



Panasonic®



Operating Instructions Refrigerator

For Household Use

Model No.: **NR-YW590Y**

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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 this 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 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 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 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 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 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 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 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, 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:



- Fix the refrigerator to avoid danger due to unbalance.
- When positioning the appliance, ensure the supply cord is not trapped or damaged.



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

Otherwise it may cause injury, accidents.



CAUTION

When opening/closing the doors:



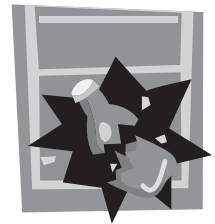
- While opening the refrigerator, be careful not to pinch other one's hand holding the door.
- Mind the gap between the doors. They may nip your hand while closing the door.



When storing food:



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



When moving the refrigerator:



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

Usage Precautions

When opening/closing the doors:

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

When cleaning:

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



Usage Precautions

When using:

- When the plug is disconnected, leave it for 7 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 are nothing refrigerated in the refrigerator, the 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, avoiding mold and oxidation of components.
- The outside wall of refrigerator cabinet may sometimes get warm, especially just after installation. This is quite normal, and is due to the built-in Mullion Dryer Pipe which prevents sweating and radiates heat.
- When humidity is high, e.g. during rainy-season, condensation may appear on the surface of cabinet, especially around the door seal 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. Gap 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.
- Drinking water, beverage bottles should be sealed to prevent odor contamination.
- Food stuff such as vegetables, fruits and fresh food should be wrapped or packed in box before freezing and refrigerating.
- Put the food such as meat or fish in the Freezer if you want to store for an extended period.
- Cover juicy food with tight lids, plastic film or foil.



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 user's 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 refrigerator.

■ Auto Ice Making system



ANTI BACTERIA
BPA FREE

- The refrigerator is equipped with an Auto 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 Auto Ice Off mode to stop ice making and Auto Ice Clean mode to automatically clean the ice maker.

■ nanoe™ X technology and Ag Clean



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

■ Steel rails for cases with maximum opening angle

- Heavy-duty steel rails optimize the load-bearing capacity, allowing users to gently pull out the food containers with just one hand.
- It is possible to fully pull out the compartment, making it easier to organize and select foodstuffs.

■ Independent Prime Fresh room and Prime Fresh+



- The temperature of Prime Fresh room can be changed from 4 °C ~ -5 °C**.
- Temperature -1 °C ~ -5 °C: Soft freeze temperature for food preservation, which helps to save time and effort in defrosting food, while keeping their flavor and freshness for longer.
- Temperature 4 °C ~ 0 °C: Same as Fridge room temperature when you want more space for food preservation in the Fridge room.

- The large-capacity Prime Fresh room 61 L helps to store more food and comfortable for big-size of foodstuff.
- Independent Prime Fresh room makes it easier to remove and clean, helps avoid mixing unpleasant odor or cross-infection.
- Saving energy as you can use Prime Fresh room without opening the whole Fridge room.

* The default temperature setting of Prime Fresh room is -3 °C.

** Depending on the type of food, such as a large block of meat or a large fish, the storage conditions and the ambient temperature, the cooling performance may be effected. In this case, the temperature of Prime Fresh room should be set to the lowest temperature -5 °C.

■ Prime Freeze



- Freeze fresh or prepared food quickly according to each mode, while keeping their fresh taste.
- 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.Depending on the purpose of food processing and the type of food, it is possible to choose from and apply different modes.

■ External water dispenser



- Allows users 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

■ Adjustable slide glass tray

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

■ Fresh Safe vegetable case

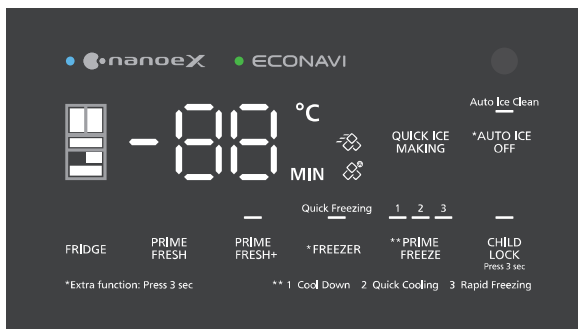


The large-capacity Fresh Safe vegetable case is equipped with a Moisture control filter, which keeps vegetables fresh and prolongs their shelf life.

■ Quick Freezing

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

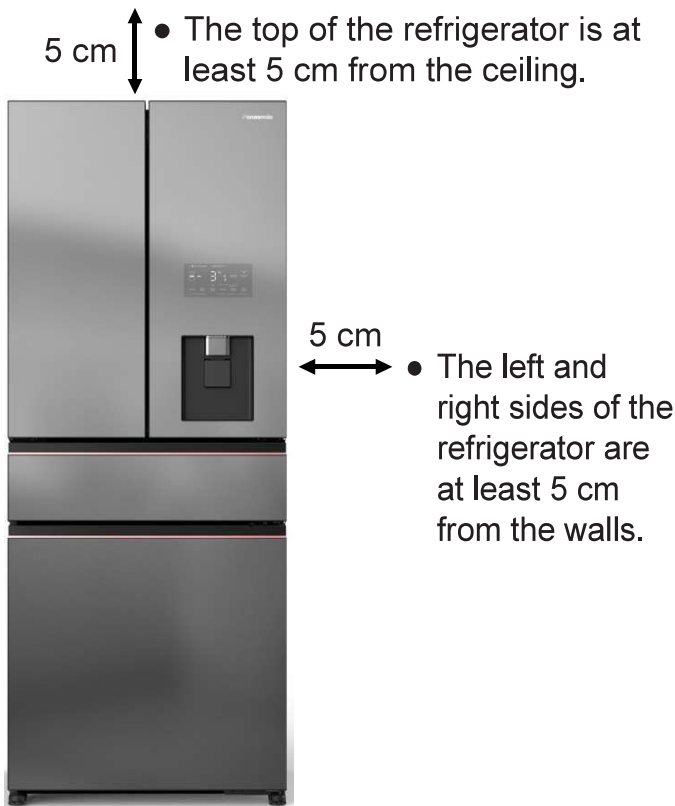
■ Convenient Operation Panel



- It is possible to adjust the temperature and modes of the Fridge room, the Prime Fresh room, the Freezer room and the Prime Freeze according to the user's intended purpose.
- The Fridge room and Freezer room have doors alarm to remind closing the refrigerator doors.
- The LED display and Operation Panel appear clearly and easy to use.
- There is a Child Lock mode.

Installation

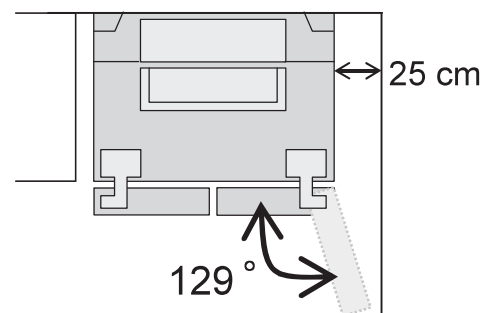
The distance requested for installation



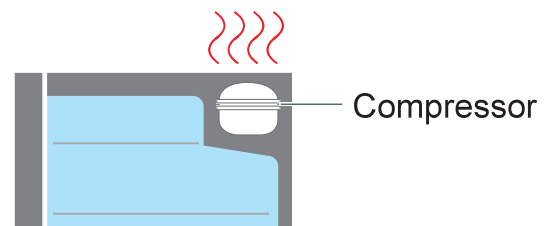
- The back of the refrigerator is at least 5 cm from the wall.

Caution

- In case the refrigerator is placed next to walls, it is necessary to ensure that the space between the left or right side of the refrigerator and the wall is at least 25 cm. If this space is less than 25 cm, the doors 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 may become hot due to heat generated by the compressor at the top of the refrigerator. If it is difficult to release heat, the cooling capacity may be lowered.



- When using for the first time: clean the inside of the refrigerator.
 - Use a soft damp cloth to clean the refrigerator.
 - Rinse the Water tanks, Water filters and Ice trays.
 - The smell of plastic could be smelled in the first time using the refrigerator. If you are worried about it, please 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 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 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 the refrigerator plug has no ground wire, it should be connected with a grounding connection to prevent electrical hazard from electric leakage.

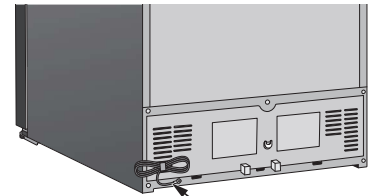
※ For safety, the ground connection should be done

(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.



Ground wire

※ Prohibited spots for ground connection

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

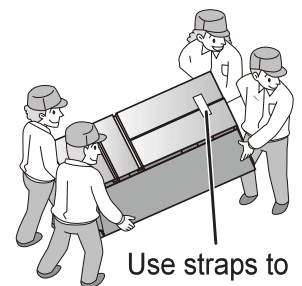
Moving or shifting

- ① Remove ice in the Ice Trays and Ice Box, water in the Water Tanks.
- ② Unplug the refrigerator.
- ③ Adjust the adjuster bolts (left and right) so that they do not touch the floor.
- ④ Place a container underneath the drainage hole, then slowly tilt the refrigerator backward to drain water from the drainage hole. This action requires 4 or more people, of which 2 people lift the front of the refrigerator to prevent the refrigerator from sliding and 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 holding the refrigerator doors.



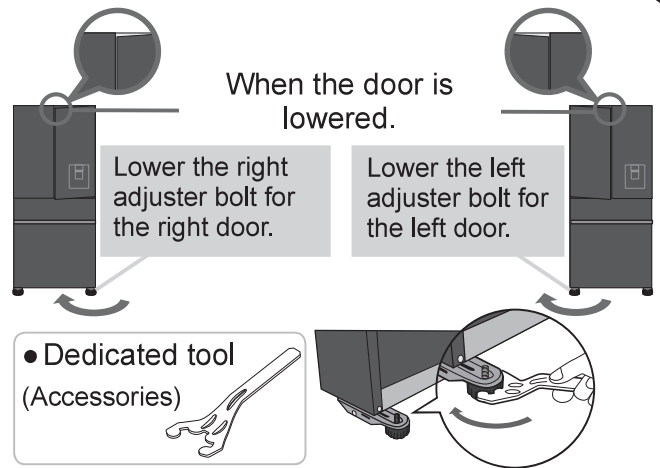
Caution

- When transporting, use straps 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.

If the door is slanted downwards.

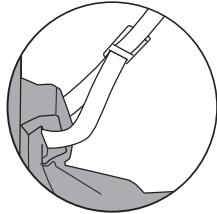
Turn the adjuster bolt on the lower side, as shown in the diagram, in order to adjust the level.

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



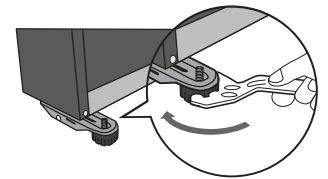
Have any measures taken against tipping due to earthquakes?

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



Fix the refrigerator.

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



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

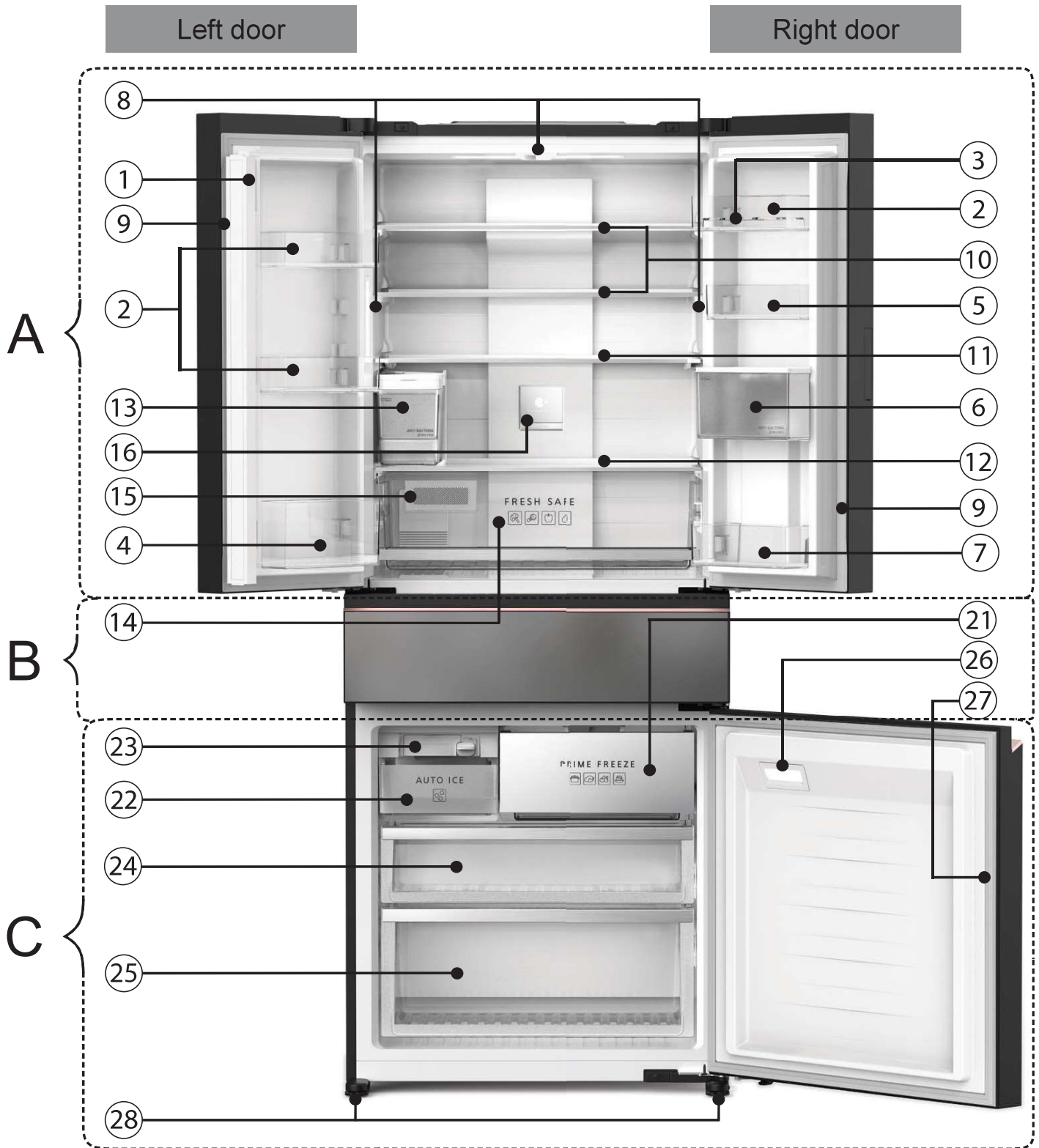
The doors should not be opened until the interior has been cooled down sufficiently. (Warm air flowing into the interior will block the cooling function.)

Please wait until the interior has cooled down.

- The refrigerator may take at least 4 hours of continuous running to cool down the interior, in the condition of no load 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 equilibrium.



Parts Identification



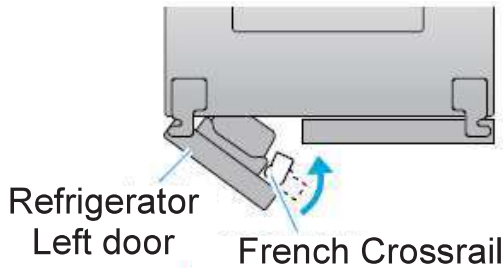
Parts Identification

A-Fridge room

① French Crossrail

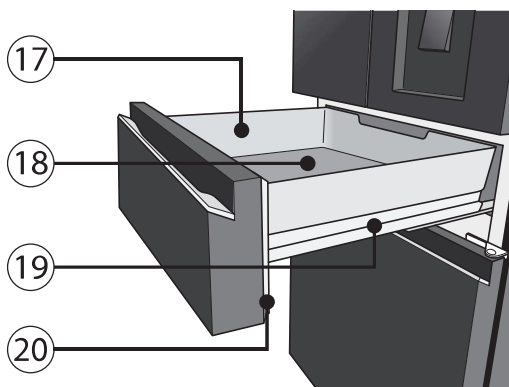
The French Crossrail minimizes the gap between the left door and the right door of the refrigerator. If this French Crossrail is opened forward, put it back into place.

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

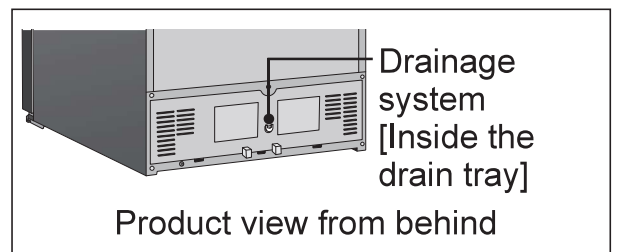
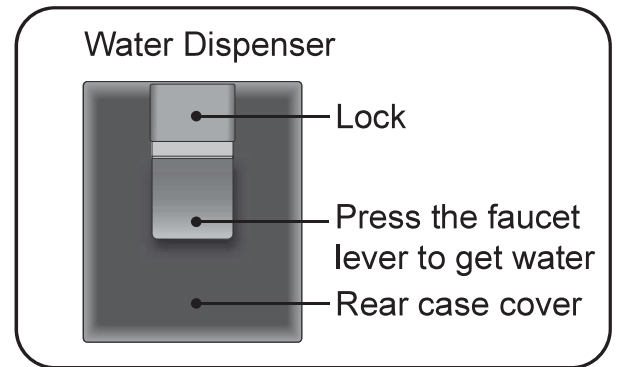


- ② Door shelves (Quantity: 3 pcs)
- ③ Egg tray
- ④ Bottle shelf
- ⑤ Small door shelf
- ⑥ Water tank of Water Dispenser
- ⑦ Small bottle shelf
- ⑧ LED of Fridge room (Quantity: 3 pcs)
- ⑨ Door gasket of Fridge room
- ⑩ Glass trays (Quantity: 2 pcs)
- ⑪ Slide glass tray
- ⑫ Glass tray vegetable case
- ⑬ Water tank of Auto Ice maker
- ⑭ Vegetable case
- ⑮ Moisture control filter for vegetable case
- ⑯ nanoe™ X icon

B-Prime Fresh room



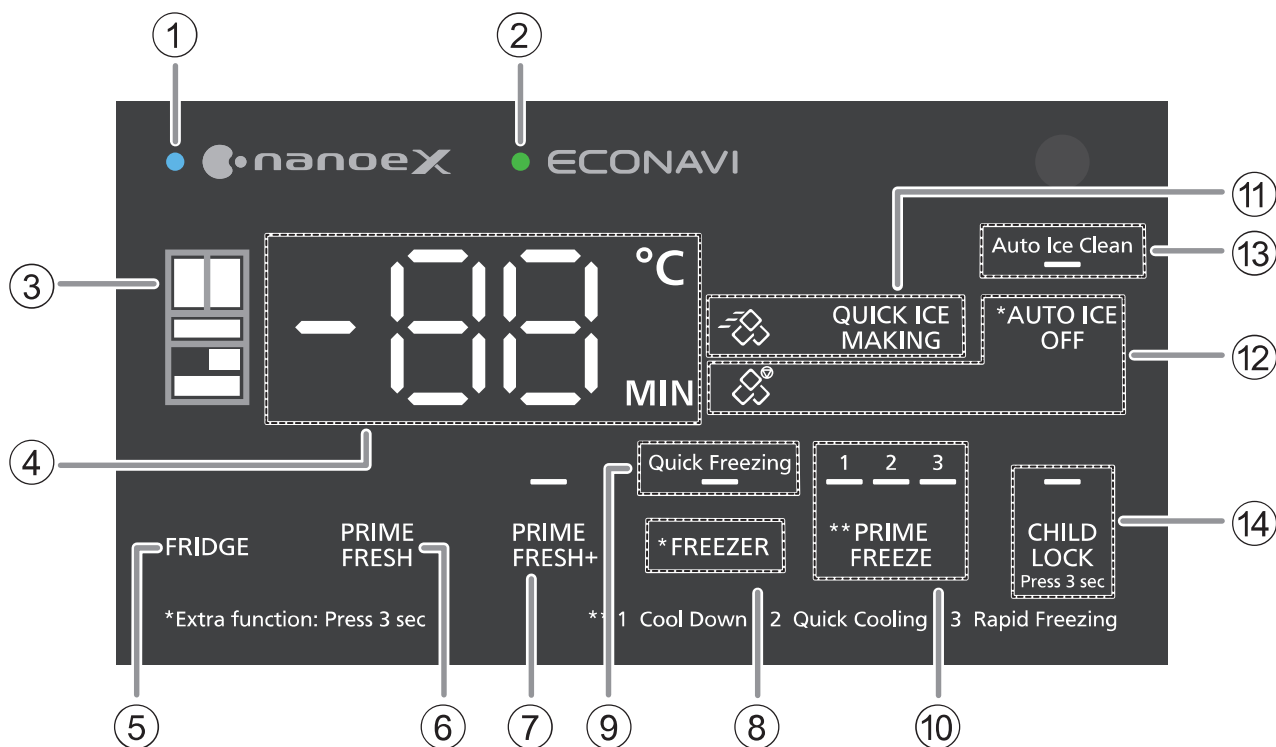
- ⑰ Prime Fresh case
- ⑱ Aluminum tray
- ⑲ Steel guide rails of Prime Fresh room
- ⑳ Door gasket of Prime Fresh room



C-Freezer room

- ⑳ Prime Freeze case
- ㉑ Ice box
- ㉒ Auto Ice maker
- ㉓ Upper Freezer case
- ㉔ Lower Freezer case
- ㉕ LED of Freezer room
- ㉖ Door gasket of Freezer room
- ㉗ Adjuster bolts

Operation Panel



- ① Icon and LED of nanoe™ X: display the current status of nanoe™ X mode.
- ② Icon and LED of ECONAVI: display the current status of ECONAVI operation.
- ③ LED of compartments: the icon of the respective compartment will light up when the compartment is selected.
- ④ Temperature and time display area: display the temperature of Fridge room, Freezer room, Prime Fresh room and the time for modes of the Prime Freeze.
- ⑤ Temperature control button of Fridge room.
- ⑥ Temperature control button of Prime Fresh room.
- ⑦ Control button and LED of Prime Fresh+.
- ⑧ Temperature control button of Freezer room.
- ⑨ LED of Quick Freezing.
- ⑩ Control button and LED for modes of Prime Freeze.
- ⑪ Control button and LED of Quick Ice Making.
- ⑫ Control button and LED of Auto Ice Off.
- ⑬ LED of Auto Ice Clean.
- ⑭ Control button and LED of Child Lock.

Remark

- On the Operation 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 Operation Panel light will turn off. When you press the buttons, the Operation Panel light will turn on. The Operation Panel light will turn off and all the buttons will not be operated when the refrigerator door is opened.
- 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 Operation 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 Operation 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 4 °C ~ -5 °C (the temperature for soft freezing is -1 °C ~ -5 °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 have a slight difference.

■ 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. The LED indicates position and the LED indicates temperature of the compartment will light on when selected.

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 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 Operation Panel will save the setting and return to stand by mode.

ECONAVI Operation

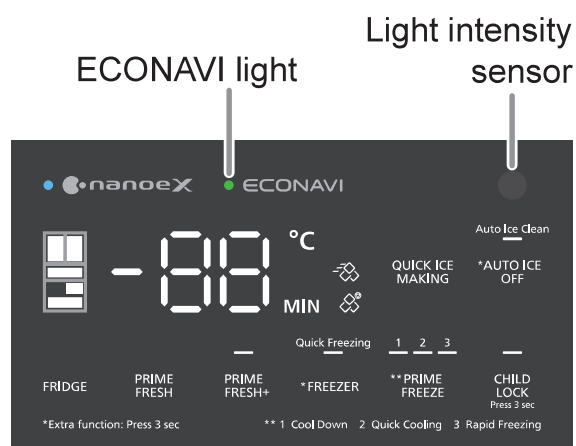
The refrigerator detects the opening and closing of the refrigerator door and the brightness around the refrigerator to control operations automatically to ensure maximum energy saving.*1

■ ECONAVI operation

- The refrigerator learns the lifestyle patterns of your family from door opening and time periods of infrequent use to maximize energy efficiency.
- The refrigerator learns your lifestyle patterns from the previous 3 weeks of use and uses that data from the 4th week onwards.
- The refrigerator performs the ECONAVI energy saving operation when it becomes dark around the refrigerator such as in the night.

■ Settings for enabling ECONAVI operation

- 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.



Remark

*1 The effectiveness of the ECONAVI mode is dependant on the ambient temperature, ambient brightness and the number of times the refrigerator door is opened and closed and the state in which food is stored.

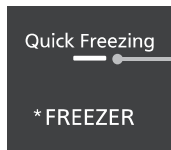
nanoe™ X

- 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 room is reduced (such as when storing a few of vegetables, tubers).
- The nanoe™ X device may cause a small sound during operation.
- After a long time closing, when open the doors of the refrigerator, 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 will reduce the temperature quickly for better performance of preserving food.

■ 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 for 3 seconds until the light turns off.

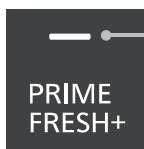
Remark

- The “Quick Freezing” operation will stop automatically after running for 150 minutes and return to normal mode. (The light LED [Quick Freezing] turns off.)
- The flashing of light LED [Quick Freezing] 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 will reduce the temperature quickly for better performance of preserving food.

■ 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 in a row to start Prime Fresh+. Then, the light above the “Prime Fresh+” icon will turn on.
- If you want to stop the Prime Fresh+ operation immediately, press the “Prime Fresh+” icon once until the light turns off.

Remark




- “Prime Fresh+” will stop automatically after running for 105 minutes (when the ambient temperature is 18 °C or less) or between 145 ~ 150 minutes (when the ambient temperature is higher than 18 °C) and return to normal mode. (The light LED [Prime Fresh+] turns off.)
- The flashing of light LED [Prime Fresh+] 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 dishes in a variety of way and save time.

■ How to operate Prime Freeze

- ① Press the icon of the Prime Freeze compartment on the Operation Panel. Then, the LED indicates position of the compartment, the LED indicates mode 1-2-3(*) 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 mode 1-2-3	LED indicates operating time
** PRIME FREEZE	Prime Freeze		1 2 3 	 MIN

(*) For LED indicates mode 1-2-3:

- 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 mode 1-2-3 will turn off.

(**) For LED indicates 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 press, the LED indicates 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 Operation Panel will save the setting and return to stand by mode.

- ④ End mode

After the setting time of a mode running out, the Operation 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 Operation 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

Mode name	Display	Purpose of food processing	Mode (Unit: Minute)	Recommended type of food	Remark
Cool Down 1 Cool Down	1	Cooling down quickly the warm/hot food	3	<ul style="list-style-type: none"> • Rice (150 g) • Potato salad (150 g) 	<ul style="list-style-type: none"> - Do not cover the box with lid or food wrapper to ensure the effectiveness of Cool Down. If you are concerned about the smell of your food, you can use a lid or food wrapper 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 cool 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.
			5	<ul style="list-style-type: none"> • Rice (300 g) • Potato salad (300 g) • Formula milk (100 ml) • Soup (150 ml) 	
Quick Cooling 2 Quick Cooling	2	Cooling food quickly to save time for preparing food and desserts.	10	<ul style="list-style-type: none"> • Curry (200 g) • Fish (100 g) • Pudding (2 pieces) • Jelly (2 pieces) 	<ul style="list-style-type: none"> - 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 ingredients will burst with flavor during the cooling process. - For fresh meat, fish, and shrimp that may be difficult to slice/cut, the slicing/cutting will be easier after placing them in Quick Cooling mode. - 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	<ul style="list-style-type: none"> • Curry (400 g) • Chicken drumstick (250 g) • Pudding or Flan (4 pieces) • Jelly or cakes made from gelatine (4 pieces) 	
Rapid Freezing 3 Rapid Freezing	3	Freezing rapidly prepared dishes to ensure the preservation of prepared foods and save time for every day cooking.	45	<ul style="list-style-type: none"> • Beef (150 g) • Steamed vegetables (1 bunch of broccoli) • Vegetables (250 g of sliced cabbage) • Fried chicken (250 g for 2 people) • Sherbet (300 ml) • Bread (2 pieces) 	<ul style="list-style-type: none"> - Cover fresh food and steamed vegetables with food wrapper, freezer bags or cover with tight lids. - Fried foods (e.g. fried chicken, fried shrimp/squid, spring rolls,...) should be placed onto an aluminum tray 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	<ul style="list-style-type: none"> • Jellied meat (350 g) • Half of a chicken (500 g) • Beef (250 g) • Cubed ice (1 tray) 	

Prime Freeze

Remark

- Always place food on the aluminum heat transfer plate for the best effectiveness of cooling.
- When hot or wet food is placed on the aluminum heat transfer plate without a lid or food wrapper, the surface of the food may be frozen and the inside of Freezer room may be frosted. If you are worry, please use lids or food wrapper.
- If cooked food is still at a high temperature, it 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 broken, cracking, or damage.
- Do not place the food which is higher than the height of the Prime Freeze case to avoid the risk that the Prime Freeze case does not close completely, causing frost and damaging food or food containers in the room.
- Do not touch the metal food container directly with wet hands, as there is a risk of frostbite.
- During the operation of Prime Freeze:
 - 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 flashing of [Prime Freeze] LED means that the defrosting system is currently working. “Prime Freeze” will start right after the defrosting operation is finished. 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 refrigerator 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.

Remark

- 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 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 ice maker automatically.

■ How to operate the Auto Ice Off mode



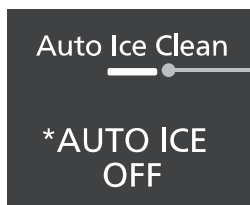
Light is on: Auto Ice Off is operated.
Light is off: Auto Ice Off is not operated.

- 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.

Remark

- 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 automatically cleaning process, the refrigerator will have a notification sound.

Remark

- Cannot stop/disable 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.

Child Lock

When setting the Child Lock mode, the Operation Panel will disable the interaction to adjust temperature and modes in order to prevent unintended adjustment by children.

■ How to operate Child Lock



Light is on: Child lock is operated.
Light is off: Child lock is not operated.

- Press the “Child Lock” icon and hold for 3 seconds to enable the Child Lock mode. Then, the light of “Child Lock” will turn on.
- When you want to stop the Child Lock mode, press and hold the “Child Lock” icon again for 3 seconds until the light turns off.

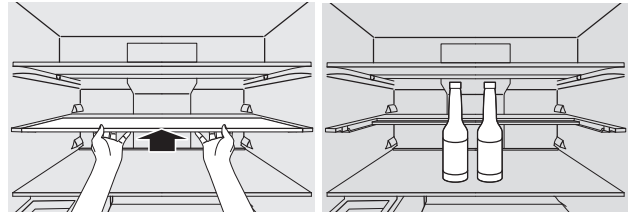
Fridge Room

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

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

How to use slide glass tray

Slide the front-half glass tray to the back, then you can store taller things 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.

Remark

- Due to high humidity, water drops may appear on the vegetable case. Wipe droplets off with a soft cloth.
- Do not place food higher than the height of the vegetable case to avoid the risk that the vegetable case does not close completely, causing frost and damaging vegetables and fruits.

How to use the Water dispenser

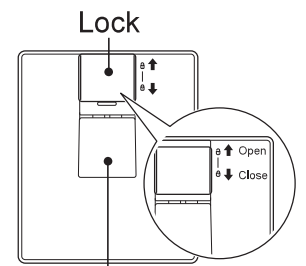
With the Water dispenser, you can get cold water without opening the refrigerator door.

■ Method of getting water

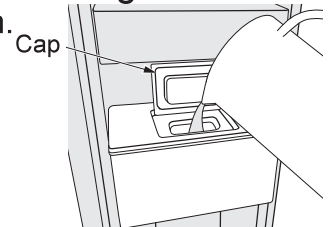
- ① Push the lock upward until it touches the top edge.
- ② Keep the cup straight and gently push the lever to get water.

Attention

- 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 Water dispenser, pull the lock downward until it touches the bottom edge and the red line can be seen. If it is not necessary to lock the Water dispenser, skip this step.



Push the level to get water



■ How to use Water tank

- ① Open the cap and pour water into the tank.
- ② Close the cap tightly and close the refrigerator door.

Attention

- 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.
- Ensure that the Water tank is always installed in the right position when the refrigerator is in use. Otherwise it will affect the cooling efficiency and cause sweating in the Fridge room door.
- Check the Water tank before use.
- Hardness of water must be 100 mg/L or less. The minerals may appear as white floating particles. They are not harmful.

22 • Water container should be filled from drinkable tap water. This product is not designed to

Tips for food preservation

■ Do not over stock too many food items

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

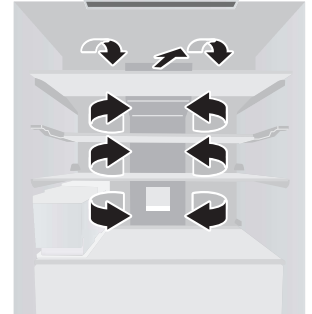


Not wasting cool air inside the refrigerator is the key to keeping food fresher for longer!

■ Do not block the cool air outlet with food items

If the cool air does not spread into every corner of compartments, then the interior will not be sufficiently cooled and more electricity will be consumed.

*The cooling air vents are located on the duct inside the Fridge room.



Prime Fresh Room

The temperature in the Prime Fresh room can be selected as below:

- The temperature for soft freeze is $-1\text{ }^{\circ}\text{C} \sim -5\text{ }^{\circ}\text{C}$.
- The temperature to use the Prime Fresh room as the Fridge room is $4\text{ }^{\circ}\text{C} \sim 0\text{ }^{\circ}\text{C}$.

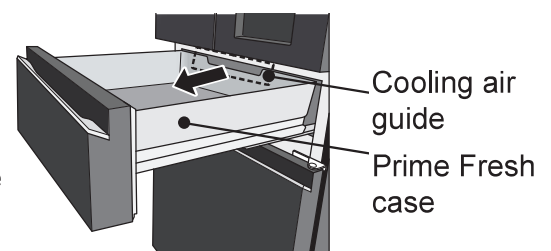
When using the refrigerator, the temperature can be adjusted according to your usage.

*The default temperature setting of Prime Fresh room is $-3\text{ }^{\circ}\text{C}$.

Using Prime Fresh room

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

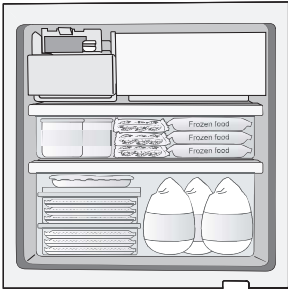
- This room is suitable for storing fresh food, such as meat or fish. Compared to storing in the Fridge room, the storage life of meat or fish becomes longer.
- When food is frozen too much.
Sliced raw fish or meat may be frozen too much. Set the temperature to higher than $-3\text{ }^{\circ}\text{C}$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



If the cool air does not spread into every corner of Prime Fresh room, then the interior will not be sufficiently cooled and the food may be affected. Therefore, food should not be placed in front of the Cooling air guide (on the Prime Fresh case) to prevent blocking the air circulation inside the room.

Freezer Room

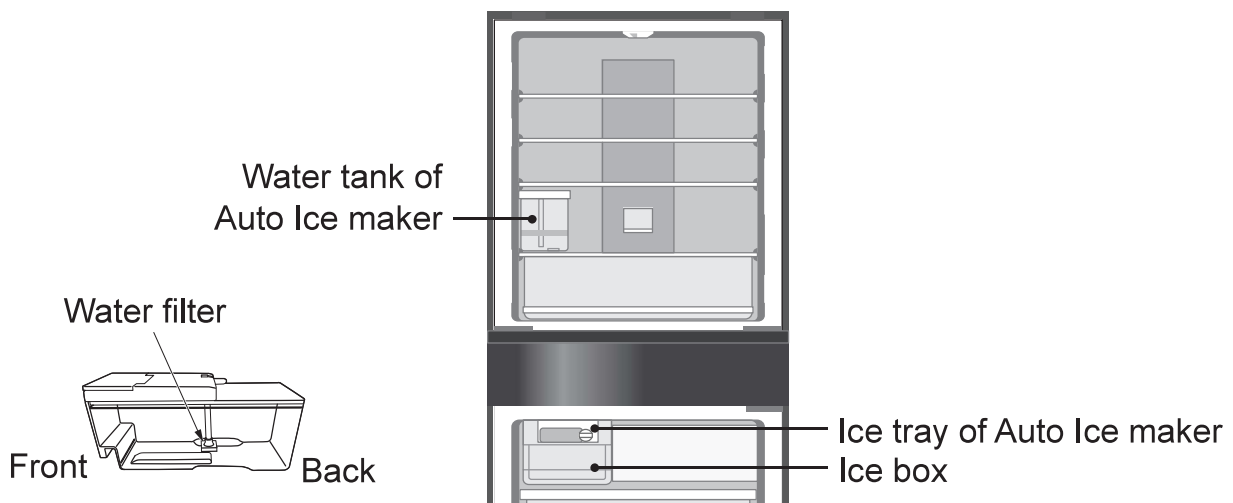
Frozen or refrigerated foods are stored for a long time by using the Prime Freeze case. The temperature range of the Freezer room is $-15\text{ }^{\circ}\text{C}$ to $-23\text{ }^{\circ}\text{C}$.



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

Auto Ice making



To use the Auto Ice maker in comfort



Please use only drinking water for Auto Ice making.



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

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



Drinking water



Juice, etc.



Sports drinks



Carbonated beverages



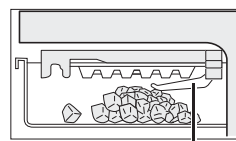
Hot water

Tips

- The hardness of water must be 100 mg/L or less. The minerals may appear as white floating particles. They are not harmful.
- When using the Auto Ice maker for the first time, odor or dust may be on the Ice tray, etc. Please throw away the first lot of ice.
- Remember to regularly use the Auto Clean function of the Auto Ice maker. (Page 21)

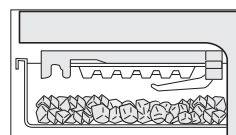
Attention

When the Ice box is full and the ice cubes touch the ice detection lever, the 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

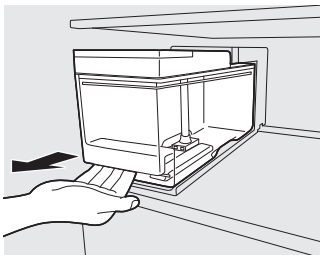
- Do not pour water directly into the Ice box to make ice.
(Otherwise, the Ice box may be damaged).
- Do not put food or other things into the Ice box.
(Otherwise, the amount of ice cannot be correctly detected and Auto Ice making may be stopped or the Ice box cannot be pulled out.)

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 is frequently opened.
- When the refrigerator doors is ajar.
- When a large amount of food is stored at once.
- When the ambient temperature is low during winter or high during summer.
- When a power failure occurs.

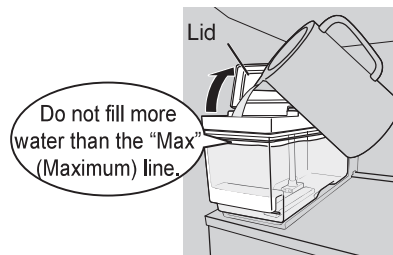
How to use Water tank of Auto Ice maker*

① Take the Water tank out.



Pull out the Water tank until it is blocked.
Fill water up to the “Min” (Minimum) line.

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 Fridge room is 4 °C, Prime Fresh room is -3 °C, and Freezer room is -20 °C.

How to make ice quickly

■ In the “Quick Ice Making” mode, the ice making speed will be increased.

Ice can be made within 90 minutes* at the quickest.

Remark

- After about 6 hours, the refrigerator will automatically return to normal Auto Ice making mode.
- The flashing of [Quick Ice Making] LED means that the defrosting system is currently working. “Quick Ice Making” will start right after the defrosting operation is finished.
- In Quick Ice Making, energy consumption increases more than usual.
- ECONAVI operation does not work during the setting of “Quick Ice Making”.

* Ambient temperature of 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 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 the ice maker cleaning 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 (Page 21).
 - 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 icon of the Auto Ice Clean mode 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 room, 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 damaged.

How to turn off Auto Ice maker

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

■ Turn off Auto Ice making

- ① Choose the Auto Ice Off mode, the icon of the Auto Ice Off mode on the Operation Panel will turn on 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 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 choose the Auto Ice Off mode, and the icon of the Auto Ice Off mode on the Operation Panel will turn off (Page 21).

■ 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 Empty the Water tank and remove all ice cubes from the Ice box.
- ② Choose the Auto Ice Clean mode, the icon of Auto Ice Clean mode on the Operation Panel will turn on 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 Ice box)
- ③ The cleaning process will stop after 2 minutes. Take out the Ice box and empty the ice cubes and water in the Ice box.
- ④ Clean the Water tank, Water filter and Ice box; dry and put them back to their place.

How to Clean the Refrigerator

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

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



Clean the door gasket at least once a month.

Clean by wiping with a soft damp cloth.

Lubricated gel has been applied to the door gasket on the hinge side of the refrigerator, be careful not to wipe it off.

Point where lubricated gel was applied

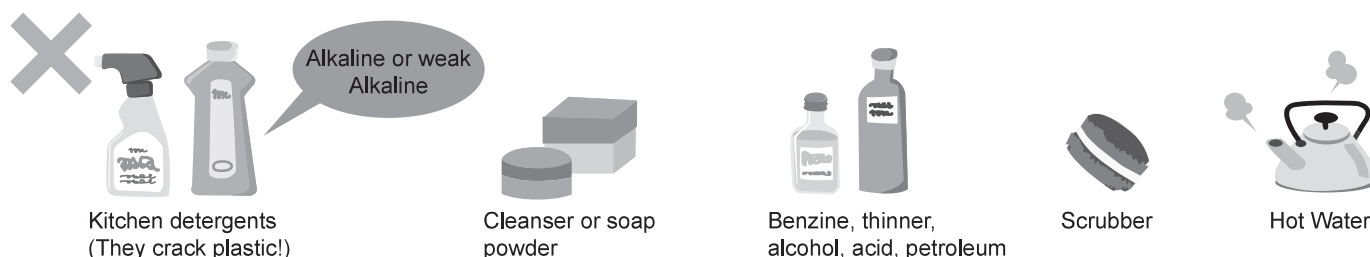


Notices

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.)



Egg shelf / Bottle shelf

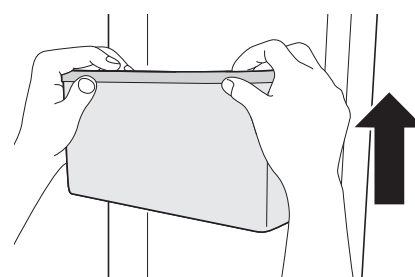
Once every 3 months

■ 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.



How to Clean the Refrigerator

Tray

Once every 3 months

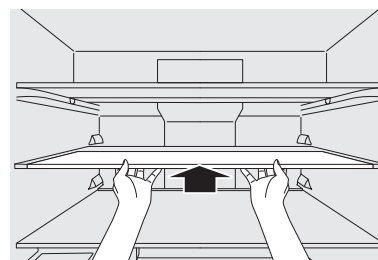
■ Removing

- 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 reaches the end lock.



Remark

- For easier to take the glass trays out from the refrigerator, please remove door shelves and bottle shelves first.
- The Glass tray 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 it into it 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

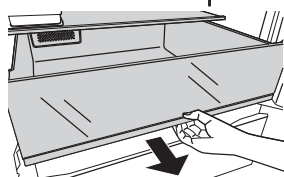
Once every 3 months

※ Vegetable case



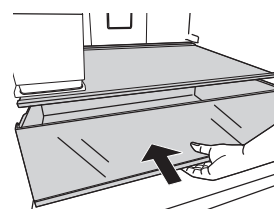
■ Removing

- ① Fully open both doors of the Fridge room.
- ② Remove the Bottle shelf ④ and Small bottle shelf ⑦ (According to Parts identification in Page 12, 13 before removing the Vegetable case.
- ③ Pull the case forward until it reaches the end and gently lift the front of the case to remove it completely.



■ Attaching

- ① Insert the case unit into the supports.
- ② Gently lift the case and push forward until it reaches the end.
- ③ Install Bottle shelf ④ and Small bottle shelf ⑦ into the doors.



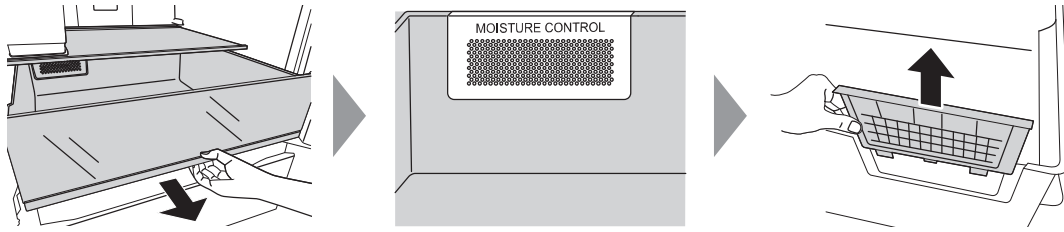
※ Freezer case

Skip the steps of removing and installing the Bottle shelf ④ and Small bottle shelf ⑦. Remove and install Freezer cases in steps same as Vegetable case.

Moisture control of vegetable case

Once every 3 months

- ① After pulling out the Vegetable case, the Moisture control is located at the back of the Vegetable case.
- ② Slide the Moisture control upward to remove it.



Remark

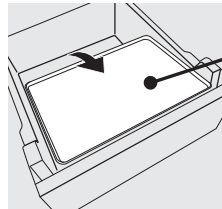
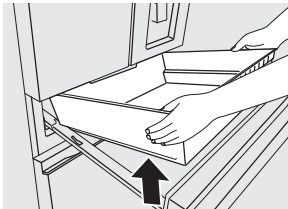
- After cleaning by water, wipe it or let it dry.
- For tough stains, dilute (neutral) kitchen detergent, and gently wash with a soft toothbrush, then rinse thoroughly with water.

Prime Fresh case

Once every 3 months

■ Removing

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



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

■ Attaching

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

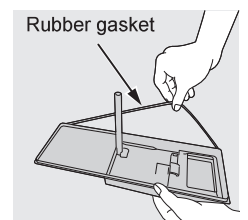
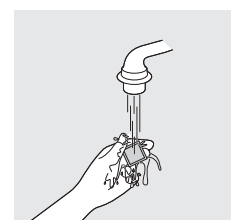
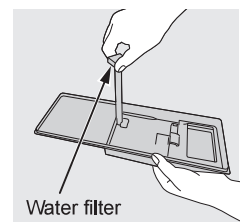
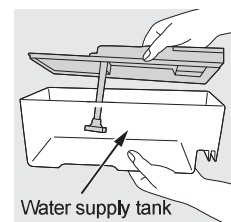
Remark

- When installing the case, make sure to install the front and the back of the case properly. The front of the case has the word "Front".
- The aluminum heat transfer plate can be removed; however, remember not to hold it with wet hands when the aluminum plate is cold, as there may be a risk of frostbite.
- If cleaning by water, wipe the aluminum plate or allow it to dry before reinstalling into the refrigerator.
- Do not wipe the lubricant off the steel guide rails or the contact surface of the guide rail. If you have wiped out the lubricant, please contact with the Service Center.

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

Weekly

- ① Open the lid and clean the Water tank with water.
- ② Rotate the Water filter to remove the hook and remove the Water filter.
- ③ Gently wash the Water filter in water.
- ④ Remove the 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.

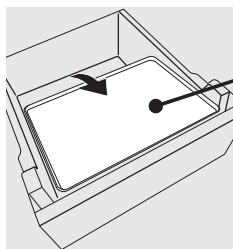
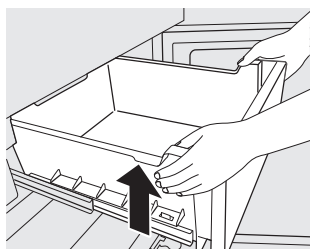
How to Clean the Refrigerator

Prime Freeze case

Once every 3 months

■ Removing

- ① Pull out the Prime Freeze completely.
- 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)

■ Attaching

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

Remark

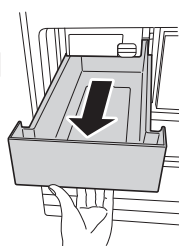
- The aluminum heat transfer plate can be removed; however, remember not to hold it with wet hands when the aluminum plate is cold, as there may be a risk of frostbite.
- When removing or installing the case, be sure to grasp the tray handle with your outstretched hand. Otherwise, the compartment door may accidentally hit your finger. Please refer to the illustration above.
- If cleaning by 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 contact with the Service Center.

Ice box

Once every 3 months

■ Removing

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

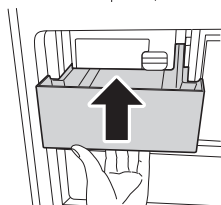


Remark

- Stop the Auto Ice making function before cleaning the Ice box (Page 21).

■ Attaching

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

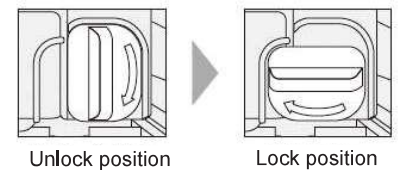
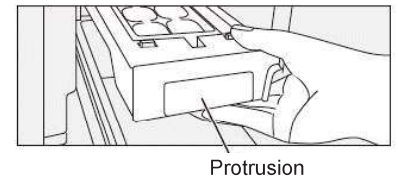
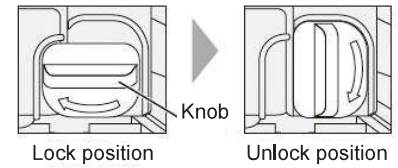


The Ice tray can be cleaned by using the Auto Ice Clean function (Page 21).
In addition, the Ice tray can be removed and cleaned manually.

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 Clean it with water. (Do not use sharp scouring pads to scrub the surface of Ice tray. If the Ice tray is scratched, ice may not be properly released, leading to a malfunction.)



Remark

- The Ice tray and its frame cannot be separated.
- Do not clean with dishwashers or dish drying rack.

■ Attaching

- ① Push the Ice tray in until you hear a “click”.
- ② Turn the knob 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 Auto Ice making.

Remark

- 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. (That may cause ice cubes sticking together or a malfunction.)

Water tank/Water filter (of Water dispenser)

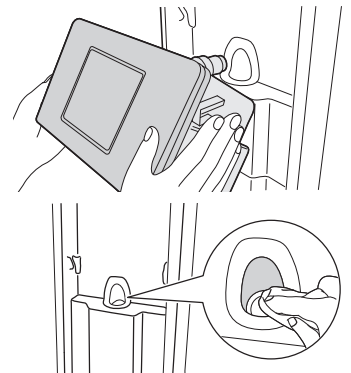
Weekly

■ Removing

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

■ Attaching

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.

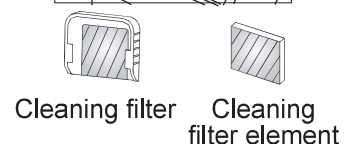
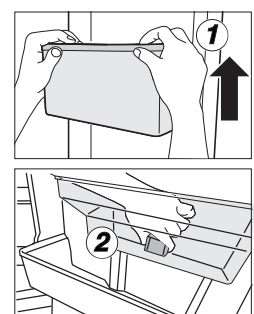


Remark

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

■ Replace filter

- ① Open the lid at the right corner using a hand.
- ② Lift the filter straight out of the lock.
Replace with a new hygiene filter. Put the filter back to its original position and close the lid tightly.



Notices

- The hygiene filter should be replaced every 3 years or when appropriate.
- The hygiene filter can be purchased at all authorized service center.

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 of the house.
- Check by unplug and wait for 7 minutes before plugging it back in.

The refrigerator does not cool enough.

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



Dew, frost appears.

Outside

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

Inside

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

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 surrounding temperature is high. The sound becomes more quiet after cooling fully.

Light does not turn on.

- Please contact Panasonic Service Center.

Auto 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 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 Ice box, clean it up.
- Please contact Panasonic Service Center.

The ice does not form any ice cube

- Is the temperature of Freezer room set to a higher temperature than -20 °C?
→ 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 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.

Troubleshooting

The Operation Panel flashes.

- Are you adjusting the temperature of your refrigerator?
→ Flashes during adjusting. Please complete the setting or the Operation 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 failure?
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 dirt or scratches on Operation 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.	<ul style="list-style-type: none">● Store frozen foods with the Prime Freeze case in a long period of time, or store high-fat ice cream in the Freezer. (Page 18)● Do not place cold food next to hot food.
	Not cold, no freezing.	<ul style="list-style-type: none">● 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.	<ul style="list-style-type: none">● 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 Freezing, Prime Fresh+ are set during the operation of Prime Freeze, Prime Freeze will be stopped.
Error display on Operation Panel.		<ul style="list-style-type: none">● U10: Warning if doors are opened too long. → Check that the doors are closed properly.
		<ul style="list-style-type: none">● The letter "H" and two digits are displayed on Operation Panel. For example: H01 → Please contact the Service Center for support.

Specifications

Model No.		NR-YW590Y
Freezer Star Rating		
Capacity (L)	Total	540
	Freezer	186
	Fridge, Prime Fresh	354
Outside Dimensions Width x Depth x Height (mm)		750 x 750 x 1890
Net Weight (kg)		100
Refrigerant Type		R600a
Cooling System		Non-frost cooling.
Rated Voltage (V) Rated Frequency (Hz)		Refer to the rating label attached inside the cabinet.

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