MITSUBISHI ELECTRIC

Refrigerator-Freezers

SERIES MODEL

MR-L650EH, MR-L710EH

OPERATING INSTRUCTIONS

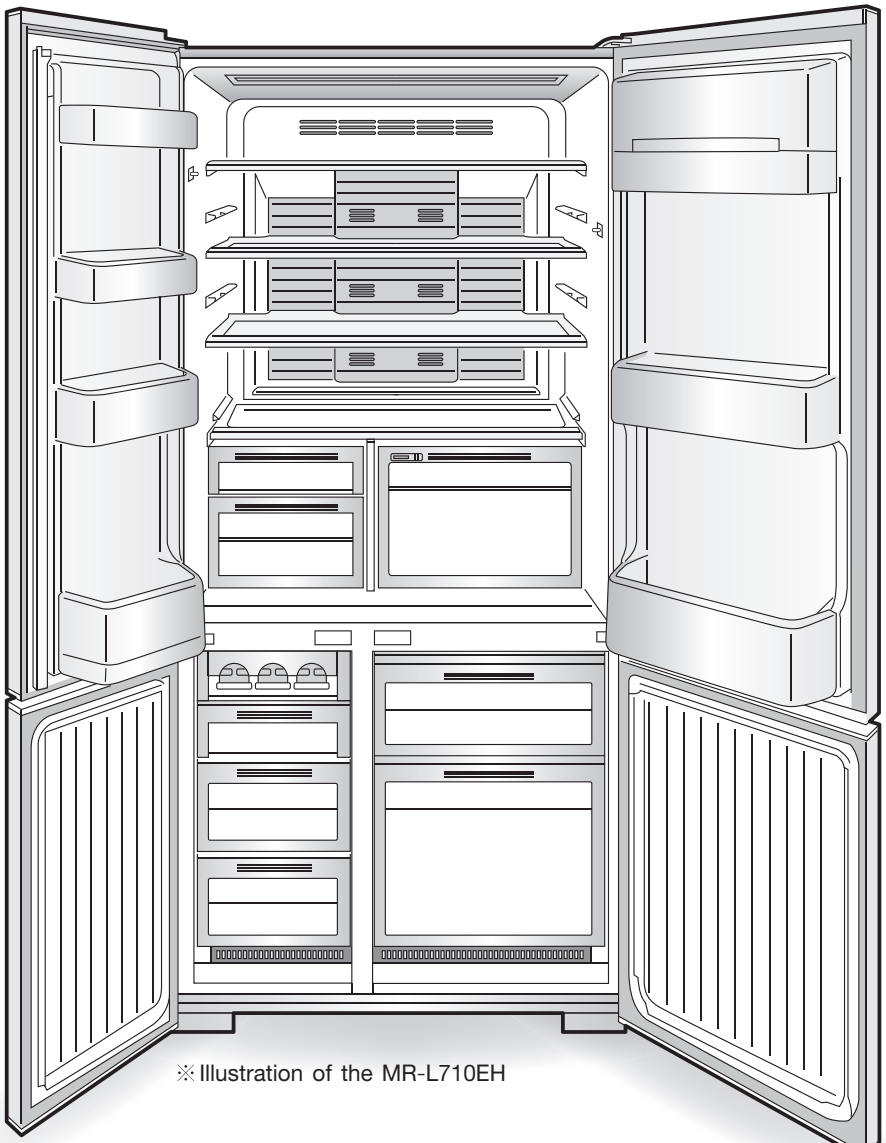


R600a

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-L710EH



Vitamin Factory

The vitamins in vegetables are boosted by the LED.

ECO MODE

Use when you want to save power.

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

INVERTER ECO

- 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-L710EH. While the capacity and dimensions of the MR-L710EH are different from the MR-L650EH the operation is the same.
- The material names are indicated on the main plastic parts to facilitate recycling.

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Safety Precautions

Danger and degree of danger caused by improper handling are categorized and described by the following indicators.

Warning

Improper handling can result in death or serious injury.

Caution

Improper handling can result in personal injury or damage to your house, household furnishings, etc.

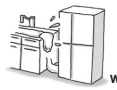
■ Meaning of symbols.

- Never do
- Never touch
- Never attempt to disassemble, repair or alter
- Never expose to water
- Never touch with wet hands
- Be sure to follow the instructions
- Be sure to remove the power plug from the socket

If an abnormality or malfunction occurs, stop operation immediately and contact the retail store where you purchased the refrigerator or MITSUBISHI ELECTRIC SERVICE CENTRE or Customer Service representative.

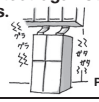
Warning

Installation

Do not install the refrigerator outdoors or in places exposed to water or excessive humidity.
Water may cause insulation failure, resulting in an electric shock or fire.
▶ Page 6

Water prohibited

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 extension cords and plugging too many leads into a single socket can cause heat build-up or fire.
▶ Page 6

Only use an outlet that meets the specified rating.

Anchor the refrigerator to a strong wall or post to protect against damage during earthquakes.
The refrigerator may tip over and cause injury.
▶ Pages 6 - 7

Prevent tipping

Insert the power plug with the cord facing down, and fully insert the prongs.
Inserting the plug upside-down places stress on the cord and may cause heat generation or fire.

Cord facing down

If the power cord is damaged, call our MITSUBISHI ELECTRIC SERVICE CENTRE for the replacement.
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.
▶ Page 6
Service Call

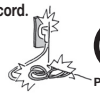
Leave space around the refrigerator.
If refrigerant leaks, it may accumulate and catch fire or explode.
▶ Page 6

Leave space

Power and power plug

Remove the power plug before cleaning.
Otherwise an electric shock or injury may result.

Remove plug

Do not crush the power plug with the rear of the refrigerator.
Do not damage the power cord.
Pressing, folding, bundling or placing heavy objects on the power cord may cause an electric shock or fire.

Prohibited

Do not use damaged cords or plugs, or loose sockets.
Doing so may cause an electric shock or fire.

Do not use

Do not pull the cord when unplugging the power plug.
The cord may be damaged, resulting in electric shock or fire.

Prohibited

Remove dust periodically from the power plug.
Dust may cause insulation failure, resulting in fire.

Remove dust

Do not plug in or out the power plug with wet hands.
Doing so may cause an electric shock.

Wet hands prohibited

Operation

Do not place water containers on top of the refrigerator.
Exposing electrical parts to water may cause an electric shock or fire.

Water prohibited

Do not use electrical appliances inside the refrigerator.
The refrigerant gas leaking into the compartment with sparks from an electrical contact may cause fire and explosion.

Prohibited

Do not place volatile, inflammable objects inside the refrigerator.
Benzene, cosmetics and hair dressing products may catch fire or explode.

Do not store

Do not place objects on top of the refrigerator.
Objects may fall when the doors are opened or closed and cause injury.

Prohibited

Do not store chemicals or scientific specimens in the refrigerator.
Substances that require strict control must not be stored in household refrigerators.

Do not store

Do not hang from the door or handle. Do not climb on an open door. Do not apply a heavy load.
The refrigerator may tip over and cause injury.

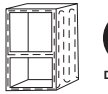
Prohibited

Do not wash with water or spill soup or juice onto the refrigerator.
Water or other liquid may cause an electric shock or fire. Wipe off any liquid immediately.

Water prohibited

Do not use combustible sprays near the refrigerator.
Sparks from an electrical contact may cause an ignition and fire.

Do not use

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 do

When opening and closing the door, be careful not to let it hit any surrounding furniture.
There is a risk of injury and damaged to the door or furniture.
Prohibited

Do not use in a shed or garage.
Pet animals may damage the electrical wiring and cause an electric shock or fire.
Do not use

Only use refrigerant specified by the company.
See rating label inside Refrigerator for refrigerant type.
Prohibited

- 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.

Malfunctions and long-term storage

If an abnormality occurs (such as a burning odor), unplug the power plug and stop the refrigerator operation.
Continuing to operate with an abnormality may cause an electric shock or fire.

Remove plug

Do not disassemble, repair or alter. Do not use while parts are damaged.
Doing so may cause injury, electric shock or fire.

Do not disassemble

If there is a possibility of a child getting trapped in the refrigerator during storage, pull out and remove the door seal.
Children getting trapped in refrigerators is very dangerous.

Remove door seal

When not using the refrigerator for a long time, unplug the power plug and open the doors to dry the refrigerator.
If the refrigerator is not dried sufficiently, refrigerant may leak due to condenser corrosion and cause a fire or explosion.
Dry

Contact the retail store or municipal government for details about correct refrigerator disposal.
Improper disposal may cause refrigerant leaks, resulting in a fire or explosion if exposed to a flame.
Dispose properly

If the refrigerant circuit (pipe) is damaged, do not touch the refrigerator and avoid using flames. Open windows to ventilate.
If the refrigerant circuit is damaged, contact the retail store.

Ventilate

Caution

Installation and transportation

Anchor the refrigerator to a strong and level floor by adjusting the adjustable supports.
Otherwise, the refrigerator may move and cause injury.
▶ Pages 6 - 7
Install level

Use the transportation hand-holds when transporting the refrigerator.
Holding other parts may result in injury.
▶ Page 16
Use the hand-holds

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.
Use protective material

Operation

Do not pack in excessive amounts of food. Do not pull the shelves with excessive force.
Food may fall out and cause injury.

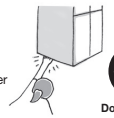
Prohibited

Do not place glass bottles in the freezer compartments.
The bottle may break if the liquid inside freezes, causing an injury.

Do not store

Do not touch food or containers in the freezer compartment with wet hands.
Doing so may cause a cold injury.

Wet hands prohibited

Do not put your hands or feet under the refrigerator.
The steel plates or other parts may cause injury.

Do not touch

Observe the following when opening and closing the doors.
- Do not open or close the doors when anothcr 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 bottom drawer. (Danger of your toes caught by the drawer.)

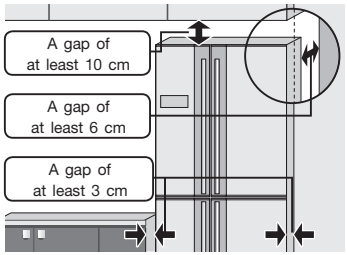

Prohibited

Do not eat food that is discolored or has a bad odour.
Doing so may result in food poisoning or illness.

Prohibited

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.
Romove and put back shelves property

From Installation to Operation



1 Installation

Install the refrigerator at:

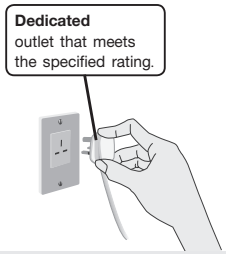
- **A place with good ventilation not exposed to direct sunlight or hot air**
  To prevent a diminishing in cooling performance and to reduce power costs.
- **A place with low humidity**
  To prevent rusting, electric shock and fire.
- **A strong and level place**
  To prevent vibration and noise, and 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.



2 Connect the power supply

*Connect power supply soon after installing the refrigerator



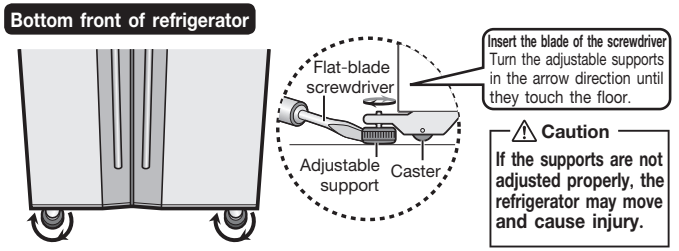
Turn on the power of the refrigerator as soon as possible.
The refrigerator will not be damaged even if you turn on the power immediately after the installation.

- **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 the 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. A qualified service person should only replace the power cord.



⚠ Caution

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

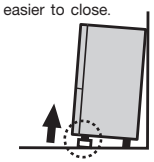
3 Adjustment and anchoring

(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.

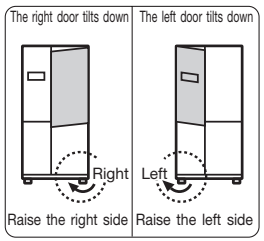
- **Preventing ajar doors**

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**

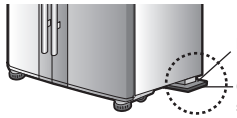
Readjust the adjustable supports as shown in the figures below.



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.)

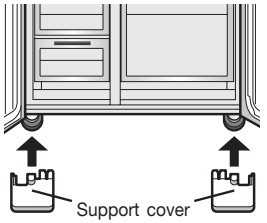


⚠ Warning

If you notice a gas leak, do not touch the refrigerator. Open windows to ventilate.

Sparks from an electrical contact may cause an explosion or fire.



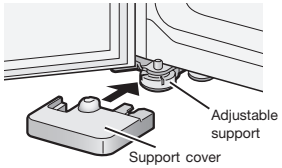


4 Support cover

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.



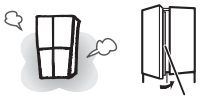
The support covers are designed for the left and right adjustable supports respectively.

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.

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

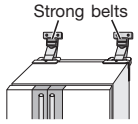
In the summer, it may take more than 24 hours.

Prepare for earthquakes. (for earthquake prone areas)

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. To obtain the refrigerator tipping prevention belts.

⚠ 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

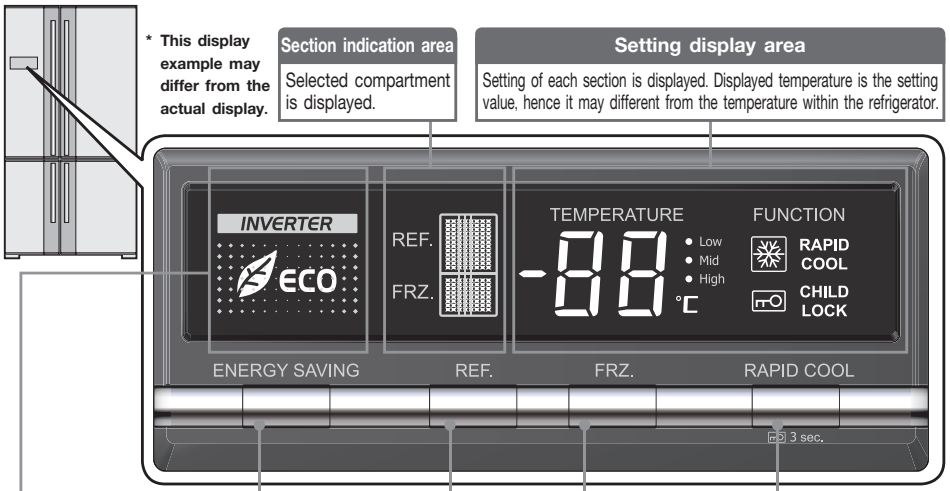
Should the refrigerant circuit be damaged:
1. Do not use flames or electrical appliances nearby.
2. Open the windows to fully ventilate the room.

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

Using the Control Panel

The control panel display light is normally turned off to save power.

- **To check a setting status, turn on the display by pressing any button on the control panel.**
- **To set a section, press the relevant button when the control panel is illuminated.**
- **The control display panel turns off after 30 seconds if there is no operation to save power.**



* **This display example may differ from the actual display.**

Section indication area
Selected compartment is displayed.

Setting display area
Setting of each section is displayed. Displayed temperature is the setting value, hence it may different from the temperature within the refrigerator.

ENERGY SAVING button
ECO MODE can be selected.

Section selection and temperature adjustment button
Temperature in the refrigerator and freezer can be selected. ▲Page 10

RAPID COOL button
Rapid cooling mode can be selected. ▲Page 10

ECO MODE

Use when you want to save power. When the temperature inside the refrigerator is stable, the power-saving operation is performed automatically. (Operates with the freezer compartment temperature set slightly higher.)

Setting ECO MODE

1 Press ENERGY SAVING .

To cancel

1 Press ENERGY SAVING **to turn off** .

ECO MODE

If ECO MODE is set, is displayed.
If switched to power saving operation while ECO 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.

ECO 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 stuff the compartments with too much food or do not place foods in manner to cover the cold air outlets. Or else, cold air does not flow through optimally in the compartments,causing the foods to take time getting cool or frozen and increase electric power consumption.

Child safety lock

Locks the control panel to prevent accidental button operations by children.

Setting the child safety lock

1 Press RAPID COOL **for about 3 seconds.** (Until the buzzer sounds twice.)
CHILD LOCK lights up.

To cancel

1 Press RAPID COOL **for about 3 seconds.** (Until the buzzer sounds twice.)

• Even if the child safety lock is set, the compartment selection can be operated.

Reset the Settings

Returns the compartment selection, temperature control, ECO MODE, rapid cooling settings and temperature fine adjustment mode to their initial condition (at the time of purchase). Use for example if you have forgotten the settings.

Resetting

1 Press ENERGY SAVING **and** REF. **at the simultaneously for about 3 seconds.** (Until the buzzer sounds twice.)

About the door alarm

The door alarm beeps when the refrigerator or freezer compartment door is opened for more than 1 minute.

The door alarm beep varies depending on how long the door has been opened. See below for details.

Door open time	1 minute	2 minutes	3 minutes	4 minutes	5 minutes or longer
Alarm	2 beeps	3 beeps	4 beeps	Continuous long beeps	Continuous short beeps

- The compartment displays on the control panel blink in time with the door alarm sounding.
- Check for an ajar door or trapped food (Door packing, rear side of the drawer cases). (Check at least once a month.)
- If the alarm keeps sounding even after closing the doors, contact the retail store where you purchased the refrigerator or MITSUBISHI ELECTRIC SERVICE CENTRE.

If the control panel display blinks

The refrigerator is in the demonstration operation when the entire display blinks 3 times in regular intervals, or the compartment display and temperature control display blinks repeatedly in order.

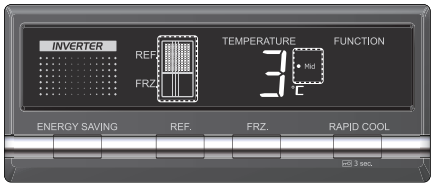
The refrigerator does not cool in this mode.

Cancel the demonstration operation.

▶ **Page 16**

Setting the Refrigerator and Freezer compartment

Setting the temperature in the refrigerator and freezer compartments



* Display example

1 Press REF. or FRZ. to display the compartment that you want to set.

The compartment display changes each time the button is pressed.

2 Repeatedly press REF. or FRZ. to set the temperature.

The • High • Mid • Low display changes each time the button is pressed.

Temperature control					
Compartment display	When cooling is too strong • Low	When cooling is a little too strong • Mid • Low	Standard*1 • Mid	When you want to cool a little more • High • Mid	When you want to cool more • High
REF.	5℃	4℃	3℃	2℃	1℃
FRZ.	-16℃	-17℃	-18℃	-19℃	-20℃

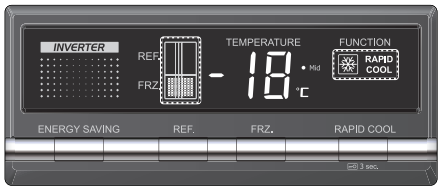
*1: The setting at installation (at time of purchase).

■ To control the temperature more precisely ▶ Page 17

Note

- Before and after defrosting, the temperature inside the refrigerator may drop or rise temporarily.
- To prevent food freezing in refrigerator compartment in the following kinds of situations, set the refrigerator compartment temperature to "Mid Low" or "Low".
  - When the refrigerator compartment temperature is set to "High" or "High Mid"
  - In winter or at other times when the surrounding temperature is 5℃ or less

Rapid cooling



* Display example

1 Press RAPID COOL.

RAPID COOL lights up.

- RAPID COOL stops automatically after about 2 hours.
  (After stopping, RAPID COOL goes off and the temperature reverts to the set temperature automatically.)

When should I use RAPID COOL?

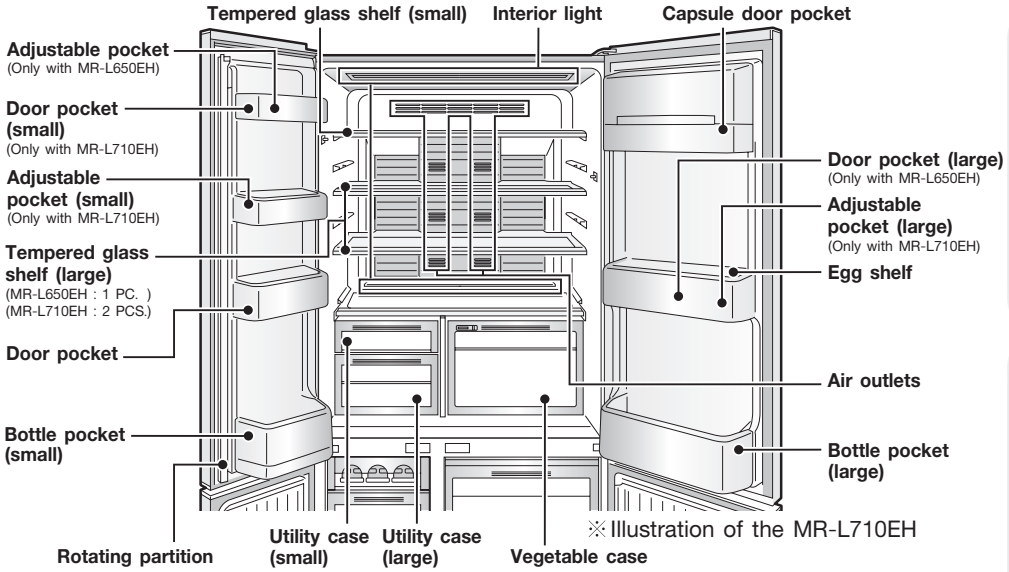
For example, after you have bought a lot of food and you want to freeze them quickly to preserve their freshness.

- You can use rapid cooling even when other food is inside!
- The operation sounds gets louder during rapid cooling, because inner fans operate at high speed.

Stopping before the cooling ends

1 Press RAPID COOL to turn off RAPID COOL.

Refrigerator Compartment



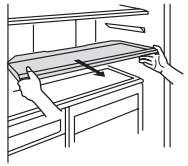
※Illustration of the MR-L710EH

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.)



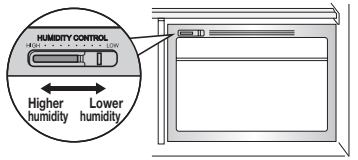
Tempered glass shelf



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 18

■ If the door alarm sounds ▶ Page 9

Wrap food that have strong odours thoroughly before storage

Food that transfers odours easily

Garlic, dried fish, fermented foods, beef, takuan, sardines, kimchi, chinese dumpling, etc.

- A slight odours may remain.

Food to which odours are easily transferred

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

- A slight odours may remain.

Auto closer (equipped in doors)

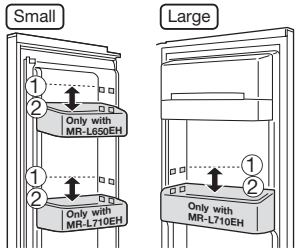
With the door of the each compartment open at an angle of less than around 15 degrees, the door closes automatically.

- The auto closer is not a function that automatically closes the door that opens slightly. The door may stop before closing completely if you swing close the door too softly.
- The amount of food inside the compartment may affect the closing speed.

Refrigerator Compartment (Continued)

Adjustable pockets

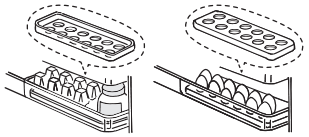
Adjustable to 2 positions



■ Relocate the pockets
▶ Page 15

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.



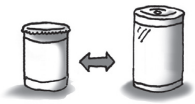
Fully stow away the cases.



Tips for energy saving

ECO — **Set to ECO MODE for automatic energy saving operation.** ▶ Page 8

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.



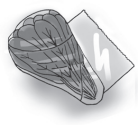
Wipe



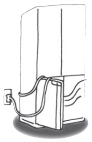
Avoid opening the door frequently or leaving the door open for a long time.



wrap

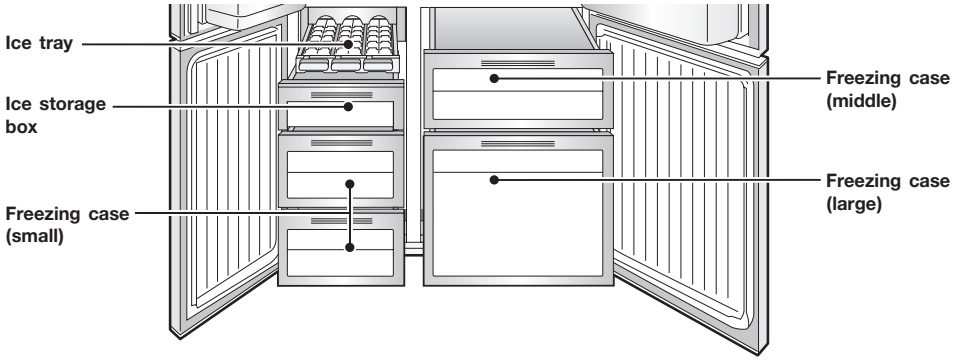


Be sure not to catch food items, plastic bags, power cord, etc. in the door when you close it.



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.

Freezer Compartment





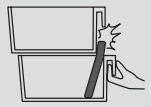
15 cm height of plastic bottles for freezing can be placed standing up in the Freezing case (large).

The bottles intended to let freeze are suitable. In many cases, they are displayed so.

■ If the door alarm sounds ▶ Page 9

Do not place tall objects in the lower freezing case.

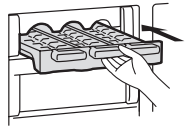
- Food or the slide case may be damaged.
- The door may not be closed.



Making ice cubes

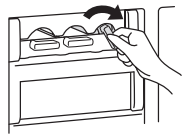
1 Pour water into each of the section of the ice tray up to the water line.

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.



Removing and Cleaning the Parts

To return the parts, perform the removal procedures in reverse.

Step 1 Before cleaning

Remove the power plug



⚠ Warning
Failure to unplug may result in an electric shock.

Wait at least 10 minutes before reinserting the power plug into the socket.
If you insert the plug immediately, the mechanism will not function.

Step 2 How to clean

- Wipe with a soft cloth soaked in lukewarm water, or remove the parts and (Wipe the control panel with a soft, dry cloth.)
- For stubborn dirt, wipe using water mixed with a weak concentration of kitchen only). In particular, be sure to wipe off oily dirt because leaving it may damage



Do not use following alkaline or low alkaline kitchen detergents, alcohol, benzene, thinner, oil, acid, scrubbers, boiling water, or
Doing so may cause the plastic parts (such as the door or damage or rust the doors or painted surfaces.

rinse with water.



detergent (neutral the plastic parts.



scouring powder, powdered soap, similar substances.
handles, caps and cases) to split,

Step 3 After cleaning and periodically

Check the power plug and cord



For safety, clean periodically.

① Unplug the power plug from the socket and check it.
- Check for damage or abnormal heating on the power plug and cord.

② Remove any dust from the power plug and surrounding area, and then wipe with a dry cloth.
③ Firmly insert the power plug into the socket.

⚠ Warning
If the power plug or cord is damaged or dust accumulates, it may cause an electric shock or a fire.

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.

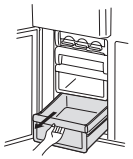
Ice tray / Ice storage box

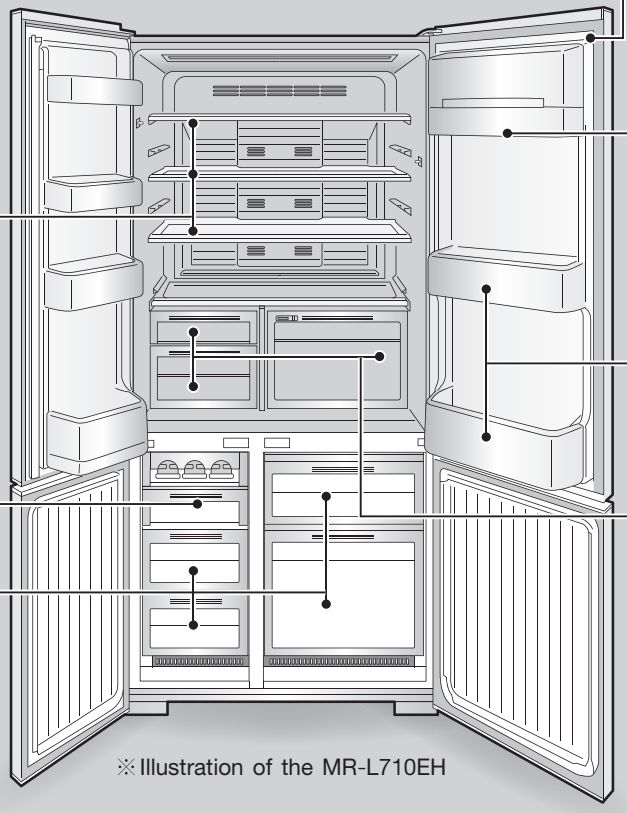
① Open the door.
② Slide out the ice tray and remove.
③ Draw the ice storage case towards you and remove.



Cases in the Freezer compartment

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

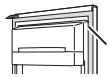




※Illustration of the MR-L710EH

Door seal

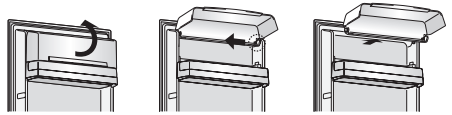
Dirty seal is easily damaged and can cause refrigerated air to leak.



Door seal

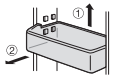
Capsule door pocket

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

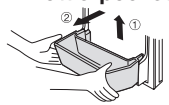


Adjustable pocket / Bottle pocket

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.)

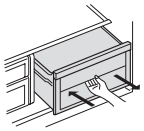
Utility case / Vegetable case

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



The rear of the refrigerator and the floor

① Remove the support covers from the refrigerator.
② Turn the adjustable supports to lift them from the floor and move the refrigerator off the wall. Use protective materials so as not to scratch the floor.
③ Wipe away all dust and soil from the rear of the refrigerator, the wall and the floor. Wipe them clean. Air circulation can cause dust to collect at the rear of and on the floor under the refrigerator, creating black soiled areas. Clean the area periodically as it also contributes to energy saving.
④ Check the floor for a sign of water leaks from the refrigerator.



⚠ Caution
Do not put your hands, fingers or feet underneath the refrigerator. Doing so can cause injury.

Replacing lamps in compartments

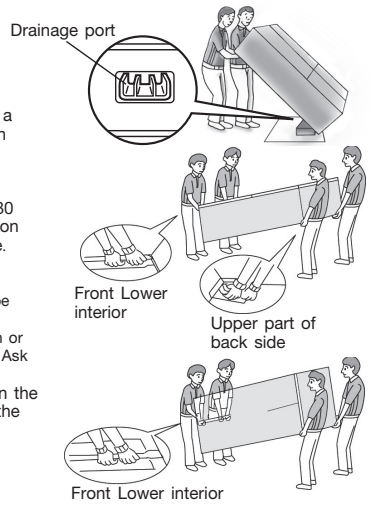
LEDs in the refrigerator compartments and behind of Vegetable case.
Contact the retail store at which you purchased this refrigerator from or MITSUBISHI ELECTRIC SERVICE CENTRE.

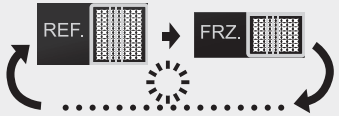
Control panel

Wipe with a soft dry cloth.
*Do not use alcohol, benzene, steel wool or alkaline-base detergents. They can cause the control panel to malfuction.

Other Issues

Issue	Action
A power outage occurs	• Minimize the frequency of opening the doors, and avoid adding more food. • Control panel settings other than the temperature settings may change. Check the settings. (Child safety lock rapid cooling, etc.)
To move the refrigerator or change its orientation	① Remove support covers. ② Raise the adjustable supports. ▶ **Page 7** ③ Lay protective material under the casters and rear supports to prevent floor damage. ④ Move the refrigerator to the forward and backward directions. * Dragging in directions other than forward and backward may damage the floor.
When not using the refrigerator for a long time	① Remove all stored food from inside the refrigerator. ② Unplug the power plug, 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 (when moving house, etc.)	① Empty any water or ice from the ice tray. ② Wear protective gear (gloves). ③ Remove the support cover and raise the adjustable supports. ④ Unplug the power plug. ⑤ 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. ⑥ 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 2 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. ⑦ 4 or more people should hold the hand-holds on the lower inside of the front 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.)



Demonstration operation status When the entire display blinks 3 times at a certain interval even though you have not operated any buttons When the compartment displays and temperature control displays on the control panel blink in order 	• The refrigerator does not cool in this mode. Contact the retail store where you purchased the refrigerator, or cancel the demonstration operation with the procedure below. **To cancel the demonstration operation** ① Keep the doors of the refrigerator compartment open. ② Press REF., FRZ. and RAPID COOL at the same time for about 5 seconds. ③ Make sure that there is no blinking of the display area for after a minute. (If the display still blinks, the demonstration operation has not been canceled.)
When the ⊓O blinks rapidly (about 5 times per second) or the alarm cannot be turned off	Contact the retail store where you purchased the refrigerator as soon as possible. Alternatively, contact MITSUBISHI ELECTRIC SERVICE CENTRE. • Press ENERGY SAVING and RAPID COOL at the same time for about 3 seconds to stop the alarm. An inspection is required. Contact the retail store where you purchased the refrigerator or a MITSUBISHI ELECTRIC SERVICE CENTRE or Customer Service representative.

To control the temperature more precisely
(Temperature fine adjustment mode)

When the refrigerator or freezer compartment is selected, you can control the temperature more precisely.

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

Setting the temperature fine adjustment mode

Press REF. and FRZ. at the same time for about 3 seconds. (Until the buzzer sounds twice.)

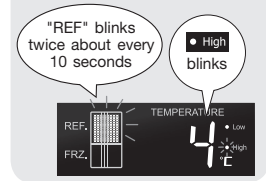
To cancel: The same operation as above.

Performing the temperature fine adjustment

① Press REF. or FRZ. to display the compartment for which you want to perform fine temperature adjustment.

② Repeatedly press REF. or FRZ. to perform fine adjustment of the temperature.

Example: To set the refrigerator compartment 0.6°C lower than the Low setting



* The values on the right are approximate. The temperature may differ from the values on the right, depending on factors such as the food storage condition and how often the doors are opened.

This represents a blinking display.

	Refrigerator or freezer compartment
• Low	Low setting Note 1: ▶ **Page 10**
• Low • Mid	About 0.3°C lower than "Low"
• Low • High	About 0.6°C lower than "Low"
• Low • Mid	Low medium setting ▶ **Page 10**
• Low • Mid	About 0.3°C higher than "Mid"
• Mid	Medium setting ▶ **Page 10**
• Mid • High	About 0.3°C lower than "Mid"
• Mid • High	Medium high setting ▶ **Page 10**
• Low • High	About 0.6°C higher than "High"
• Mid • High	About 0.3°C higher than "High"
• High	High setting ▶ **Page 10**

Specifications

This appliance is designed for use in Australia, New Zealand only and can not be used in any other country.
No servicing is available outside of Australia, New Zealand.

	Accesories	Units	
	Model	MR-L650EH	MR-L710EH
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
	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
	Leg cover (Right and Left)	2	2

When in trouble

First, check the items described in this section. If the problem persists, contact the retail store where you purchased the refrigerator as soon as possible.

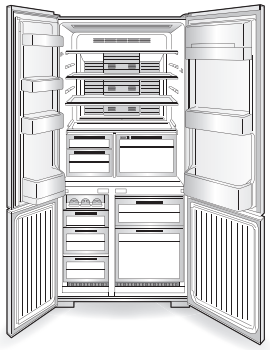
Frequently asked questions in the initial period and in summer

The refrigerator does not cool at all!

- The refrigerator takes time to cool when you first start using it. Especially in the summer, it may take up to 24 hours for the inside to be fully cooled.
- Are the displays on the control panel blinking?
  → Demonstration operation: ▶ Page 16
- Is the power plug disconnected or has the circuit breaker tripped?

The outer walls heat up!

- The outer walls heat up significantly (to about 50 to 60°C) immediately after installation and in the 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. ▶ Page 6
- A heat discharging fan is located at the bottom of the refrigerator. Warm air may be blown from here.



※Illustration of the MR-L710EH

Questions about operation and handling

The control panel turns off automatically!

- To save power, the display goes off if there is no operation for about 30 seconds. ▶ Page 8

Strong odours on the food or ice!

- Have you placed food with strong odours inside the refrigerator without sealing in a container? ▶ Page 11

Problem	Check	Explanation and action
Does not cool well Not much ice is made Ice melts	①Is "Low" set as the temperature for the compartment? ②Has enough time passed after installation? ③Is heat discharging being blocked? Check there is gap around the refrigerator and the refrigerator is not exposed to direct sunlight. ④Is the flow of cold air being blocked? Are the doors being opened frequently, or is a door ajar?	①Set the temperature to "Mid" or "High". ②It takes about 4 or 5 hours for the refrigerator to cool, and up to about 24 hours in the summer to make ice. ③Check that the refrigerator is installed correctly. ▶ Page 6 ④Check the quantity of food inside and ajar door. ▶ Pages 12
Food freezes in the refrigerator compartment	①Is the temperature on the control panel set to "High"? ②Is food with a lot of moisture stored at the rear of the shelf? ③Is the surrounding temperature 5°C or less?	①Set the temperature to "Mid". Note that in the rapid cooling operation, the temperature inside the refrigerator drops temporarily. ②Place drinks and food containing a lot of moisture, such as tofu, vegetables and fruit, at the front. ③Freezing is likely to be prevented when the temperature settings of the refrigerator compartment and vegetable compartment are set to "Low".
Cannot adjust the temperature	①Is displayed?	①Cancel the child safety lock. ▶ Page 9
Condensation forms on the outer walls and inside the refrigerator Frost forms in the freezer compartment Water drips onto the floor	①Are the doors being opened frequently, or is a door ajar? ②Is the humidity high, for example is it raining?	①When moisture in the air cools, it forms frost or condensation. Even when a door is open only slightly, it can cause frost or condensation, or dripping onto the floor. ▶ Page 12 ②Condensation may form temporarily. Wipe off with a dry cloth. It is also easy for frost to form in the freezer compartment. Minimize the time that the doors are open.
Doors open easily Doors do not close	①Is a door making contact with food or a case? Is too much food packed inside? ②Has food fallen behind a case in a drawer door, or is the power cord or another object trapped between the refrigerator and a door? ③Is the refrigerator installed stably? Are the adjustable supports making contact with the floor?	①Store food so that the door does not make contact with objects when closed. ②Remove any objects. Make sure that the door does not trap objects such as food, power cords or plastic bags. ③Lower the adjustable supports to raise the front side slightly and make the doors easier to close. ▶ Page 7
Door alarm sounds	①Is the door of the refrigerator or freezer compartments open? ②Is the rotating partition of the refrigerator compartment turned up to the front?	①Close the door. The alarm sounds at every minute after the door is opened, and after 4 minutes it sounds continuously. If the alarm sounds even after closing the door, press the ENERGY SAVING button and RAPID COOL button at the same time for about 3 seconds to stop it. An inspection is required. Contact the retail store where you purchased the refrigerator or MITSUBISHI ELECTRIC SERVICE CENTRE. ▶ Pages 9, 16 ②Check the position of the rotating partition while the doors are open. ▶ Page 11
Ice cube is small or joined together	①Has ice been stored inside for a long time?	①If the ice is stored for a long time, ice cubes may stick together or shrink. (Due to a phenomenon called sublimation.)
Noise interferes with televisions or other devices	①Is the refrigerator installed near to an electronic device such as a television? ②Is the power to the refrigerator supplied from a socket near the entry hole of the antenna cable?	①Install the refrigerator away from electronic devices such as televisions. ②We recommend using a dedicated power supply.
Loud noises Annoying noise (These noises are normal.)	①The noise gets louder suddenly or the tone changes. ②A whistling sound is made after closing a door. ③A hissing, bubbling or running water sound is made sometimes. ④A whipping or dripping sound is sometimes heard from inside the refrigerator after a door is opened. ⑤A buzzing sound is made sometimes.	①Immediately after installation, when the weather is hot, when the doors are frequently opened and closed, during the rapid cooling operation, and in similar situations, the refrigerator switches to high-speed operation and cools with high power. ②This is the sound of the fan motor starting. ③This is the sound of the refrigerant (gas) flowing. ④This is the creaking sound as warm air enters and expands the plastic. ⑤This is the operating sound of the damper as it adjusts the air flow.

CAUTION

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

MODEL NAME	AMBIENT TEMPERATURE RANGE	CLIMATIC CLASS
MR-L650EH, L710EH-A	16 °C ~ 43 °C	T
MR-L650EH, L710EH-NZ	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 effect the inside temperature. However, open & close of the door results in the 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.

- This refrigerator uses flammable foaming gas for insulation.
  Please deliver the unit to specialized industrial waste dealer when you do away it.
  Please follow the rules in your country.
- 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 equipment 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 openings on the circumstances of the refrigerator.
- 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.

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. 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.
- If your Mitsubishi Electric Refrigerator should require service, please contact Mitsubishi Electric Australia Pty Ltd see back page of this user manual for contact details.

NOTE: MITSUBISHI ELECTRIC AUSTRALIA PTY LTD. DO NOT ALLOW SERVICE TO THE REFRIGERATION CIRCUIT OF THIS APPLIANCE.



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

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