



Panasonic®

Operating Instructions Refrigerator

For Household Use

Model No.: **NR-BW530X**



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■ NON-CFC

This unit uses totally NON-CFC MATERIALS both for refrigerant (R600a) and for insulation (Cyclo-Pentane). So, this refrigerator does not damage 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...



- Maintenance work must only be carried out at workshop by well-trained maintenance worker.



- **Do not** store explosive substances, such as aerosol cans with a flammable propellant, etc. in the refrigerator.
- **Do not** use electrical appliances, such as 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, 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 device 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 opening seal 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.
- Regarding to local laws, Cyclo-Pentane 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 cord...



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



- Disconnect power plug when cleaning.
- Plug into a wall outlet of the rated voltage on its own with the rated current and insert plug fully.
- Reserve one socket for the refrigerator only. Avoid connecting many appliances to the same socket and unroll through the length of cord.
- Remove dust periodically from the power plug.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or a similarly qualified person in order to avoid a hazard.
- If you detect a burning smell, disconnect the power plug and ventilate the kitchen.
- **Stop** using the refrigerator if there is an abnormality or failure.
(Otherwise, it may cause smoke, fire or electrical shock)
Abnormality and failure examples
 - Power cord or plug is abnormally hot.
 - Power cord is deeply cut or deformed.
 - There is a burning smell.
 - You can feel tingling electricity.

When using...



- **Do not** damage the cooling circuit (piping on the back).
- **Do not** touch the compressor or pipes, because of high temperature.
- **Do not** let any children hang onto the refrigerator's door. It may overturn to the kid.
- **Do not** place any water container on the top of the refrigerator in case the spilling water causes electrical shock or combustion.
- **Do not** locate multiple portable socket-outlets or portable supplies at the rear of the refrigerator.
- **Do not** let the power cord become stuck or damaged while installing the refrigerator.



- This product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of this refrigerator by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.

When installing...



- Fix the refrigerator to avoid danger due to unbalance.
- Make sure the installation space is well ventilated.



- Make sure that the refrigerator is properly grounded before use.

Failure to comply
may result in injury
or accidents.



CAUTION

When opening/closing the doors...



- While opening the refrigerator, be careful to avoid getting other people's hands caught in the doors.
- Mind the gap between the doors.
You could get your hands caught while closing the doors.



When storing foods...



- **Do not** freeze glass bottles as this may cause injury.
(When the contents freeze, the glass bottle may break and cause injury.)
- **Do not** give strong impact on the glass trays.
(Otherwise, those glass trays may break and you may be injured.)



When moving the refrigerator...



- Secure the refrigerator while transporting.
- Apply protective covering, etc. to floors with a fragile surface.

Usage precautions

When opening/closing the doors...

- **Do not** refrigerate items that are bigger than refrigerator trays or shelves, as the door will not close completely, causing leakage of cool air.
- **Do not** open the refrigerator doors too often or leave the doors open for a long time to prevent water dripping inside and wasting energy.
- Regularly check the door opening seal and ensure that it completely fit the refrigerator body.

When cleaning...

- **Do not** clean the refrigerator with chemical substances/solutions.
It will damage and corrode the surface.



Usage precautions

When using...

- When unplugging the appliance, wait for 7 minutes before plugging it again. Otherwise, the compressor may not run.
- Adjust the temperature according to the actual operating condition for energy saving.
- If you do not stay at home for days and there is nothing needed to be refrigerated, the plug should be disconnected for energy saving.
- The external wall of the refrigerator cabinet may sometimes get warm, especially just after installation. This is normal phenomenon since the built-in heating system prevents condensation in the refrigerator.
- When humidity is high, e.g. during rainy season, condensation may appear on the surface of the refrigerator doors, especially around the door gaskets. Wipe off the condensation with a cloth.
- Condensation may appear inside the freezer; therefore, it is necessary to periodically wipe it off with a cloth.
Clean the freezer once a month.
- **Do not** leave the doors of the refrigerator open for too long, especially in hot and 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 foods...

- **Do not** overload the refrigerator. Gap must be provided between foodstuffs to maintain the cooling effect.
- Fruits and vegetables are stored in vegetable case, where moisture helps preserve food quality for longer period of time.
- Water and beverage bottles must be tightly closed to avoid unpleasant odors.
- Liquid foodstuff should be covered with lids or cling film.
- Foodstuff such as vegetable, fruits and fresh food should be wrapped or packed in containers before storing in the refrigerator.
- You should put foodstuff such as meat or fish in the freezer if you want to store for a long period of time.



Highlighted Features

■ High-end design suitable for luxury kitchens



Borderless glass surface with modern handle design.

■ Energy saving

- Panasonic's INVERTER technology increases energy saving and reduces noise.
- Panasonic's exclusive ECONAVI technology allows identification of changes in users' lifestyle habits, helping the refrigerator to automatically adjust to reduce energy consumption.

■ Compressor located on top of the refrigerator (Top Unit)

Panasonic's exclusive design moves the compressor from traditional position at the bottom of the refrigerator to the top of the refrigerator, optimizing the space inside the applicant.

■ Auto Ice making system



ANTI BACTERIA
Ø BPA FREE

- The applicant is equipped with an automatic ice making system to meet the demand for ice usage at all times.
- The 5 L large-capacity water supply tank is made of BPA-free and antibacterial material that is safe for health.
- There is a quick ice making mode.
- There is a mode to stop ice making and automatically clean the ice maker.

■ nanoe™ X technology and Ag Clean



Panasonic's exclusive nanoe™ X technology and Ag Clean help to deodorize and inhibit bacteria, keeping food fresh for longer.

■ Adjustable slide glass tray

The adjustable slide glass tray in the fridge room allows flexible adjustment of food storage capacity.

Highlighted Features

■ Prime Fresh room and Prime Fresh+



- Standard prime fresh -3°C^* , store fish meat fresh up to 7 days.
- Save time, cook right away without defrosting, with Prime Fresh+ reaches -3°C 4 times faster.
- Prime Fresh room is easy to disassemble for cleaning and storage food to avoid odor and contamination cross bacteria.

- The temperature can be changed from 4°C to -5°C^{**} depending on the using demands:
 - At -3°C : standard temperature level
 - At $4^{\circ}\text{C} \sim 0^{\circ}\text{C}$: temperature level like the freezer room, optionally change when you want more space for food preservation in the fridge room.

* The default factory setting temperature is -3°C .

** When the Prime Fresh room is full, when storing large chunks of food or depending on storage conditions and surroundings, cooling performance may be increased. Then you should install the lowest temperature is -5°C .

■ Prime Freeze case



- Freeze fresh or prepared food quickly according to each mode, while keeping their delicious and fresh tastes.
- Prime Freeze case includes the following modes:
 - Cool Down in 3 minutes and 5 minutes
 - Quick Cooling in 10 minutes and 15 minutes
 - Rapid Freezing in 45 minutes and 60 minutes.

It is possible to select different Prime Freeze modes depending on the purpose of food processing and the type of food.



■ Prime Freeze case



- Allows to get cold water without opening the refrigerator door.
- The 3 L large-capacity water tank is made of BPA-free, antibacterial material that is safe for health.

ANTI BACTERIA
Ø BPA FREE

■ Fresh Safe vegetable case

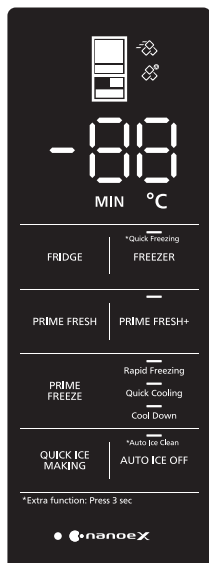


The large-capacity vegetable case is equipped with a moisture-control filter, which keeps vegetables fresh for longer.

■ Quick Freezing

Quick Freezing makes the temperature in the refrigerator cool down quickly, so as to retain the foodstuffs original flavor.

■ Convenient control screen



- It is possible to adjust the temperature and modes of the fridge room, the Prime Fresh room, the freezer room and the Prime Freeze case according to the user's intended purpose.
- The fridge room and the freezer have a reminder to close the refrigerator.
- The LED display and control panel appear clearly and easy to use.

Installation

The distance requested for installation

- 5 cm ↑ • The top of the refrigerator is at least 5 cm from the ceiling.

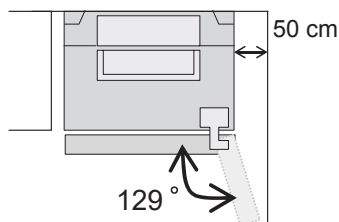


- 5 cm ↔ • The left and right sides of the refrigerator are at least 5 cm from the walls.

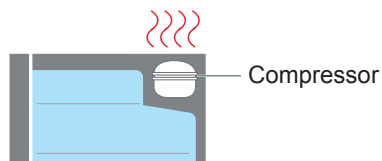
- The back of the refrigerator is at least 5 cm from the wall.

Caution

- In case the refrigerator is placed next to walls, it is necessary to ensure that the space between the right side of the refrigerator and the wall is at least 50 cm. If this space is less than 50 cm, the door may not be fully opened and the glass trays, vegetable case, etc. could not be taken out.



- Do not place any objects on top of the refrigerator. It can interfere with the compressor's heat dissipation, causing deformation or damages to its components.



- When using for the first time: clean the inside of the refrigerator.
 - Use a soft damp cloth to clean the refrigerator.
 - Rinse the water tank, water filter and ice tray with water.
 - When using for the first time, you can smell the plastic. If you are concerned, ventilate the room.
- **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, causing the refrigerator to work less efficiently.
- **Do not** locate the refrigerator near heat sources such as a 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 to make the refrigerator stands stably.

LED lamps and ground connection

- The refrigerator LED lamps are specially designed for this refrigerator, do not replace them by yourself. If you need replacement, please contact Panasonic Service Center.
- If there is no grounding wiring plug in refrigerator, it should be connected with grounding connection to prevent electrical hazard from electric leakage.

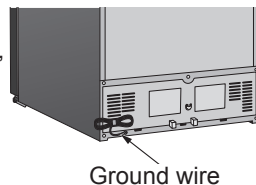
※ For safety, the ground connection should be done

(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.

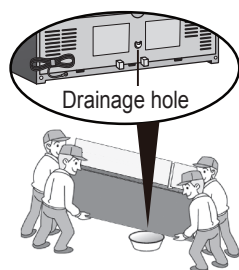


※ Prohibited spots for ground connection

- 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).

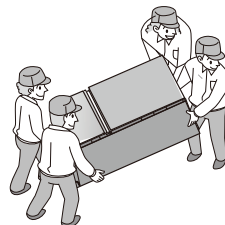
Moving or shifting

- ① Remove ice trays, water and ice in the tank.
- ② Unplug the appliance.
- ③ Adjust the adjustable legs (left and right) so that the legs do not touch the floor.
- ④ Empty the water tray at the back of the refrigerator. Place a container behind the tray at the back of the refrigerator, then tilt the refrigerator backward to drain water from the tray. This action requires 4 or more people, of which 2 people lift the front of the refrigerator to prevent the refrigerator from sliding and avoid 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 grabbing the refrigerator door.

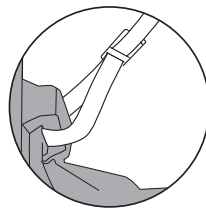


Caution

- When transporting, use straps to secure the refrigerator door and avoid letting the door 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.

Have any measures taken against tipping due to earthquakes?

In order to prevent the refrigerator from tipping due to earthquakes, secure the straps to the hooks at the back of the refrigerator.

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

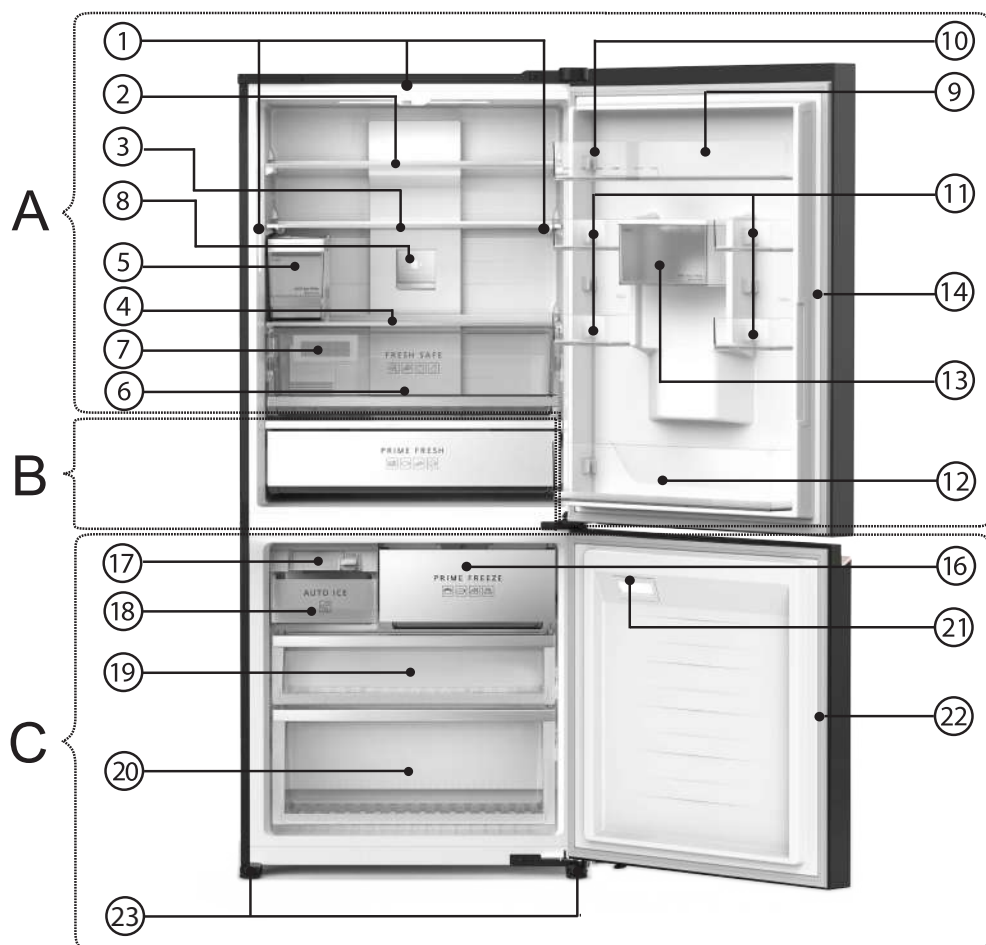
The doors should not be opened until interior has been cooled down sufficiently. (Warm air flowing into the interior will block the cooling function of the refrigerator.)

Please wait until the interior has cooled down.

- It may take approximately 4 hours to cool down the interior.
- It may take 24 hours or more to cool down the interior and achieve equilibrium in the summer.



Parts identification

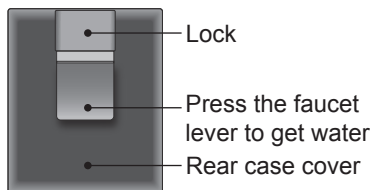


Parts identification

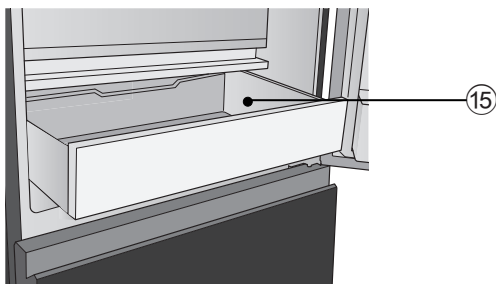
A-Fridge room

- ① LED of fridge room (Quantity: 03)
- ② PC Glass trays
- ③ Slide glass tray
- ④ Glass tray Crisper
- ⑤ Water tank of Auto Ice maker
- ⑥ Vegetable case
- ⑦ Humidifier for vegetable case
- ⑧ nanoe™ X
- ⑨ Large door shelf
- ⑩ Egg shelf
- ⑪ Small door shelf (Quantity: 04)
- ⑫ Bottle shelf
- ⑬ Water tank of Water Dispenser
- ⑭ PC Gasket Door

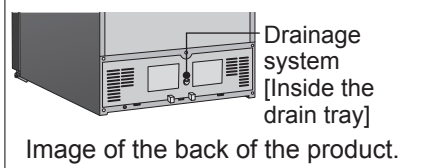
External water dispenser



B-Prime Fresh room



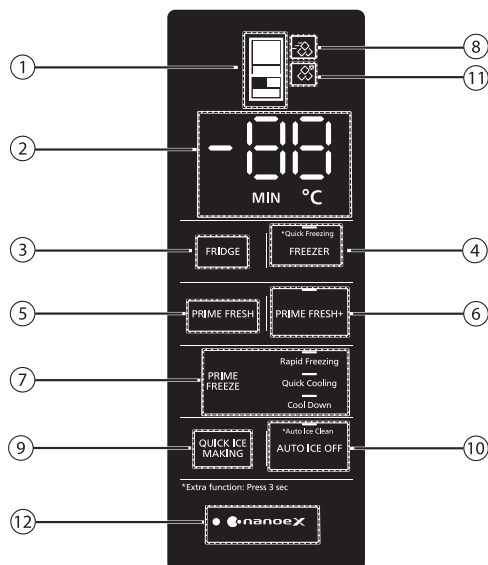
- ⑮ Prime Fresh case



C-Freezer room

- ⑯ Auto Ice maker
- ⑰ Ice box
- ⑱ Prime Freeze case
- ⑲ Upper Freezer case
- ⑳ Lower Freezer case
- ㉑ LED of Freezer room
- ㉒ FC Gasket Door
- ㉓ Adjuster bolts

Control panel interface and modes



- ① LED of compartments: the icon of the respective compartment will light up when the compartment is selected.
- ② Temperature and time display area: displays the temperature of Fridge room, Freezer room, Prime Fresh room and the time for modes of the Prime Freeze.
- ③ Temperature control button of fridge room.
- ④ Control button of freeze room, control button and LED of Quick Freezing mode.
- ⑤ Temperature control button of Prime Fresh mode.
- ⑥ Temperature control button and LED of Prime Fresh+ mode.
- ⑦ Temperature control button and LED of Prime Freeze mode.
- ⑧ Control button of Quick Ice Making mode.
- ⑨ LED of Quick Ice Making mode.
- ⑩ Control button of Auto Ice Off mode, control button and LED of Auto Ice Clean mode.
- ⑪ LED of Auto Ice Off mode.
- ⑫ Icon nanoe™ X and display LED.

Caution

- On the control panel: “*Extra function: Press 3 sec”, means that you need to press and hold the button beginning with “*” mark for 3 seconds when you want to start the extra functions.
- Under normal conditions, the control panel light will turn off. When you press the buttons or the refrigerator door is opened, the control panel light will turn on.
- In summer, when the temperature is high, if you put uncooled food in the refrigerator or open/close the refrigerator doors repeatedly, the temperature inside will increase and the displayed value will be higher than the setting temperature. Therefore, it is necessary to reduce doors opening times.
- When first plugged in, the control panel will display the introduction of modes and the temperature of compartments for about 10 seconds. Buttons will not be active during this period of time. After 10 seconds, the control panel can be adjusted normally.

Temperature Control

- The first temperature setting for Fridge room is 4 °C, Prime Fresh room is -3 °C and Freezer room is -20 °C. The temperature setting for each compartment can be adjusted.
- The temperature setting range of the fridge room is 7 °C ~ 1 °C, of the Prime Fresh room is -5 °C (the temperature for soft freezing is -3 °C, and the temperature to use the Prime Fresh room as the Fridge room is 4 °C ~ 0 °C), of the freezer room is -15 °C ~ -23 °C.
- The temperature inside the refrigerator will vary depending on the ambient temperature, installation status, usage conditions and amount of food.
- Due to different testing methods and tools, the actual temperature may differ from the displayed temperature.
- 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 be slightly different.

■ Temperature setting instructions

1. Display the current temperature

Press the following icons to display the current temperature of these compartments: Fridge room, Prime Fresh room, and Freezer room. When a compartment is selected, its LED which indicates position and its LED which indicates temperature will light on.

Icon	Compartment	LED indicates position of the compartment	LED indicates temperature of the compartment
FRIDGE	Fridge room		4 °C
PRIME FRESH	Prime Fresh room		-3 °C
FREEZER	Freezer room		-20 °C

2. Temperature setting

After pressing the icon of compartment (Fridge, Prime Fresh, Freezer) to display the current temperature, press again to start the temperature setting process. Then, LED indicates position of the compartment and LED indicates temperature of the compartment will flash. Continue to press the icon of that compartment to select the desired temperature level. Each time the button is pressed, the temperature will increase or decrease by 1 °C.

3. Complete temperature setting

After completing the temperature setting, press another button to finish and save the setting that you have just made. Or if no other button is pressed within 10 seconds, the control panel will save the setting and return to stand by mode.

ECONAVI operation

The refrigerator detects the opening/closing motion of the refrigerator door and the light around the refrigerator to automatically adjust its operation to ensure maximum energy saving.*1

■ 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 family's lifestyle patterns from the previous 3 weeks and uses that data from the 4th week onwards.

■ ECONAVI operation setting

- ECONAVI operation is enabled automatically when the temperature control for both the fridge room and the freezer room is set to 4 °C and -20 °C, respectively.
- ECONAVI operation does not operate if the "Quick Freezing", "Prime Fresh+", "Prime Freeze" or "Quick Ice Making" mode is in operation.
- It is not possible to force to start of the ECONAVI mode.

Caution

*1 The effectiveness of ECONAVI operation varies depending on the ambient temperature and brightness, the number of door opening/closing, and the state in which food is stored.

nanoe™ X mode

- A nanoe™ is a nano-sized ion particle coated with water particles. nanoe™ X are nano-sized electrostatic atomized water particles with 10 times the OH radicals of nanoe™.
- nanoe™ X will start when the refrigerator is plugged in and always run when the refrigerator is in use. However, nanoe™ X requires moisture when operating, the effectiveness of this mode will be reduced if the humidity inside the fridge compartment is reduced (such as when storing too little vegetable or tuber).
- The nanoe™ X device may cause a small sound during operation.
- After a long time closing, when open the doors of the fridge, it is possible to sense the typical odor of ozone generated during operation, this is a normal phenomenon.

Quick Freezing

When “Quick Freezing” is set, the refrigerator can reduce the temperature quickly for better food preservation.

■ How to operate the “Quick Freezing” mode



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

- Press and hold the “Freezer” icon for 3 seconds to start the Quick Freezing. Then, the light below the “Quick Freezing” icon will turn on.
- If you want to stop the Quick Freezing operation immediately, press and hold the “Freezer” icon again for 3 seconds until the light turns off.

Caution

- 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 [Quick Freezing] LED means that the defrosting system is currently working. The “Quick Freezing” mode will start right after the defrosting operation is finished.
- The temperature of the Freezer room will return to its previous setting when the Quick Freezing mode ends.
- The following modes will be stopped when Quick Freezing is turned on: Prime Fresh+ ; Quick Ice Making; Prime Freeze.

Prime Fresh+

When “Prime Fresh+” is set, the Prime Fresh room can reduce the temperature quickly for better food preservation.

■ How to operate the “Prime Fresh+” mode



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

- Press the “Prime Fresh+” icon twice to start Prime Fresh+. Then, the light above the “Prime Fresh+” icon will turn on.
- If you want to stop the Prime Fresh+ mode immediately, press the “Prime Fresh+” icon until the light turns off.

Caution

- “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+] (Prime Fresh+ room) turns off.)
- The flashing of [Prime Fresh+] LED means that the defrosting system is currently working. “Prime Fresh+” will start right after the defrosting operation is finished.
- The temperature of the Prime Fresh room will return to its previous setting when “Prime Fresh+” ends.
- The following modes will be stopped when Prime Fresh+ is turned on: Quick Freezing; Quick Ice Making; Prime Freeze.
- “Prime Fresh+” will not start when the temperature of the Prime Fresh room is being set at 4 °C ~ 0 °C.

Prime Freeze

Prime Freeze is a separate room located inside the Freezer room. This compartment is equipped with an individual fan system and high-class aluminum heat transfer plate, and modes to adjust the cooling time according to each food processing purpose in order to support the user in preparing food in a variety of way and save time.

■ How to operate Prime Freeze

- ① Press the icon of the Prime Freeze compartment on the control panel. Then, the LED indicates position of the compartment, the LED indicates 3 modes (*) and the LED indicates operating time(**) of the Prime Freeze will turn on when selected.
- | Icon | Compartment | LED indicates position of the compartment | LED indicates of 3 modes | LED indicates of operating time |
|--------------|-------------------|---|---|---|
| PRIME FREEZE | Prime Freeze room |  | <div> Rapid Freezing</div> <div> Quick Cooling</div> <div> Cool Down</div> | <div></div> <div></div> <div>MIN</div> |
- (*) For LED indicates 3 modes:
 - If the previous setting has not run out of time, the light will display the previous setting mode.
 - If there is no time left from the previous setting, all LED indicates of 3 modes will turn off.
 - (**) For LED indicates of operating time:
 - If the previous setting has not run out of time, the remaining minute value will be displayed.
 - If there is no time left from the previous setting, the minute value will be displayed as "--".
 - ② Continue to press the icon of the Prime Freeze compartment, then the LED indicates position will flash. After this step, if the previous setting have not run out of time, the minute value will be cleared and displayed back to "--". Press the icon of the Prime Freeze until the desired mode is selected. Each time the button is pressed, the LED indicates of operating time will show the time in each respective mode.
 - ③ Complete the setting

After completing the setting of Prime Freeze, press another button to finish and save the settings that you have just made. Or if no other button is pressed within 10 seconds, the control panel will save the setting and return to stand by mode.
 - ④ End mode

After the setting time of a mode running out, the control panel will display the time back to "0" and there will be a notification sound. The notification sound will repeat every 2 minutes for 6 minutes, until you press the "Prime Freeze" icon on the control panel or when the Freezer room door is opened. If you do not take food out immediately after the end of the mode, your food may be frozen more than desired.

■ Modes of Prime Freeze case

Mode name	Display	Purpose of food processing	Mode (Unit: Minute)	Recommended type of food	Remark
Cool Down		Cooling down quickly the warm/hot food	03	• Rice (150 g) • Potato salad (150 g)	- Do not cover the box with lid or cling film to ensure the effectiveness of Cool Down. If you are concerned about the smell of your food, you can use a lid or cling film to cover it, but the food may not be cold enough. - 5 minutes is the estimated time for 1 lunch box (about 150 g of rice) or 200 g of prepared food. If the amount of food is larger, it may take longer to cool down. - Quick Cooling can be used to cooling down over 200 ml of formula milk within 10 minutes. - After cooling down the formula milk with Cool Down, it is necessary to check the temperature of the formula milk before giving it to the baby.
			05	• Rice (300 g) • Potato salad (300 g) • Formula milk (100 ml) • Soup (150 ml)	
Quick Cooling		Cooling food quickly to save time for preparing food and desserts.	10	• Curry (200 g) • Fish (100 g) • Pudding (2 pieces) • Jelly (2 pieces)	- For ingredients that need to be marinated or seasoned such as meat, fried/grilled fish, soy-marinated eggs, etc., put the ingredients and spices into sealed containers/bags. The seasonings penetrate in the ingredients during cooling process. - For raw meat, fish, and shrimp that can be difficult to slice/cut, when being placed in quick cooling mode, the slicing/cutting will be easier. - Use aluminum or metal cups for jelly or desserts. With ceramic or porcelain containers, food may not be cold enough. - This mode can be used to cool beverages quickly.
			15	• Curry (400 g) • Chicken drumstick (250 g) • Pudding or Flan (4 pieces) • Jelly or cakes made from gelatine (4 pieces)	
Rapid Freezing		Freezing rapidly prepared dishes to ensure the preservation of prepared foods and save time for every day cooking.	45	• Beef (150 g) • Steamed vegetables (1 bunch of broccoli) • Vegetables (250 g of sliced cabbage) • Fried chicken (250 g for 2 people) • Fruit ice cream (300 ml) • Bread (2 slices)	- Cover fresh food and steamed vegetables with cling film, freezer bags or cover with tight lids. - Fried foods (e.g. fried chicken, fried shrimp/squid, spring rolls, lumpia,...) should be placed onto an aluminum tray or wrapped in aluminum foil, and use "Rapid Freezing". After freezing the food, put them into freezer bags or containers for storage. - This mode can be used to freeze some fruits such as strawberries, lychees, berries,... for long-term preservation.
			60	• Jellied meat (350 g) • Half of a chicken (500 g) • Beef (250 g) • Cubed ice (1 tray)	

Prime Freeze case

Caution

- Always place food on the aluminum heat transfer plate for the best cooling performance.
- When hot or wet food is placed on the aluminum heat transfer plate without a lid or cling film, the surface of the food may solidify or frost may build up inside the freezer compartment. If you feel concerned, use lids or cling film.
- Food should be cooled down to about 70 °C before putting in the Prime Freeze case.
- Leaving a glass bottle or can inside the compartment may pose a risk of breakage, cracking, or damage.
- Do not place food higher than the height of the Prime Freeze case to avoid the risk that the room door does not close completely, causing frost and damaging food and food containers in the room.
- Do not touch the metal storage container directly with wet hands, as there is a risk of frostbite.
- During the operation of Prime Freeze case:
 - ECONAVI operation will be stopped.
 - The noise from the fan will be louder.
 - The power consumption will be higher than normal.
 - If Quick Ice Making is set, Prime Freeze will be stopped.
 - The LED lamp of the Prime Freeze case will flash when the defrost system is operating and will stop flashing when the defrosting operation finishes. This is a normal phenomenon.
- When Prime Freeze is not in use, this case can also be used as any other position in the freezer room.
 - Small foods can be stored for easier finding.
 - The temperature in this room may be higher than the temperature in the entire freezer room. For long-term preservation, please transfer food to the freezer room.

Quick Ice Making

When setting Quick Ice Making, the Auto Ice maker will increase its capacity to reduce ice making time.

■ How to operate quick ice making



Light is on: Quick Ice Making is operated.
Light is off: Quick Ice Making is not operated.

- Press the “Quick Ice Making” icon twice in a row to start Quick Ice Making. Then, the icon of Quick Ice Making will turn on.
- When you want to stop “Quick Ice Making”, press the “Quick Ice Making” icon once until the light turns off.

Caution

- The following modes will be stopped when Quick Ice Making is turned on:
 - Quick Freezing
 - Prime Fresh+
 - Prime Freeze
 - Auto Ice Off

Auto Ice Off and Auto Ice Clean

When the refrigerator is in operation, the Auto Ice maker 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 maker and clean the ice maker automatically.

■ How to operate the Auto Ice Off mode



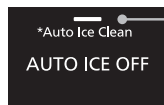
Light is on: Auto Ice Off is operated.
Light is off: Auto Ice Off is not operated.

- Press the “Auto Ice Off” icon twice in a row to stop Auto Ice Making. Then, the LED icon of Auto Ice Off mode will turn on.
- When you want to restart the Auto Ice Making mode, press the “Auto Ice Off” once. Then, the LED icon of the Auto Ice Off mode will turn off.

Caution

- When the Auto Ice Off mode is on, Quick Ice Making, if active, will be stopped.

■ How to operate the Auto Ice Clean mode



Light is on: Auto Ice Clean is operated.
Light is off: Auto Ice Clean is not operated.

- Press and hold the “Auto Ice Off” icon for 3 seconds to enable/disable the Auto Ice Clean mode. At the end of the auto ice cleaning process, the refrigerator will have a notification sound.

Caution

- Cannot stop/deactivate the operation of Auto Ice Clean mode when it is in processing.
- For details on the cleaning operation of Auto Ice maker, please refer to Page 26.

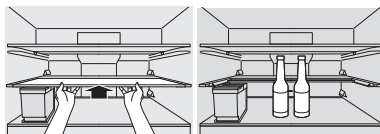
Fridge room

The temperature range of the fridge room is 1 °C ~ 7 °C

If the temperature of the Fridge room is set to 1 °C during a long period of time, your food may be frozen.

How to use slide glass tray

Slide half of the front glass tray to the back, then you can put things higher depending on your purpose of use.



Vegetable case

Large vegetable case is equipped with guide rail system with maximum opening angle, making it easy to get food located deep inside the case and increasing its load-bearing capacity, allowing the user to gently pull the case out with just one hand. The moisture control filter helps control the humidity inside the vegetable case, help the vegetables retain moisture and stay fresh.

Caution

- Due to high humidity, water drops may appear on the walls of the vegetable case. If water or water drops stay on the walls, wipe it off with a soft cloth.
- Do not allow food to exceed the height of the case, as there is a risk that the door will not close completely, causing frost and damaging vegetables and fruits.

User manual for the external water dispenser

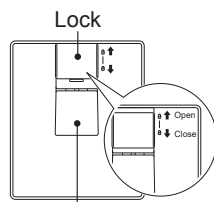
With the external water dispenser, you can get cold water without opening the refrigerator door.

■ How to dispense refrigerator water

- ① Push the lock upward until it touches the top edge.
- ② Hold the cup straight and gently push the faucet lever to get water.

Caution

- After taking enough water, slowly take the cup out to avoid the water leaking.
- Use a clean cloth to dry if any water spills out.
- When you need to lock the external water dispenser, pull the lock downward until it touches the bottom edge and the red line is visible. If it is not necessary to lock the external water dispenser, skip this step.



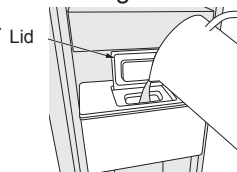
Press the faucet lever to get water

■ How to use water tank

- ① Open the lid and pour water into the tank.
- ② Close the lid tightly and close the refrigerator door to start cooling.

Caution

- When using for the first time, it is necessary to clean the water tank first.
- Do not pour hot water above 50 °C into the water tank.
- The tank can contain up to 3 liters of water. Do not pour water above the 3 L line on the tank.
- Only pour drinking water into the water tank; do not use beer, soft drinks, carbonated beverages, etc.
- Make sure the correct placement of the water tank when using the refrigerator. Otherwise, it will affect the cooling performance and cause condensation outside the refrigerator door.
- Check the water tank before use.
- The solid content of water must be 100 mg/L or less. Minerals may appear as a white supernatant. Minerals are not harmful.



■ Do not stuff too many items

When there are too many items and there is no space to circulate cool air inside the refrigerator, the cooling operation will be affected. Make space between different types of foods!

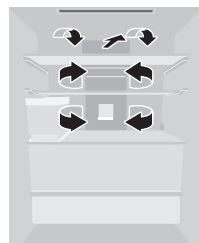


Using waste-free cool air inside the refrigerator is the key to keeping food fresher for longer!

■ Do not leave items blocking the air circulation inside the refrigerator

If the cool air does not spread, it will be difficult for the inside of the refrigerator to cool down and take more electricity to cool. Therefore, food should not block the air vents* and obstruct the air circulation inside the refrigerator.

*The air vents are located above the air guide inside the fridge room.



Prime Fresh room

The temperature in the Prime Fresh room can be selected at different level:

- The temperature for food to be standard prime fresh is -3°C .
- The temperature to use the Prime Fresh room as the fridge room is $4^{\circ}\text{C} \sim 0^{\circ}\text{C}$.

When using the refrigerator, the temperature can be adjusted according to usage of rooms.

*The factory default setting of temperature is -3°C .

Use of Prime Fresh room

Approx. $-1^{\circ}\text{C} \sim -5^{\circ}\text{C}$

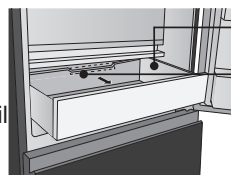
- This room is suitable for storing fresh food, such as meat or fish. Compared to storing in the Fridge room, the storage life of meat or fish becomes longer.
- When food is frozen too much.
Sliced raw fish or meat may be frozen too much. Set the temperature to higher than -3°C to prevent food from over frozen.
- When food is not partially-frozen.
Depending on the type of food, such as a block of meat or a large fish, the storage conditions and the ambient temperature, food may not be partially-frozen as it intended. Then, set to the lowest temperature, at -5°C .
- Do not stuff too many items. When there are too many items and there is no space to circulate cool air inside the refrigerator, the cooling operation will be affected. Make space between different types of foods!
- When storing food in large quantities, e.g. a chunk of meat, a large fish or a chicken, it is advisable to place the food in the center of the Prime Fresh room to optimize the cooling performance.
- When the temperature of the Prime Fresh room is at $4^{\circ}\text{C} \sim 0^{\circ}\text{C}$, Prime Fresh+ will not operate in order to prevent food spoilage.
- Do not leave items blocking the air circulation inside the Prime Fresh room.

If the cool air does not spread, it will be difficult for the inside of the Prime Fresh room to cool down and may spoil your food. Therefore, food should not be placed too high, in front of the air inlet (above the Prime Fresh case) and obstruct the air circulation inside the room.



Easy to cut.

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



Prime Fresh case
Cooling air guide

Freezer room

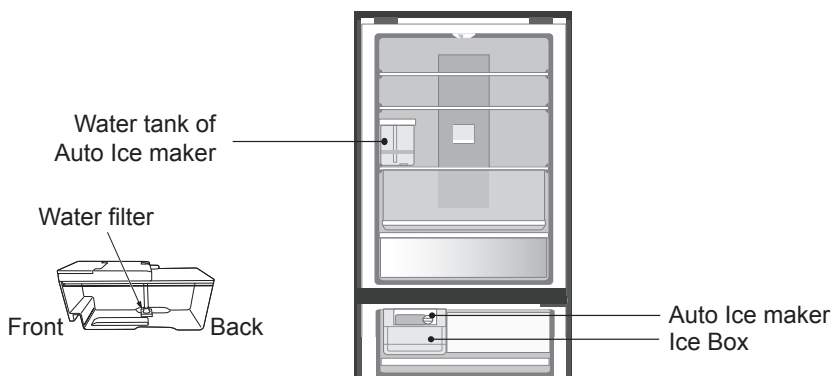
Frozen or refrigerated foods are stored for a long time by using the Prime Freeze case. The temperature range of the freezer room is -23 °C to -15 °C.



Three tips for freezing food and locking in the flavor

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

Automatic ice making



For easy usage of the Auto Ice maker



Please use only drinking water when making ice automatically.



Do not pour the following liquids into the water supply tank. (These liquids may damage the automatic ice maker).

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



Drinking water



Juice, v.v.



Sports drinks



Carbonated beverages



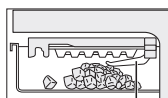
Hot water

Tips

- The solid content of water must be 100 mg/L or less. Minerals may appear as a white supernatant. These minerals are not harmful.
- When using the automatic ice maker for the first time, odors or dust may stick on the ice maker, etc. Please discard the first box of ice.
- Remember to regularly use the Auto Clean function of the Auto Ice maker. (Page 21)

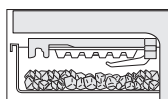
Caution

When the icebox is full and the ice cubes touch the ice detection lever, the ice making mode will stop automatically.



Ice detection lever

The pile of ice cubes will touch the ice detection lever. (Then, the automatic ice making mode will stop).



Distribute the ice cubes evenly inside the icebox to create more ice.

Caution

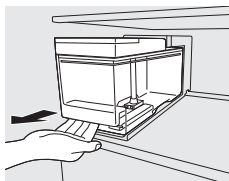
- Do not pour water directly into the icebox to make ice.
(Otherwise, the icebox may break).
- Do not pour food or other things into the icebox.
(Otherwise, it is impossible to detect the correct amount of ice, and the automatic ice maker may stop working, or the icebox may not be removed).

The ice making time will be longer in the following cases.

- The first time using the refrigerator.
(It will take at least 24 hours since the automatic ice making function only starts after the inside of the refrigerator is cool enough).
- When the refrigerator door is frequently opened.
- When the refrigerator door is slightly open.
- When the refrigerator is too full.
- When the room temperature is low during winter or high during summer.
- When an electrical fault occurs.

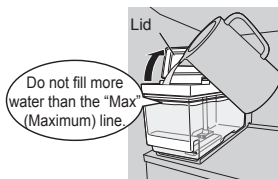
How to use water tank of automatic ice maker*

- ① Take the water supply tank out.



Pull out the water supply tank until it is blocked. Fill in water when the water level is under "Min" (Minimum) line.

- ② Fill with water.



Open the lid and fill the water supply tank with water, then put the lid back in place.

- ③ Install the water supply tank.



Confirm the direction of the water supply tank and install until the tank touch the end of ice box holder. (If the water tank does not touch the end of ice box holder, the ice maker could not operate)

*Ice could be made for about 2 hours, provided that the temperature in the fridge room is 4 °C, that in the Prime Fresh room is -3 °C, and that in the freezer room is -20 °C.

How to make ice quickly

■ In the "Quick Ice Making" mode, the ice making speed will increase.

Ice cubes can be made in at least 90 minutes*.

Caution

- After about 6 hours, the refrigerator will automatically return to normal automatic ice making mode.
- When the refrigerator is in defrost mode, the LED light of [Quick Ice Making] will flash. Quick Ice Making will restart automatically after the defrosting operation is finished.
- In Quick Ice Making, the consumed energy will increase higher than normal.
- ECONAVI operation does not work during the setting of "Quick Ice Making".

* The room temperature is 20 °C, the temperature of the fridge room, the Prime Fresh room, and the freezer room are 4 °C, -3 °C, and -20 °C, respectively.

How to clean the Automatic 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 ice maker cleaning 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 the ice maker cleaning mode, make sure there is enough water in the water tank.

- ① Pull out the icebox under the freezer, remove all ice cubes from the icebox (after the ice cubes are fully formed), and then install the icebox back in place.
- ② Fill the water tank with water.
- ③ Select the ice maker cleaning mode (Page 21).
 - At the same time, the refrigerator will emit an intermittent sound 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 icon of the ice maker cleaning mode on the control panel will turn off, the ice maker cleaning process will end and start the automatic ice making process.
- ④ Pull out the icebox from the freezer, pour the water in the icebox and wipe the water off the icebox.
If you do not clean all water on the icebox, the icebox may be broken.

How to turn off Automatic Ice Maker

You can enable/disable the ice making mode according to your needs.

■ Turn off ice maker

- ① Choose Auto Ice Off mode, the icon of the Auto Ice Off mode on the control panel will light up and the refrigerator will stop making ice (Page 21).
- ② No need to pour water in the water tank. The remaining water inside the water tank will be enough to keep making ice, and ice cubes will be available after 2 hours. When the icebox is full, the next cycle will not take place.
- ③ When you want to continue making ice automatically, please choose the Auto Ice Off mode, and the icon of the Auto Ice Off mode on the control panel will turn off (Page 21).

■ Turn off ice maker for a long period of time

- ① Empty the water tank and remove all ice cubes from the icebox.
- ② Clean the water tank, water filter, soundproof pad and icebox; dry these accessories and put them back in place.
- ③ When using again, please refill the water tank and put it back to its original position.

■ When transporting the refrigerator

- ① Empty the water tank and remove all ice cubes from the icebox.
- ② Choose Auto Ice Clean mode, the icon of the Auto Ice Clean mode on the control panel will light up and the refrigerator will start cleaning the ice maker. (At this time, the ice cubes and water in the process of making ice will fall into the icebox)
- ③ The cleaning process will stop after 2 minutes. Pull out the slide-out tray under the freezer, take out the icebox and empty the ice cubes and water in the icebox.
- ④ Clean the water tank, water filter and icebox; dry these accessories and put them back in 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 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.



Rub the door surface with a soft damp cloth.



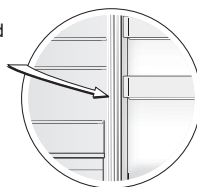
Clean the detachable items occasionally.

Clean the ice tray once a week. As directed, remove the trays, door shelves, etc., and wash them by immersing them in lukewarm water every 3 months.

Clean the door gasket at least once a month.

Clean by gently wiping. Apply lubricant to the door gasket on the hinge side of the appliance to reduce friction with the refrigerator body. Be careful not to wipe off the lubricant.

Lubricated position



Notices

The door gasket can be replaced by an authorised service agent.

The door gasket may come off the mounting groove while cleaning. It can be pushed back into the groove.

Caution

Do not use the following items for cleaning.
(Otherwise, the surface will be scratched or corroded.)



Kitchen detergents
(They crack plastic!)

Alkaline or weak Alkaline



Cleanser or soap powder



Gasoline, thinner,
alcohol, acid, petroleum



Scrubber



Hot water

How to clean the refrigerator

Egg shelf / Bottle shelf

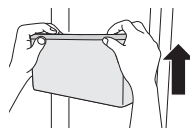
Once every 3 months

■ Remove shelf

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

■ Install shelf

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



Tray

Once every 3 months

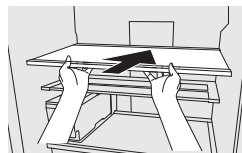
■ Remove tray

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



■ Install tray

- ② Push the tray until it reaches the end lock.



Notices

- For easy removal of the glass trays, the egg tray shelf/bottle shelves on the refrigerator doors need to be removed before removing the glass trays in the fridge room.
- The glass tray above the vegetable case is cleaned by directly cleaning inside the refrigerator.(Due to its fixed design.)
- In case of attaching the tray and it does not lock, make sure that you did not attach the wrong tray.
- Trays are made of glass and 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.

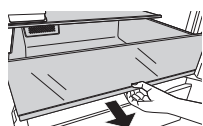
Vegetable case / Freezer case

Once every 3 months

※ Vegetable case

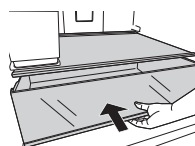
■ Remove case

- ① Fully open the fridge room door.
- ② Pull the case forward until it reaches the end and gently lift the front of the case to remove it completely.



■ Install case

- ① Fully open the fridge room door.
- ② Gently lift the case and push forward until it reaches the end.



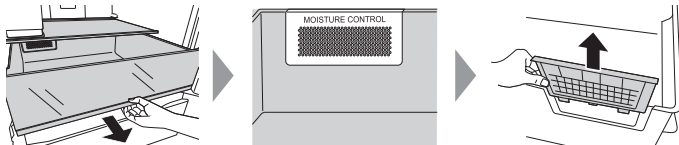
※ Freezer case

Remove and install the case in steps similar to those of the Vegetable case.

Humidifier of vegetable case

Once every 3 months

- ① After pulling out the vegetable case, the humidifier is located at the back of the vegetable case.
- ② Grab the humidifier and slide it on the shelf to remove it.



Notices

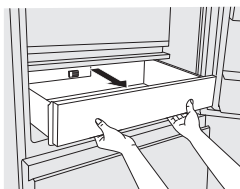
- After rinsing with water, wipe it or let it dry.
- For tough stains, dilute (neutral) kitchen detergent, and gently wash with a soft toothbrush, then rinse thoroughly with water.

Prime Fresh case

Once every 3 months

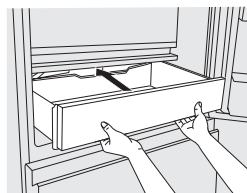
■ Remove case

- ① Pull the Prime Fresh room door all the way out.
- ② Gently lift the front of the Prime Fresh case and remove it diagonally.



■ Install case

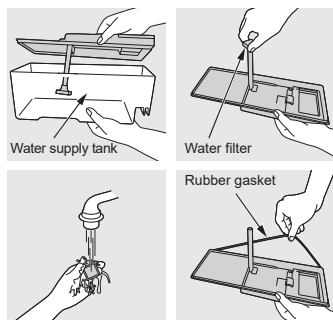
- ① Pull the Prime Fresh room door all the way out.
- ② Gently place the Prime Fresh case diagonally back to its original position, until it reaches the end.



Water supply tank / Water filter (of the automatic ice maker)

Weekly

- ① Open the lid and rinse the water supply tank with water.
- ② Rotate the water filter to remove the hook and remove the water filter.
- ③ Gently clean the water filter in water.
- ④ Remove the rubber opening seal on the hinge side of the refrigerator and wash it with water
- ⑤ Install the water filter and rubber opening seal in place.



Notices

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

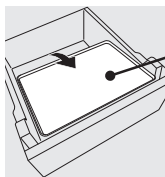
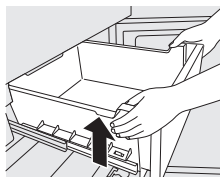
How to clean the refrigerator

Prime Freeze case

Once every 3 months

■ Remove case

- ① Pull the Prime Freeze case all the way out.
- ② Lift the case, tilt it, and lift it out of the compartment diagonally.



Aluminum heat transfer plate (Note that the aluminum plate is easy to be scratched and deformed)

■ Install case

- ① Raise the Prime Freeze case, lift the back of the case and hook along the inner grooves until it matches and touches the end point.

Notices

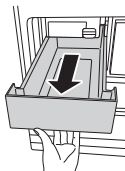
- The aluminum heat transfer plate can be removed; however, remember not to grab it with wet hands when the aluminum plate is cold, as there may be a risk of frostbite.
- When removing or installing the case, be sure to grasp the tray handle with your outstretched hand. Otherwise, the compartment door may accidentally hit your finger. Please refer to the illustration above.
- If washing with water, wipe the aluminum plate or allow it to dry before reinstalling into the refrigerator.
- Do not wipe the lubricant off the contact surface of the guide rail.
If you have wiped out the lubricant, please consult the Service Center.

Icebox

Once every 3 months

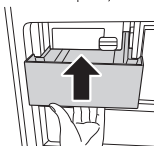
■ Remove case

Lift and pull the icebox forward until it is completely removed.



■ Install case

Push the icebox until it reaches the end of ice box holder.



Remark

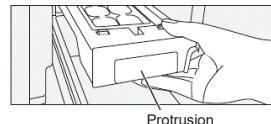
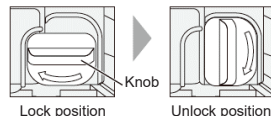
- Choose to stop the automatic ice making function before cleaning the icebox (Page 21).

The ice tray can be cleaned by using the Auto Ice Clean function (Page 21). In addition, the ice tray can be removed and cleaned manually.

How to clean the Ice tray manually.

■ Remove and clean the Ice tray

- ① Choose the Auto Ice Off mode (Page 21).
- ② Turn the knob on the auto ice maker to the unlocked position.
- ③ Pull the protruding side forward to remove the ice tray.
- ④ Rinse with water. (Do not use sharp scouring pads to scrub the surface of the tray. If the ice tray has scratches, the ice will not be dropped properly, resulting in damage to the ice tray.)

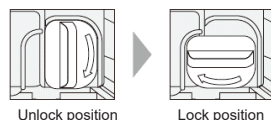


Notices

- The ice tray and the frame are inseparable.
- Do not clean with dishwashers or dish drying rack.

■ Install Ice tray

- ① Push the Ice tray in until you hear a “click”.
- ② Turn the handle into the locked position. Ice cannot be made if the Ice tray is not locked.
- ③ Disable the “Auto Ice Off” mode (Page 21) to restart the ice making process.



Notices

- Ice will not be made until the “Auto Ice Off” mode is turned off.
- Do not pour water directly into the Ice tray after manual cleaning. (Ice cubes may stick together or cause damage to the Ice tray.)

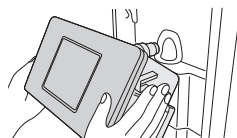
■ Remove tank

Pull up the water tank with both hands and tilt it slightly towards you.

■ Install tank

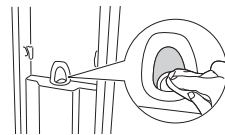
Insert the tip of the valve into the hole. Place both left and right edges of the water tank in the locked position.

Push the water tank all the way down until it reaches the end point.



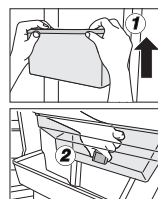
Notices

- When removing the water tank for cleaning, if the rubber pad is inserted reversely due to friction with the faucet, use your hand to push the pad in the opposite direction from the original position.
- The valve in the water tank can be removed by turning it counterclockwise.



■ Replace filter

- ① Use your hand to open the lid in the right corner.
 - ② Lift the filter straight out of the lock.
- Replace with a new filter. Put the filter back to its original position and close the lid tightly.



Notices

- Filters should be replaced every 3 years or when appropriate.
- You can contact Panasonic Service Centers nationwide to purchase a new cleaning filter.



Troubleshooting

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

The refrigerator does not operate.

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

The refrigerator is not cool enough.

- Check to ensure that the LED lamps are displayed at proper positions on the control panel.
- 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, snow 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, snow may form inside the freezer room at the location of the freezer room case, icebox or the Prime Freeze case door. 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.
- The cracking sound is caused by the thermal expansion of the internal components, which is normal.
- After installation, the refrigerator may make loud noise. The noise will reduce 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.

Troubleshooting

The inside is smelling.

- Do you store food with dry odor without wrapping it?

The surfaces of the refrigerator is hot.

- Because the refrigerator is equipped with the dew prevention and heat radiation tubes, the surfaces 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 operated.
- 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 sound becomes more quiet after cooling fully.

Lamp does not turn on.

- Please contact Panasonic service center.

Automatic ice making.

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 "Automatic ice maker shutdown" (Auto Ice Off) mode is set. (Page 21)
- 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 freezer, clean it up.
- Please contact Panasonic service center.

The ice does not form any ice cube

- Is the temperature of the freezer set to a higher temperature than -20 °C along with the temperature of the freezer room?
→ Adjust to a lower temperature. (Page 15)

Unusual shape of ice cubes.

- There are protrusions. → The grooves of the ice tray may be frozen.
- The ice cubes come in a round shape or stick with other ice cubes.
→ Ice has been stored for a long time. (The ice cubes become round or sticky due to sublimation.)
- Small ice cubes. → Small ice cubes are made when there is no water left in the tank.

Troubleshooting

The control panel flashes.

- Are you adjusting the temperature of your refrigerator or freezer?
→ Flashes during installation. Please complete the setting or the control panel will stop flashing after 10 seconds.

Food becomes frozen.

- Do you put the food near cold air holes?
- Do you adjust the temperature control to less than 4 °C for the fridge room and/or -3 °C for the Prime Fresh room?
→ Adjust to a higher temperature.
- Do you put food in Prime Fresh room?

The ECONAVI function does not work (the ECONAVI light does not come on).

- Are "Quick Freezing", Prime Fresh+ room , Quick Ice Making, Prime Freeze case in active? (Page 17)
- When the temperature is not set at 4 °C for the fridge room and -20 °C for the freezer room, the ECONAVI function does not activate automatically.
- Is the door opened too often or are there hot food stored in the refrigerator?
- The learning function can automatically disable the ECONAVI operation during regular use.
- Does the refrigerator display any error codes?

The ECONAVI operation is rarely active.

- Is there a power outage?
If there is a power failure, the data collected by the learning function until the power failure will be lost.
The ECONAVI operation is rarely active until the learning function could collect the data again.

The ECONAVI operation is stopped halfway.

- If the automatic defrost function is enabled while the ECONAVI operation is active, the normal cooling mode will be activated after the defrosting process completes. As a result, the ECONAVI operation may be stopped during defrosting/cooling.
- Sometimes, the learning function restarts the normal cooling mode.

The ECONAVI operation works too often (the ECONAVI light rarely turns off).

- Is the light intensity sensor hidden?
- Are there any stains or scratches on control panel of the light intensity sensor?
- The ECONAVI operation may operate while the refrigerator is in use depending on the usage conditions, but the cooling operation is still maintained.

The ECONAVI light does not come on normally.

Troubleshooting

Prime Freeze.

The food melts.

- Store frozen foods with the Prime Freeze case in a long period of time, or store high-fat ice cream in the freezer. (The cooling performance of the Prime Freeze case is rated with two stars.) (Page 18)
- Do not place cold food next to hot food.

Not cold, no freezing.

- Freezing capacity may not be sufficient depending on the type of food, packaging condition, storage capacity, and how often that the door is opened and closed.
→ Reset Prime Freeze. (Page 18)

Stop working halfway.

- If Prime Freeze is set during defrosting, the time display will start counting, but the fan will stop and the food will not be cooled enough. After defrosting, reset Prime Freeze.
- If Quick Ice Making, Quick Cooling, Prime Fresh+ are set during the operation of Prime Freeze, Prime Freeze will be stopped.

Error display on control panel.

- U10: Warning if door is open too long.
→ Check that the compartment doors are closed properly.
- H01: FCC sensor is tripped/short circuited.
- H02: PCC sensor is tripped/short circuited.
- H03: PFC sensor is tripped/short circuited.
- H05: DFC sensor is tripped/short circuited.
- H07: ATC sensor is tripped/short circuited.
- H21: Turn off the automatic ice maker.
- H43: The WE fan motor is broken or stuck.
- H29: The FC fan motor is broken or stuck.
- H31: Abnormal defrosting light of the freezer room.
- H41: Protect the refrigerator in case of low voltage.
- H50: Abnormal communication.
- H35: Refrigerant leak (high-pressure leak).
→ Please contact the Service Center for support.

Specifications

Model No.		NR-BW530X
Freezer Star Rating		✱✱✱✱
Capacity (L) (ISO 8561)	Total	500
	Freezer	186
	Fridge, Prime Fresh	314
Outside Dimensions Width x Depth x Height (mm)		750 x 750 x 1730
Net Weight (kg)		89
Refrigerant Type		R600a
Refrigeration System		Non-frost cooling
Rated Voltage (V) Rated Frequency (Hz)		Refer to the rating label attached inside the refrigerator.

Panasonic Corporation

Website: <http://www.panasonic.com>

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