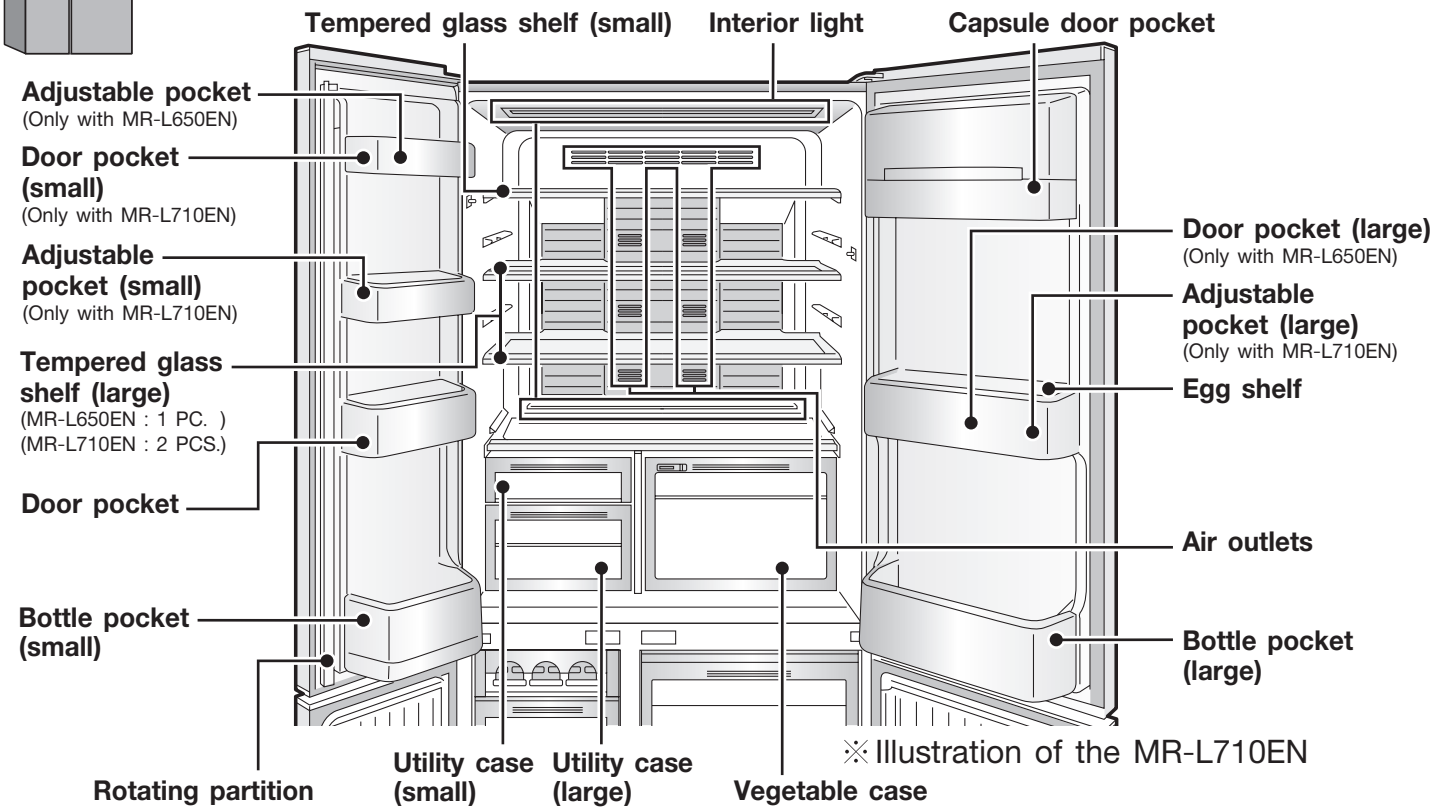
The interval between touches is too short. (Pressing repeatedly may cause a misdetection)



- Wipe the moisture and dirt off your fingers.
  Perform operations with your hands. After you have touched an icon, confirm that the display has changed before touching again.
- The response may vary, depending on the surrounding temperature, humidity, the health condition of the person who operates it, and the operating condition of neighboring electric appliances.

Refrigerator Compartment

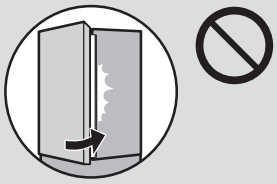




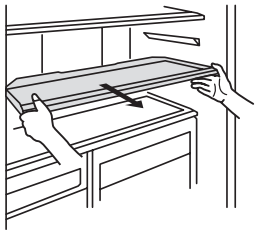
※Illustration of the MR-L710EN

Do not close the door while the rotating partition is turned up to the front.

If you open or close the doors rapidly with force, the rotating partition may open to the front. Open and close the doors slowly. (Otherwise damage may result.)



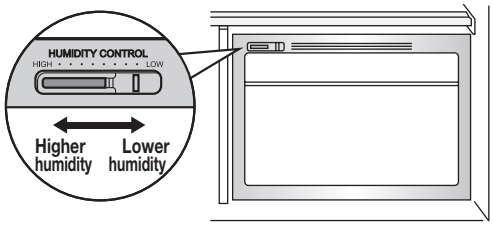
Tempered glass shelf



While cleaning the refrigerator, be sure to remove the shelves (made of tempered glass) and put them back properly.
Or else, the falling or smashed shelf could cause personal injuries.

Vegetable case

Humidity of vegetable compartment can be adjusted.



* If food with a high level of moisture is placed near the air outlets, it may freeze. ▶ **Page 23**

■ If the door alarm sounds ▶ **Page 20**

Wrap food that have strong odors thoroughly before storage

Food that transfers odors easily

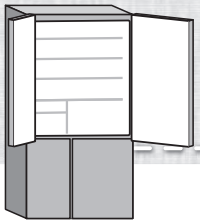
Shallot, dried fish, fermented foods, beef, sardines, kimchi, etc.

• A slight odor may remain.

Food to which odors are easily transferred

Puddings, ice cream, potato salad, rice, bread, milk, cake, ice, etc.

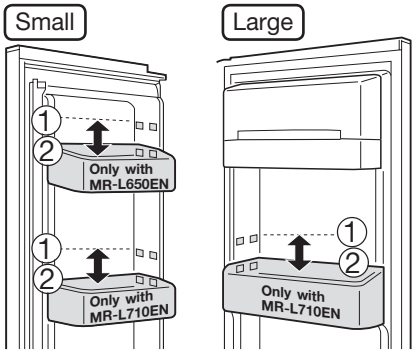
• A slight odor may remain.



Refrigerator Compartment (Continued)

Adjustable pockets

Adjustable to 2 positions

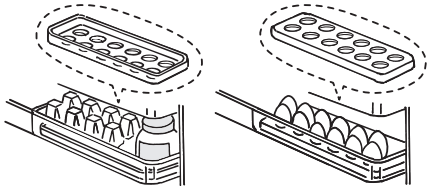


■ Relocate the pockets

▶ Page 18

Egg shelf

Egg holder or small organizing compartments.
By turning it over it can be used either way.



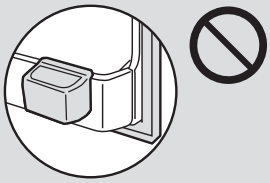
Do not leave food hanging over shelves or pockets. Do not place glass bottles that cannot fit all the way to the bottom at the front of the bottle pocket.

The bottle may keep a door ajar, or the bottle may break.



Do not attach a case that you purchased separately onto the outside of a pocket.

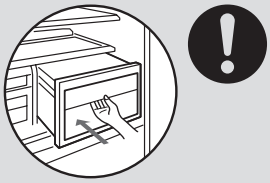
It may keep a door ajar and reduce the cooling performance, or food may fall and cause an injury or damage to a case or lid.



Do not close the door while food is in front of the Vegetable case or Utility cases.



Fully stow away the cases.

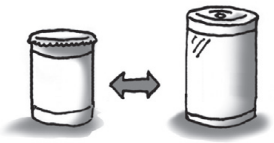


Tips for Energy Saving

ECO **Set Energy Saving Mode for automatic energy saving operation.** ▶ Page 15

Idea for energy saving

Keep space between items in the refrigerator.



Put items on the top shelf if you wish to cool sufficiently.

Helpful storage hints

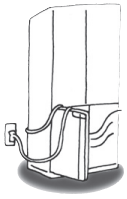
Allow hot food to cool before storing.



Avoid opening the door frequently or leaving the door open for a long time.



Be sure not to catch food items, plastic bags, power cord, etc. in the door when you close it.

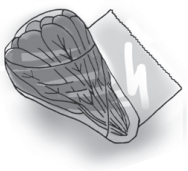


Frost or dew build-up that may cause decline in cooling ability as a result of even the slightest door opening.
Water may also drip off.

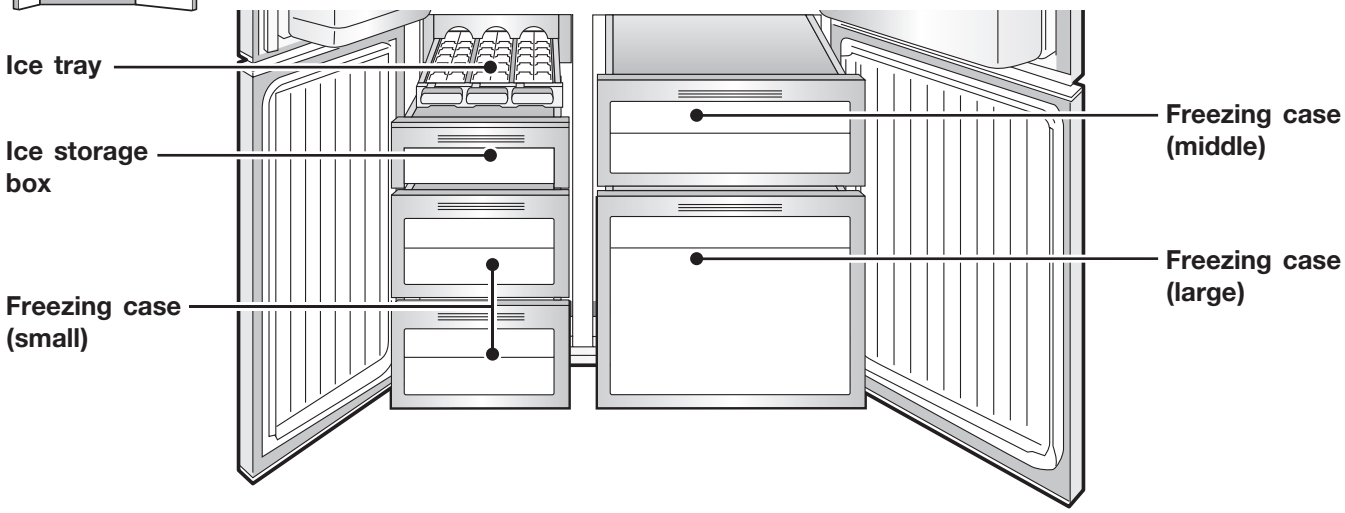
Wipe



wrap



Freezer Compartment





15 cm height of plastic bottles for freezing can be placed standing up in the Freezing case (large).

Ensure the bottles used are capable of being frozen without damage or leaking.

■ If the door alarm sounds ▶ **Page 20**

Do not place tall objects in the lower freezing case.

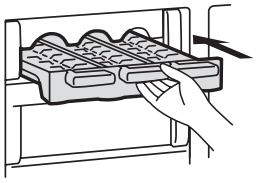
- Food or the slide case may be damaged.
- The door may not close.



Making ice cubes

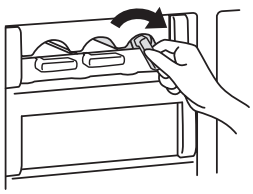
1 Pour water into each section of the ice tray, up to the water line.

The ice cubes will not separate easily from the ice tray if you add too much water.



2 Insert the tray completely into the ice tray holder.

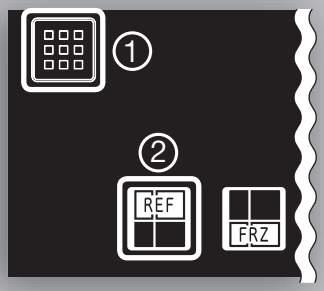
3 Once the ice cubes are made, turn the lever to the right until the ice cubes fall into the ice storage box.



Rapid Cool (in refrigerator compartment)

When storing a large amount of food, protect the food's freshness by rapidly cooling it.

RAPID COOL



Swiftly cool refrigerator compartment

when their doors are opened and closed

To Set

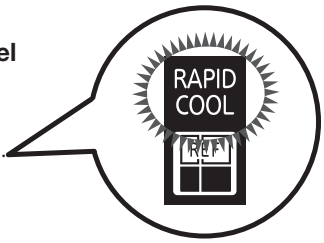
1 Touch on the operation panel

2 Touch

The text above the icon will light up.

3 Touch ON

The settings are finished.



This ends automatically about 2 hours after setting.

It doesn't matter whether you put food in before or after turning on the settings.

To cancel the setting ➡ **Page 9**

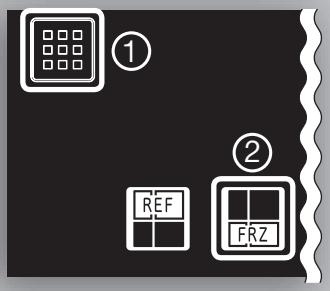
Notice

- The sound of the refrigerator running gets louder during Rapid Cool, because it is operating at high speed.

Rapid Freeze (in freezer compartment)

When storing a large amount of food, protect the food's freshness by rapidly freezing it.

RAPID FREEZE



Swiftly cool freezer compartment

when their doors are opened and closed

To Set

1 Touch on the operation panel

2 Touch

The text above the icon will light up.

3 Touch ON

The settings are finished.



This ends automatically about 2 hours after setting.

It doesn't matter whether you put food in before or after turning on the settings.

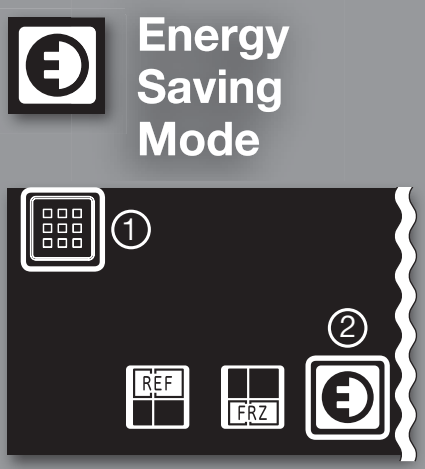
To cancel the setting ➡ **Page 9**

Notice

- The sound of the refrigerator running gets louder during Rapid Freeze, because it is operating at high speed.

Energy Saving Mode

This mode learns each family's method of use and operates with the optimal state for each compartment.



An appropriate timing is selected for each compartment and the energy saving mode is performed automatically with a slightly high temperature setting.

To Set

1 **Touch** [ ] **on the operation panel**

2 **Touch** [ ]
The text above the icon will light up.

3 **Touch** [ON]
The settings are finished.



To cancel the setting ➡ Page 9

If Energy Saving Mode is set, [ENERGY SAVING] is displayed.

If switched to power saving operation while Energy Saving Mode is set, [ECO] is displayed.

Tips for using the refrigerator wisely

Temperature settings
Setting each compartment to a relatively low operation reduces the consumption of electricity.

Opening and closing compartment doors
The refrigerator consumes more electricity if you open and close the compartment doors frequently or leave the doors open for a long time.

Energy Saving Mode
In this mode, the refrigerator automatically operates in an energy saving fashion when the temperatures are stable in the compartments. The refrigerator is not set in this mode when newly installed.

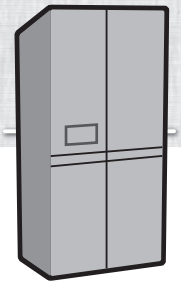
Storing foods
Do not fill any fridge compartments with too much food, or place food in a manner that blocks the cold air outlets. Blocking the cold air outlets will compromise the airflow which can cause some areas of the fridge to take longer to cool to the optimum temperature and reduce energy efficiency.

[ECO] Lights-Out

In the following cases, energy saving mode will be cancelled and the light will turn off.

- When the doors are frequently opened and closed
- When Rapid Cool or Rapid Freeze is operating
- After defrosting

(After the freezer compartment is sufficiently cold and stable, energy saving mode will automatically restart.)



Detail Setting

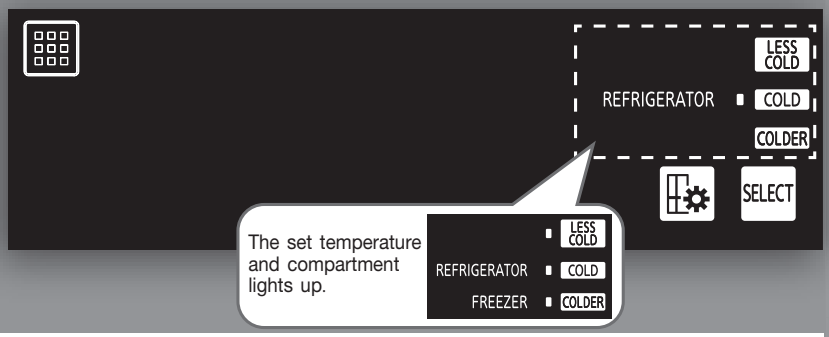
Performing Temperature Adjustment

The temperature of each compartment can be adjusted.
Use the refrigerator and freezer to "COLD" usually.

Temperature Adjustment

At the time of purchase, the settings are as follows.

Refrigerator and Freezer Compartments
....."COLD"



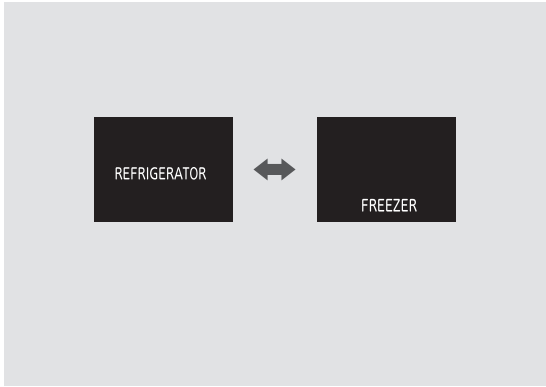
1 **Touch [▦] on the operation panel**

2 **Repeatedly touch [⚙] to light up the compartment that you want to set the temperature for.**

The display changes in the order shown in the right each time the button is touched.

When a compartment is displayed, that compartment's temperature setting will also be displayed.

3 **Repeatedly touch [SELECT] to set the temperature.**



In 2 and 3, touching [▦] or not performing any operations for about 30 seconds will return the display to its initial state. ➡ Page 9

Refrigerator/Freezer Compartment Temperature

The display changes each time [SELECT] is touched and the temperature can be set to 5 different levels.

Operation Panel Display \ Compartment	REFRIGERATOR	FREEZER
LESS COLD / COLD / COLDER	About 6°C	About -16°C
LESS COLD / COLD / COLDER	About 5°C	About -17°C
LESS COLD / COLD / COLDER	About 3°C	About -19°C
LESS COLD / COLD / COLDER	About 1°C	About -21°C
LESS COLD / COLD / COLDER	About 0°C	About -22°C

High ↕ Average ↕ Low

Notice

- The temperatures described here are measured in the lower centre of the refrigerator after the temperature has stabilized when the surrounding temperature is 30˚C and the doors are closed without any food inside. The temperature fiuctuates with factors such as food storage conditions and how often the doors are opened and closed.
- Before and after defrosting, the temperature inside the refrigerator may drop or rise temporarily.
- When food freezes in the refrigerator compartment or lower case, set the refrigerator temperature setting to COLD - LESS COLD.

How to remove and clean accessories



Unplug the electrical plug.
If it is not unplugged, it will cause an electric shock.



Do not take apart, repair or convert. Do not continue to use with damaged parts.
This can cause injury, an electric shock or a fire.

※ Wait 10 minutes or more before you replug the electrical plug into the outlet. If you plug it in immediately after unplugging it, the refrigerator will not run.

How to maintain Q&A



Q. **If dirt is noticed.**

A. **Please wipe as soon as possible.**

- Wipe with a soft towel soaked in warm water.
- For hard to remove dirt, please use a kitchen detergent (neutral type) and wipe off with water.
- Wipe off oil stain or citrus juice immediately.
- Door packing may cause damage or cold air leakage if you leave the dirt. Please wipe off the moisture with dry towel after wipe off with soft and soak towel.

Q. **Can the shelf, case and pocket be removed?**

A. **For removable parts, please see** ➡ Page 18

Please take heed

● **Do not use the following items.**

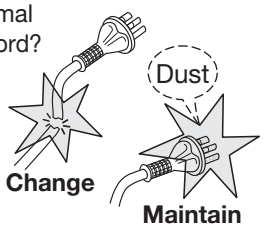
Alkalinity or alkalescent kitchen detergent, polishing powder, soap powder, alcohol, benzine, thinner, petroleum, acid, scrub brush, hot water, etc.
Plastic parts (door handle, cap, case, etc.) will crack, and glass shelf or painted surface may damage or rust.



Power Plug

For safety, please periodically check the power plug and cords.

❶ Unplug the electrical plug from the outlet and inspect.
❷ Is there any damage or abnormal heat coming from the plug or cord?
❸ Wipe away dust from the plug and around the plug area with a dry cloth.
❹ Insert the electrical plug fully into the outlet.



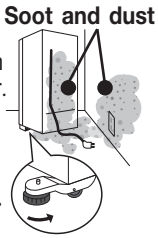


Wipe out the dust in power plug periodically.
It may cause fire or insulation failure.

Refrigerator rear side and floor

Dust and dirt can accumulate in the ventilation space behind the refrigerator. Please clean periodically for energy saving purposes.

❶ Remove the toe grille.
❷ Turn the adjustable supports to raise them from the floor,and pull out the refrigerator.
We recommend laying out protective material on the floor to prevent the floor from being damaged. Also, be careful not to injure yourself.
❸ Remove the dust from the rear panels, walls and floor, and wipe off any dirt.
❹ Check for water dripping on the floor.



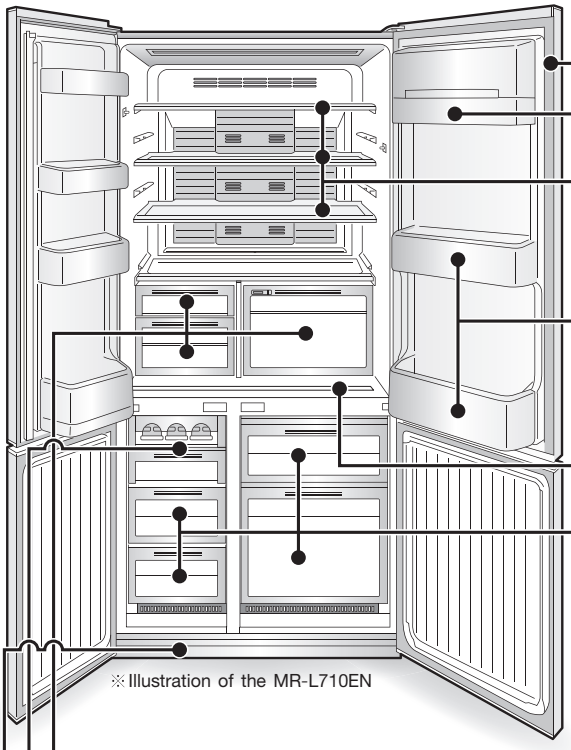


Do not put your hands or feet under the refrigerator.
It may cause injury.

Replacing lamps in compartments

LEDs in the refrigerator compartments and behind of Vegetable case.
Contact the retail store at which you purchased this refrigerator from or MITSUBISHI ELECTRIC SERVICE CENTRE.

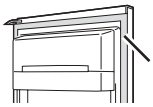
Use reverse procedures to put accessories back in place.



※Illustration of the MR-L710EN

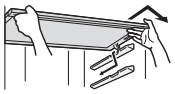
Door packing

Dirty packing is easily damaged and can cause refrigerated air to leak.

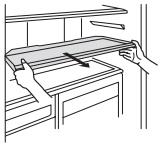


Tempered glass shelves

How to remove the upper shelf
Lift the upper shelf with both hands to take it out.



How to remove the middle and lower shelves
Remove the middle and lower shelves with both hands.

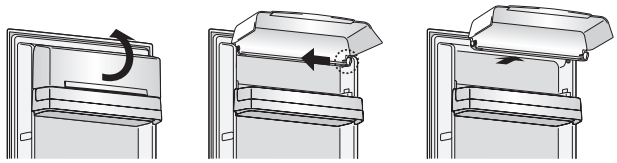


Reverse the steps to put back the shelves.

- Do not let the tempered glass shelves fall off.

Capsule door pocket

① Lift the cover by 100 degrees.
② Push the cover to one side and remove it while pushing in the rib of the hinge cover with your finger.
③ Remove the cover towards you.



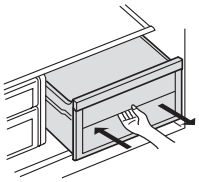
Utility case / Vegetable case / Vegetable case cover

Utility case

① Fully pull out the slide case.
② Lift the end on your side.

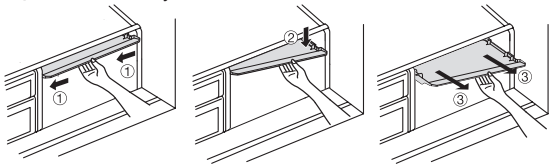
Vegetable case

Lift the end on your side to pull out the Vegetable case.



Vegetable case cover

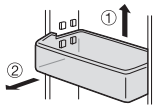
① Slide the left side of cover to end.
② Push down the right side of cover.
③ Pull towards your side.



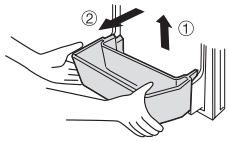
*The ceiling shelf on the upper side of cases cannot be removed.

Adjustable pocket / Bottle pocket

Adjustable pocket



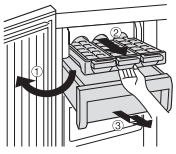
Bottle pocket



① Alternately lift up the left and right sides (the pockets are securely installed).
② Pull towards you.
③ Be sure to install the Adjustable pocket and the bottle pocket securely and correctly.
(Or else, the pocket may fall off, causing a personal injury.)

Ice tray / Ice storage box

① Open the door.
② Slide out the ice tray and remove.
③ Draw the ice storage case towards you and remove.



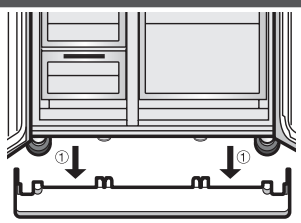
Cases in the Freezer compartment

Pull the case towards you. Hold the end on your side and lift the case.



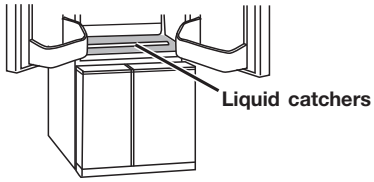
Support cover

① Remove by pulling forward on both sides.



Liquid-Catching indentations

Wipe away any dirt, liquid or condensation.



Other Issues (Power Outages, Child Safety Lock, Setting Reset, When DEMO Lights Up)

Power Outages

- Minimize the frequency of opening the doors, and avoid adding more food.
- Operation panel settings other than the temperature settings may change. Check the settings. (Child Safety Lock, etc.)

To Prevent Accidental Button Operation (Child Safety Lock)

Locks the operation panel to prevent accidental icon operation by children.

❶ Touch for about 5 seconds or more when the door is closed (until the buzzer sounds).
lights up when the setting is finished.
- Setting cannot be changed during Child Safety Lock.

To Cancel

❶ Again, touch for about 5 seconds or more when the door is closed (until the buzzer sounds).
goes off when the setting is cancelled.

To Reset Settings

Returns the settings to their initial conditions (at the time of purchase), for example if you have forgotten the settings.

❶ Touch to light up an icon.

❷ Touch for about 10 seconds (until the buzzer sounds twice).
The following settings will be reset.
- Rapid Cool
- Rapid Freeze
- Energy Saving Mode

When DEMO Lights Up

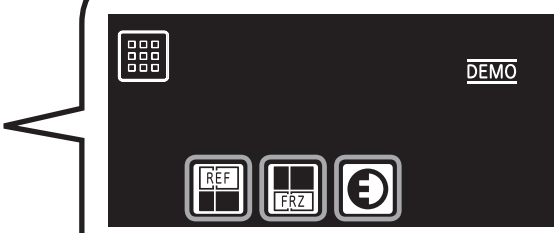
When DEMO lights up, the refrigerator is in demonstration mode. The refrigerator does not cool in this mode. Contact the retail store where you purchased the refrigerator, or cancel the demonstration operation with the following procedure.

To Cancel

❶ Keep the doors of the freezer compartment open.

❷ Light up the icons and press REF, FRZ, and at the same time for at least 5 seconds.

❸ Check that DEMO is turned off.
- The demonstration mode was not cancelled if it lights up.



Touch until the buzzer sounds

When the Door Alarm Sounds and the Interior Light of the Refrigerator Compartment Blinks (Door Alarm)

The door alarm (with alarm sound, interior light, and compartment display) is activated when a door is open for 1 minute or longer.
The pattern of the door alarm sound and the action of the interior light and compartment display area are as follows depending on how long the door has been left open.

Time for which the door left open	1 minute	2 minutes	3 minutes	4 minutes	5 minutes or longer	60 minutes or longer
Alarm sound	4 short beeps, then 2 beeps	4 short beeps, then 3 long beeps	4 short beeps, then 4 long beeps	After 4 short beeps, Continuous long beeps	Continuous short beeps	
Interior light	On			Blinks twice per minute		Off
Compartment display area	The compartment display area will blink in synchronization with the alarm sound					



Compartment display area (Operation panel)
Blinks in synchronization with the alarm sound.

- Check that the doors are not left ajar or do not have any food trapped (the packing, the back of the drawer cases). (Check at least once a month.)
- Refrigerator and Freezer doors have an opening and closing sensor.
- Check the refrigerator compartment door rotating partition. ➡ **Page 10**

When the Alarm Cannot be Turned Off

Check that there are no gaps between the door.
When the alarm cannot be turned off, there may be a malfunction and an inspection is required.
Contact the retail store where you purchased the refrigerator.

To Stop the Alarm (Continuous Short Beeps)

The alarm can be temporarily stopped in the time before the refrigerator is repaired.

Press for at least 5 seconds.

* If performing the above operation does not turn off the alarm, or the alarm periodically sounds, check peripheral machinery as well.

When the Mark Blinks Rapidly (About 5 Times per Second)

When the refrigerator will not cool, there may be a malfunction and an inspection is required.
Contact the retail store where you purchased the refrigerator.

When Not Using the Refrigerator for a Long Time (When the Power Plug Is Unplugged)

❶ Remove the power plug.

❷ Empty any water or ice from the ice storage box and clean.

❸ Clean the interior of the refrigerator and open the doors for 2 to 3 days to dry the inside.

* If the refrigerator is not dried sufficiently, it may cause mold, odors, or refrigerant (gas) leaks due to condenser corrosion.

To Transport the Refrigerator

❶ Empty any water or ice from the ice tray, and ice storage box. ➡ Page 18

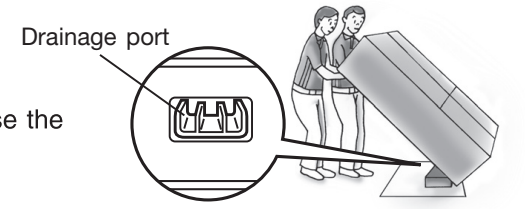
❷ Wear protective gear (gloves).

❸ Remove the adjustable support cover, and then rotate and raise the adjustable supports. ➡ Page 7

❹ Remove the power plug.

❺ Lay towels under the drainage port and the lower rear edge of the refrigerator, and position a container or tray with a height of about 3 cm on the towels to collect the water.

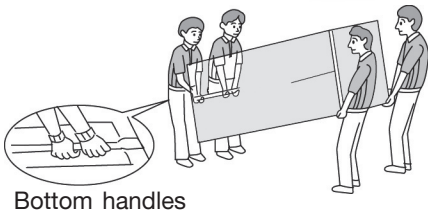
* The towels prevent floor damage, and water from being spilled on the floor.



❻ Tilt the refrigerator slowly to the rear by about 30 degrees, and drain the water from the evaporation tray via the drainage port on the lower rear side. (The evaporation tray is not visible from the outside.)

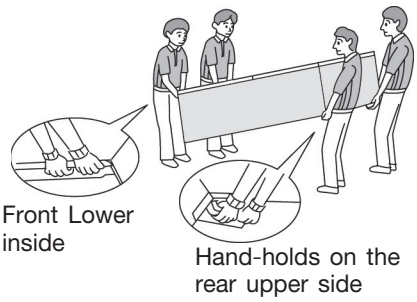
* Because the refrigerator is heavy, the work must be performed by at least 4 people.

* The work must not be performed by small children or people who are not capable of doing heavy work. Ask a specialist transportation company.



❼ 4 or more people should hold the hand-holds on the bottom and the upper part of the rear side and the hand-holds on the lower inside part of the front side and the upper side of the rear, and carry the refrigerator slowly.

● Do not lay down the refrigerator on its side. (The compressor may be damaged.)



When the Transportation Time Is Long, for Example When Moving House

● Frost from the condenser inside the freezer compartment will melt, and may spill water when the refrigerator is transported. It may take 1 day to defrost after unplugging the power plug.

Prohibited

Do not damage the refrigerator's refrigerant circuit (pipes).

Because combustible refrigerant is used, this may result in fire or an explosion.

To Move the Refrigerator in Forward and Backward Directions

❶ Remove the adjustable support cover, and then rotate and raise the adjustable supports cover. ➡ Page 7

❷ Lay protective material under the casters and rear supports to prevent damaging the floor.

❸ Move the refrigerator in the forward and backward directions.

* Moving in any direction other than forward and backward may damage the floor. Please make sure to lay protective material such as a plate or board on the floor.

To Control the Temperature More Precisely (Temperature Fine Adjustment Mode)

The temperature can be set to 11 different levels for the refrigerator compartment and freezer compartment,

- When temperature fine adjustment mode is set, the compartment display blinks about every 10 seconds.

Setting the Temperature Fine Adjustment Mode

❶ Touch [▦] to light up icons.

❷ Touch [⚙] and select the compartment you would like to set to temperature fine adjustment mode.

❸ Touch [SELECT] for at least 5 seconds (until the buzzer sounds).

- The refrigerator compartment, freezer compartment, can all be set with a single operation.

To Cancel

The same operation as above.

- If the setting is reset, it will be cancelled.

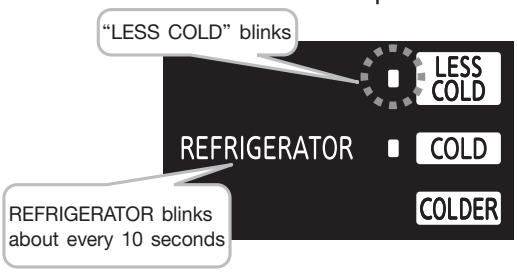
Performing the Temperature Fine Adjustment

❶ Touch [▦] to light up icons.

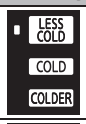
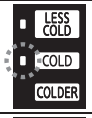
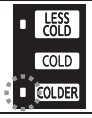
❷ Touch [⚙] to select the compartment to perform temperature fine adjustment.

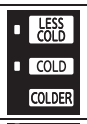
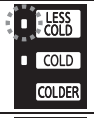
❸ Repeatedly touch [SELECT] to perform temperature fine adjustment.

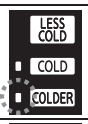
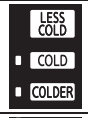
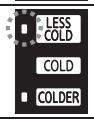
Display Example: When the refrigerator compartment is set to Temperature Setting 5.

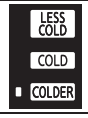


Refrigerator Compartment / Freezer Compartment

	Temperature setting
1	
2	
3	

4	
5	
6	

7	
8	
9	

10	
11	

* ◌ represents a blinking display.

Troubleshooting

Before contacting MITSUBISHI ELECTRIC SERVICE CENTRE or its service agent or making a repair request, check the following.
If the problem persists, contact the retail store where you purchased the refrigerator as soon as possible.

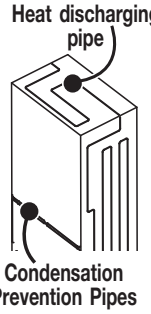
Frequently asked questions in the initial period and in summer

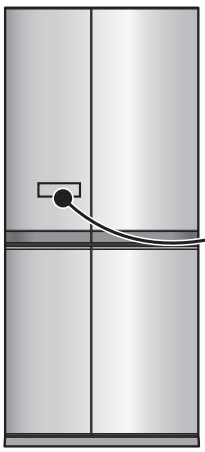
The refrigerator does not cool at all!

- The refrigerator takes time to cool when you first start using it. In summer, it may take up to 24 hours for the inside to be fully cooled. ➡ **Page 6**
- If DEMO is shown on the operation panel, cancel demonstration mode. ➡ **Page 19**
- Check if the power plug is disconnected or the circuit breaker has tripped.

The outer walls heat up!

- The outer walls heat up significantly (to about 50 to 60°C) immediately after installation and in summer. This is because the heat discharging and condensation prevention pipes are located on the sides and the top of the refrigerator. They are required for cooling and the heat is not an abnormality.
- The refrigerator compartment rotating partition also has a condensation prevention heater that heats up.
- A heat discharging fan is located under the refrigerator. Warm air may be discharged from here.



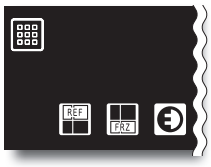


The operation panel turns off automatically!

- If 30 seconds pass without any operation panel button operations, the display turns off. When lighting, touch . ➡ **Page 8**

	Problem	Check	Explanation and Action
Cooling Performance	**Does not cool well** **Not much ice is made** **Ice melts**	❶ Has enough time passed after installation?	It takes 4 to 5 hours for the refrigerator to cool, and may take 24 hours in summer to fully cool.
		❷ Is the temperature setting set to “LESS COLD”?	Set to “COLD or COLDER” or to the setting of your liking. ➡ **Page 16**
		❸ Is the flow of cold air being blocked? Are the doors being opened frequently, or left ajar? Is food blocking them?	Make space between foods and remove any food that is sticking out of shelves or touching the ceiling of the drawers. Avoid opening and shutting the door for a while.
		❹ Is heat discharging being blocked? Check if there is no gap around the refrigerator and the refrigerator is exposed to direct sunlight.	Check that there is enough space around the refrigerator and that it is properly installed. ➡ **Page 6**
	Food freezes in the refrigerator and vegetable compartments	❶ Is the temperature on the operation panel set to “COLDER”?	Set the temperature to “COLD”. Also, the temperature with each setting may temporarily decrease.
		❷ Is food with a lot of moisture stored at the rear of the shelf?	Place drinks and food containing a lot of water, such as tofu, vegetables and fruits, at the front of the shelf or in a door pocket.
		❸ Is the surrounding temperature 5°C or less?	Food in the refrigerator compartment or vegetable compartment may freeze. Freezing is less likely when the temperature settings are set to "LESS COLD". ➡ **Page 16**
Sound	**There is a rattling sound**	❶ Are any nearby objects in contact with the refrigerator?	Leave space around the refrigerator. When objects or walls are in contact with the refrigerator, sounds may be heard.
	Loud noises Worrisome noises (Noises described on the right are normal)	❶ The noise gets louder suddenly or the tone changes.	Immediately after beginning use, when the weather is hot, when the doors are frequently opened and closed, and in similar situations, the refrigerator switches to high-speed operation and cools with high power.
		❷ A whistling sound is made after closing a door.	This is the sound of the cooling fan motor starting.
		❸ A whipping or dripping sound is sometimes heard from inside the refrigerator after a door is opened.	This is the creaking sound as warm air enters and expands the plastic.
		❹ Sometimes the sound of flowing or boiling water can be heard.	This is the sound of the refrigerant (gas) flowing.

Troubleshooting (Continued)

	Problem	Check	Explanation and Action
Door	**Doors do not close** **Doors open easily**	❶ Is a door making contact with food or a case? Is too much food packed inside?	Store food so that the door does not make contact with the food when closed. In the refrigerator compartment, store food on the shelves and in the drawer doors store food so that it does not make contact with the ceiling when doors are shut and opened.
		❷ Has food fallen behind a case in a drawer door, or is the power cord or another object trapped between the refrigerator and a door?	Remove any objects. Make sure that the door does not trap objects such as food, power cords or plastic bags.
		❸ Is the refrigerator installed stably? Are the adjustable supports making contact with the floor?	Lower the adjustable supports to raise the front side slightly and make the doors easier to close. ➡ **Page 7**
	The alarm will sound	❶ Check if the doors are closed.	Refer to “When the door alarm sounds” and “When the alarm cannot be turned off”. ➡ **Page 20**
Operation Panel	**The operation panel does not respond** 	❶ Is  lit?	Cancel the Child Safety Lock. ➡ **Page 19**
		❷ Are the user's fingers or the operation panel wet or dirty?	Wipe off the moisture and dirt on the operation panel and fingers.
		❸ Are you repeatedly touching it?	Let your flnger off the operation panel once and then touch it again. It will respond when you let you finger off.
		❹ Are seals and tapes put on the operation panel?	Remove the seals and tapes.
	Reacts without a touch	❶ Are there any towels, plastic bags, papers, etc. over the operation panel?	Remove the towel, plastic bag, paper, etc.
Condensation/ Frost	**Condensation forms on the outer walls and inside the refrigerator** **Frost forms in the freezer compartment** **Water drips onto the floor**	❶ Are the doors being opened frequently, or are there any gaps?	Close the doors so that there are no gaps. When moisture in the air cools, it forms frost or condensation. When there is high humidity, condensation or frost will form even in very small gaps. Regarding the Vegetable Compartment ➡ **Page 10**
		❷ Is the humidity high, for example is it raining?	Condensation may form temporarily. Wipe off with a dry cloth. Condensation may cause frost to form in the freezer compartment. Please minimize the time when doors are kept open.
Others	**There are lines like scratches on the clear parts**	❶ Is it a thin line without level difference on its both sides?	This is a mark created at the time the plastic is molded. It is created at the joint where resin flows. This is not a flaw.
	There are holes in the door and the refrigerator walls	❶ Are there small holes in the door or in the refrigerator walls?	These are holes that let air escape for the injection of foam heat insulating materials in the manufacturing process. These are not flaws or abnormalities.
	The surface of the sides or doors is warped	❶ Does the light reflected on the surface appear distorted?	Warping and surface waviness occurs in the manufacturing process. When light hits the surface, it may appear warped, but this is not an abnormality.
	Noise interferes with televisions or other devices	❶ Is the refrigerator installed near an electronic device such as a television?	Install the refrigerator away from electronic devices such as televisions.
		❷ Is the power to the refrigerator supplied from a socket near the entry hole of the antenna cable?	Use separate power. When using a 2 pin plug, use grounding.
	There is a bothersome smell (Food / Ice)	❶ Have you placed food with strong odor inside the refrigerator without sealing it in a container?	Store food with strong odor in packaging. The odor may not be removed with a deodorizing apparatus.

Accessories

	Model	MR-L650EN	MR-L710EN
	Accesories	**Quantity**	**Quantity**
Refrigerator Compartment	Tempered glass shelf (small)	1	1
	Tempered glass shelf (large)	1	2
	Utility case (small)	1	1
	Utility case (large)	1	1
	Vegetable case	1	1
	Vegetable case cover	1	1
	Adjustable pocket	1	-
	Door pocket (small)	-	1
	Adjustable pocket (small)	-	1
	Door pocket	1	1
	Bottle pocket (small)	1	1
	Capsule door pocket	1	1
	Door pocket (large)	1	-
	Adjustable pocket (large)	-	1
	Egg shelf	1	1
	Bottle pocket (large)	1	1
Freezer Compartment	Ice tray	1	1
	Ice storage box	1	1
	Freezing case (small)	2	2
	Freezing case (middle)	1	1
	Freezing case (large)	1	1
	Support cover	1	1

■ This appliance is designed for use in Australia and New Zealand only and cannot be used in any other country. No service is available outside of Australia and New Zealand."

MODEL NAME	COUNTRY NAME
MR-L650EN/L710EN-A	AUSTRALIA / NEW ZEALAND

CAUTION

1. This appliance is designed for use in ambient temperature listed below.

MODEL NAME	AMBIENT TEMPERATURE RANGE	CLIMATIC CLASS
MR-L650EN, L710EN-A	16 °C ~ 43 °C	T

The internal temperatures could be affected by such factors as the location of the refrigerating appliance, ambient temperature and the frequency of door opening, and, if appropriate, a warning that the setting of any temperature control device might have to be varied to allow for these factors.

2. A rise in temperature of the frozen food during manual defrosting, maintenance or cleaning could shorten the storage life.
3. Food to be frozen is not to be placed in direct contact with food in storage and, if appropriate, that it could be necessary to reduce the quantity to be frozen if freezing every day is anticipated.
4. The electrical power failure for 1-2 hour will only slightly affect the inside temperature. However, opening and closing the door results in temperature loss. In case there is more than 24 hours electrical power failure, the food should be taken out from the fridge.
5. In case you are leaving or there is no food in the fridge for more than 3 weeks, The fridge should be unplugged and cleaned.

MEMO

MEMO

- This refrigerator uses flammable foaming gas for insulation.
  Please deliver the unit to specialized industrial waste dealer when you dispose of refrigerator.
  Please follow the laws in your country in regards to disposal of refrigerators.
- WARNING - Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
- WARNING - Do not use electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer.
- WARNING - Just in case of having damaged the refrigerant circuit, do not use electric items or fire equipments near by, and open the window to ventilate the room. And contact the retail store at which you purchased it or the following MITSUBISHI ELECTRIC SERVICE CENTRE.
- The refrigerator contains flammable refrigerant (R600a: isobutane).
- The refrigeration system behind and inside the refrigerator contains refrigerant.
  Do not allow any sharp objects to come into contact with the refrigeration system.
- Do not block the space around the refrigerator or air circulation will be compromised.
- The user manual should be handed over to any person who would use or handle the refrigerator whenever the refrigerator would be transferred to another location and delivered to a recycling plant.
- The appliance 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 appliance.
- Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.
- This appliance is intended to be used in household application only.

R600a REFRIGERANT WARNING

- This appliance contains a small quantity of R600a refrigerant which is flammable.
- During transportation and installation, ensure that the tubing of the refrigerant circuit is not damaged.
- Leaking refrigerant can ignite and may damage the eyes.
- In the event any damage does occur, avoid exposure to open fires and any device which creates a spark. Disconnect the appliance from the mains power.
- Thoroughly ventilate the room in which the appliance is located for several minutes.
- Notify Mitsubishi Electric Australia Pty Ltd. or Black Diamond Technologies Limited for necessary action and advice.
- The room for installing the appliance must be at least 1 cubic metre per 8 grams of refrigerant. The refrigerant quantity contained in this appliance is noted on the Rating Label of the appliance.

NOTE: THIS REFRIGERATOR CONTAINS FLAMMABLE HYDROCARBON REFRIGERANT. ONLY SUITABLY QUALIFIED TECHNICIANS SHOULD ATTEMPT ANY SERVICE TO THE REFRIGERATION CIRCUIT OF THIS APPLIANCE. SOME JURISDICTIONS REQUIRE A SPECIFIC HYDROCARBON HANDLING LICENCE FOR SERVICING. PLEASE CONTACT MITSUBISHI ELECTRIC AUSTRALIA PTY LTD. SERVICE DEPARTMENT FOR ASSISTANCE.



If an abnormality or malfunction occurs, stop operation immediately and contact the retail store where you purchased the refrigerator or a MITSUBISHI ELECTRIC SERVICE CENTRE or its service agent.

SOLE AGENT in Australia
MITSUBISHI ELECTRIC AUSTRALIA PTY LTD.
(Incorporated in New South Wales) ABN 58 001 215 792
348 Victoria Road, Rydalmere NSW 2116

For more information and support contact
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Call 1300 651 808

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MITSUBISHI ELECTRIC CORPORATION

NZ79C732H01