

Operating Instructions Refrigerator

For Household Use



Model No.:

NR-XZ520C
NR-XZ590H
NR-XZ550H

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■ NON-CFC

NON-CFC MATERIALS have been used for the refrigerant (R600a) and for the insulation (Cyclopentane), making this product better for the Earth's Ozone Layer.

Thank you for purchasing the Panasonic product.

- Please read these instructions carefully and follow safety precautions on Page 2 ~ Page 4 before using this product.
- Please make sure the date and name of store of purchase are stamped in warranty card and keep it with this operating instructions.

Safety Precautions

Please be sure to follow these instructions.



WARNING

This sign means: It may lead to a serious injury or death.



These signs mean prohibited action.



This sign means required action.



This sign means the appliance must be earthed to prevent electric shock.



CAUTION

This sign means: It may result in injury or property damage.



isobutane

Risk of fire/flammable materials.

Otherwise, it may cause a fire, injury, electrical shock.



WARNING

In case of emergency:



- Maintenance work should only be carried out by a qualified technician.



- **Do not** store explosive substances, such as aerosol cans with a flammable propellant, etc. in the refrigerator.
- **Do not** use electrical appliances such as a deodorizer in the refrigerator. Leaked refrigerant may catch fire from a spark of the electrical contacts and may cause an explosion.
- **Do not** use electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer.



- **Do not** disassemble, repair or modify the refrigerator by yourself. If you want to repair the refrigerator, please consult your dealer or authorized service center.
- **Do not** use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.

When recycling the product:



- Before taking the refrigerator to be recycled, please remove all the door gasket to prevent locking a child in it.
- The warning labels mentioned above should be kept throughout the life of the refrigerator.
- The operating instructions 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.
- In regards to local laws, Cyclopentane is used for insulation of this refrigerator. When you throw away this unit, please discard it by proper method and do not dispose it by burning.

For power plug and power cord:



- **Do not** plug or unplug with wet hands.
- **Do not** let the power cord or power plug be damaged.



- Disconnect power plug when cleaning.
- Only plug into a wall outlet of the correct rated voltage and current, and fully insert the power plug on its own.
- Reserve one socket for the refrigerator only. Avoid connecting many appliances to the same socket and unroll the full length of the power cord.
- Remove dust periodically from the power plug.
- If the power cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- If you detect burning smell, disconnect the power plug and ventilate the kitchen.
- **Stop** using the refrigerator and unplug the unit immediately if there is an abnormality or failure. Abnormality and failure examples:
 - Power cord or power plug is abnormally hot.
 - Power cord is deeply cut or deformed.
 - There is burning smell.
 - You can feel tingling electricity when you touch the refrigerator body.

When using:



- **Do not** damage the cooling circuit (piping on the back).
- **Do not** touch the compressor and pipes, because of high temperature, that there is a risk of burn injury.
- **Do not** let any children hang onto the refrigerator's door, it may fall and injure the child.
- **Do not** place or store open containers of water on top of the refrigerator. Spilled water can cause electrical shocks or combustion.
- **Do not** place multiple socket-outlets or portable power supplies at the rear of the appliance.
- Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.



- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge of using the appliance, 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 refrigerator.

When installing:



- Danger can occur when the appliances is unbalanced, make sure the feet are secure and appliance is level.
- When positioning the appliance, ensure the power cord is not trapped or damaged.



- Ensure that the refrigerator is plugged into an earthed main socket.

Safety Precautions

Please be sure to follow these instructions.

Otherwise it may cause injury, accidents.



CAUTION

When opening/closing the doors:



- While opening the refrigerator, be careful not to pinch other one's hand holding the door.
- Mind the gap between the doors. They may nip your hand while closing the door.



When storing food:



- **Do not** freeze glass bottles, that there is a risk of injury. (If the liquid in a glass bottle is frozen, then the bottle may break and you may be injured.)
- **Do not** add a high impact on glass trays. (Otherwise those glass trays may break and you may be injured.)



When moving the refrigerator:



- Hold the refrigerator tightly when transporting.
- Apply protective covering, etc. to floors with a fragile surface.

Usage Precautions

When opening/closing the doors:

- **Do not** refrigerate items which are bigger than tray or shelf, as the door will not close completely causing leakage of cool air.
- **Do not** open refrigerator frequently or leave it open for long time in order to prevent water dripping inside and waste energy.
- Frequently check the door gasket, it must be closed to the refrigerator's body completely.

When cleaning:

- **Do not** clean the refrigerator with chemical substance or liquid. It will cause damage and have corrosion on the surface.



When using:

- When the power plug is disconnected, leave it for 7 minutes before plugging again. If not, the compressor may not work.
- Adjust the set temperature according to the actual operating condition for energy saving.
- The humidity inside the fresh case may condense so wipe it with a cloth periodically. Clean the fresh case once a month.
- If you will not be at home for several days and there is nothing stored in the refrigerator, the power plug should be disconnected for energy saving. When the refrigerator is not used for several days, it is necessary to take out all remaining food inside the refrigerator, clean and open the doors for a few hours to let the moisture inside the refrigerator dry out and prevent mold or component oxidation.
- The outside wall of refrigerator cabinet may sometimes get warm, especially just after installation. This is quite normal, and is due to the built-in Mullion Dryer Pipe which prevents sweating and radiates heat.
- When humidity is high, e.g. during rainy-season, condensation may appear on the surface of cabinet, especially around the door gasket. Wipe off the condensed water with a clean cloth.
- **Do not** keep the door open any longer than necessary, particularly in hot, humid weather.
- The top of the refrigerator is made of steel in order to prevent fire caused by external influences. **Do not** put things on top of the refrigerator to ensure this factor.



When storing food:

- **Do not** place warm/hot foodstuff in the refrigerator.
- Cool hot dishes in room temperature before placing them in your refrigerator.
- **Do not** overload the refrigerator. Gaps must be provided between foodstuffs to maintain the cooling effect.
- Store fruits and vegetables in Vegetable case, where trapped moisture helps preserve food quality for longer time periods.
- Seal the drinking water and beverage bottles to prevent odor contamination.
- Cover juicy food with tight lids, plastic film or foil.
- Wrapped or packed the food stuff such as vegetables, fruits and fresh food in a box or storage container before freezing.
- Put meat and fish in the Freezer compartment if you want to store them for an extended period.



Installation

Minimum side space for heat dissipation

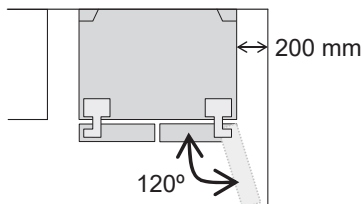
- 10 mm ↑ • The top of the refrigerator is at least 10 mm from the ceiling.



- 4 mm ↔ • The left and right sides of the refrigerator should be at least 4 mm from the walls to ensure proper heat dissipation.

Caution

- In case the refrigerator is placed near to walls, if the wall width exceeds the door opening range, it is necessary to ensure that the space between the left or right side of the refrigerator and the wall is at least 200 mm. If this space is less than 200 mm, the doors may not be fully opened and the glass trays, Vegetable case, etc. could not be taken out.



- When using for the first time: clean the inside of the refrigerator.
 - Use a soft damp cloth to clean the refrigerator.
 - Wipe gently and carefully, avoid removing the lubricant applied to the Door gasket.
 - Rinse the Water tank, Water filter, Ice tray, and Ice box.
 - The smell of plastic could be smelt during the first time using the refrigerator. If the smell is a concern, it is recommended to ventilate the refrigerator.
- **Do not** place the refrigerator in a humid place as rust may form and may cause electric leakage.
- **Do not** install outdoors or exposing to rain or dripping water (near windows, under skylights, beneath air conditioner indoor units).
- **Do not** place the refrigerator exposing to direct sunlight as the heat and sunlight will increase the temperature affecting the cooling capacity.
- **Do not** place the refrigerator near heat sources such as cooking stove or oven.
- **Do not** block the openings around the refrigerator.
- The refrigerator must be placed in an area where there is good air circulation.
- If the refrigerator is to be placed on an uneven surface, please adjust the Adjuster bolts to ensure that the refrigerator is stable.

LED lamp and grounding

- The refrigerator LED lamp, specifically designed for this refrigerator. Do not replace it by yourself. If the LED lamp needs to be replaced, please contact Panasonic service center.
- If there is no grounding wiring plug in the refrigerator, it should be connected with a grounding connection to prevent electrical hazards from electrical leakage.

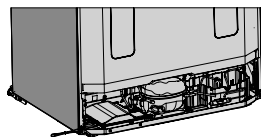
※ For safety, the ground connection should be done

(For refrigerators with plug (2-pin plug) and without a ground wire)

The ground connection will allow prevention of danger resulted from electricity leakage.

The ground connection can be performed in 2 ways as follows:

1. In case the power outlet (socket) already has a grounded outlet, connect the ground wire to the screw used for ground connection on the back of the refrigerator (for the screw used for ground connection, please notice the $\oplus$ symbol). Then connect the other end to the ground outlet.
2. In case the power outlet (socket) does not have a grounded outlet, connect the ground wire to the screw located on the back of the refrigerator (for the screw used for ground connection, please notice the $\oplus$ symbol). Then connect the other end to the earth bar.



Grounding wire

※ Prohibited spots for ground connection

- Gas pipes and water supply pipes (dangers due to electric shock or explosion).
- The ground wires of telephone cords and lightning rods (dangers due to lighting).

Moving or transporting

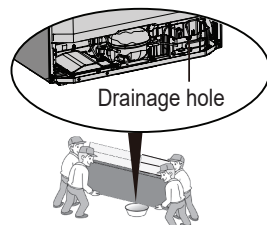
※ Before moving and transporting

- ① Remove any food items and dispose of any ice cubes or water that remain in the refrigerator.
- ② Unplug the refrigerator.
- ③ Adjust the Adjuster bolts (left and right) so that they do not touch the floor.
- ④ Place a container underneath the drainage hole, then slowly tilt the refrigerator backward to drain water from the drainage hole.

This action requires 4 or more people, of which 2 people lift the front of the refrigerator to prevent the refrigerator from sliding and avoiding the risk of accidents.

※ How to move and transport

- At least 4 people are required to transport the refrigerator.
- Each person lifts a corner of the refrigerator.
- Do not transport by holding the refrigerator doors.



Drainage hole



Use tape to secure

Caution

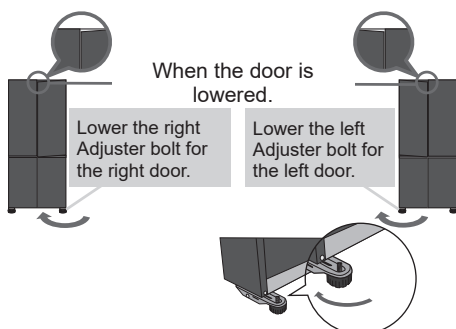
- When transporting, use tape to secure the refrigerator doors to avoid letting the doors open by itself.
- Do not place the refrigerator on its side when transporting, as this may cause damage to the refrigerator.
- After installation, wait at least 4 hours before plugging in the power to ensure that the gas and oil in the compressor are in a stable state.

Installation

If the door is slanted downwards.

Turn the adjuster bolt on the lower side, as shown in the diagram, in order to adjust the level.

- The Freezer/Fridge doors may tilt within four to five days after installation due to the load of the food or adaptation to the floor surface, turn the corresponding adjuster bolt with the dedicated tool to adjust and level the door again to restore.



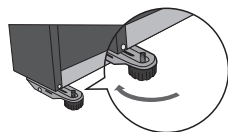
Have any measures taken against tipping due to earthquakes?

In order to prevent the refrigerator from tipping due to earthquakes, permanently fix it by using belts, etc.



Fix the refrigerator.

Turn the Adjuster bolts (right and left) until they reach the floor to stabilize the refrigerator.



Refrigerator doors should not be opened during the interior cooling process.

The doors should not be opened until the interior has been cooled down sufficiently. (Warm air flowing into the interior will block the cooling function.)

Please wait until the interior has cooled down.

- The refrigerator may take at least 4 hours (or longer especially in summer when the ambient temperature is high) of continuous running to cool down the interior, in the condition of no food items inside and the doors are not opened.
- Depending on ambient temperature and usage condition, it may take 24 hours to cool down the interior and achieve the correct temperatures.

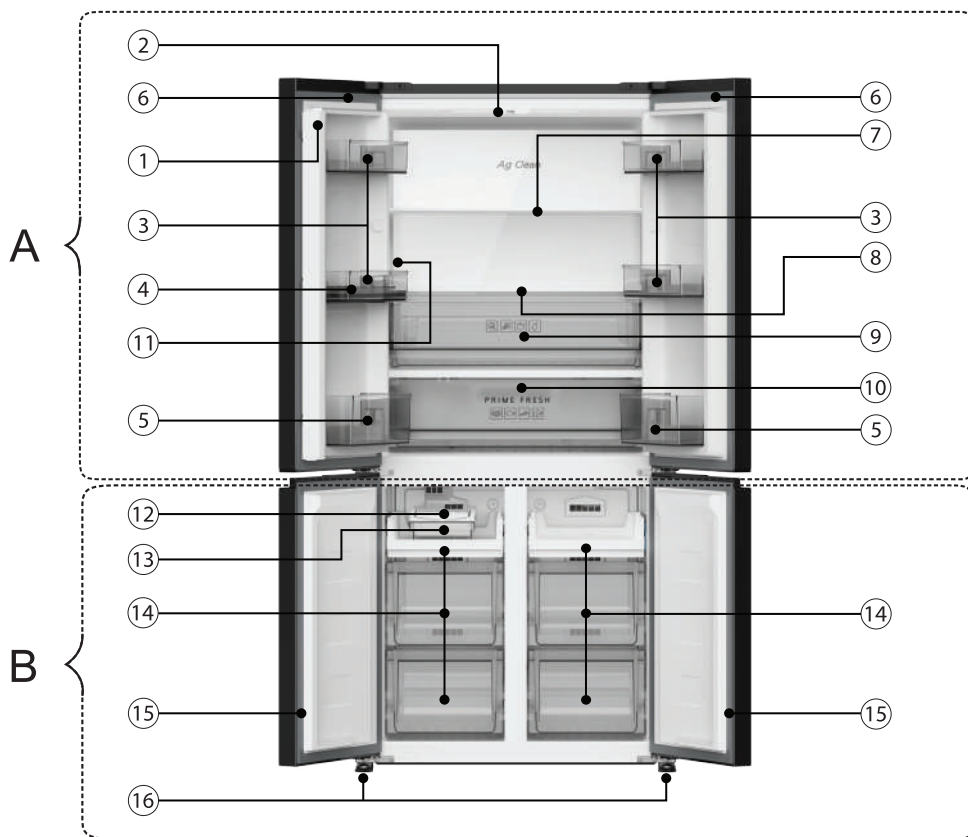


Parts Identification

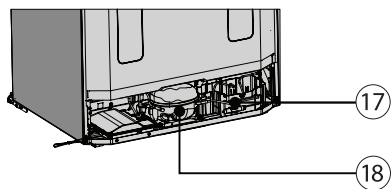
※ Model: NR-XZ520C

Left door

Right door



※ Model: NR-XZ520C



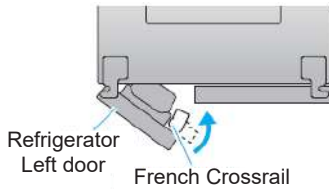
Product view from behind

Parts Identification

A-Fridge compartment

① French Crossrail

The French Crossrail minimizes the gap between the left door and the right door of the refrigerator. If this French Crossrail is opened forward, put it back into place. (Otherwise, the refrigerator doors cannot be closed fully, causing the refrigerator to lose cool air.)



② LED of Fridge compartment

③ Door shelf of Fridge compartment (Quantity: 4 pcs)

④ Egg tray

⑤ Bottle shelf

⑥ Door gasket of Fridge compartment (Quantity: 2 pcs)

⑦ Glass tray of Fridge compartment

⑧ Glass tray of Vegetable case

⑨ Vegetable case

⑩ Prime Fresh case

⑪ Operation Panel

B-Freezer compartment

⑫ Ice twister

⑬ Ice box

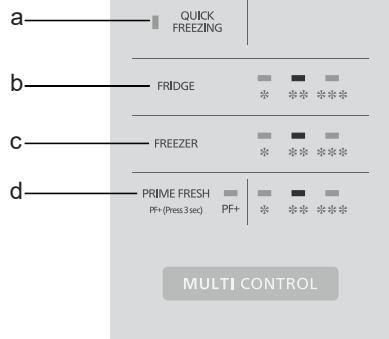
⑭ Freezer case (Quantity: 6 pcs)

⑮ Door gasket of Freezer compartment (Quantity: 2 pcs)

⑯ Adjuster bolts (Quantity: 2 pcs)

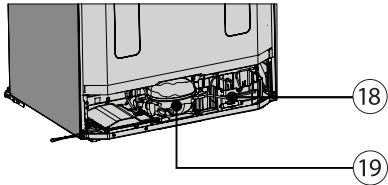
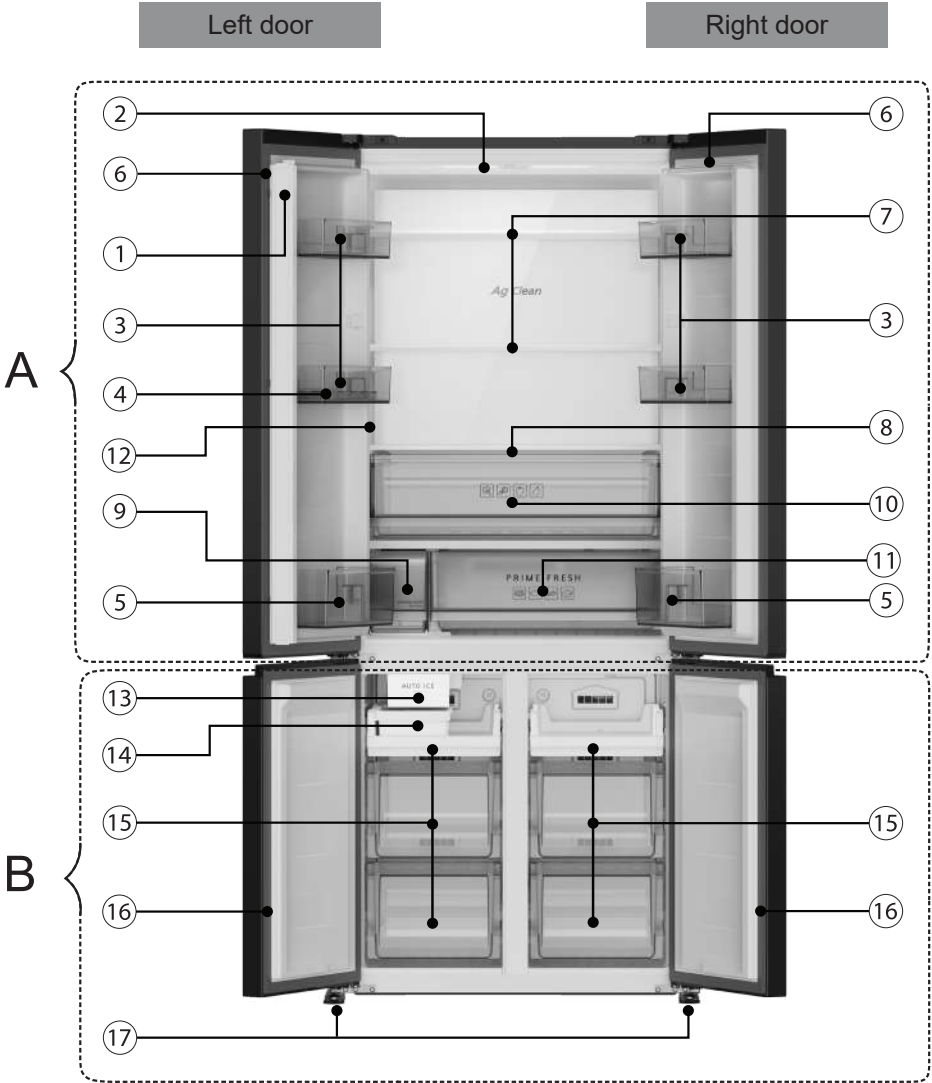
⑰ Pan water evap

⑱ Compressor



- a. Control button and LED of Quick Freezing.
- b. Temperature setting button of Fridge compartment.
- c. Temperature setting button of Freezer compartment.
- d. Temperature setting button of Prime Fresh case; control button and LED of Prime Fresh+.

※ Model: NR-XZ590H, NR-XZ550H



Product view from behind

※ Model: NR-XZ590H

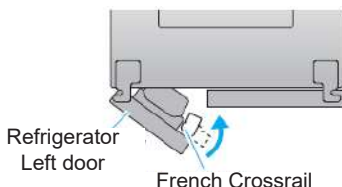
Parts Identification

A-Fridge compartment

① French Crossrail

The French Crossrail minimizes the gap between the left door and the right door of the refrigerator. If this French Crossrail is opened forward, put it back into place.

(Otherwise, the refrigerator doors cannot be closed fully, causing the refrigerator to lose cool air.)



② LED of Fridge compartment

③ Door shelf of Fridge compartment (Quantity: 4 pcs)

④ Egg tray

⑤ Bottle shelf (Quantity: 2 pcs)

⑥ Door gasket of Fridge compartment (Quantity: 2 pcs)

⑦ Glass tray of Fridge compartment^(*) (Quantity: 2 pcs)

⑧ Glass tray of Vegetable case

⑨ Water tank of Auto Ice maker

⑩ Vegetable case

⑪ Prime Fresh case

⑫ Operation Panel

^(*) Model NR-XZ550H: there is only a Glass tray of Fridge compartment.

B-Freezer compartment

⑬ Auto Ice maker

⑭ Ice box

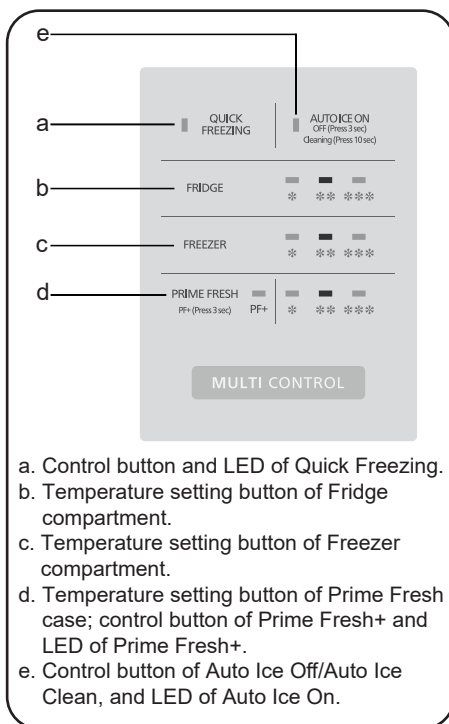
⑮ Freezer case (Quantity: 6 pcs)

⑯ Door gasket of Freezer compartment (Quantity: 2 pcs)

⑰ Adjuster bolts (Quantity: 2 pcs)

⑱ Pan water evap

⑲ Compressor



Temperature Setting

Temperature is adjusted at “Min” - “Max”. Press “Fridge” to adjust the set temperature of Fridge compartment, press “Freezer” to adjust the set temperature of Freezer compartment and press “Prime Fresh” to adjust the set temperature of Prime Fresh case.

Temperature setting \ Icon	Icon	“Fridge” (Fridge compartment)	“Prime Fresh” (Prime Fresh case)	“Freezer” (Freezer compartment)
Max	■ ***	Lower than “Med” approx. 2 °C ~ 3 °C	Lower than “Med” approx. 2 °C ~ 3 °C	Lower than “Med” approx. 2 °C ~ 3 °C
Med	■ **	Approx. 1 °C ~ 7 °C	Approx. -5 °C ~ -1 °C	Approx. -23 °C ~ -17 °C
Min	■ *	Higher than “Med” approx. 2 °C ~ 3 °C	Higher than “Med” approx. 2 °C ~ 3 °C	Higher than “Med” approx. 2 °C ~ 3 °C

In general, the refrigerator is used with the temperature setting at “Med”.

- The actual temperature inside the refrigerator will vary depending on the ambient temperature, installation status, usage conditions and amount of food.
- This refrigerator is equipped with a processor to control the actual temperature inside the refrigerator. When the ambient temperature changes, the Compressor runs or stops, the doors are opened or closed, the actual temperature inside the refrigerator and the temperature setting will have a slight difference.

Fine adjustment mode (“9 levels” mode)

Refrigerator is designed specially for suitable use, may adjust in 9 levels:

For Fridge compartment:

How to operate the Fine adjustment mode

- 1 Set the LED at “Min” by pressing the “Fridge”.
- 2 Press and hold “Fridge” (about 10 seconds) until LED lights at both “Med” and “Max”.
- 3 Set the “9 levels” mode following the next table by pressing “Fridge”.

How to exit the Fine adjustment mode

- 1 Set the LED at both “Med” and “Max” by pressing the “Fridge”.
- 2 Press and hold “Fridge” (about 10 seconds) until LED lights at “Min”. The refrigerator is back to the normal operation mode.

For Freezer compartment:

Do the same steps as above, press “Freezer” instead of “Fridge”.

For Prime Fresh case:

Do the same steps as above, press “Prime Fresh” instead of “Fridge”.

■ LED Display table

Cooling Level	Levels	LED Display
Maximum ↑ Minimum	9	■ ■ ■ ■ ■
	8	■ ■ ■ ■ ■
	7	■ ■ ■ ■ ■
	6	■ ■ ■ ■ ■
	5	■ ■ ■ ■ ■
	4	■ ■ ■ ■ ■
	3	■ ■ ■ ■ ■
	2	■ ■ ■ ■ ■
	1	■ ■ ■ ■ ■
		■ Lighting ⏏ Blinking □ No lighting

ECONAVI Operation

The refrigerator detects the opening and closing of the refrigerator door to control operations automatically to ensure maximum energy saving.^(*)

■ ECONAVI Operation

- The refrigerator learns the lifestyle patterns of your family from door opening and time periods of infrequent use to maximize energy efficiency.
- The refrigerator learns your lifestyle patterns from the previous 3 weeks of use and uses that data from the 4th week onwards.

■ Settings for enabling ECONAVI operation

- ECONAVI Operation is enabled automatically when the temperature setting for both the Fridge compartment and the Freezer compartment is set at “Med”, respectively.
- ECONAVI Operation does not operate if the Quick Freezing, Prime Fresh+ is in operation.
- It is not possible to force start the ECONAVI mode.

^(*) The effectiveness of the ECONAVI mode is dependent on the ambient temperature and the number of times the refrigerator door is opened and closed and the state in which food is stored.

Quick Freezing

When Quick Freezing is set, the refrigerator will reduce the set temperature quickly for better performance of preserving food.

■ How to operate the Quick Freezing



LED is on: Quick Freezing is operated.
LED is off: Quick Freezing is not operated.

- Press the “Quick Freezing” icon to start the Quick Freezing. Then, the LED of Quick Freezing will turn on.
- If you want to stop the Quick Freezing operation, press the “Quick Freezing” icon until the LED of Quick Freezing turns off.

Remark

- The Quick Freezing operation will stop automatically after running for 150 minutes and return to normal mode. (The LED of Quick Freezing turns off.)
- The flashing of LED of Quick Freezing means that the defrosting system is currently working. The Quick Freezing mode will start right after the defrosting operation is finished.
- The set temperature of the Freezer compartment will return to its previous setting when the Quick Freezing ends.
- When Quick Freezing is turned on, Prime Fresh+ will be stopped.

Prime Fresh+

When Prime Fresh+ is set, the Prime Fresh compartment will reduce the set temperature quickly for better performance of preserving food.

■ How to operate the Prime Fresh+



LED is on: Prime Fresh+ is operated.
LED is off: Prime Fresh+ is not operated.

- Press and hold “Prime Fresh” icon for 3 seconds to start Prime Fresh+. Then, the LED of Prime Fresh+ will turn on.
- If you want to stop the Prime Fresh+ operation, press and hold the “Prime Fresh” icon for 3 seconds until the LED of Prime Fresh+ turns off.

Prime Fresh+

Remark

- Prime Fresh+ will stop automatically after running for 105 minutes (when the ambient temperature is 18 °C or less) or between 145 ~ 150 minutes (when the ambient temperature is higher than 18 °C) and return to normal mode. (The LED of Prime Fresh+ turns off.)
- The flashing of LED of Prime Fresh+ means that the defrosting system is currently working. Prime Fresh+ will start right after the defrosting operation is finished.
- The set temperature of the Prime Fresh compartment will return to its previous setting when Prime Fresh+ ends.
- When Prime Fresh+ is turned on, Quick Freezing will be stopped.

Auto Ice Off and Auto Ice Clean

※ Model: NR-XZ520C

- Do not have the Auto Ice Off and Auto Ice Clean.

※ Model: NR-XZ590H, NR-XZ550H

When the refrigerator is in operation, Auto Ice On will automatically operate without any setting. When setting the Auto Ice Off and Auto Ice Clean, the refrigerator will stop the Auto Ice On and clean the Ice maker automatically.

■ How to operate the Auto Ice Off



LED is on: Auto Ice Off is not operated.
LED is off: Auto Ice Off is operated.

- Press and hold “Auto Ice On” icon for 3 seconds to start the Auto Ice Off. Then, the LED of Auto Ice On will flash, and the refrigerator will have a notification sound, then the LED Auto Ice On turns off
- If you want to stop the Auto Ice Off operation, press and hold “Auto Ice On” icon for 3 seconds once until LED of Auto Ice On turns on.

Remark

- In the default state, LED of Auto Ice On is always on.

■ How to operate the Auto Ice Clean



LED is flashing: Auto Ice Clean is operated.
LED is on: Auto Ice Clean is not operated.

- Press and hold “Auto Ice On” icon for 10 seconds to enable the Auto Ice Clean. At the end of the automatically cleaning process, the refrigerator will have a notification sound.

Remark

- Cannot stop/disable the operation of Auto Ice Clean when it is in processing.

For details on the cleaning operation of Auto Ice maker, please refer to Page 19.

Fridge compartment

Tips for food preservation

■ Do not over stock too many food items

When there are too many food items and there is no space for cool air circulation inside the refrigerator, the cooling capacity will be affected. Provide sufficient space between foods.



No wasting cool air inside the refrigerator is the key to keeping food fresher for longer!

■ Do not block the cool air outlet with food items

If the cool air does not spread into every corner of compartments, then the interior will not be sufficiently cooled and more electricity will be consumed. Therefore, food should not be placed in front of the cooling air vents^(*) and block the air circulation.

^(*)The cooling air vents are located on the duct inside the Fridge compartment.

Prime Fresh case

Prime Fresh case

- This case is suitable for storing fresh food, such as meat or fish. Compared to storing in the Fridge compartment, the storage life of meat or fish is extended.
- When food is too frozen. Sliced raw fish or meat may be too frozen. Set the temperature at "Min" to prevent food from over frozen.
- When food is not partially-frozen. Depending on the type of food, such as a large block of meat or a large fish, or the food fullness of the case, the storage conditions, and the ambient temperature, food may not be partially frozen as it intended. If this is the case, then set to the lowest temperature at "Max".
- Do not overstock the case with too many food items. When there are too many food items and there is no space for cool air circulation inside the refrigerator, the cooling capacity will be affected. Provide sufficient space between foods inside Prime Fresh case!



Easy to cut.

The partially-frozen foods is easy to cut! It comes in handy.



Freezer compartment

Storing frozen food, cooked meal in Freezer compartment.



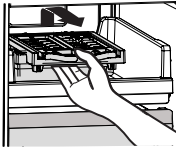
Three tips for freezing food and locking in the flavour

1. Freeze thin and small items of food quickly.
2. Fully sealed.
3. Do not refreeze.

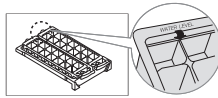
How to make ice

※ Model: NR-XZ520C

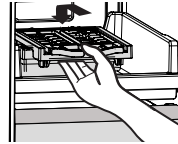
Pull out the Ice twister.



Fill the water.
Fill water up to the arrow mark.



Place the Ice twister back.



Move ice cubes.
Twist the Ice twister.
(The ice cubes will drop into the Ice box.)



※ Model: NR-XZ590H, NR-XZ550H



To use the Auto Ice maker in comfort



Please use only drinking water for Auto Ice Making.



Do not put liquids such as the following into the Water tank.
(These liquids may damage the Auto Ice maker).

The hardness of water must be 100 mg/L or less.



Drinking water



Juice, etc.



Sports drinks



Carbonated beverages



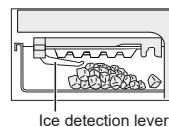
Hot water

Tips

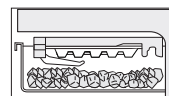
- The hardness of water must be 100 mg/L or less. The minerals may appear as white floating particles. They are not harmful.
- When using the Auto Ice maker for the first time, odor or dust may be on the Ice tray, etc. Please throw away the first lot of ice.
- Remember to regularly use the Auto Ice Clean function of the Auto Ice maker (Page 19).

Attention

When the Ice box is full and the ice cubes touch the ice detection lever, the Auto Ice On will stop automatically.



The pile of ice cubes will touch the ice detection lever.
(Then, the Auto Ice On will stop.)



Distribute the ice cubes evenly inside the Ice box for making more ice.

Freezer compartment

Request

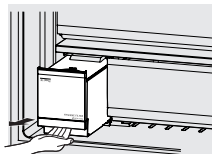
- Do not pour water directly into the Ice box to make ice.
(Otherwise, the Ice box may be broken.)
- Do not put food or other things into the Ice box.
(Otherwise, the amount of ice cannot be correctly detected and Auto Ice On may be stopped or the Ice box cannot be pulled out.)

Ice maker cycle time will be longer in the following cases.

- The first time using the refrigerator.
(It will take at least 24 hours since the Auto Ice On only starts after the inside of the refrigerator is cool enough.)
- When the refrigerator doors are frequently opened.
- When the refrigerator doors are ajar.
- When a large amount of food is stored at once.
- When the ambient temperature is low during winter or high during summer
- When a power failure occurs.

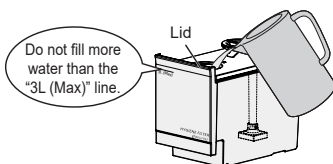
How to use Water tank of Auto Ice maker^(*)

1 Take the Water tank out.



Pull out the Water tank.

2 Fill with water.



Rotate the lid to the left, open the lid and fill the Water tank with water, then put the lid back in place.

3 Install the Water tank.



Confirm the direction of the tank and install until the tank reached the end lock.
(If the Water tank does not reach the end lock, the Auto Ice maker could not operate.)

^(*)Ice could be made in approx. 2 hours (estimated time per ice making cycle).

(The actual time may vary depending on the ambient temperature, temperature settings, and usage conditions, such as the frequency of door opening/closing.)

How to clean the Auto Ice maker

When using for the first time or when not being used after a long time, the Water tank may smell unpleasantly or collect dust. Remember to clean the Water tank before proceeding to clean the Auto Ice maker.

After selecting the Auto Ice Clean mode, water will be automatically poured into the Ice tray and water supply pipe 3 times (for about 2 minutes) to drain the water.

When selecting Auto Ice Clean mode, make sure there is enough water in the Water tank.

- ❶ Pull out the Ice box, remove all ice cubes from the Ice box (after the ice cubes are fully formed), and then install the Ice box back.
- ❷ Fill the Water tank with water.
- ❸ Select the Auto Ice Clean (Page 15).
 - At the same time, the refrigerator will sound a notification and begin to clean the Auto Ice maker.
 - During the cleaning process, the sound cannot be turned off.
 - After the beeping sound to inform the completion of the cleaning process, the LED of Auto Ice On on the Operation Panel will turn on, the Auto Ice maker cleaning process will end and the Auto Ice On will be started.
- ❹ Pull out the Ice box from the Freezer compartment, throw away the water in the Ice box and wipe the water off. If you do not clean all water on the Ice box, the Ice box may be broken.

How to turn off Auto Ice maker

You can enable/disable the Auto Ice On according to your needs.

■ Turn off Auto Ice On

- ❶ Select the Auto Ice Off, the LED of Auto Ice On on the Operation Panel will turn off and the refrigerator will stop making ice (Page 15).
- ❷ No need to pour water in the Water tank. The remaining water inside the Water tank will keep making ice, and ice cubes will be available after about 2 hours. Or when the Ice box is full, the Auto Ice On will be stopped.
- ❸ When you want to continue making ice automatically, please select the Auto Ice Off, and the LED of Auto Ice On on the Operation Panel will turn on (Page 15).

■ Turn off Auto Ice On for a long period of time

- ❶ Empty the Water tank and remove all ice cubes from the Ice box.
- ❷ Clean the Water tank, Water filter, Water tank seal rubber and Ice box; dry and put them back to their place.
- ❸ When using again, please refill the Water tank and put it back.

■ When transporting the refrigerator

- ❶ Remove all ice cubes from the Ice box.
- ❷ Select the Auto Ice Clean, the LED of Auto Ice On on the Operation Panel will flash and the refrigerator will start cleaning the Auto Ice maker.
(At this time the ice cubes and water in the process of making ice will fall into the Ice box.)
- ❸ The cleaning process will stop after 2 minutes. Take out the Ice box and empty the ice cubes and water in the Ice box.
- ❹ Clean the Water tank, Water filter and Ice box; dry and put them back to their place.

How to clean the Refrigerator

Before cleaning or conducting maintenance, be absolutely sure to disconnect the power plug from the power outlet. Do not connect or disconnect the power plug with wet hands. When the plug is disconnected, leave it for 7 minutes before plugging again. If not, the compressor may not work.

Clean the detachable items after it is stained!

Wipe off stains on the interior surfaces quickly before they harden. In particular, cooking oil or lard may cause plastic to crack and citrus juice may cause the refrigerator to become discolored. When stains cannot be removed easily, wipe them with a cloth lightly soaked in neutral kitchen detergent. Then, wipe with a cloth lightly dipped in water.

Clean the detachable items occasionally.

Clean the Ice tray once a week. As a guide, remove the trays, door shelves, etc. and wash them by immersing them in lukewarm water every three months.

Clean the door gasket at least once a month.

Clean by wiping with a soft damp cloth. Lubricated gel has been applied to the door gasket on the hinge side of the refrigerator, be careful not to wipe it off.

Notices

The door gasket is replaceable by an authorised service agent. If the door gasket comes off while cleaning, it can be pushed back into the groove.

Requests

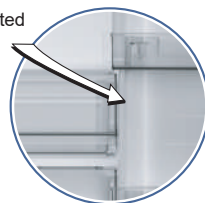
Do not use the following items for cleaning.
(Otherwise, the surface may be scratched, corroded, or the plastic may crack or break.)



Rub the door surface with a soft damp cloth.



Point where lubricated gel was applied.

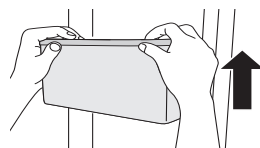


■ Removing

- 1 Lift it upward, alternating between the right and left side.

■ Attaching

- 2 Placing it on both supporters, and then press until it reaches the end of supporters.

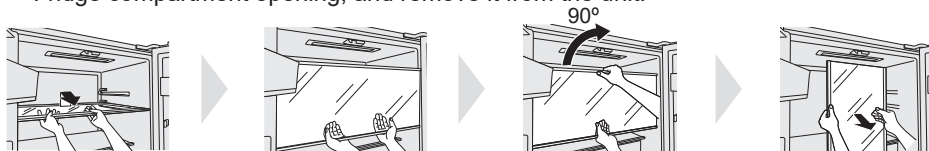


Tray

Once every 3 months

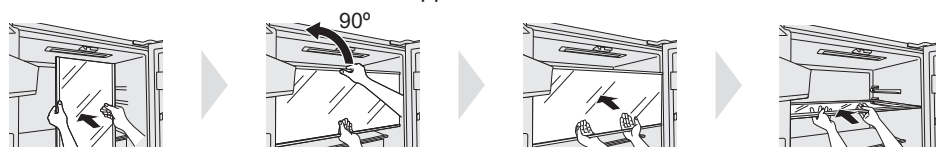
■ Removing

- 1 Lift the bottom of the Glass tray and pull it forward, lower until releasing it from the support rails.
- 2 Stand the Glass tray of Fridge compartment upright, rotate it 90° to the right at the Fridge compartment opening, and remove it from the unit.



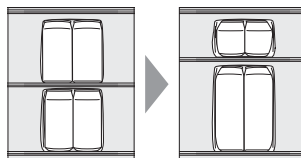
■ Attaching

- 1 Stand the Glass tray of Fridge compartment upright. Move it toward the Fridge compartment door opening and rotate the shelf 90° to the left.
- 2 Place the Glass tray of Fridge compartment in a horizontal position and gently push it forward until it reaches the end of supporters.



Remark

- Trays are made of glass and are heavy. Please handle them carefully to avoid dropping, breakage, or injury.
- When removing/installing the trays, fully open the Fridge compartment door.
- Before installing the trays, confirm the front and back sides of the glass tray. Install correctly to ensure secure placement.
- You can adjust the position of the Glass trays of Fridge compartment to create the desired storage space.



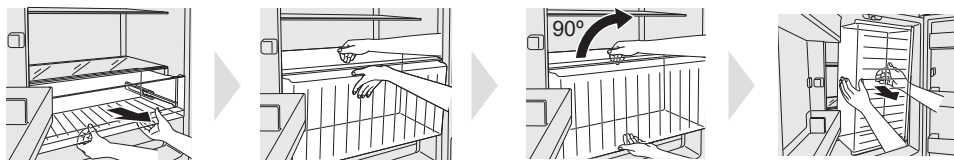
How to clean the Refrigerator

Vegetable case/Prime Fresh case

Once every 3 months

■ Removing

- 1 Pull Vegetable case/Prime Fresh case forward, stand it upright.
- 2 Rotate Vegetable case/Prime Fresh case 90° to the right and remove it from the unit.



■ Attaching

- 1 Stand Vegetable case/Prime Fresh case (with the front facing inward), push in the Fridge compartment and rotate 90° to the left.
- 2 Tilt the front of Vegetable case/Prime Fresh case upward, then gently push it forward until it reaches to the end.



Ice twister

Once every 3 months

※ Model: NR-XZ520C

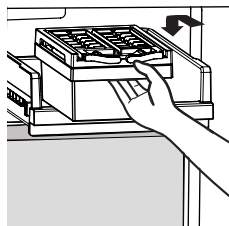
■ Removing

Unhook the protrusion by lifting it upward and pulling the Ice twister and/or Ice box forward until completely removed.



■ Attaching

Push the Ice twister and Ice box until it reaches the end lock.



Remark

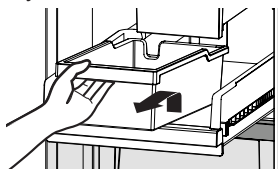
- You can disassemble the Ice twister and Ice box to increase space in the Freezer compartment.

※ Model: NR-XZ590H, NR-XZ550H

- Cannot clean the Ice tray of Auto Ice maker manually. Please use Auto Ice Clean (Page 19).

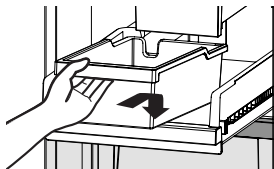
■ Removing

Lift and pull the Ice box forward until it is completely removed.



■ Attaching

Push the Ice box until it reaches the end of the Ice box holder.



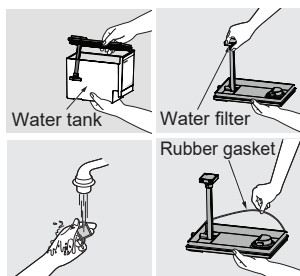
Remark

- Select Auto Ice Off before cleaning the Ice box (Page 15).

Water tank/Water filter (of the Auto Ice maker)

Weekly

- 1 Open the lid and clean the Water tank with water.
- 2 Rotate the Water filter to remove the hook and remove the Water filter.
- 3 Gently wash the Water filter in water.
- 4 Remove the rubber gasket on the edge and clean it with water.
- 5 Put the Water filter and rubber back into place.



Remark

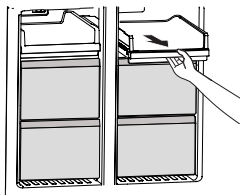
- If there is water deposits or pipe blockages in the Water filter, ice may not be made properly.

Freezer case

Once every 3 months

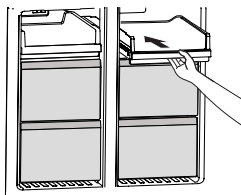
■ Removing

- 1 Pull the case forward until it reaches the end.
- 2 Gently lift the front of the Freezer case to remove it completely.



■ Attaching

- 1 Insert the case into the shelf.
- 2 Gently lift the case and push forward until it reaches the end.



Troubleshooting

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

The refrigerator does not operate.

- Check that the power plug and its socket are in good condition.
- Check if there is any problem on main fuse and electrical system of the house.
- Check by unplug and wait for 7 minutes before plugging it back in.

The refrigerator does not cool enough.

- Check to be sure that LED in Operation Panel is displayed at proper position.
- Check to see if the refrigerator is overloaded with stuff or there is any hot foodstuff refrigerated inside.
- Is the refrigerator exposed directly to sunlight or heat source?
- Is the refrigerator door completely closed?
- Is the refrigerator door opened frequently?

Dew, frost appears.

Outside

- When the air humidity is high, there is a chance that moisture will condense on the refrigerator surface, around the door gasket or on the door surface. This situation will stop if the air humidity decreases. Please wipe it up with dry cloth.



Inside

- Is the door closed firmly?
- Is the door being opened and closed too frequently?
- Condensation inside the refrigerator can also be caused by leaving high-humidity foods uncovered or unwrapped.
- When the humidity is high, the door is open for a long time, or when the refrigerator contains too much food or makes too much ice, frost may form inside the Freezer compartment at the location of the Freezer cases or Ice box. This is normal. Please wipe with dry and soft cloth.

The refrigerator generates noise.

- Check if the refrigerator is located on a stable floor or is installed properly.
- Check if there is any object in contact with the refrigerator.
- Cracking sound within caused by the parts adjusting temperature which is normal.
- After installation, the refrigerator may make loud noise. The noise will be less when the refrigerator has been cooled.
- There may be a whistling sound inside the refrigerator when opening and closing the door. This is caused by the air outside being drawn in through the pipe on the backside of the refrigerator to better balance the air circulation inside the unit.

The inside is smelling.		Do you store food with dry odor without wrapping it?
The back and sides of the refrigerator are warm and hot.		- Because the refrigerator is equipped with the dew prevention and heat radiation tubes, the back and sides of the refrigerator get warmer when operating. - The back and side plates may get warmer especially when starting up or if the door is frequently opened and closed.
The normal sounds of refrigerator.		- When the refrigerator starts operation, the sound like water flowing and boiling water is created. This is the sound of the cooling liquid. - The noise is generated when the automatic defrost system operates. - The dilatation of the details inside the refrigerator in the cooling process can cause sound "crack-crack". - You may feel that the operation sound is louder because the compressor or fan operates in high-speed under the following conditions: the refrigerator does not cool fully on the occasion such as using it for the first time, opening/closing the door too frequently, the surrounding temperature is high. The sound becomes more quiet after cooling fully.
LED does not turn on.		Please contact Panasonic service center.
Food becomes frozen.		- Do you put the food near cold air holes? - Adjust to a higher set temperature. - Do you put food in Prime Fresh case?
Prime Fresh case	Food is over-frozen or not frozen.	- When the food in Prime Fresh case is over-frozen. → Set the temperature at "Min". - When the food in Prime Fresh case is not partially frozen. → Set the temperature at "Max".
	Not cool, not freezing.	Cooling or freezing may not be sufficient depending on the type of food, packaging condition, storage capacity, and how often the door is opened and closed. → Create space between foods for cold air circulation, arrange similar sized food in a Prime Fresh case and adjust the set temperature accordingly.
	Not fully sealed.	When there is too much food, it may overflow from Prime Fresh case and enter the gap behind Prime Fresh case, causing it not to be fully sealed. → Check the back of Prime Fresh case contains food items? If so, remove them before attaching Prime Fresh case. → Arrange food properly to avoid overflowing.

Troubleshooting

Auto Ice Making

The refrigerator does not make ice.

- If the water in the tank does not decrease after a while, the Auto Ice maker is not working.
- The ice making process begins after the inside of the refrigerator is cold enough.
(It may take more than 24 hours to start the process.)
- Check if the Auto Ice Off is set. (Page 15)
- Be sure to fully push the Water tank and Ice tray into place.
- Do not leave food in the Auto Ice maker.
- Do not install or remove the Ice tray frequently.
- Check if the Water tank is almost empty.
- If water spills on the Ice box, clean it up.
- Please contact Panasonic service center.

The ice does not form any ice cube.

- Set the temperature of Fridge compartment at "Min"?
(Page 13)

Unusual shape of ice cubes.

- There are protrusions.
→ The grooves of the Ice tray may be frozen.
- The ice cubes are round or connected to other ice cubes.
→ Ice has been stored for a long time. (Ice cubes get round of connected by sublimation.)
- The ice is small.
→ Small ice cubes are made when there is no water left in the Water tank.

Specifications

Model No.	NR-XZ590H	NR-XZ550H	NR-XZ520C
Freezer Star Rating			
Capacity (L)	PNS IEC 62552:2016		
Total	520	482	445
Freezer	157	157	158
Fridge, Prime Fresh	363	325	287
Outside Dimensions Width x Depth x Height (mm)	810 x 650 x 1890	810 x 650 x 1790	810 x 650 x 1730
Refrigerant Type	R600a		
Net Weight (kg)	89	77	74
Cooling System	Non-frost cooling		
Rated Voltage (V) Rated Frequency (Hz)	Refer to the rating label attached inside the cabinet.		

Memo

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Panasonic Corporation

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