INVERTER

Panasonic



# Operating Instructions
# Refrigerator

**For Household Use**

## Model No.: NR-CW530HW

## Contents


- Safety Precautions ..... 2
- Usage Precautions ..... 4
- Highlighted Features ..... 6
- Installation ..... 8
- Parts Identification ..... 11
- Operation Panel ..... 13
- Temperature Control ..... 14
- ECONAVI Operation ..... 15
- nanoe™ X ..... 15
- Quick Freezing ..... 16
- Prime Fresh+ ..... 16
- Quick Ice Making ..... 17
- Auto Ice Off and Auto Ice Clean ..... 17
- Fridge compartment ..... 18
- Prime Fresh case ..... 19
- Freezer compartment ..... 20
- How to clean the Refrigerator ..... 23
- Troubleshooting ..... 28
- Specifications ..... 31


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

Thank you for purchasing the Panasonic product.

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


DBD

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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.

## CAUTION

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

These signs mean prohibited action.

This sign means required action.

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




**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, Cyclopentane is used for insulation of this refrigerator. When you throw away this unit, please discard it by proper method and do not dispose it by burning.

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

# ⚠ WARNING

**For power plug and power cord:**

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

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

**When using:**

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

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

**When installing:**

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

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

Otherwise it may cause injury, accidents.

# ⚠ CAUTION

**When opening/closing the doors:**

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



**When storing food:**

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



**When moving the refrigerator:**

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

## Usage Precautions

**When opening/closing the doors:**

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

**When cleaning:**

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



**When using:**




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

**When storing food:**



- **Do not** overload the refrigerator. 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.

# Highlighted Features

## ■ High-end design suitable for luxury kitchens



Borderless surface with modern handle design.

## ■ Energy saving

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

## ■ 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.

## ■ Quick Freezing

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

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

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

## ■ Auto Ice Making system




ANTI BACTERIA
BPA FREE

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

## ■ Prime Fresh case and Prime Fresh+



- The temperature of Prime Fresh case 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.
- Prime Fresh case makes it easier to remove and clean, helps avoid mixing unpleasant odor or cross-infection.

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

## ■ 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.

## ■ Convenient Operation Panel




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

# Installation

## The distance requested for installation

5 cm

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



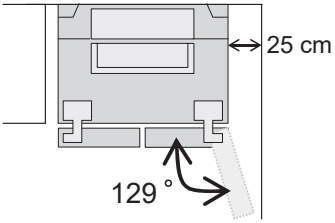
5 cm

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

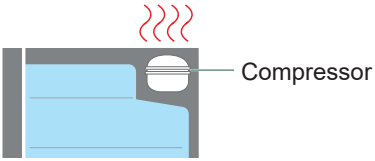
- The back of the refrigerator is at least 5 cm from the wall.

**Caution**

- In case the refrigerator is placed 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 25 cm. If this space is less than 25 cm, the doors may not be fully opened and the glass trays, Vegetable case, etc. could not be taken out.




- Do not place any objects on top of the refrigerator. It may become hot due to heat generated by the compressor at the top of the refrigerator. If it is difficult to release heat, the cooling capacity may be lowered.




- When using for the first time: clean the inside of the refrigerator.
  - Use a soft damp cloth to clean the refrigerator.
  - Rinse the Water tank and Ice tray.
  - 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.

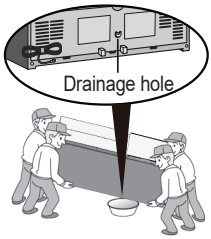
## LED lamp and grounding

- The refrigerator LED lamp is 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.

## Moving or transporting

※ **Before moving and transporting**

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




※ **How to move and transport**

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



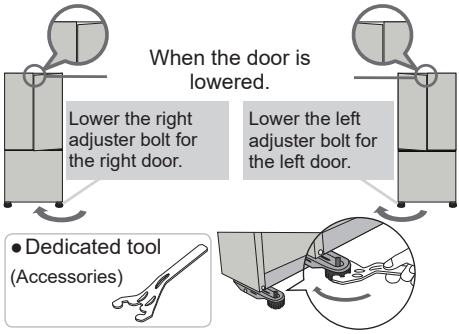

### Caution

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

**If the door is slanted downwards.**

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

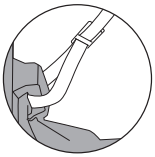
- The Freezer/Fridge doors may tilt within four to five days after installation due to the load of the food or adaptation to the floor surface, turn the corresponding adjuster bolt with the dedicated tool to adjust and level the door again to restore.



# Installation

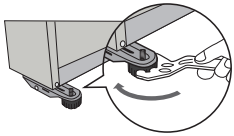
**Have any measures taken against tipping due to earthquakes?**

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



**Fix the refrigerator.**

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



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

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

**Please wait until the interior has cooled down.**

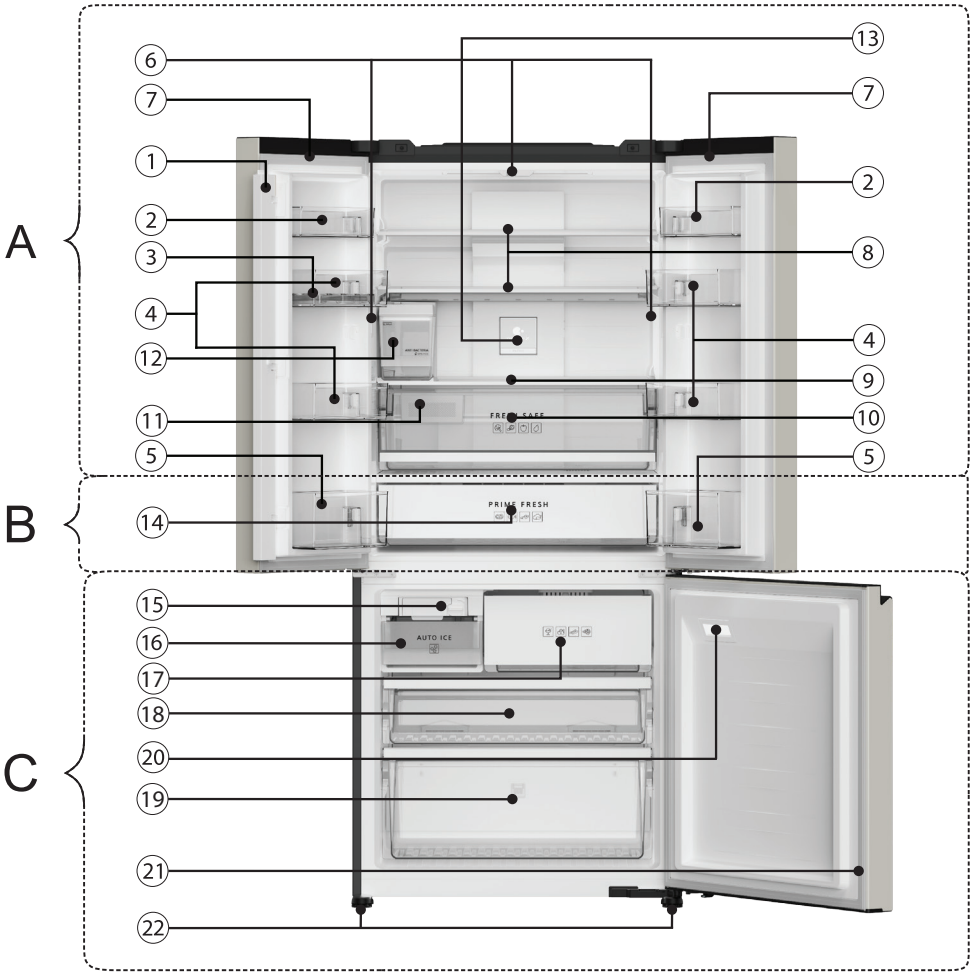
- The refrigerator may take at least 4 hours (or longer especially in summer when the ambient temperature is high) of continuous running to cool down the interior, in the condition of no food items inside and the doors are not opened.
- Depending on ambient temperature and usage condition, it may take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

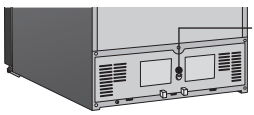


# Parts Identification

Left door

Right door



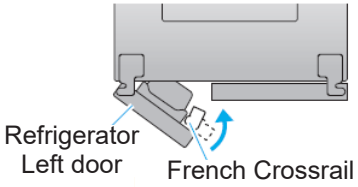
Drainage system [Inside the drain tray]

Product view from behind

# Parts Identification

**A-Fridge compartment**

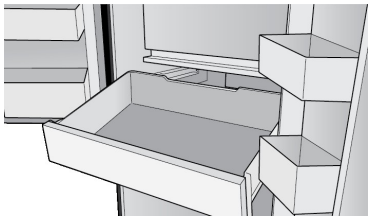
① French Crossrail
The French Crossrail minimizes the gap between the left door and the right door of the refrigerator. If this French Crossrail is opened forward, put it back into place.
(Otherwise, the refrigerator doors cannot be closed fully, causing the refrigerator to lose cool air)




② Small door shelf (Quantity: 2 pcs)
③ Egg tray
④ Large door shelf (Quantity: 4 pcs)
⑤ Bottle shelf (Quantity: 2 pcs)
⑥ LED of Fridge compartment
(Quantity: 3 pcs)
⑦ Door gasket of Fridge compartment
(Quantity: 2 pcs)
⑧ Glass tray of Fridge compartment
(Quantity: 2 pcs)
⑨ Glass tray of Vegetable case
⑩ Vegetable case
⑪ Moisture control filter for Vegetable case
⑫ Water tank of Auto Ice maker
⑬ nanoe™ X

**B-Prime Fresh**

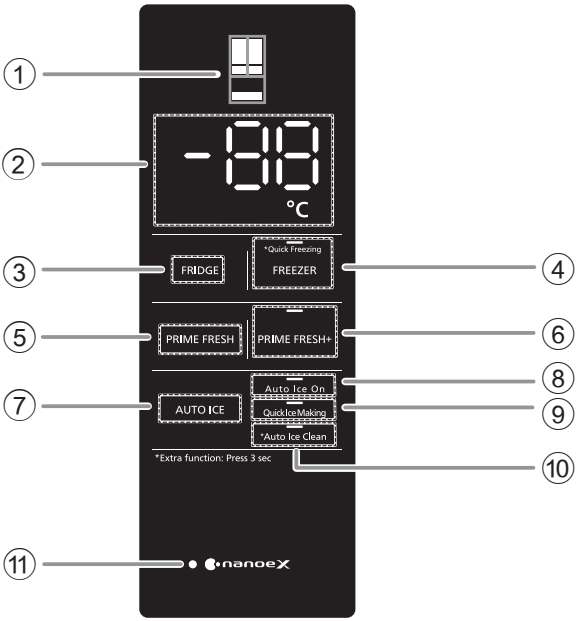
⑭ Prime Fresh case



**C-Freezer compartment**

⑮ Auto Ice maker
⑯ Ice box
⑰ Upper Freeze case
⑱ Middle Freezer case
⑲ Lower Freezer case
⑳ LED of Freezer compartment
㉑ Door gasket of Freezer compartment
㉒ Adjuster bolts

# Operation Panel




① LED of compartments: the icon of the respective compartment will light up when the compartment is selected.
② Temperature display area: display the temperature of Fridge compartment, Freezer compartment, Prime Fresh case.
③ Temperature control button of Fridge compartment.
④ Temperature control button of Freezer compartment and LED of Quick Freezing.
⑤ Temperature control button of Prime Fresh case.
⑥ Control button and LED of Prime Fresh+.
⑦ Control button of Auto Ice.
⑧ LED of Auto Ice On.
⑨ LED of Quick Ice Making.
⑩ LED of Auto Ice Clean.
⑪ Icon and LED of nanoe™ X: display the current status of nanoe™ X mode.

**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 LED of Operation Panel will turn off. When you press the buttons, the LED of Operation Panel will turn on. The LED of Operation Panel will turn off and all the buttons will not be operated when the refrigerator door is closed.
- 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. Therefore, it is necessary to reduce doors opening times.
- When first plugged in, the Operation Panel will display the introduction of modes and the temperature of compartments for about 10 seconds. Buttons will not be active during this period of time. After 10 seconds, the Operation Panel can be adjusted normally.

# Temperature Control

- Default setting temperature for Fridge compartment is 4 °C, Prime Fresh case 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, and Freezer compartment. The LED indicates position and the LED indicates temperature of the compartment will light on when selected.

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

**2. Temperature setting**

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

# ECONAVI Operation

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

■ **ECONAVI Operation**

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

■ **Settings for enabling ECONAVI Operation**

- ECONAVI Operation is enabled automatically when the temperature 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 or Quick Ice Making mode is in operation.
- It is not possible to force start the ECONAVI mode.

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

# 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**




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

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

**Remark**

- The Quick Freezing operation will stop automatically after running for 150 minutes and return to normal mode. (The LED of Quick Freezing turns off.)
- The flashing of LED of Quick Freezing means that the defrosting system is currently working. The Quick Freezing 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 ends.
- The following modes will be stopped when Quick Freezing is turned on: Prime Fresh+ ; Quick Ice Making.

# 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+**




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

- Press the “Prime Fresh+” icon twice in a row to start Prime Fresh+. Then, the LED of Prime Fresh+ will turn on.
- If you want to stop the Prime Fresh+ operation immediately, press the “Prime Fresh+” icon once until the LED 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 of Prime Fresh+ turns off.)
- The flashing of LED of Prime Fresh+ means that the defrosting system is currently working. Prime Fresh+ will start right after the defrosting operation is finished.
- The 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 Fresh+ will not start when the temperature of the Prime Fresh case is being set at 0 °C ~ 4 °C.

# 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**




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

- **Case 1:** Press the “Auto Ice” icon twice in a row to start the Quick Ice Making.
- **Case 2:** If the Auto Ice Off is in process (LED of Auto Ice On is off), press the “Auto Ice” icon three times until the LED of Quick Ice Making turns on.
- After starting the Quick Ice Making, the LED of Quick Ice Making will flash, and the refrigerator will have a notification sound. The LED of Quick Ice Making will remain on during this time.
- If you want to stop the Quick Ice Making operation immediately, press the “Auto Ice” icon twice in a row until the LED of Quick Ice Making turns off.

**Remark**

- The following modes will be stopped when Quick Ice Making is turned on: Quick Freezing, Prime Fresh+, 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 Auto Ice maker automatically.

■ **How to operate the Auto Ice Off**




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

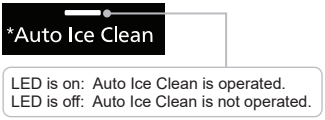
- **Case 1:** Press the “Auto Ice” icon three times until the LED of Auto Ice On turns off.
- **Case 2:** If the Quick Ice Making is in process (LED of Quick Ice Making is on), press the “Auto Ice” icon twice until the LED Auto Ice On turns off.
- After starting the Auto Ice Off, the LED of Auto Ice On will flash, and the refrigerator will have a notification sound, then the LED Auto Ice On turns off.
- If you want to stop the Auto Ice Off operation immediately, press the “Auto Ice” icon once until the LED of Auto Ice On turns on.

**Remark**

- When the Auto Ice Off is on, Quick Ice Making, if active, will be stopped.
- In the default state, LED of Auto Ice On is always on.

# Auto Ice Off and Auto Ice Clean

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




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

**Remark**

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

For details on the cleaning operation of Auto Ice maker, please refer to Page 22.

# 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.

## 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.

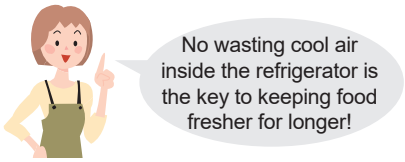
**Note**

- 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.

## Tips for food preservation

■ **Do not over stock too many food items**

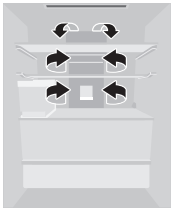
When there are too many food items and there is no space for cool air circulation inside the refrigerator, the cooling capacity will be affected. Provide sufficient space between foods inside Prime Fresh case.




■ **Do not block the cool air outlet with food items**

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

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



# Prime Fresh case

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, the temperature can be adjusted according to your usage.

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

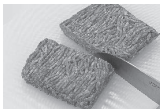
**Using Prime Fresh case** **Approx. -5 °C ~ -1 °C**

- 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.
- 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.

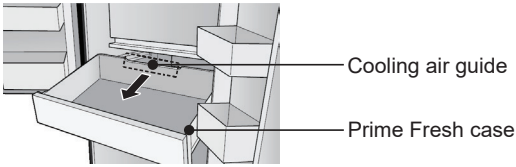


**Easy to cut.**

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



- 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.
- Do not over stock 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 amount, e.g. a large block of meat, a large fish or a chicken, it is advisable to place the food at the center of the Prime Fresh 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.
- 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) to prevent blocking the air circulation inside the compartment.



# Freezer compartment

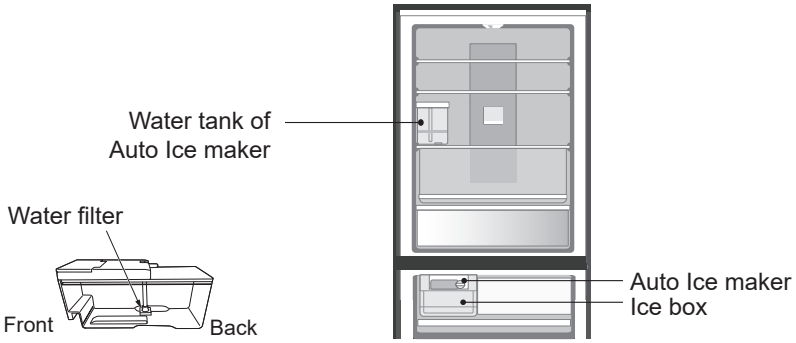
Storing frozen food, cooked meal and freezing food.
The temperature range of the Freezer compartment is -23 °C to -15 °C.



**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.

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

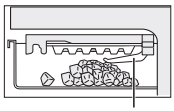



**Tips**

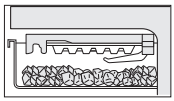
- The hardness of water must be 100 mg/L or less. The minerals may appear as white floating particles. They are not harmful.
- When using the Auto Ice maker for the first time, odor or dust may be on the Ice tray, etc. Please throw away the first lot of ice.
- Remember to regularly use the Auto Ice Clean function of the Auto Ice maker (Page 22).

**Attention**

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




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**

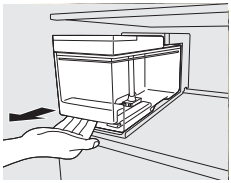
- Do not pour water directly into the Ice box to make ice. (Otherwise, the Ice box may be broken.)
- Do not put food or other things into the Ice box. (Otherwise, the amount of ice cannot be correctly detected and Auto Ice Making may be stopped or the Ice box cannot be pulled out.)

**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.

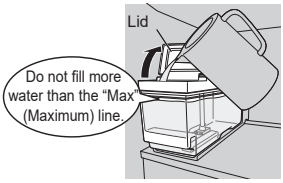
## How to use Water tank of Auto Ice maker(*)

1 Take the Water tank out.



Pull out the Water tank until it is blocked.

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 compartment 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 LED of Quick Ice Making 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 compartment, and the Freezer compartment are 4 °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 Auto Ice maker.
After selecting the Auto Ice Clean, water will be automatically poured into the Ice tray and water supply pipe 3 times (for about 2 minutes) to drain the water.
When selecting Auto Ice Clean, 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 (Page 18).
   - At the same time, the refrigerator will sound a notification and begin to clean the Auto Ice maker.
   - During the cleaning process, the sound cannot be turned off.
   - After the beeping sound to inform the completion of the cleaning process, the LED of Auto Ice Clean on the Operation Panel will turn off, the Auto 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 Making

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

### ■ Turn off Auto Ice Making

1. Select the Auto Ice Off mode, the LED of Auto Ice On on the Operation Panel will turn off, the refrigerator will stop making ice (Page 17).
2. No need to pour water in the Water tank. The remaining water inside the Water tank will keep making ice, and ice cubes will be available after 2 hours. Or when the Ice box is full, the Auto Ice Making will be stopped.
3. When you want to continue making ice automatically, please select the Auto Ice Off mode, and the LED of Auto Ice On on the Operation Panel will turn on (Page 17).

### ■ 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 rubber gasket 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. Select the Auto Ice Clean, the LED of Auto Ice Clean on the Operation Panel will turn on and the refrigerator will start cleaning the Auto Ice maker.
   (At this time the ice cubes and water in the process of making ice will fall into the Ice box)
3. The cleaning process will stop after about 2 minutes. Take out the Ice box and empty the ice cubes and water in the Ice box.
4. Clean the Water tank, Water filter and Ice box; dry and put them back to their place.

# How to clean the Refrigerator

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

**Clean the detachable items after it is stained!**

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

**Clean the detachable items occasionally.**

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

**Clean the door gasket at least once a month.**

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




Rub the door surface with a soft damp cloth.






Point where lubricated gel was applied



**Notices**

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

**Requests**

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




Kitchen detergents (They crack plastic!)



Cleanser or soap powder



Benzine, thinner, alcohol, acid, petroleum



Scrubber



Hot Water

# How to clean the Refrigerator

## Tray — Once every 3 months

### ■ Removing

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 of 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.

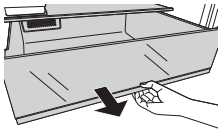
## Vegetable case/Freezer cases — Once every 3 months

※ **Vegetable case**



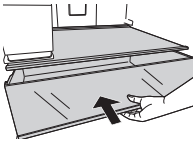

### ■ Removing

1. Fully open both doors of the Fridge compartment.
2. Remove the Large door shelf ④ (According to Parts Identification in Page 11 ~ Page 12) 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 Vegetable case into the shelf.
2. Gently lift the case and push forward until it reaches the end.
3. Install the Large door shelf ④.

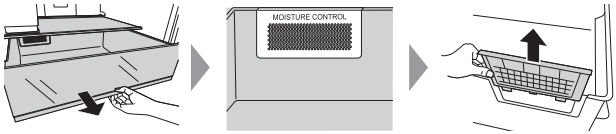


※ **Freezer cases**

Skip the steps of removing and installing the Large door shelf ④. 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. Remove two hooks and slide the Moisture control upward to remove it.




**Remark**

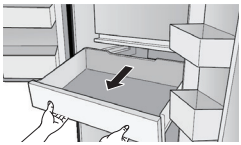
- After cleaning by water, wipe it or let it dry.
- For tough stains, dilute (neutral) kitchen detergent, and gently wash with a soft toothbrush, then rinse thoroughly with water.

## Prime Fresh case — Once every 3 months



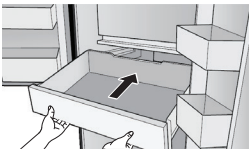

■ **Removing**

1. Fully open both doors of the Fridge compartment.
2. Remove the Bottle shelf ⑤ (According to Parts Identification in Page 11 ~ Page 12) 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. Insert the Prime Fresh case into the shelf.
2. Gently lift the case and push forward until it reaches the end.
3. Install the Bottle shelf ⑤.



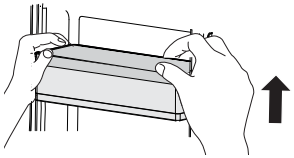
## Door shelf/Bottle shelf — Once every 3 months

■ **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.

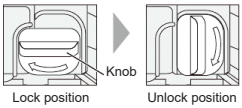


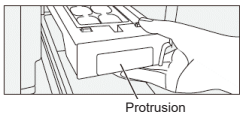
# How to clean the Refrigerator

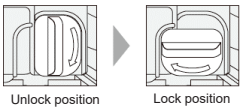
## Ice tray — Once every 3 months

The Ice tray can be cleaned by using the Auto Ice Clean function (Page 18). 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. Select the Auto Ice Off (Page 17).
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 (Page 17) to restart the Auto Ice Making.

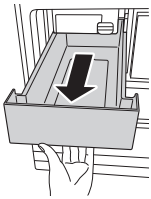
**Remark**

- Ice will not be made automatically when the Auto Ice Off 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.

## Ice box — Once every 3 months

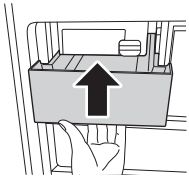
### ■ Removing

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.

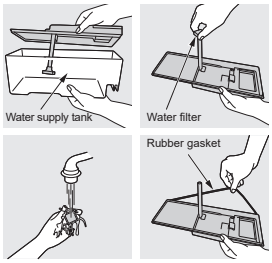


**Remark**

- Stop the Auto Ice Making function before cleaning the Ice box (Page 17).

## 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.

# Troubleshooting

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

**The refrigerator does not operate.**

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

**The refrigerator does not cool enough.**

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

**Dew, frost appears.**

**Outside**

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



**Inside**

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

**The refrigerator generates noise.**

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

# 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 is set. (Page 17)
- Be sure to fully push the Water tank and Ice tray into place.
- Do not leave food in the Auto Ice maker.
- Do not install or remove the Ice tray frequently.
- Check if the Water tank is almost empty.
- If water spills on the Ice box, clean it up.
- Please contact Panasonic service center.

**The ice does not form any ice cube**

- Is the temperature of Freezer compartment set to a higher temperature than -20 °C?
  → Adjust to a lower temperature. (Page 14)

**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.

**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.

# Troubleshooting

| | | |
|---|---|---|
| **The inside is smelling.** | | ● Do you store food with dry odor without wrapping it? |
| **LED does not turn on.** | | ● Please contact Panasonic service center. |
| **The Operation Panel flashes.** | | ● Are you adjusting the temperature of your refrigerator?<br>→ Flashes during adjusting. Please complete the setting or the Operation Panel will stop flashing after 5 seconds. |
| **Food becomes frozen.** | | ● Do you put the food near cold air holes?<br>● Do you adjust the temperature control to less than 4 °C for the Fridge compartment and/or -3 °C for the Prime Fresh case?<br>→ Adjust to a higher temperature.<br>● Do you put food in Prime Fresh case? |
| **Error display on Operation Panel.** | | ● U10: Warning if doors are opened too long.<br>→ Check that the doors are closed properly. |
| | | ● The letter “H” and two digits are displayed on Operation Panel.<br>For example: H01<br>→ Please contact the Panasonic service center for support. |
| **Prime Fresh case** | **Food is over-frozen or not frozen.** | ● When the food in Prime Fresh case is over-frozen.<br>→ Please set to a higher temperature than -3 °C.<br>● When the food in Prime Fresh case is not partially frozen.<br>→ 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.<br>→ Create space between foods for cold air circulation, arrange similar sized food in a Prime Fresh case and adjust the temperature accordingly. |
| | **Not fully sealed.** | ● When there is too much food, it may overflow from Prime Fresh case and enter the gap behind Prime Fresh case, causing it not to be fully sealed.<br>→ Check the back of Prime Fresh case contains food items? If so, remove them before attaching Prime Fresh case.<br>→ Arrange food properly to avoid overflowing. |

# Specifications

| Model No. | | NR-CW530HW |
|---|---|---|
| Freezer Star Rating | | ✳*** |
| Capacity (L) (IEC 62552:2015+A1:2020) | Total | 501 |
| | Freezer | 188 |
| | Fridge, Prime Fresh | 313 |
| Outside Dimensions Width x Depth x Height (mm) | | 750 x 750 x 1730 |
| Net Weight (kg) | | 87 |
| Refrigerant Type | | R600a |
| Cooling System | | Non-frost cooling. |
| Rated Voltage (V) Rated Frequency (Hz) | | Refer to the rating label attached inside the cabinet. |

## Memo

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