INVERTER

Panasonic



Operating Instructions
Refrigerator

For Household Use

Model No.: NR-XY680Y

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

Thank you for purchasing the Panasonic product.

- Please read these instructions carefully and follow safety precautions on page 2-5 before using this product.
- Please make sure the date and name of store of purchase are stamped in warranty card and keep it with 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 should only be carried out by a qualified technician.

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

- **Do not** disassemble, repair or modify the refrigerator by yourself. If you want to repair the refrigerator, please consult your dealer or authorized service center.
- **Do not** use mechanical 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.
- In regards 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.
- Only plug into a wall outlet of the correct rated voltage and current, and fully insert the plug on its own.
- Reserve one socket for the refrigerator only. Avoid connecting many appliances to the same socket and and unroll the full length of the cord.
- Remove dust periodically from the power plug.
- If the power cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- If you detect burning smell, disconnect the power plug and ventilate the kitchen.
- **Stop** using the refrigerator and unplug the unit immediately if there is an abnormality or failure. Abnormality and failure examples:
  - Power cord or plug is abnormally hot.
  - Power cord is deeply cut or deformed.
  - There is burning smell.
  - You can feel tingling electricity.

When using:

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

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

When installing:

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

- Ensure that the refrigerator is plugged into an earthed 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 fully seal to the refrigerator's body.

When cleaning:

- **Do not** clean the refrigerator with chemical substances or liquids. It will cause damage and lead to corrosion on the surface.



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.

When storing food:



- **Do not** overload the refrigerator. Gaps must be provided between foodstuffs to maintain the cooling effect.
- Store fruits and vegetables in vegetable case, where trapped moisture helps preserve food quality for longer time periods.
- Drinking water and beverage bottles should be sealed to prevent odor contamination.
- Food stuff such as vegetables, fruits and fresh food should be wrapped or packed in a box or storage container before freezing.
- Meat and Fish should be put in the Freezer compartment if you want to store them for an extended period.
- Cover juicy food with tight lids, plastic film or foil.

While using the Panasonic SmartApp+"...

Radio waves from the refrigerator's wireless LAN module may cause interference to other devices. Therefore:

- Individuals with pacemakers must keep at least 15 cm away from the refrigerator.
- The refrigerator must be placed away from medical equipments and automated equipment (automatic doors, fire alarms, etc)

Highlighted Features

■ High-end design suitable for luxury kitchens



- Borderless glass surface with handle with modern design.
- Large refrigerator capacity providing spacious food storage space.
- Design of 4-symmetrical-doors helps to open the doors and take out food more quickly and efficient.

■ Energy saving

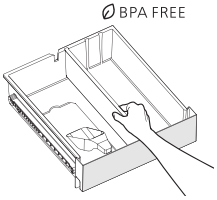
- Panasonic's INVERTER technology increases energy saving and reduces noise.
- Panasonic's exclusive ECONAVI technology allows identification of changes in user's lifestyle habits, helping the refrigerator to automatically adjust to reduce energy consumption.
- AI ECONAVI technology saves energy intelligently and efficiently through GPS data. Detect your absence for smart energy saving, detect your location for efficient cooling.

■ 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





- 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 an Auto Ice Off mode to stop ice making and Auto Ice Clean mode to automatically clean the ice maker.
- Ice box is designed with an Customized divider to flexibly adjust the storage space inside the Ice box for your usage.

■ 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.

■ Independent Prime Fresh (Prime Fresh 1 and Prime Fresh 2) and Prime Fresh+



- The temperature of Prime Fresh cases can be changed from -5 °C ~ 4 °C(*).
  - Temperature -5 °C ~ -1 °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 0 °C ~ 4 °C(**): Same as Fridge compartment temperature when you want more space for food preservation in the Fridge compartment.
- The large-capacity Prime Fresh case helps to store more food and comfortable for big-size of foodstuff.
- Two separate Prime Fresh cases with independent temperature control help preserving food better, avoiding odor influence and cross-contamination. In addition, similar-sized foods can be stored in the same Prime Fresh case, to adjust the appropriate temperature accordingly, avoiding the case that the food is not frozen enough or too frozen.
- Independent Prime Fresh case makes it easier to remove and clean. (Refer to Page 37)
- Saving energy as you can use Prime Fresh case without opening the whole Fridge compartment.

(*) The default temperature setting of Prime Fresh cases 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 cases should be set to the lowest temperature -5 °C.

■ Prime Freeze





- Freezing 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.
- To adjust the time of the modes of the Prime Freeze, refer to the application “Panasonic SmartApp+”. The application allows to adjust the time by minute, create and save the Prime Freeze modes fluently used in My list section.

■ 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.

■ **New Slide glass tray with tempered glass and Wine rack**

- The adjustable Slide glass tray in the Fridge compartment allows flexibility in food storage capacity.
- New design of Wine rack made from luxurious alloy providing the convenience for keeping cool the wines and bottles inside the refrigerator.

■ **External water dispenser**



ANTI BACTERIA
BPA FREE

- Allow users to get cold water without opening the refrigerator door.
- The 4 L large-capacity Water tank is made of BPA-free, antibacterial material that is safe for health.

■ **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 compartment, the Prime Fresh case, the Freezer compartment and the Prime Freeze case according to the user's intended purpose.
- The Fridge compartment and Freeze compartment 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.
- There is a Remote-controlled mode.

■ **Control the Refrigerator through the smart application "Panasonic SmartApp+"**



- "Panasonic SmartApp+" is a Remote-controlled smart application that makes it easy to adjust the setting status of your refrigerator through wireless LAN connection and operation on the smartphone. (Refer to Page 25)
- To use the refrigerator features conveniently through this application, please refer to Page 41 and refer to the "Panasonic SmartApp+" application manuals posted on the Panasonic website as the link on Page 43 .

Installation

The distance required for installation

5 cm

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



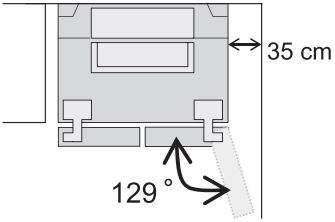
5 cm

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

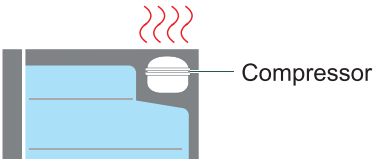
- The back of the refrigerator is at least 5 cm from the wall.

Caution

- In case the refrigerator is placed near 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 35 cm. If this space is less than 35 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 smelt during the first time using the refrigerator. If the smell is a concern, it is recommended to ventilate the room.
- **Do not** place the refrigerator in a humid place as rust may form and may cause electric leakage.
- **Do not** place the refrigerator exposing to direct sunlight as the heat and sunlight will increase the temperature affecting the cooling capacity.
- **Do not** place the refrigerator near heat sources such as cooking stove or oven.
- **Do not** block the openings around the refrigerator.
- The refrigerator must be placed in an area where there is good air circulation.
- If the refrigerator is to be placed on an uneven surface, please adjust the adjuster bolts to ensure that the refrigerator is stable.

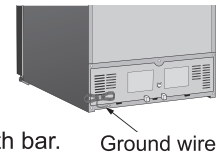
LED lamp and grounding

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

※ **For safety, the ground connection should be done**

(For refrigerators with plug (2-pin plug) and without a ground wire)
The ground connection will allow prevention of danger resulted from electricity leakage.
The ground connection can be performed in 2 ways as follows:

1. In case the power outlet (socket) already has a grounded outlet, connect the ground wire to the screw used for ground connection on the back of the refrigerator (for the screw used for ground connection, please notice the ⏚ 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 ⏚ symbol). Then connect the other end to the earth bar.



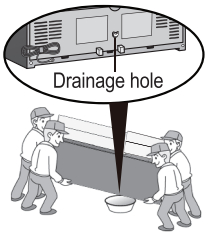
※ **Prohibited spots for ground connection**

- 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 transporting

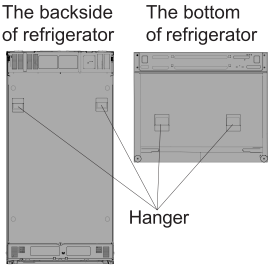
※ **Before moving and transporting**

1. Remove any food items and dispose of any ice cubes or water that remain in the refrigerator.
2. Unplug the refrigerator.
3. Adjust the adjuster bolts (left and right) so that they do not touch the floor.
4. Place a container underneath the drainage hole, then slowly tilt the refrigerator backward to drain water from the drainage hole. This action requires 4 or more people, of which 2 people lift the front of the refrigerator to prevent the refrigerator from sliding and avoiding the risk of accidents.



※ **How to move and transport**

- At least 4 people are required to transport the refrigerator.
- Each person lifts a corner of the refrigerator, 2 people lift the backside of the refrigerator and 2 people lift the bottom of the refrigerator so that their hands are on the hanger positions of the backside and bottom of the refrigerator.
- Do not transport by holding the refrigerator doors.



Caution

- It is recommended to use the hangers when moving and transporting. Do not carry the refrigerator horizontally to avoid the risk of danger due to the heavy weight.
- When transporting, use tape to secure the refrigerator doors and avoid letting the doors open by itself.
- Do not place the refrigerator on its side when transporting, as this may cause damage to the refrigerator.
- After installation, wait at least 4 hours before plugging in the power to ensure that the gas and oil in the compressor are in a stable state.



When the left/ right doors are deviated (or the height is not the same)

Turn the adjuster bolt on the lower side, as shown in Image 1, in order to adjust the level. The Fridge / Freezer 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.

If the Fridge doors are still deviated after adjusting the adjuster bolts as above, continue to use Washers A[*1] as shown in Image 2 to adjust the height of Fridge door.

1. Determine the deviation between Fridge doors.
2. Select Washer A[*1] with appropriate thickness(1 mm, 1.5 mm or 2 mm).
3. Lift and hold the lower Fridge door.
4. Fit a Washer selected in step 2 into the hinge position of the lower Fridge door.
5. Check the balance again between the Fridge doors.

In case Freezer doors are deviated, use Washers B[*2] and apply the same steps as Fridge doors.

[*1] Washer is used for Fridge doors adjustment.
[*2] Washer is used for Freezer doors adjustment.

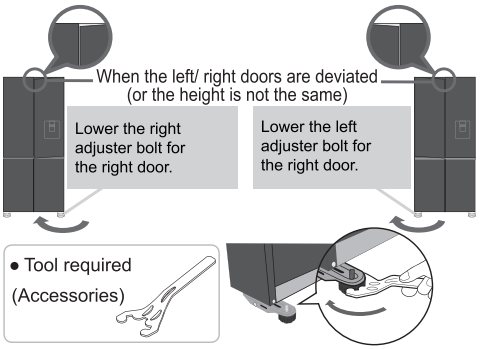


Image 1

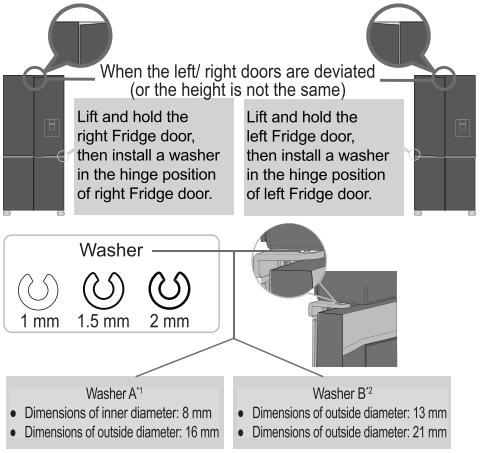


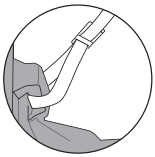
Image 2

Remark

- Use only one Washer for this purpose. Two or more Washers may slip out or make rubbing sound.
- Use the correct Washers for the Fridge / Freezer doors adjustment.
- Do not lift the door too high. The door can touch and damage the top cover.
- Keep Washers out of reach of children.
- Keep the remaining Washers for future use.

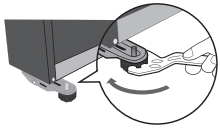
Have any measures been taken against tipping due to earthquakes?

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



Fix the refrigerator.

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



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

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



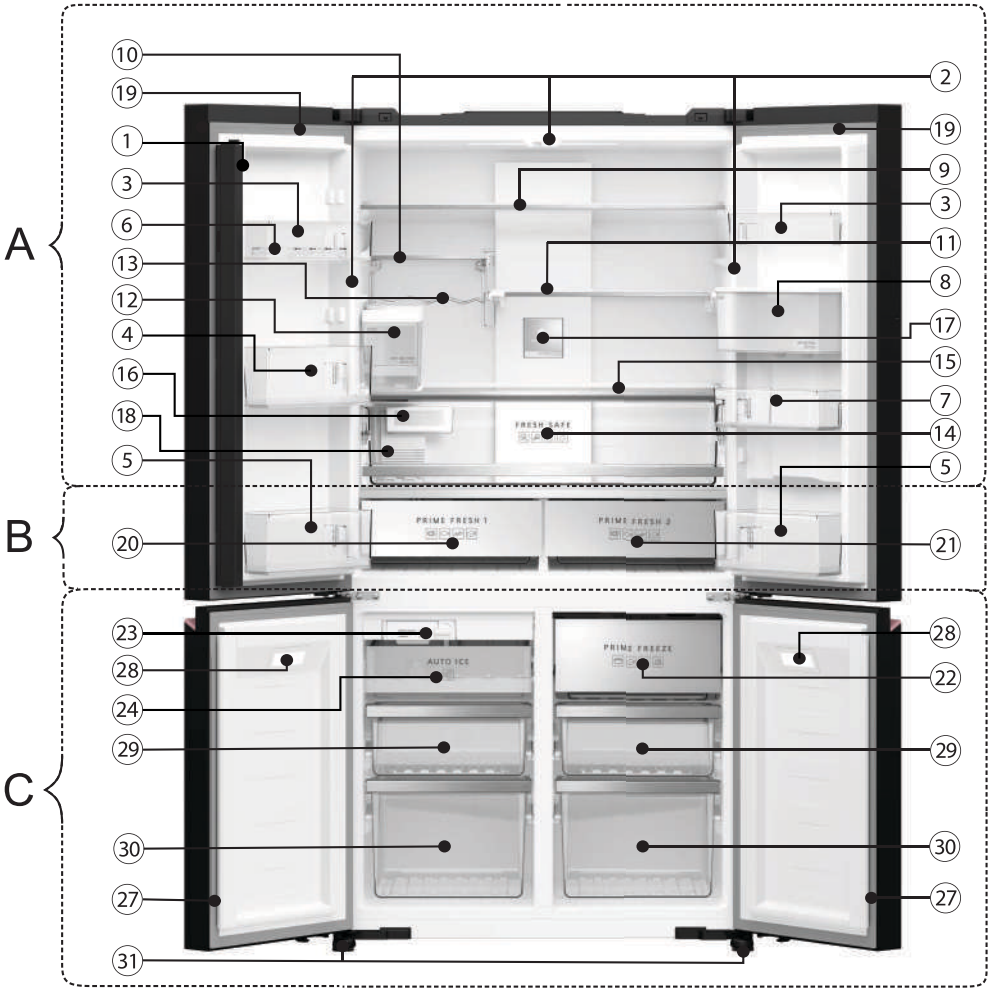
Please wait until the interior has cooled down.

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

Parts Identification

Left door

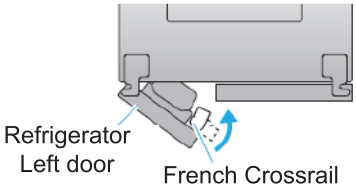
Right door



Parts Identification

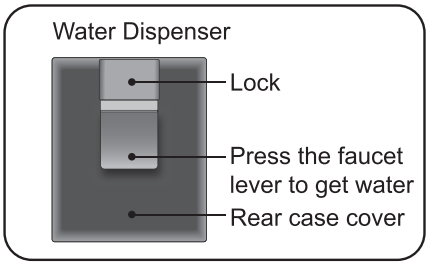
A-Fridge compartment

① French Crossrail
The French Crossrail minimizes the gap between the left door and the right door of the refrigerator. If this French Crossrail is opened forward, put it back into place.
(Otherwise, the refrigerator doors cannot be closed fully, causing the refrigerator to lose cool air.)



② LED of Fridge compartment (Quantity: 3 pcs)
③ Small door shelf (Quantity: 2 pcs)
④ Large door shelf
⑤ Bottle shelf (Quantity: 2 pcs)
⑥ Egg tray
⑦ Utility shelf
⑧ Water tank of Water Dispenser
⑨ Large glass tray of Fridge compartment
⑩ Small glass tray of Fridge compartment
⑪ Slide glass tray
⑫ Water tank of the Auto Ice maker
⑬ Wine rack(*)
⑭ Vegetable case
⑮ Glass tray of Vegetable case
⑯ Moisture control filter for Vegetable case
⑰ nanoe™ X
⑱ nanoe™ X device
⑲ Door gasket of Fridge compartment (Quantity: 2 pcs)

(*)The position of the Wine rack is not fixed and flexible to the purpose of use.
(Refer to Page 27)

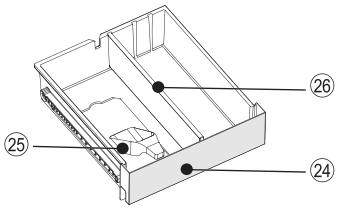


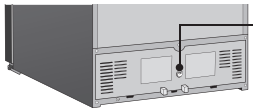
B-Prime Fresh

⑳ Prime Fresh case 1
㉑ Prime Fresh case 2

C-Freezer compartment

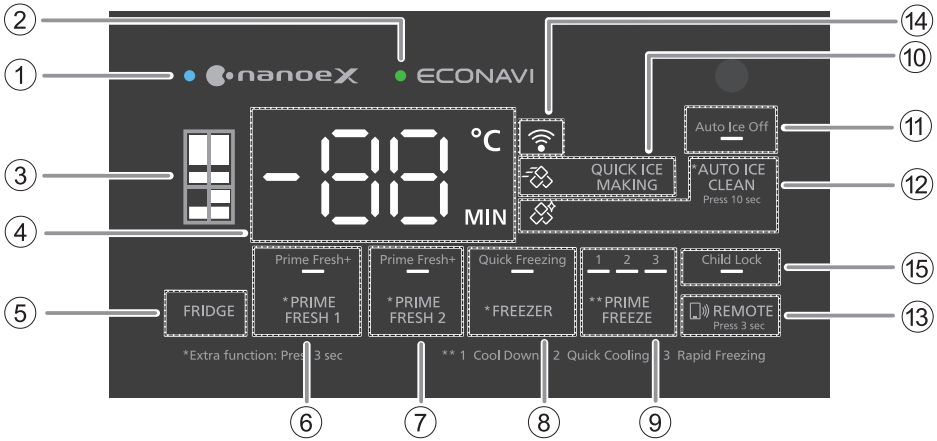
㉒ Prime Freeze case
㉓ Auto Ice maker
㉔ Ice box
㉕ Ice scoop
㉖ Customized divider
㉗ Door gasket of Freezer compartment (Quantity: 2 pcs)
㉘ LED of Freezer case (Quantity: 2 pcs)
㉙ Upper Freezer case (Quantity: 2 pcs)
㉚ Lower Freezer case (Quantity: 2 pcs)
㉛ Adjuster bolts





Product view from behind

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 compartment, Freezer compartment, Prime Fresh case 1, Prime Fresh case 2 and the time for modes of the Prime Freeze.
⑤ Temperature control button of Fridge compartment.
⑥ Temperature control button of Prime Fresh case 1 and LED of Prime Fresh+.
⑦ Temperature control button of Prime Fresh case 2 and LED of Prime Fresh+.
⑧ Temperature control button of Freezer compartment and LED of Quick Freezing.
⑨ Temperature control button and LED for modes of Prime Freeze.
⑩ Control button and LED of Quick Ice Making.
⑪ LED of Auto Ice Off.
⑫ Control button and LED of Auto Ice Clean.
⑬ Control button of wireless LAN connection.
⑭ LED of wireless LAN connection.
⑮ 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 operate 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.

Operation Panel

- 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.
- When cleaning the door surface of refrigerator, lock the Operation Panel by Child Lock mode to prevent unintended adjustment to the button on Operation Panel, please refer to Page 24.
- When connecting to wireless LAN, 3 buttons: “Prime Fresh 2”, “Auto Ice Clean” and “Quick Ice Making” on the Operation Panel will not work. The others “Fridge”, “Prime Fresh 1”, “Freezer”, “Prime Freeze” and “Remote” will work for wireless LAN connection mode. Please complete or cancel the wireless LAN connection mode to use the Operation Panel normally. (Refer to Page 25)

Temperature Control

- Default setting temperature for Fridge compartment is 4 °C, Prime Fresh case 1 and Prime Fresh case 2 is -3 °C and Freezer compartment is -20 °C. The temperature setting for each compartment can be adjusted.
- The temperature setting range of the Fridge compartment is 1 °C ~ 7 °C, the Prime Fresh case is -5 °C ~ 4 °C (the temperature for soft freezing is -5 °C ~ -1 °C, and the temperature to use the Prime Fresh case as the Fridge compartment is 0 °C ~ 4 °C), the Freezer compartment is -23 °C ~ -15 °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 compartment, Prime Fresh case 1, Prime Fresh case 2, and Freezer compartment. The LED lights will indicate selected compartment and temperature when selected.

Icon	Compartment	LED indicates position of the compartment	LED indicates temperature of the compartment
FRIDGE	Fridge compartment		
* PRIME FRESH 1	Prime Fresh case 1		
* PRIME FRESH 2	Prime Fresh case 2		
* FREEZER	Freezer compartment		

Temperature Control

2. Temperature setting

After pressing the icon of compartment (Fridge, Prime Fresh 1, Prime Fresh 2, 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 within temperature setting range of the compartment. If the selection exceeds the compartment temperature range, the Operation Panel will display the temperature return to the lowest level in the above range.

3. Complete temperature setting

After completing the temperature setting, press another button to finish or wait for 5 seconds, the Operation Panel will save the setting that you have just made.

■ **How to operate "Fine Adjustment" mode**

This refrigerator is specially designed for specific purposes, which can adjust the temperature to 13 levels for the Fridge compartment and 17 levels for the Freezer compartment, details are as follows:

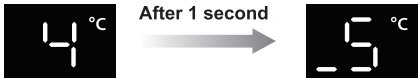
To adjust the temperature of the Fridge compartment

1. Press the [FRIDGE] button to start the process.
2. Continue to press the [FRIDGE] button to set the temperature to 7 °C.
3. To operate "Fine Adjustment" mode, press and hold the [FRIDGE] button for 10 seconds or until a notification sound is heard.
4. The temperature can be adjusted to 13 different levels by pressing the [FRIDGE] button. With each push of the button, the temperature will increase by 0.5 °C within temperature setting range of the Fridge compartment. If the selection exceeds the Fridge compartment temperature range, the Operation Panel will display the temperature return to the lowest level in the above range.

LED Display table

Cooling level / Step	Minimum → Maximum												
	1	2	3	4	5	6	7	8	9	10	11	12	13
LED Display	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0

The setting value will be displayed in 2 steps, from integer part to decimal part respectively.
For example: Display of the set temperature 4.5 °C.
First, the Operation Panel displays the integer part as 4 °C, and change to display decimal part as _5 °C after 1 second.



This process will repeat until the screen turns off or touches another button.

To reset the setting "Fine Adjustment" mode of the Fridge compartment
Repeat steps 1 ~ 3 to return the Fridge compartment to normal operating mode.

Temperature Control

To adjust the temperature of the Freezer compartment

1. Press the [FREEZER] button to start the process.
2. Continue to press the [FREEZER] button to set the temperature to -15 °C.
3. To operate “Fine Adjustment” mode, press and hold the [FREEZER] button for 10 seconds or until a notification sound is heard.
4. The temperature can be adjusted to 17 different levels by pressing the [FREEZER] button. With each push of the button, the temperature will increase by 0.5 °C within temperature setting range of the Freezer compartment. If the selection exceeds the Freezer compartment temperature range, the Operation Panel will display the temperature return to the lowest level in the above range.

LED Display table

Cooling level / Level	Minimum → Maximum																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
LED Display	-23.0	-22.5	-22.0	-21.5	-21.0	-20.5	-20.0	-19.5	-19.0	-18.5	-18.0	-17.5	-17.0	-16.5	-16.0	-15.5	-15.0

The setting value will be displayed in 2 steps, from integer part to decimal part respectively.
For example: Display of the set temperature -20.5 °C.
First, the Operation Panel displays the integer part as -20 °C, and change to display decimal part as _5 °C after 1 second.



This process will repeat until the screen turns off or touches another button.

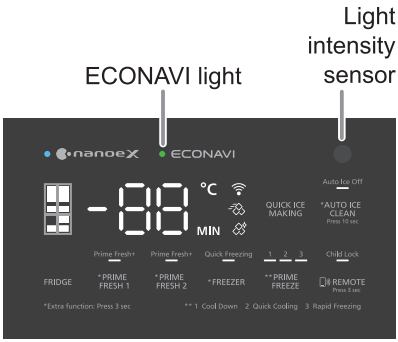
To reset the setting “Fine Adjustment” mode of the Freezer compartment
Repeat steps 1 ~ 3 to return the Freezer compartment to normal operating mode.

Remark

- Prime Fresh case do not have “Fine Adjustment” mode.
- The “Fine Adjustment” mode can not be set through the “Panasonic SmartApp+” application.
  When “Fine Adjustment” mode is being set, the temperature displayed on the “Panasonic SmartApp+” application will always be the average temperature (Fridge compartment is 4 °C; Freezer compartment is -20 °C) and if “Panasonic SmartApp+” is used to adjust the temperature of the Fridge compartment or Freezer compartment, the “Fine Adjustment” mode will exit and return to normal operation.
- ECONAVI Operation will not work when “Fine Adjustment” mode is being set.

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.(*)



■ 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 compartment and the Freezer compartment is set to 4 °C and -20 °C, respectively.
- ECONAVI Operation does not operate if the “Quick Freezing”, “Prime Freeze” or “Quick Ice Making” mode is in operation.
- It is not possible to force start the ECONAVI mode.

Remark

(*) 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.

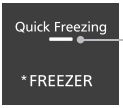
nanoe™ X

- 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 compartment is reduced (such as when storing a few of vegetables, or tubers).
- The nanoe™ X device may cause a small sound during operation.
- After the doors have been closed a long time, when open the doors of the refrigerator, it is possible to smell the odor of ozone generated during nanoe™ X 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.

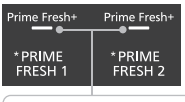
Remark

- 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 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 compartment 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 case 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 and hold the “Prime Fresh 1” or “Prime Fresh 2” icon for 3 seconds to start Prime Fresh+. Then, the light below the “Prime Fresh+” icon will turn on.
- If you want to stop the Prime Fresh+ immediately, press and hold the “Prime Fresh 1” or “Prime Fresh 2” icon for 3 seconds 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 LED [Prime Fresh+] turns off.)
- The flashing 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 case 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 case is being set at 0 °C ~ 4 °C.

Prime Freeze

Prime Freeze is a separate area located inside the Freezer compartment. 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			

(*) 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.

(**) 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. If you continue to press the icon of the Prime Freeze compartment, the LED indicating the compartment position will flash. After this step, if the previous setting has 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 displays the operating time in each respective mode.

3. Complete the setting
   After completing the temperature setting, press any other button to finish or wait for 5 seconds, the Operation Panel will save the setting that you have just made.

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 compartment 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	• Rice (150 g) • Potato salad (150 g)	- 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 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.
			5	• 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	• 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 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	• 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	• 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)	- 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	• 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 compartment may be frosted. If you are worried, 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 Fresh 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, Quick Freezing, Prime Fresh+ are 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 compartment.
  - Small foods can be stored for easier finding.
  - The temperature in this room may be higher than the temperature in the entire Freezer compartment. For long-term preservation, please transfer food to the Freezer compartment.

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.

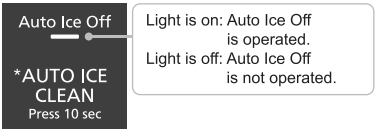
Remark

- 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**

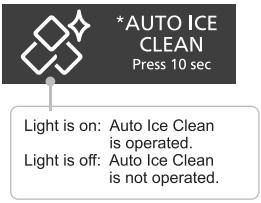


- Press and hold the “Auto Ice Clean” icon for 3 seconds to start the Auto Ice Off. Then, the LED below the Auto Ice Off icon will turn on.
- When you want to turn off the Auto Ice Off and restart to make ice automatically, press the “Auto Ice Clean” icon for 3 seconds. Then, the LED of the Auto Ice Off will turn off.

Note

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

■ **How to operate the Auto Ice Clean mode**



- Press and hold the “Auto Ice Clean” icon for 10 seconds to enable the Auto Ice Clean mode. At that time, the LED of Auto Ice Clean will turn on.
- At the end of the Auto Ice Clean process, the refrigerator will make a notification sound.

Remark

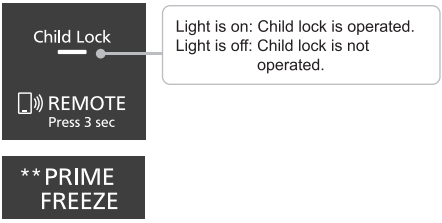
- When Auto Ice Clean is operating, it cannot be stopped / disabled midway and other modes cannot be controlled by “Panasonic SmartApp+” application.

For details on the cleaning operation of Auto Ice maker, please refer to Page 32.

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**



- Press “Remote” icon and “Prime Freeze” icon at the same time for 3 seconds to start the Child Lock mode. Then, the light below “Child Lock” icon will turn on.
- When you want to stop the Child Lock mode, press “Remote” icon and “Prime Freeze” icon at the same time for 3 seconds. Then the light below the “Child Lock” icon will turn off.

Wireless LAN

■ Wireless LAN connection mode

Wireless LAN connection mode will connect the refrigerator to a wireless LAN router. The user connects the refrigerator to wireless LAN router by using wireless LAN connection mode. It is used for the first time buying the refrigerator, or changing the refrigerator circuit board, or changing the wireless LAN router information (network name, password), or changing the owner of the refrigerator.



Flashing light: Wireless LAN connection is in progress.
Lights on: Wireless LAN connected successfully.
Lights off: Wireless LAN connection mode does not work.

- Press and hold the “Remote” icon for 3 seconds to start the wireless LAN connection mode. When the wireless LAN connection mode is active, the LED of wireless LAN connection mode will flash. After successfully completing the connection process, the LED of wireless LAN connection mode will turn on.
- When you want to cancel the wireless LAN connection mode, press and hold the “Remote” icon for 3 seconds. At that time, the LED of wireless LAN connection mode will flash.

■ Power setting of wireless LAN module



- When the power of the wireless LAN module is off, press and hold the “Remote” and “Freezer” icons at the same time for 3 seconds to turn on the power of the wireless LAN module. “on” is shown for 5 seconds on the Operation Panel. Then, the power of the wireless LAN module is turned on.
- When the power of the wireless LAN module is on, press and hold the “Remote” and “Freezer” icons at the same time for 3 seconds to turn off the power of the wireless LAN module. “oF” is shown for 5 seconds on the Operation Panel. Then, the power of the wireless LAN module is turned off.

Remark

- When the wireless LAN connection mode is enabled, the wireless LAN module is automatically powered on by the refrigerator. At that time, the refrigerator will be connected to the network.
- If you do not use the wireless LAN connection, please turn off the power of the wireless LAN module in order to save power and avoid unexpected settings from another mobile device.
- If you change to the wireless LAN router information, the following steps should be taken:
  - Delete the router information that was previously stored on the refrigerator by:
    1. Press and hold the “Remote” icon for 3 seconds, then the Operation Panel displayes “C2”.
    2. Press and hold the “Freezer” and “Prime Freeze” icons at the same time for 3 seconds, the refrigerator emits a notification sound, and the Operation Panel displays “In”.
    3. The information will be deleted when the Operation Panel no longer displays “In” and the light LED of wireless LAN flashes.
  - Reconnect to router using wireless LAN connection mode. Then, open the “Panasonic SmartApp+” application on your mobile phone and follow the instructions on the application.

Wireless LAN

■ **The LED operation of Wireless LAN**

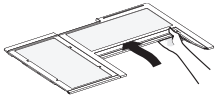
- When the wireless LAN module is powered off, the LED of wireless LAN is turned off.
- When the wireless LAN module is on and the wireless LAN is connected, the LED of wireless LAN is turned on.
- When the wireless LAN module is powered on and the wireless LAN is not connected, the LED of wireless LAN flashes once every 0.5 seconds.
- When the wireless LAN module turns on and the communication with the wireless LAN module fails, the LED of wireless LAN flashes once every 0.1 seconds.
- After restarting the wireless LAN module, the LED of wireless LAN flashes to find and reconnect with the previously saved wireless LAN network.

Fridge compartment

The temperature range of the Fridge compartment is 1 °C ~ 7 °C
If the temperature of the Fridge compartment 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 items with out needing to store lying down.
The position of the Slide glass tray can be changed to place more items depending on the purpose of use.





Please refer to Page 35 for how to remove the Slide glass tray.

Vegetable case

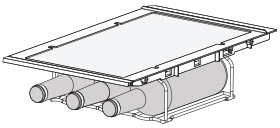
The Vegetable case is equipped with a large-capacitor and the guide rail with a maximum opening angle, making it easier to take out food and increasing its load-bearing capacity, allowing the user to gently pull the case out with just one hand. The Moisture control filter will control the humidity inside the vegetable case, helping the vegetables retain moisture and stay fresh.

Note

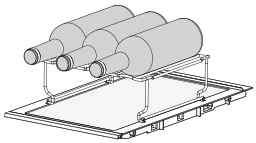
- Due to high humidity, water drops may appear on the vegetable case. Wipe droplets off with a soft cloth.
- Do not place food higher than the height of the vegetable case to avoid the risk that the vegetable case does not close completely, causing frost and damaging vegetables and fruits.

How to use the Wine rack

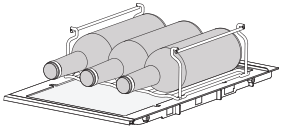
The Wine rack can be flexibly placed in different positions in 3 ways:



Hang the Wine rack under the Small glass tray of Fridge compartment



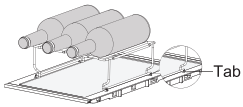
Put the Wine rack on the Small glass tray of Fridge compartment

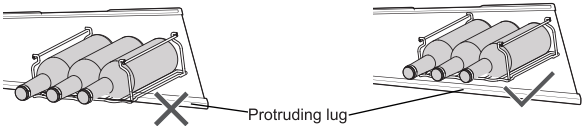


Put the Wine rack on the surface of glass trays of Fridge compartment

Caution

- Secure the pins of the Wine rack to the tabs of the Small glass tray of Fridge compartment.
- Make sure the Wine rack does not extend pass the protruding lug of the glass trays, to avoid movement when opening / closing the refrigerator door.





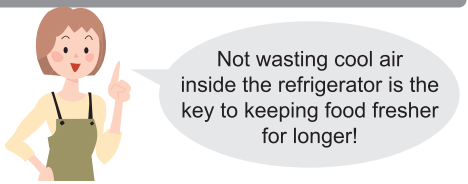
- Noise may occur when the Wine rack is moved on the glass trays of the refrigerator. This is a normal phenomenon.

How to remove the Wine rack, please refer to Page 38.

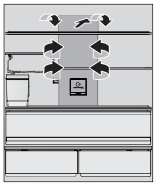
Tips for food preservation

■ Do not stuff 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.



■ Do not block the cool air outlet with food items



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

Therefore, food should not be placed in front of the cooling air vents* and block the air circulation.

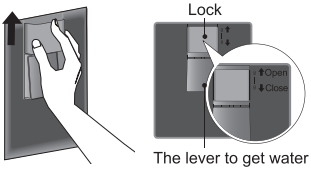
*The cooling air vents are located on the duct inside the Fridge compartment.

Fridge compartment

How to use the Water Dispenser

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

■ How to get 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.

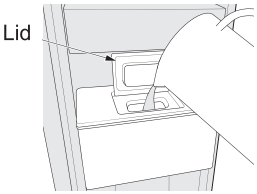
Attention

- 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 no need to lock the Water Dispenser, skip this step.



■ How to use Water tank

1. Open the lid and pour water into the Water tank of Water Dispenser.
2. Close the lid 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 4 liters of water.
  Do not pour water above the 4 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 compartment 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.

Prime Fresh case

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

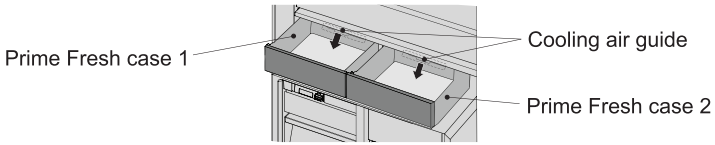
- The temperature for soft freeze is -5 °C ~ -1 °C.
- The temperature to use the Prime Fresh case as the Fridge compartment is 0 °C ~ 4 °C.

When using the refrigerator with 2 independent Prime Fresh cases, the temperature can be adjusted according to your usage.
The default temperature setting of Prime Fresh case is -3 °C.

Using Prime Fresh case — Approx. -5 °C ~ -1 °C



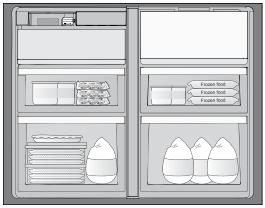
- This compartment is suitable for storing fresh food, such as meat or fish. Compared to storing in the Fridge compartment, the storage life of meat or fish is extended.
- The preservation of food with 2 independent Prime Fresh cases helps to reduce the influence of odors and flavors of different foods, by adjusting the appropriate mode for each type of food, such as raw food for Prime Fresh case 1, and cooked food for Prime Fresh case 2.
- When food is too frozen.
  Sliced raw fish or meat may be too frozen. 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 large block of meat or a large fish, or the food fullness of the case, the storage conditions, and the ambient temperature, food may not be partially frozen as it intended. If this is the case, then set to the lowest temperature of -5 °C.
- To reduce the effect of food being over-frozen or not freezing as desired, you can put the similar sized foods in the same Prime Fresh case and adjust the temperature accordingly.
- Do not overstock the case with too many food items. When there are too many food items and there is no space for cool air circulation inside the refrigerator, the cooling capacity will be affected. Provide sufficient space between foods inside Prime Fresh case.
- When storing food in large amounts, 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 case to optimize the cooling performance.
- When the temperature of the Prime Fresh case is set at 0 °C ~ 4 °C, the Prime Fresh+ mode will not operate in order to prevent food spoilage.
- When opening the Prime Fresh case 2 for food storage, please open both doors of the Fridge compartment. When only the right Fridge compartment door is opened, the Prime Fresh case 2 cannot be pulled out.
- Do not block the cool air outlet with food items inside the Prime Fresh case.
  If the cool air does not spread into every corner of Prime Fresh case, 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 1 and Prime Fresh case 2) to prevent blocking the air circulation inside the compartment.



Freezer compartment

Storing frozen food, cooked meals and freezing food by Prime Freeze case.

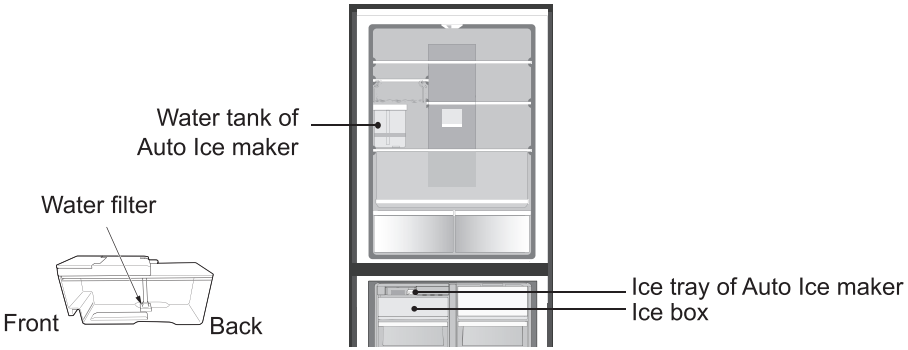
The temperature range of the Freezer compartment is -23 °C to -15 °C



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.

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



Drinking water

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



Juice, etc.



Sports drinks



Carbonated beverages



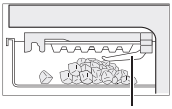
Hot water

Tips

- The hardness of water must be 100 mg/L or less. The minerals may appear as white floating particles. They are not harmful.
- When using the Auto Ice maker for the first time, odor or dust may be on the Ice tray, etc. Please throw away the first lot of ice.
- Remember to regularly use the Auto Ice Clean function of the Auto Ice maker. (Page 24)

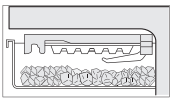
Attention

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

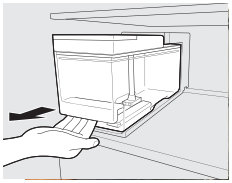
- Do not pour water directly into the Ice box to make ice. (Otherwise, the Ice box may be broken).
- Do not put food or other things into the Ice box. (Otherwise, the amount of ice cannot be correctly detected and Auto Ice making may be stopped or the Ice box cannot be pulled out.)

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

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

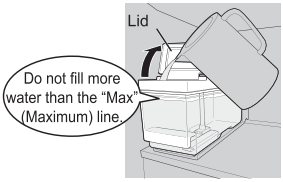
How to use Water tank of Auto Ice maker(*)

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 compartment is 4 °C, Prime Fresh case 1 and Prime Fresh case 2 is -3 °C, and Freezer compartment 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 compartment, the Prime Fresh case 1 and Prime Fresh case 2, and the Freezer compartment are 4 °C, -3 °C -3 °C and -20 °C, respectively.

Freezer compartment

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 24).
   - 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 compartment, throw away the water in the Ice box and wipe the water off.
   If you do not clean all water on the Ice box, the Ice box may be broken.

How to turn off Auto Ice maker

You can enable/disable the Auto Ice 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 24).
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 24).

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

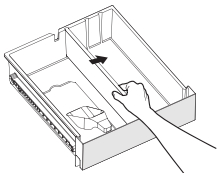
1. Empty the Water tank and remove all ice cubes from the Ice box.
2. Clean the Water tank, Water filter, Water tank seal rubber and Ice box; dry and put them back to their place.
3. When using again, please refill the Water tank and put it back.

■ 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.

Use a Customized divider to increase ice storage space, and match your ice storage needs.

- Manually lift the Customized divider off the track, and move it to another desired position.
- Use the Ice scoop when removing ice from the Ice box.



How to clean the Refrigerator

Before cleaning or conducting maintenance, please ensure that the power plug has been disconnected 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.



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.

Rub the door surface with a soft damp cloth.



Point where lubricated gel was applied



Note

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

Request

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



Kitchen detergents (They crack plastic!)



Cleanser or soap powder



Benzine, thinner, alcohol, acid, petroleum



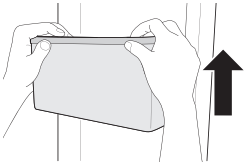
Scrubber



Hot Water

How to clean the Refrigerator

Door shelf / Bottle shelf — Once every 3 months



■ **Removing**

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

■ **Attaching**

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

Tray — Once every 3 months

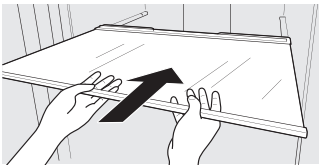
■ **Removing**

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**

Push the tray until it reaches the end lock.



Remark

- To easily take out the glass trays 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 made of glass are heavy.
  Please handle them with care so that they do not fall and cause any damage or injury.
  For attaching trays, hold them with the protrusion side down and firmly insert.

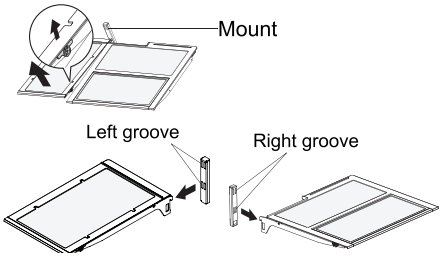
Slide glass tray

Once every 3 months

If the position of the Slide glass tray is in line with the Small glass tray of Fridge compartment:

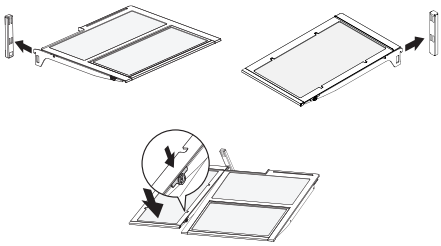
■ Removing

1. Separate the joint between the Slide glass tray from the Small glass tray of Fridge compartment.
2. Lift up the underside of the Small glass tray of Fridge and pull it out from the left groove of the mount to the front. Once the protrusions are unhooked from the rails, tilt the tray and remove it.
3. Lift up the underside of the Slide glass tray and pull it out from the right groove of the mount to the front. Once the protrusions are unhooked from the rails, tilt the tray and remove it.



■ Attaching

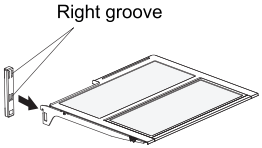
1. Lift up the underside of the Slide glass tray and push into the right groove of the mount.
2. Lift up the underside of the Small glass tray of Fridge compartment and push into the left groove of the mount.
3. Fix the joint between the Slide glass tray and the Small glass tray of Fridge compartment.



If the position of the Slide glass tray is not in line with the Small glass tray of Fridge compartment:

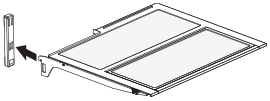
■ Removing

Lift up the underside of the Slide glass tray and pull it out from the right groove of the mount to the front. Once the protrusions are unhooked from the rails, tilt the tray and remove it.



■ Attaching

Lift up the underside of the Slide glass tray and push into the right groove of the mount.



Remark

- To easily take out the glass trays from the refrigerator, please remove Door shelves and Bottle shelves first.
- Trays made of glass are heavy.
  Please handle them with care so that they do not fall and cause any damage or injury.
  For attaching trays, hold them with the protrusion side down and firmly insert them.

How to clean the Refrigerator

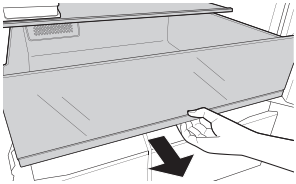
Vegetable case / Freezer cases — Once every 3 months

※ **Vegetable case**



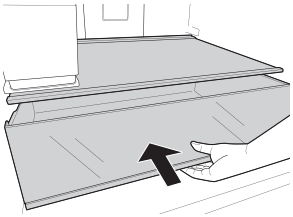
■ **Removing**

1. Fully open both doors of the Fridge compartment.
2. Remove the Large door shelf ④ and Utility shelf ⑦ (According to Parts Identification in Page 13, 14) 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 into the shelf.
2. Gently lift the case and push forward until it reaches the end.
3. Install Large door shelf ④ and Utility shelf ⑦ into.

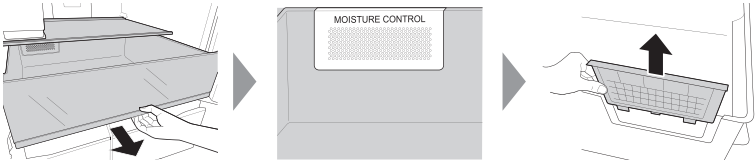


※ **Freezer cases**

Skip the steps of removing and installing the Large door shelf ④ and Utility 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.



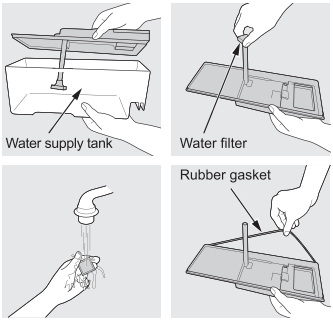
Remark

- 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.

How to clean the Refrigerator

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

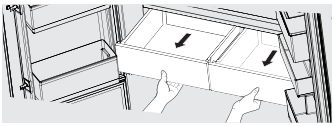
- If there is water deposits or pipe blockages in the Water filter, ice may not be made properly.

Prime Fresh case — Once every 3 months



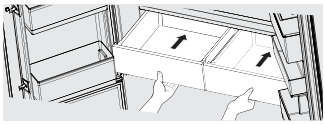
■ Removing

1. Fully open both doors of the Fridge compartment.
2. Remove the Bottle shelf ⑤ (According to Parts identification in Page 13, 14) before removing the Prime Fresh 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. Put the case into the shelf.
2. Gently lift the case and push forward until it reaches the end.
3. Install the Bottle shelf ⑤ into.

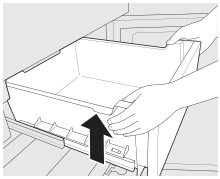


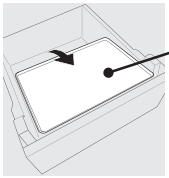
How to clean the Refrigerator

Prime Freeze case — Once every 3 months

■ **Removing**

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





Aluminum heat transfer plate
(Note that the aluminum plate can be easily scratched and damaged)

■ **Attaching**

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

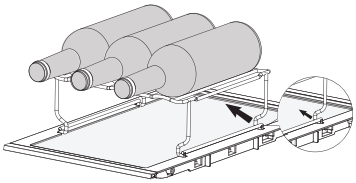
- The aluminum heat transfer plate can be removed; however, remember not to hold it with wet hands when the aluminum plate is cold, as there may be a risk of frostbite.
- When removing or installing the case, be sure to grasp the tray handle with your outstretched hand. Otherwise, the compartment door 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 Panasonic service center.

Wine rack — Once every 3 months

Adjusting the position of the Wine rack on the Small glass tray of Fridge compartment and hanging the Wine rack under the Small glass tray of Fridge compartment:

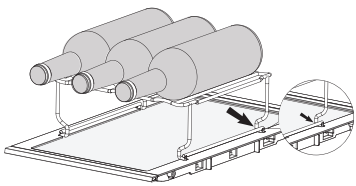
■ **Removing**

1. Remove the Wine rack pins from the tabs on the Small glass tray of Fridge compartment.
2. Pull out the Wine rack.



■ **Attaching**

1. Put the Wine rack at position to be mounted.
2. Adjust the pins of the Wine rack to the tabs on the Small glass tray of Fridge compartment.

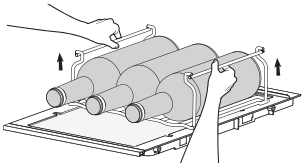


Wine rack — Once every 3 months

Adjusting the position of the Wine rack on the surface of the glass trays of Fridge compartment:

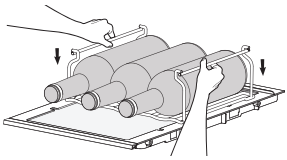
■ **Removing**

Lift the Wine rack out of the glass trays of the Fridge compartment.



■ **Attaching**

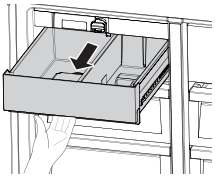
Put the Wine rack on the glass trays of Fridge compartment, so that the Wine rack does not leave the protruding lugs on glass trays of Fridge compartment.



Ice box — Once every 3 months

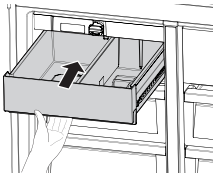
■ **Removing**

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



■ **Attaching**

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



Remark

- Stop the Auto Ice making function before cleaning the Ice box (Page 24).
- Remove the Customized divider and Ice scoop. Clean them with water, wipe or let them dry before attaching and returning to the Ice box.

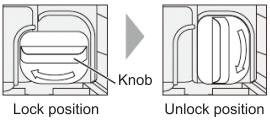
Ice tray — Once every 3 months

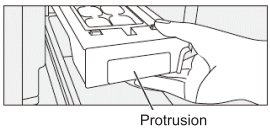
The Ice tray can be cleaned by using the Auto Ice Clean function (Page 24). In addition, the Ice tray can be removed and cleaned manually.

How to clean the Ice tray manually.

■ **Remove and clean the Ice tray**

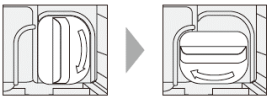
1. Choose the Auto Ice Off mode (Page 24).
2. Turn the knob on the Auto Ice maker to the unlocked position.
3. Pull the protruding side forward to remove the Ice tray.
4. Clean it with water. (Do not use sharp scouring pads to scrub the surface of Ice tray. If the Ice tray is scratched, ice may not be 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.
3. Disable the Auto Ice Off mode (Page 24) to restart the Auto Ice making.

How to clean the Refrigerator

Ice tray — Once every 3 months

Remark

- Ice will not be made automatically when the Auto Ice Off mode is turned on.
- Do not pour water directly into the Ice tray after manual cleaning. (That may cause ice cubes sticking together or a malfunction.)
- Turning the knob into the locked position after cleaning and checking the lock position of the Ice tray regularly is essential to ensure that the Auto Ice maker is working properly. If the knob is unlocked, the Auto Ice maker may not work.

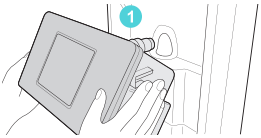
Water tank/ Water filter (of Water dispenser) — Weekly

■ Removing

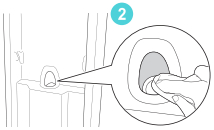
Pull up the Water tank with both hands and tilt it slightly towards you.

■ Attaching

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



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

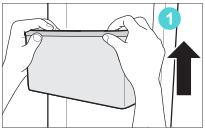


Remark

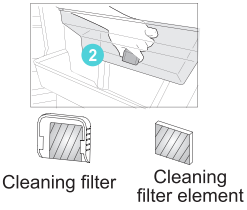
- When removing the Water tank for cleaning, if the rubber seal is inserted reversely due to friction with the faucet, use your hand to push the seal reversely to its original position.
- The valve in the Water tank can be removed by turning it counterclockwise.

■ 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.



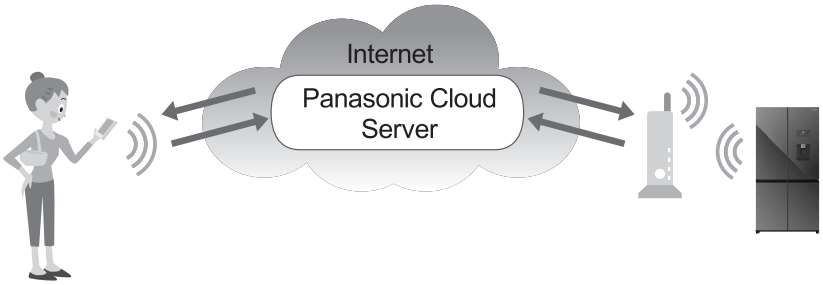
Remark

- The hygiene filter is recommended to be replaced every 3 years.
- The hygiene filter can be purchased at all authorized Panasonic service center.

Panasonic SmartApp+

Features of the Panasonic SmartApp+

More convenience with your smartphone.
You can use the refrigerator through the “Panasonic SmartApp+”.



■ Remote control

Refrigerator modes can be controlled anytime, anywhere if connected to a wireless LAN network.

■ AI feature

AI ECONAVI will work better efficiency by detecting your location.

- Leaving home mode
  If you are far away from the registered home location, AI ECONAVI will detect your location by GPS and switch the operation mode to energy saving mode.
- Shopping mode
  If you shop at registered shopping locations, AI ECONAVI detects your location using GPS, after you confirm to active Shopping mode on the “Panasonic SmartApp+”. application, refrigerator will start to increase the cooling level to prepare for food storage.

■ Monitoring through notifications

When the refrigerator encounters problems or other warnings appear, the notification will be displayed on your phone to help you promptly solve the problem and use the refrigerator more efficiently.

Panasonic SmartApp+

Required Equipment and Environment

Let's check the required Equipment and Environment to use the app.

■ Android or iOS (iPhone) smartphone

● About supported OS
https://www.panasonic.com/fiot/fridge/



■ Internet environment
Example) FTTH (optical fiber), ADSL, CATV (cable television), etc. Internet communication fee will be charged by you.



■ Wireless LAN router
Use a wireless LAN router to connect to the internet.



Remark

- Make sure that the wireless LAN router has a communication standard of 2.4 GHz band. (Communication standards: IEEE802.11b, IEEE802.11g, IEEE802.11n) Other than the above cannot be used.
- Models that only support WEP cannot be used.
- As a security measure, be sure to use a wireless LAN router that can set the encryption method WPA3, WPA2, or WPA.
- We recommend WPA3 and WPA2 (AES) as the encryption method.
- We do not guarantee the operation of all wireless LAN routers. (Mobile router is not guaranteed to work.)
- The refrigerator cannot connect to the router without password authentication.
- The refrigerator should not be connected to public wireless LAN network.
- The surrounding environment can affect the performance of the wireless network causing the remote control to not work properly.
- When connecting for the first time, you must make sure that the mobile phone and the refrigerator are connected to the same wireless network, otherwise the connection will not be successful.
- After the wireless LAN router changes its name or password, the refrigerator needs to be reconnected.
- Personal information related to customer activities such as Email, GPS signal,... is saved. To view details about the information stored, please open the “Panasonic SmartApp+” application, select “Menu”, then select “Terms of Use”.

Required Equipment and Environment

- If the circuit board is replaced in the refrigerator, after repaired completely, the connection will need to be redone.
- When you destroy or transfer the refrigerator, please delete the registered user information as below:
  - On the “Panasonic SmartApp+” application:
    Open the “Panasonic SmartApp+” application, select “Menu”, then select “Withdraw from service” and select “OK”.
  - On the Operation Panel:
    1. Press and hold “Remote” icon for 3 seconds, then the Operation Panel displays “C2”.
    2. Press and hold “Freezer” icon and “Prime Freeze” icon for 3 seconds at the same time, refrigerator generates the notice sound and the Operation Panel displays “In”.
    3. The connection will be deleted when the Operation Panel no longer displays “In” and LED light of wireless LAN flashes.

Initial Settings

1 Install the “Panasonic SmartApp+” (free)

- You can find the link to download the application from “Panasonic Website”.
  https://www.panasonic.com/fiot/fridge/
  or the QR code as below:

- Alternatively, you can search for the “Panasonic SmartApp+” application on Google Play (Android) or App Store (iOS).
- You can check the Operating Instruction of “Panasonic SmartApp+” application directly from the application or find the link to download the Operating Instruction of “Panasonic SmartApp+” application from “Panasonic Website”.
  https://www.panasonic.com/ph/consumer/refrigerator-learn/tips/smart-connectivity/oi.html
  or the QR code as below:

2 Follow instructions displayed on the screen of the app and register the refrigerator.

- Setup position of the refrigerator where you can check the display on the refrigerator door.

Use the app

Panasonic SmartApp+

Using the “Panasonic SmartApp+”

After initial setting is completed, you can use the application.
Please find the link https://www.panasonic.com/fiot/fridge/ to check the update status of “Panasonic SmartApp+” application.
To check the communication status with the LED on Operation Panel:

	Light up	Communicatable (Connected)
	Blinking	Trying to communicate (Connecting to server)
	Off	Not connected

■ LED position (Page 15)

Usage for wireless LAN/Bluetooth®

■ Usage restrictions

Please note that there are the following restrictions while using. Panasonic is not liable for any incidental damages resulting from the failure to comply with the restrictions and the use or inability to use the machine.

- Do not connect to a wireless network that you do not have permission to use.
  A wireless network (SSID(*)) that you are not authorized to use may be displayed during detection, but if you connect it may be considered unauthorized access.
- Do not use in a place where magnetic field, static electricity, or radio interference is generated.
  If you use the application near the following devices, communication may be interrupted or the speed may slow down.
  - Microwave oven
  - Other wireless LAN / Bluetooth® devices
  - Other devices that use radio waves in the 2.4 GHz band (digital cordless phones, wireless audio devices, game consoles, PC peripherals, etc.)
  - Metal objects that easily reflect radio waves

(*) A name used to identify a specific network on a wireless LAN. If this SSID matches on both devices, communication is possible.

■ Security measures

- Since the wireless LAN uses radio waves to send and receive data, there is a risk of unauthorized access. Take security measures to ensure the safety of your data. Please note that we are not responsible for any problems that occur when not following the security measures.
- For the password (encryption key) of the wireless LAN router, refer to the instruction manual of the wireless LAN router and set it in consideration of security.

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 the main fuse and electrical system of the house.
- Unplug the unit and wait for 7 minutes before plugging it back in.

The refrigerator does not cool enough.

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

Dew, frost appears.

Outside

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



Inside

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

The inside is smelling.

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

Light does not turn on.

- Please contact Panasonic service center.

Troubleshooting

The back and sides of the refrigerator are warm and hot.

- Because the refrigerator is equipped with the dew prevention and heat radiation tubes, the back and sides of the refrigerator get warmer when operating.
- The back and side plates may get warmer especially when starting up or if the door is frequently opened and closed.

The normal sounds of refrigerator.

- When the refrigerator starts operation, the sound like water flowing and boiling water is created. This is the sound of the cooling liquid.
- The noise is generated when the automatic defrost system operates.
- The dilatation of the details inside the refrigerator in the cooling process can cause sound “crack-crack”.
- You may feel that the operation sound is 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.

The Operation Panel flashes.

- Are you adjusting the temperature of your refrigerator?
  → Flashes during adjusting. Please complete the setting and the Operation Panel will stop flashing after 5 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 compartment and/or -3 °C for the Prime Fresh case?
  → Adjust to a higher temperature.
- Do you put food in Prime Fresh case?

Error display on Operation Panel.

- The letter “H” and two digits are displayed on Operation Panel.
  For example: H01
  → Please contact the Panasonic service center for support.

- U10: Warning if doors are opened too long.
  → Check that the doors are closed properly.

- U83: The refrigerator does not connect to the wireless LAN router. Check the following:
  - The router is not turned on.
    →Power on.
  - The distance between the router and the refrigerator is too far.
    →Place the router close to the refrigerator.
  - A device that uses radio waves is used nearby, such as a microwave oven.

  →Keep an appropriate distance.
  →Stop using the device or wait for a while and try again.

Troubleshooting

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 24)
- 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 compartment set to a higher temperature than -20 °C?
  → Adjust to a lower temperature. (Page 16)

Unusual shape of ice cubes.

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

Prime Fresh case 1 and Prime Fresh case 2

Food is over-frozen or not frozen.

- When the food in Prime Fresh case 1 or Prime Fresh case 2 is over-frozen.
  → Please set to a higher temperature than -3 °C.
- When the food in Prime Fresh case 1 or Prime Fresh case 2 is not partially frozen.
  → Set the temperature to as low as -5 °C.

Not cool, not freezing.

- Cooling or freezing may not be sufficient depending on the type of food, packaging condition, storage capacity, and how often the door is opened and closed.
  → Create space between foods for cold air circulation, arrange similar sized food in a Prime Fresh case and adjust the temperature accordingly.

Not fully sealed.

- When there is too much food, it may overflow from Prime Fresh case 1 or Prime Fresh case 2 and enter the gap behind Prime Fresh case 1 or Prime Fresh case 2, causing it not to be fully sealed.
  → Check the back of Prime Fresh case 1 or Prime Fresh case 2 contains food items? If so, remove them before attaching Prime Fresh case 1 or Prime Fresh case 2.
  → Arrange food properly to avoid overflowing.

Troubleshooting

The ECONAVI light does not come on normally.

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

- Are Quick Freezing, Quick Ice Making, Prime Freeze case active?
- When the temperature is not set at 4 °C for the Fridge compartment and -20 °C for the Freezer compartment, 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 not active until the learning function can 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.

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.
- 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 21)

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 Freezing, Prime Fresh+ are set during the operation of Prime Freeze, Prime Freeze will be stopped.

Troubleshooting

"Panasonic SmartApp+" application	Smartphone cannot be connected.	● Please refer Required Equipment and Environment section. (Page 42)
	Forget password	● From login screen, select "If you forgot your password, click here", then set your password again.
	Cannot connect to refrigerator	● Is the wireless LAN router turned off? ● The connection is not stable, please put the wireless LAN router near the refrigerator.
	Cannot open the application	● Is your smartphone connected to Internet?
The LED of wireless LAN on the Operation Panel.	The LED of wireless LAN on the Operation Panel flashes.	● The LED of wireless LAN flashes every 0.5 seconds. → The wireless LAN connection may be disconnected. Please check the wireless LAN connection status again. (Page 25) ● The LED of wireless LAN flashes every 0.1 second. → The wireless LAN module communication may be faulty. Please contact Panasonic service center immediately.
	The LED of wireless LAN on the Operation Panel turns on unexpectedly.	● Is the refrigerator being connected to wireless LAN? Then, turn off the wireless LAN module, the LED of wireless LAN will turn off.
Water Dispenser	Droplets are kept on top of nozzle.	● After getting water, a few droplets are kept on top of nozzle and may drip into the Water tray. This is a normal phenomenon. ● When the air humidity is high, a few droplets are kept on top of nozzle and may flow into the Water tray. This is a normal phenomenon and no longer appears when the air humidity is decreased. Please clean with soft dry towel. ● When the air humidity is low but a few droplets are still kept on top of faucet and flows into the Water tray, please contact Panasonic service center immediately.
	Only a few droplets flows into Water tray.	
	Water flows continuously	● Does the Water tray of the Water Dispenser have any abnormal object or scale formation? → Please clean the Water tray of the Water Dispenser if it has any abnormal object or scale formation. ● In case water flows continuously and no abnormal objects are in the Water tray, please contact Panasonic service center immediately.

Specifications

Model No.		NR-XY680Y
Freezer Star Rating		✱***
Capacity (L) (PNS IEC 62552:2016)	Total	621
	Freezer	212
	Fridge, Prime Fresh	409
Outside Dimensions Width x Depth x Height (mm)		900 x 750 x 1790
Net Weight (kg)		113
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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