INVERTER

Panasonic

Operating Instructions
Refrigerator

For Household Use

Model No.: NR-BX471C, NR-BX421B, NR-BX471H, NR-BX421H



NR-BX471C



NR-BX421B, NR-BX471H, NR-BX421H

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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 2-5 before using this product.
- Please make sure the date and name of store of purchase are stamped in warranty card and keep it with these operating instructions.

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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.



iso-butane
Risk of fire/flammable materials

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

WARNING

In case of emergency:



iso-butane

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

- **Do not** store explosive substances, such as aerosol cans with a flammable propellant, 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.

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

WARNING

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 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.

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.
- Be careful of the gap between the doors, as they may pinch your hand when closing.

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 to fragile floors..

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 fully seal to the refrigerator's body.

When cleaning:



- **Do not** clean the refrigerator with chemical substances or liquids. It will cause damage and lead to corrosion on the surface.
- Clean the Pan water evap located over the Compressor at the back of the refrigerator every three months to prevent the odour generated from humidity.

Usage Precautions

When using:



- When the power plug is disconnected, leave it for 5 minutes before plugging again. If not, the compressor may not work.
- Adjust the 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 the 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** 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 drinking water and beverage bottles to prevent odor contamination.
- Food stuff such as vegetables, fruits and fresh food should be wrapped or packed in a box or storage container before freezing.
- Meat and Fish should be put in the Freezer compartment if you want to store them for an extended period.
- Cover juicy food with tight lids, plastic film or foil.

Installation

The distance requested for installation

30 cm

- The top of the refrigerator is at least 30 cm from the ceiling.



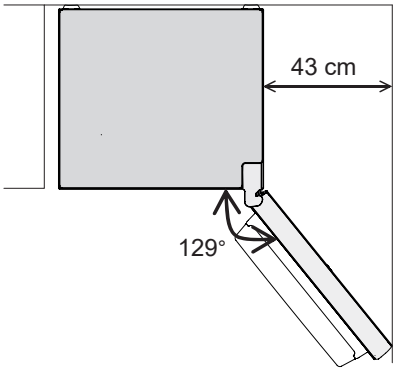
5 cm

- The left and right sides of the refrigerator are at least 5 cm from the walls.

- The back of the refrigerator is at least 10 cm from the wall.

Caution

- In case the refrigerator is placed near to walls, it is necessary to ensure that the space between the right side of the refrigerator and the wall is at least 43 cm. If this space is less than 43 cm, 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 interior of the refrigerator.
  - Use a soft damp cloth to clean the refrigerator.
  - Rinse the Ice trays.
  - A plastic odor may be noticeable in the first time using the refrigerator. If you are worry about it, please ventilate the compartment.
- **Do not** locate the refrigerator in a humid place as rust may form and may cause electric leakage.
- **Do not** locate the refrigerator exposing to direct sunlight as the heat and sunlight will increase the temperature affecting the cooling capacity.
- **Do not** locate the refrigerator near heat source such as cooking stove or oven.
- **Do not** block the openings around the refrigerator.
- The refrigerator must be located in the place where there is good air circulation.
- In case of placing the refrigerator on an uneven surface, adjust the adjustable leg so that the refrigerator stands firmly.

LED lamp and grounding

- The refrigerator's LED lamp is specifically designed for this refrigerator. Do not replace it yourself. If the LED lamp needs to be replaced, please contact the 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 a refrigerator with plug (2-pin plug) without any grounding 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 the case that the grounding receptacle having been prepared for the socket (plug socket), connect the ground wire to the screw used for ground connection at the bottom rear of the refrigerator (regarding the screw used for ground connection, please notice the ⏚ symbol) as shown in the illustration ①.
   And then connect the other end to the grounding receptacle.

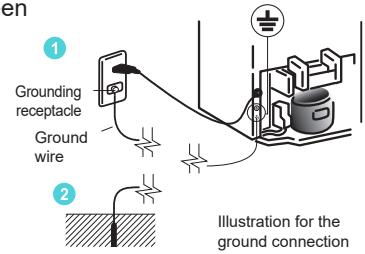


Illustration for the ground connection

2. In the case that the socket (plug socket) having not been provided with any grounding receptacle, connect the ground wire to the screw at the bottom of the refrigerator, (as regards the screw used for ground connection, please notice the ⏚ symbol). And then connect the other end to the ground rod as shown in the illustration ②.

Prohibited spots for ground connection

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

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.

■ How to move and transport

- At least 2 people are required to transport the refrigerator.
- Each person should lift one corner of the refrigerator.
- Do not transport by holding the refrigerator doors.



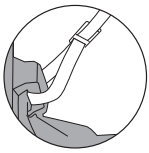
Caution

- When transporting, use tape to secure the refrigerator doors and 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

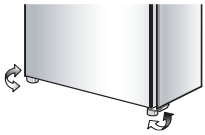
Have any measures taken against tipping due to earthquakes?

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



Fix the refrigerator.

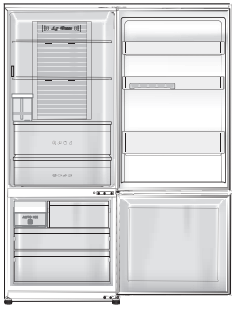
Turn the Adjuster bolts (right and left) until they reach the floor to stabilize the refrigerator.



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

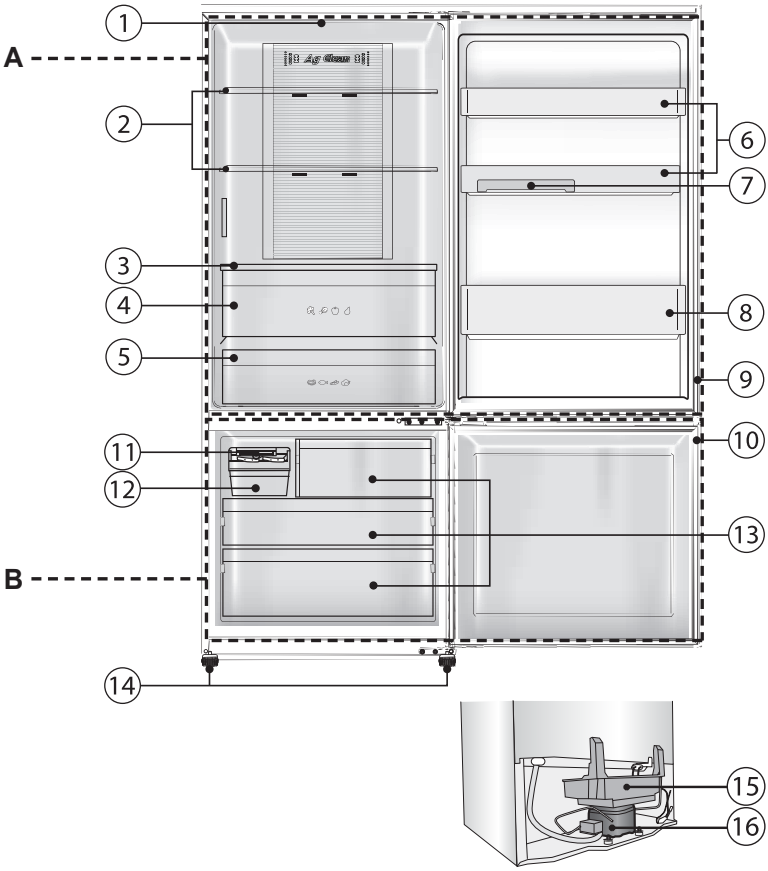
The doors should not be opened until the interior has been cooled down sufficiently. (Warm air flowing into the interior will block the cooling function.)
Please wait until the interior has cooled down.

- 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

1. NR-BX471C/NR-BX421B



Product view from behind.

A-Fridge compartment

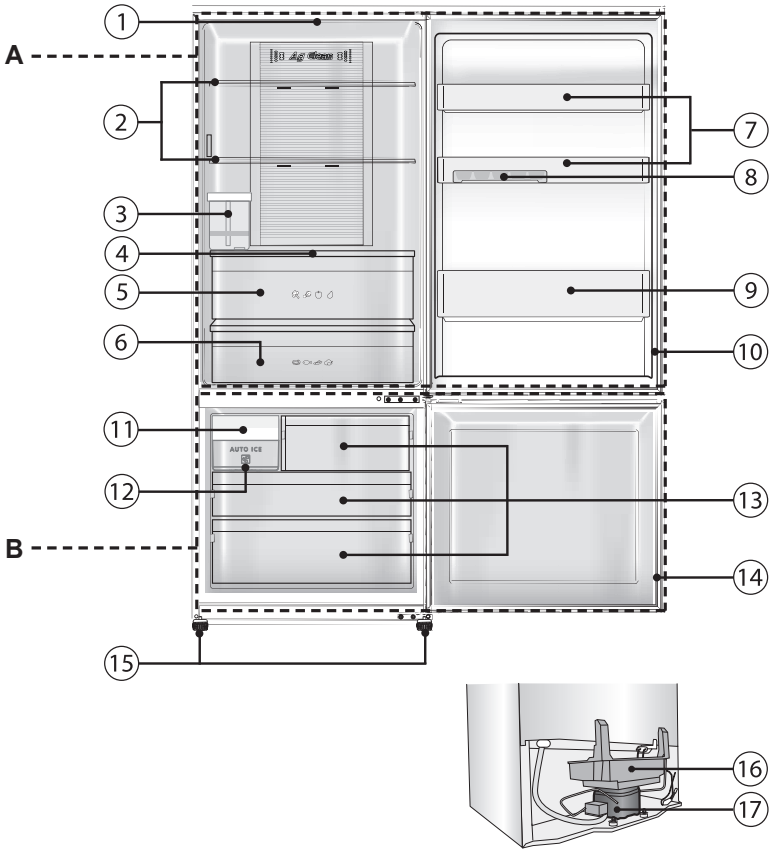
① LED of Fridge compartment
② Glass tray of Fridge compartment (Quantity: 2 pcs)
③ Glass tray of Vegetable case
④ Vegetable case
⑤ Prime Fresh case
⑥ Door shelf (Quantity: 2 pcs)
⑦ Egg tray
⑧ Bottle shelf
⑨ Door gasket of Fridge compartment

B-Freezer compartment

⑩ Door gasket of Freezer compartment
⑪ Ice Twister
⑫ Ice box
⑬ Freezer case (Quantity: 3 pcs)
⑭ Adjuster bolts
⑮ Pan water evap
⑯ Compressor

Parts Identification

2. NR-BX471H/NR-BX421H



Product view from behind.

A-Fridge compartment

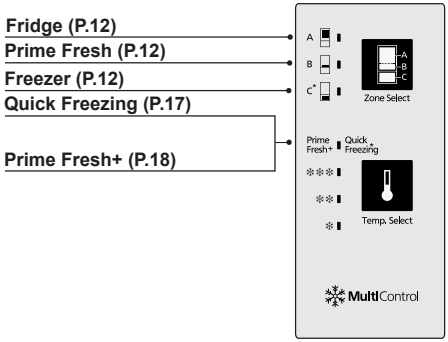
① LED of Fridge compartment
② Glass tray of Fridge compartment (Quantity: 2 pcs)
③ Water tank of Auto Ice Maker
④ Glass tray of Vegetable case
⑤ Vegetable case
⑥ Prime Fresh case
⑦ Door shelf (Quantity: 2 pcs)
⑧ Egg tray
⑨ Bottle shelf
⑩ Door gasket of Fridge compartment

B-Freezer compartment

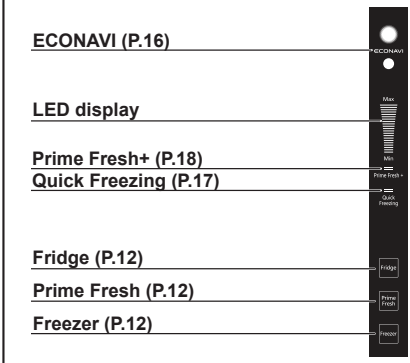
⑪ Auto Ice Maker
⑫ Ice box
⑬ Freezer case (Quantity: 3 pcs)
⑭ Door gasket of Freezer compartment
⑮ Adjuster bolts
⑯ Pan water evap
⑰ Compressor

Operation Panel

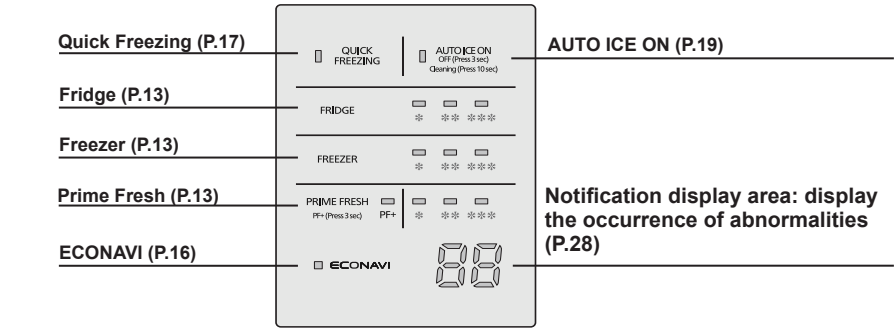
Inside Operation Panel
NR-BX421B



Door Operation Panel
NR-BX471C



Inside Operation Panel
NR-BX471H/NR-BX421H



Temperature Control

■ Temperature setting and a guide of temperature

1. For NR-BX471C models (Door Operation Panel)

The temperature can be adjusted for Min-Max levels.
Touch the “Fridge” button to adjust temperature in Fridge compartment.
Touch the “Prime Fresh” button to adjust temperature in Prime Fresh case.
Touch the “Freezer” button to adjust temperature in Freezer compartment.

Button / Temperature setting	“Fridge” (Fridge compartment)	“Prime Fresh” (Prime Fresh case)	“Freezer” (Freezer compartment)
Max  “Max”	Lower than “Med” by approx. 2 °C ~ 3 °C	Lower than “Med” by approx. 2 °C ~ 3 °C	Lower than “Med” by approx. 2 °C ~ 3 °C
Med  “Med”	Approximately 1 °C ~ 7 °C	Approximately -5 °C ~ -1 °C	Approximately -23 °C ~ -17 °C
Min  “Min”	Higher than “Med” by approx. 2 °C ~ 3 °C	Higher than “Med” by approx. 2 °C ~ 3 °C	Higher than “Med” by approx. 2 °C ~ 3 °C

2. For NR-BX421B models (Inside Operation Panel)

1. Press the “Zone Select” button to select Fridge compartment “A”, Prime Fresh case “B”, or Freezer compartment “C*”.
2. Press the “Temp. Select” button to select Max, Med, or Min levels.

Area / Temperature setting	“A” (Fridge compartment)	“B” (Prime Fresh case)	“C*” (Freezer compartment)
Max ❄❄❄▮	Lower than “Med” by approx. 2 °C ~ 3 °C	Lower than “Med” by approx. 2 °C ~ 3 °C	Lower than “Med” by approx. 2 °C ~ 3 °C
Med ❄❄▮	Approximately 1 °C ~ 7 °C	Approximately -5 °C ~ -1 °C	Approximately -23 °C ~ -17 °C
Min ❄▮	Higher than “Med” by approx. 2 °C ~ 3 °C	Higher than “Med” by approx. 2 °C ~ 3 °C	Higher than “Med” by approx. 2 °C ~ 3 °C

Generally, use the refrigerator with the temperature set to “Med”.
(If the temperature control of the Freezer compartment or Fridge compartment is set to other than “Med”, ECONAVI does not operate.)

Temperature Control

3. For NR-BX471H/NR-BX421H models (Inside Operation Panel)

The temperature can be adjusted for Min-Max levels.

Press the “Fridge” button to adjust temperature in Fridge compartment.
Press the “Prime Fresh” button to adjust temperature in Prime Fresh case.
Press the “Freezer” button to adjust temperature in Freezer compartment.

Button / Temperature setting	“Fridge” (Fridge compartment)	“Prime Fresh” (Prime Fresh case)	“Freezer” (Freezer compartment)
Max ▭ ❄❄❄	Lower than “Med” by approx. 2 °C ~ 3 °C	Lower than “Med” by approx. 2 °C ~ 3 °C	Lower than “Med” by approx. 2 °C ~ 3 °C
Med ▭ ❄❄	Approximately 1 °C ~ 7 °C	Approximately -5 °C ~ -1 °C	Approximately -23 °C ~ -17 °C
Min ▭ ❄	Higher than “Med” by approx. 2 °C ~ 3 °C	Higher than “Med” by approx. 2 °C ~ 3 °C	Higher than “Med” by approx. 2 °C ~ 3 °C

Generally, use the refrigerator with the temperature set to “Med”.
(If the temperature control of the Freezer compartment or Fridge compartment is set to other than “Med”, ECONAVI does not operate.)

- The 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 temperature inside the refrigerator. When the ambient temperature changes, the compressor runs or stops, the doors are opened or closed, the temperature inside the refrigerator and the temperature setting will have a slight difference.

Fine Adjustment mode

■ How to operate the Fine Adjustment mode

The refrigerator is specially designed for approriate use, which can adjust the temperature level to detailed 9 levels with the following details.

1. For NR-BX471C models (Door Operation Panel)

To adjust the temperature for the Fridge compartment

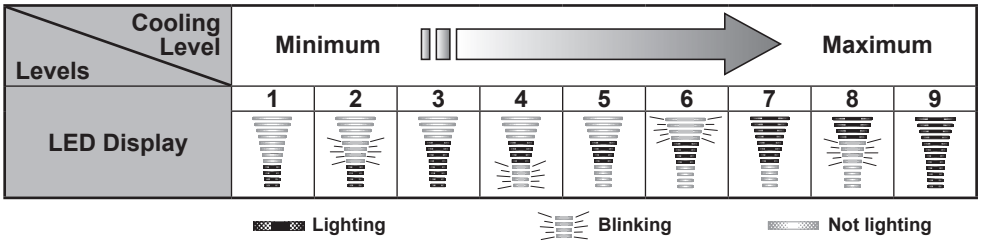
1. Set the LED display to the “Min” position by touching the “Fridge” button.
2. Touch and hold the “Fridge” button for 10 seconds until the LED display returns to show at the “Min” position.
3. Use the “Fridge” button to set the required temperature mode, where level 1 is the minimum cooling mode and level 9 is the maximum cooling mode. (As specified in the LED Display table.)

To adjust the temperature for the Freezer compartment

Follow steps 1 ~ 3 above, but select “Freezer” (Freezer compartment) instead of “Fridge” (Fridge compartment).

Temperature Control

■ **LED Display table (For NR-BX471C models)**



■ **To reset the setting Fine adjustment mode**

Repeat steps ① and ②, then the refrigerator returns to normal operation mode.

2. For NR-BX421B models (Inside Operation Panel)

To adjust the temperature for the Fridge compartment

① Set the LED display to “Min” position by pressing the “Zone Select” button to select “A” (Fridge compartment) then press the “Temp. Select” button to select “Min”.

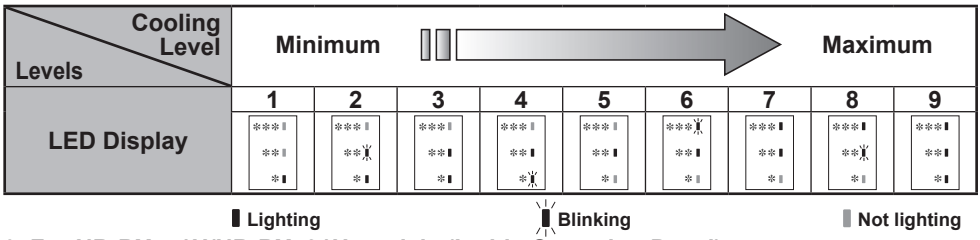
② Press and hold the “Temp. Select” button for approximately 10 seconds until the LED display returns to the “Min” position.

③ Use the “Temp. Select” button to set the required temperature mode, where level 1 is the minimum cooling mode and level 9 is the maximum cooling mode. (As specified in the LED Display table.)

To adjust the temperature for the Freezer compartment

Follow steps ① ~ ③ above respectively while pressing the “Zone Select” button and selecting “C*” (Freezer compartment) instead of “A” (Fridge compartment).

■ **LED Display table (For NR-BX421B models)**



3. For NR-BX471H/NR-BX421H models (Inside Operation Panel)

To adjust the temperature for the Fridge compartment

① Set LED display to “Min” by pressing the “Fridge” button.

② Press and hold the “Fridge” button (for 10 seconds) until the LED display return to show at “Min” position.

③ Set “9 levels” mode following below table mentioned by pressing the “Fridge” button.

To adjust the temperature for the Freezer compartment

Follow steps ① ~ ③ above respectively while pressing the “Freezer” button (Freezer compartment) instead of “Fridge” button (Fridge compartment).

■ LED Display table (For NR-BX471H/NR-BX421H models)

Cooling Level	Levels	LED Display
Maximum	9	
	8	
	7	
	6	
	5	
	4	
	3	
	2	
Minimum	1	









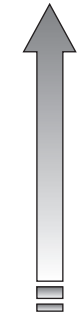












Lighting Blinking Not lighting

■ To reset the setting Fine Adjustment mode

Repeat step 1 and 2, then the refrigerator return to normal operation mode.

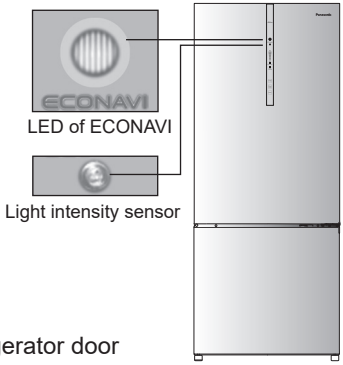
Remark

- Prime Fresh case does not have Fine Adjustment mode.
- The temperature control can vary depending on the environment and amount of food stored in the refrigerator.

ECONAVI Operation

1. For NR-BX471C models

The refrigerator detects the opening and closing of the refrigerator door and the brightness around the refrigerator 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 maximise energy efficiency.
- The refrigerator learns your lifestyle patterns from the previous 3 weeks of use and uses that data from the 4th week onwards.
- The refrigerator performs the ECONAVI energy saving operation when it becomes dark around the refrigerator such as overnight when you are asleep.

(*) 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.

■ **Settings for enabling ECONAVI Operation**

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

2. For NR-BX421B models

This model also has ECONAVI mode, but it does not feature LED of ECONAVI and the light intensity sensor.

3. For NR-BX471H/BX421H models

This model also has ECONAVI mode and LED of ECONAVI, but it does not feature the light intensity sensor.

Quick Freezing

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

■ **How to operate the Quick Freezing**

1. For NR-BX471C models



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

- Touch the “Freezer” button until the LED of Quick Freezing turns on. Quick Freezing starts after about 10 seconds.
- If you want to stop the Quick Freezing operation immediately, please touch the button “Freezer” until the LED of Quick Freezing turns off.

2. For NR-BX421B models



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

- Press the “Zone Select” button to select “C*” (Freezer compartment), then press “Temp. Select” until the LED of Quick Freezing turns on. Quick Freezing starts after about 10 seconds.
- If you want to stop the Quick Freezing operation immediately, press the button “Zone Select” to select “C*” (Freezer compartment), then press “Temp. Select” until the LED of Quick Freezing turns off.

Remark

- The Quick Freezing operation will automatically stop after 60 mins (as ambient temperature is 18°C or lower) or 150 mins (as ambient temperature is 19°C or higher) and return to normal mode. (The LED of Quick Freezing turns off.)

3. For NR-BX471H/NR-BX421H models



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

- Press the “QUICK FREEZING” button once, then the LED of Quick Freezing turns on.
- If you want to stop the Quick Freezing operation immediately, press the “QUICK FREEZING” button once, then 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 .)

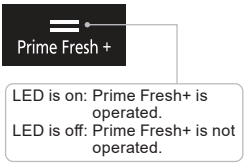
Remark

- The LED of Quick Freezing flashing means that the defrosting system is now working. The Quick Freezing will start right after the defrosting operation is finished.
- The Freezer temperature control will not operate during Quick Freezing as the compressor is already at maximum operating levels for the Quick Freezing.

Prime Fresh+

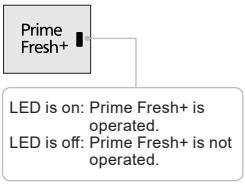
■ How to operate the Prime Fresh+

1. For NR-BX471C models



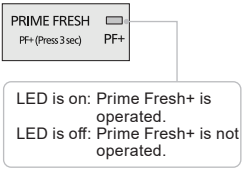
- Touch the button “Prime Fresh” until the LED of Prime Fresh+ turns on.
- If you want to stop the Prime Fresh+ operation immediately, please touch the button “Prime Fresh” until the LED of Prime Fresh+ turns off.

2. For NR-BX421B models



- Press the button “Zone Select” to select “B” (Prime Fresh case), then press “Temp. Select” until the LED of Prime Fresh turns on.
- If you want to stop the Prime Fresh+ operation immediately, please press the button “Zone Select” until the LED of Prime Fresh turns on, then press the button “Temp. Select” until the LED of Prime Fresh+ turns off.

3. For NR-BX471H/NR-BX421H models



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

Remark

- The system will stop the Prime Fresh+ operation automatically when it runs for 105 mins (as ambient temperature is 18°C or lower) or 145 ~ 150 mins (as ambient temperature is 19°C or higher) and return to normal mode. (The LED of Prime Fresh+ turns off.)
- The LED of Prime Fresh+ flashing means that the defrosting system is now working. The Prime Fresh+ will start right after the defrosting operation is finished.

Remark

When Prime Fresh+ is active, if you set the Quick Freezing, the Prime Fresh+ will stop and refrigerator activates Quick Freezing and vice versa.

Auto Ice Off and Auto Ice Clean

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

■ How to operate the Auto Ice Off



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

- Press and hold the “AUTO ICE ON” button for 3 seconds to stop Auto Ice Making. Then, the LED of Auto Ice On will turn off.
- When you want to restart the Auto Ice Making mode, press and hold the “AUTO ICE ON” button for 3 seconds. Then, the LED of Auto Ice On will turn on.

■ How to operate the Auto Ice Clean



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

- Press and hold the “AUTO ICE ON” button for 10 seconds to enable the Auto Ice Clean mode. When Auto Ice Clean mode is in process, the LED of Auto Ice On will flash. At the end of the automatically cleaning process, the refrigerator will have a notification sound.

Remark

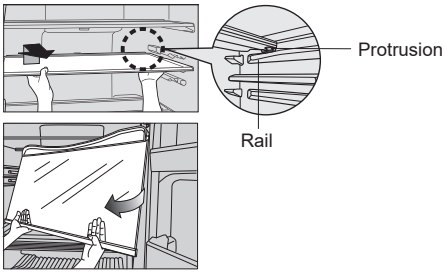
- Cannot stop/disable the operation of Auto Ice Clean when it is in processing.

For details on the cleaning operation of Auto Ice Maker, please refer to P.23.

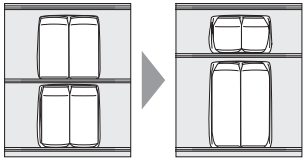
Fridge compartment

The position of the second tray from the top can be changed

1. Lift up the back of the tray and pull it forward. Once the protrusions of the tray are unhooked from rails, tilt the tray and remove it.



2. Insert the tray in the desired position by reversing the steps.



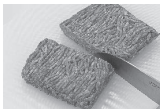
- Glass trays are heavy.
  Please handle them with care so that they do not fall and cause any damage or injury.

Prime Fresh case

- This compartment 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 frozen too much ....
  Sliced raw fish or meat may be too frozen.
  Set the temperature control to “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.
  Set the temperature control to “Max” (P.12).



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



Freezer compartment

- A lot of frozen food and cooked meal can be stored.



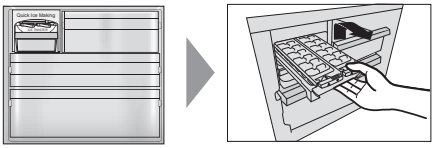
Three tips for freezing food and locking in the flavour...

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

How to make ice cubes with Ice maker

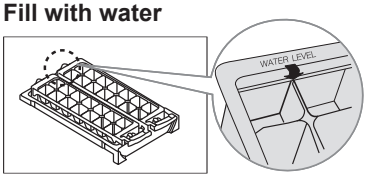
1. For NR-BX471C models

1 Take out the Ice Twister



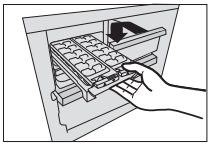
Pull out the Ice Twister. (P.26)

2 Fill with water



Fill water up to the “WATER LEVEL” line.

3 Install the Ice Twister



Place the tray back into the Freezer compartment.

4 To move ice cubes

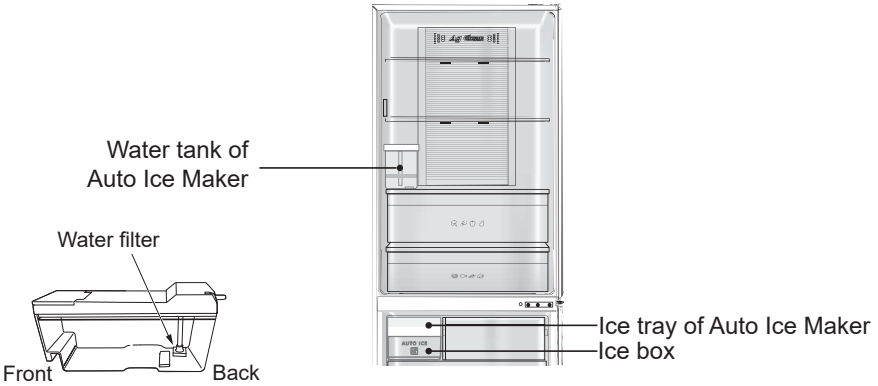


Twist the Ice Twister clockwise.
(The ice cubes will drop into the Ice box.)

Freezer compartment

2. For NR-BX471H/NR-BX421H models

Auto Ice Making



To use the Auto Ice Maker in comfort

○ Please use only drinking water for Auto Ice Making.

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



Drinking water

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



Juice, etc.



Sports drinks



Carbonated beverages



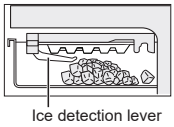
Hot water

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. (P.19)

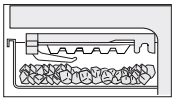
Attention

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



Ice detection lever

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



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

Request

- Do not pour water directly into the Ice box for ice making. (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 Making may be stopped or the Ice box cannot be pulled out.)

Freezer compartment

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

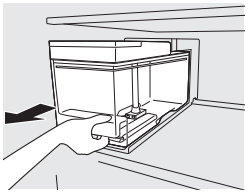
- The first time using the refrigerator. (It will take at least 24 hours since the Auto Ice Making function only starts after the inside of the refrigerator is cool enough).
- When the refrigerator doors are frequently opened.
- When the refrigerator doors are ajar.
- When a large amount of food is stored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

Remark

- The size of ice cubes may change if the refrigerator is not properly leveled.

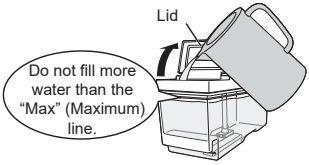
How to use Water tank of Auto Ice Maker(*)

1 Take the Water tank out.



Hold the handle tightly and lift the Water tank out from the refrigerator.

2 Fill with water.



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, with the temperature in the each compartment is "Med".

Remark

- Pouring water while Water tank is placed in the refrigerator may pose a risk of the Water tank falling onto the customer's foot or contaminating the floor.

How to make ice quickly

■ **In the Quick Freezing, the ice making speed will be increased.**
Ice can be made within 90 minutes(**) at the quickest.

Remark

- In Quick Freezing, energy consumption increases more than usual.
- ECONAVI Operation does not work during the setting of Quick Freezing.

(**) Ambient temperature of 20 °C, the refrigerator is rarely opened or closed.

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 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.

1. 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.
2. Fill the Water tank with water.
3. Select the Auto Ice Clean mode (P.19).
   - At the same time, the refrigerator will sound a notification and begin to clean the 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 off, the Ice maker cleaning process will end and the Auto Ice Making will be started.
4. 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 disable the Auto Ice Making mode according to your needs.

■ Turn off Auto Ice Making

1. Select the Auto Ice Off mode, the LED of Auto Ice On on the Operation Panel will turn off and the refrigerator will stop making ice (P.19).
2. 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 2 hours. Or when the Ice box is full, the Auto Ice Making will be stopped.
3. When you want to continue making ice automatically, please select the Auto Ice On, and the LED of Auto Ice On on the Operation Panel will turn on (P.19).

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

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

■ When transporting the refrigerator

1. Remove all ice cubes from the Ice box.
2. 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)
3. The cleaning process will stop after about 2 minutes. Take out the Ice box and empty the ice cubes and water in the Ice box.
4. Empty the Water tank, clean the Water tank, Water filter and Ice box; dry and put them back to their place.

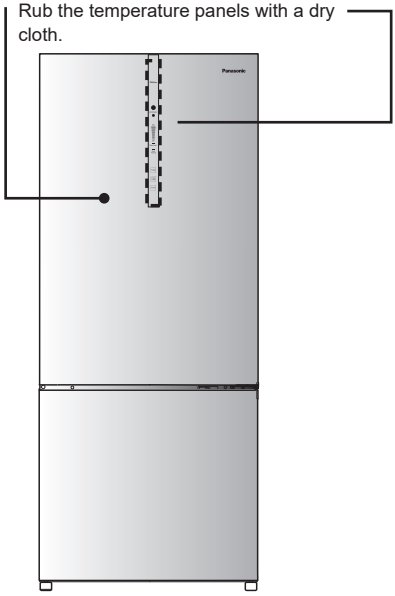
How to clean the Refrigerator

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 5 minutes before plugging again. If not, the Compressor may not work.

Clean the refrigerator immediately 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.





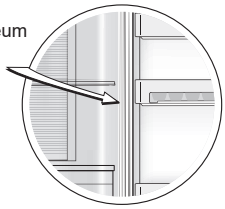
Clean the detachable items occasionally.

Once a week for the Ice Twister. 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. Petroleum gel has been applied to the door gasket on the hinge side of the unit, be careful not to wipe this 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 will be scratched or corroded.)



Kitchen detergents (They crack plastic!)



Cleanser or soap powder



Benzine, thinner, alcohol, acid, petroleum



Scrubber



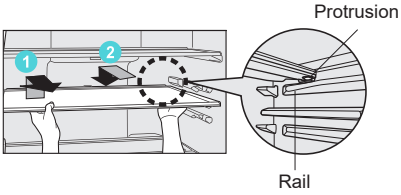
Hot Water

How to clean the Refrigerator

Tray — Once every 3 months

■ Removing

1. Lift up the back of the tray and pull it forward. Once the protrusions of the tray are unhooked from the rails, tilt the tray and remove it.



■ Attaching

2. Push the tray until it reached the end lock.



Remark

- When removing tray above Vegetable case, pull out the Vegetable case first and then follow to remove the tray as above details.
- In case of attaching the tray and it does not lock, make sure that you did not attach the wrong tray.
- Trays made of glass are heavy.
  Please handle them with care so that they do not fall and cause any damage or injury.
  For attaching trays, hold them with the protrusion side down and firmly insert.

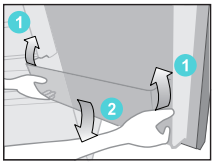
Door shelf/Bottle shelf — Once every 3 months

■ Removing

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

■ Attaching

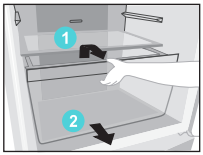
2. Placing it on both supporters, and then press until it reaches the end of supporters.



Vegetable case/Prime Fresh case — Once every 3 months

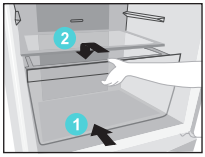
■ Removing

1. Pull the case unit forward until it reaches the end of the stopper.
2. Lift the front of the case unit slightly and remove completely.



■ Attaching

1. Insert the case unit into the supports.
2. Raise the case unit up slightly and push forward until the end is reached.

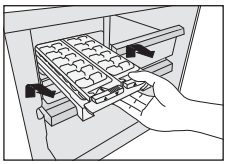


How to clean the Refrigerator

Ice Twister (For NR-BX471C/NR-BX421B models) — Once every 3 months

■ Removing

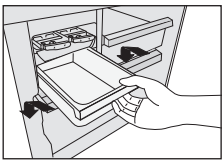
Unhook the protrusion by lifting it upward and pulling the Ice Twister and Ice box forward until completely removed.



Ice Twister

■ Attaching

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



Ice box

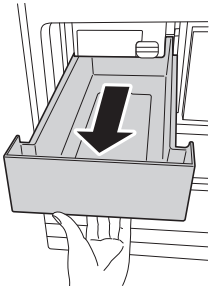
Remark

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

Ice box — Once every 3 months

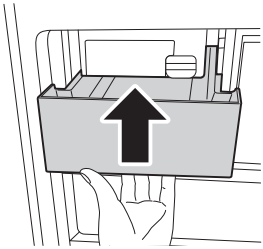
■ Removing

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.

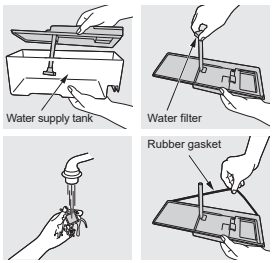


Remark

- Stop the Auto Ice Making function before cleaning the Ice box (P.23).

Water tank/Water filter (For NR-BX471H/NR-BX421H models) — 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 seal rubber 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.

Troubleshooting

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

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 5 minutes before plugging it back in.

The refrigerator does not cool enough.

- Check to be sure that LED in temperature 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 appear.

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, 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.
- Check if evap pipe in contact with Pan water evap.

Troubleshooting

The inside is smelling.	● Do you store the odour food without wrapping it?
The back and sides of the refrigerator may feel warm.	● 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 larger because the compressor 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 a Panasonic Service Center.
Food becomes frozen.	● Do you put the food near cold air holes? ● Do you adjust the temperature control at “Max”? Adjust to “Min”? ● Do you put food in Prime Fresh case?
Error display on Operation Panel.	● The letter “H” and two digits are displayed on Operation Panel. For example: H01 → Please contact the Panasonic Service Center for support.
	● U10: Warning if doors are opened too long. → Check that the doors are closed properly.

Troubleshooting

The LED of ECONAVI does not light properly. (For NR-BX471C models)

ECONAVI does not operate (the LED of ECONAVI does not light).	● Has the Quick Freezing mode been activated? (P.17) ● Is the temperature setting of the Freezer compartment and Fridge compartment set to something other than “Med”? ● Has the door been opened frequently or has hot food been placed in the refrigerator? ● The learning function may automatically disable ECONAVI Operation during times of frequent use.
ECONAVI operation is rarely performed.	● Is there a power failure? If a power failure occurs, the learning function data collected up until the point of power failure will be lost. The ECONAVI Operation will rarely be performed until the learning function has collected data again.
ECONAVI operation is stopped part way though.	● If the auto defrost function is turned on during ECONAVI Operation, the normal cooling operation will need to be performed after defrost. Therefore the ECONAVI Operation may be stopped during this defrost/cooling process. ● The learning function may sometimes restart the normal cooling operation.
ECONAVI operation is performed too often (the LED of ECONAVI rarely turns off).	● Is the light intensity sensor hidden? ● Are there dirt or scratches on the control panel where the light intensity sensor is located? ● ECONAVI Operation may be performed while the refrigerator is being used depending on the conditions of use, but the cooling performance is maintained.

Troubleshooting

Auto Ice Making (For NR-BX471H/NR-BX421H models)

The refrigerator does not make ice.

- If the water in the tank does not decrease after a while, the 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 mode is set. (P.19)
- Be sure to fully push the Water tank and Ice tray into place.
- Do not leave food in the 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 a Panasonic Service Center.

The ice does not form any ice cube

- Is the temperature of Freezer compartment set to a higher temperature than -20 °C?
  → Adjust to a lower temperature. (P.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 tank.

Prime Fresh case

Food is over-frozen or not frozen.

- When the food in Prime Fresh case is over-frozen.
  → Please set the temperature control to “Min”.
- When the food in Prime Fresh case is not partially frozen.
  → Please set the temperature control to “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 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.

Specifications

Model No.		NR-BX471C	NR-BX421B	NR-BX471H	NR-BX421H
Freezer Star Rating					
Capacity (L)	Standard	PNS IEC 62552:2016			
	Total	420	380	416	376
	Freezer	112			
	Fridge, Prime Fresh	308	268	304	264
Outside dimensions Width x Depth x Height (mm)		686 x 695 x 1790	686 x 695 x 1680	686 x 695 x 1790	686 x 695 x 1680
Refrigerant Type		R600a			
Net weight (kg)		67	65	70	67
Cooling System		Non-frost cooling.			
Rated Voltage (V) Rated Frequency (Hz)		Refer to the rating label attached inside the cabinet.			

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■ **About software**

Model Numbers: NR-BX471H, NR-BX421H

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