



**INVERTER**

**Panasonic®**

**Operating Instructions**

**操作指示**

**Panduan Pengendalian**

Refrigerator 雪櫃 Peti Sejuk

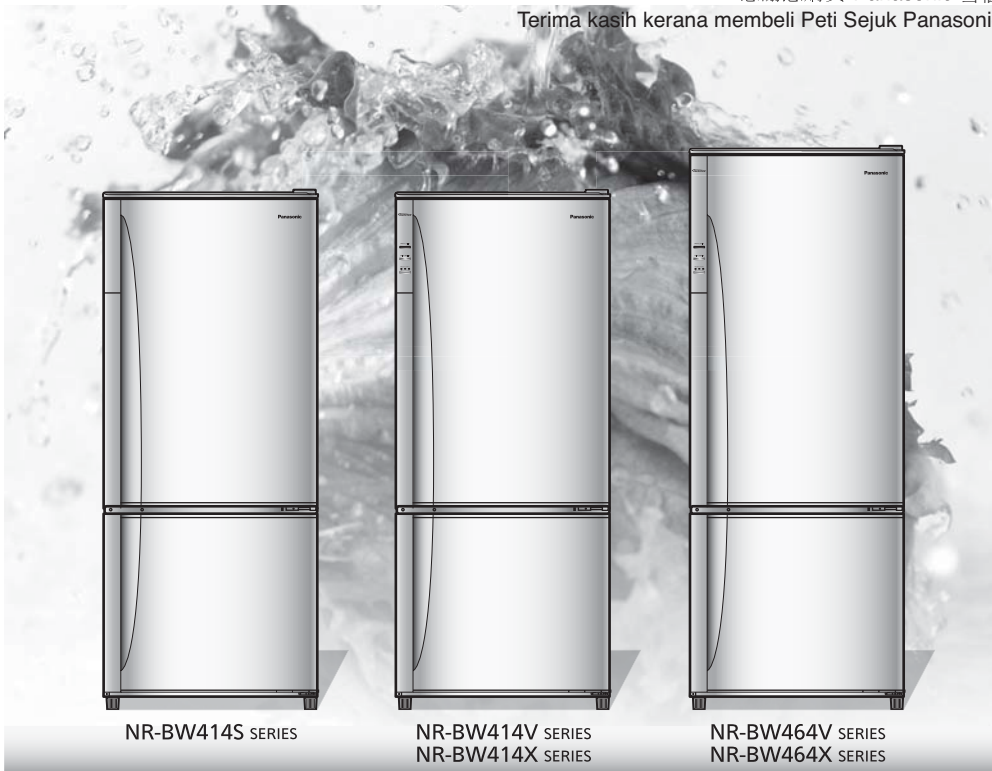
Model No: **NR-BW414 Series**

Model No: **NR-BW464 Series**

Thank you very much for purchasing Panasonic Refrigerator

感謝您購買 Panasonic 雪櫃

Terima kasih kerana membeli Peti Sejuk Panasonic



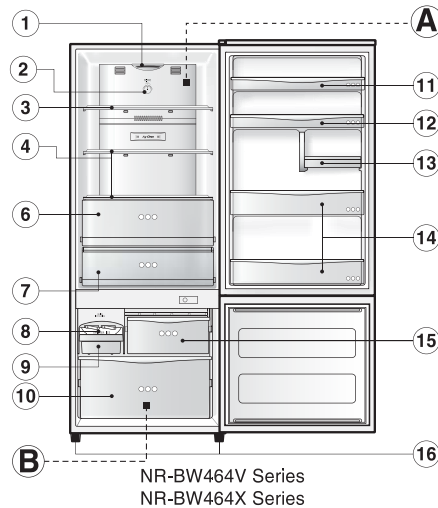
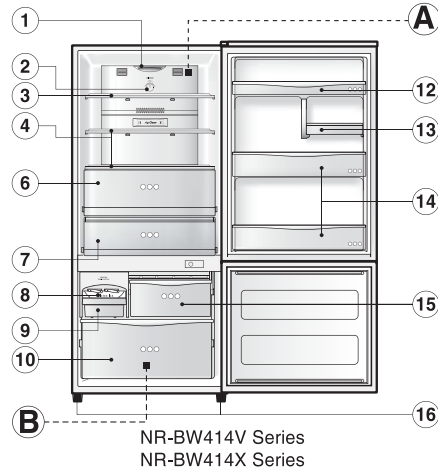
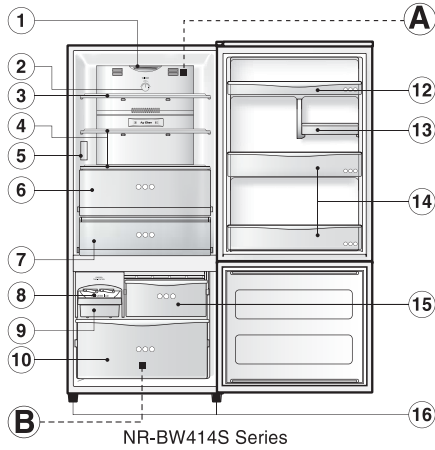
Before operating this unit, please completely read these instructions especially the safety precautions.

操作本機之前，請仔細閱讀下列說明，特別是安全措施。

Sebelum menggunakan unit ini, sila baca panduan ini khasnya amaran keselamatan.



## PARTS IDENTIFICATION



### A. REFRIGERATOR COMPARTMENT B. FREEZER COMPARTMENT

1. Room Lamp
2. Refrigerator Temperature Control
3. Small Tempered Glass Tray
4. Large Tempered Glass Tray
5. Freezer Temperature Control
6. Vegetable Case
7. Chilled Case
8. Ice Tray (ICE TWISTER)
9. Ice Box
10. Freezing Case (Bottom)
11. Free Pocket (NR-BW464V Series and NR-BW464X Series)
12. Free Pocket with Egg Tray
13. Turn Rack
14. Bottle Pocket
15. Freezing Case (Top)
16. Adjustable Leg

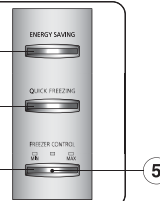
### INVERTER

- NR-BW414V Series
- NR-BW414X Series
- NR-BW464V Series
- NR-BW464X Series

ENERGY SAVING button

QUICK FREEZING button

FREEZER CONTROL button



### SPECIAL FEATURE

#### 1) NON-CFC

This unit uses totally NON-FLON MATERIALS both for refrigerant (HFC-134a for NR-BW414S Series, iso-butane for NR-BW414V Series, NR-BW414X Series, NR-BW464V Series and NR-BW464X Series) and for insulation (cyclopentane). So, this refrigerator does not damage to the earth's ozone layer and has almost no effect on global warming.

#### 2) INVERTER (For NR-BW414V Series, NR-BW414X Series, NR-BW464V Series and NR-BW464X Series)

In accordance of temperature change inside of compartment, the motor runs at different speed. When temperature is stable, the motor runs at lower speed. (Energy saving & lower noise) When powerful cooling is required, the motor runs at higher speed.

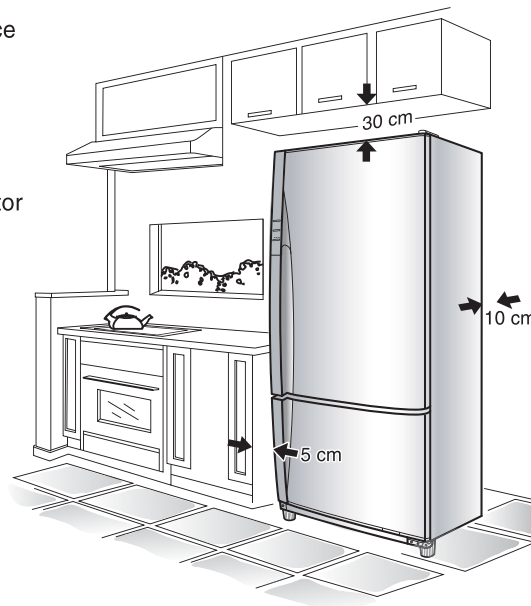


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## INSTALLATION

- The refrigerator must be located in the place where there is good air circulation. There must be a space between the top of the refrigerator and the ceiling at least 30 cm as well as the space between the back of the refrigerator at least 10 cm and the side of the refrigerator and the wall at least 5 cm.
- Do not locate the refrigerator in the humid place as rust may form and may cause the electric leakage.
- Do not locate the refrigerator exposing to direct sunlight as the heat and sunlight will increase the temperature.
- When moving or shifting the refrigerator, remove all trays and check to be sure that there is no water in the refrigerator.
- In case of refrigerator without ground wiring plug, shall be connect with ground connection to prevent hazard from electric leakage.
- In case of locating the refrigerator on an uneven surface, adjust the leveling stand to make the refrigerator stands stably.





## SAFETY PRECAUTIONS



# WARNING

This sign means  
[It may result in severe injuries or death]



# CAUTION

This sign means  
[It may result in injuries or malfunction]

The samples of symbols used in this manual are described below.



These signs mean prohibited action.



This sign means required action.

## WARNING



### Use proper voltage and keep it close to the outlet.

Your refrigerator's rated voltage is indicated on a label put at the door or at the inside of cabinet.  
And place your refrigerator near enough the electrical outlet so that you do not have to use an extension cord.



### Do not touch compressor or pipe.

In this area become high temperature, will have an accident when you touch it.



Compressor



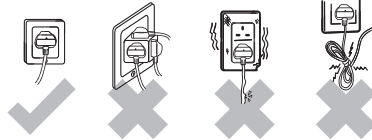
### Do not plug or unplug with wet hands.

Doing so can result in an electrical shock.



### Reserve one plug for the refrigerator only.

Avoid connect many appliances to the same plug for the refrigerator. Do not use a plug with no quality. Avoid using damaged plug or electric cord. Unroll through the length of the cord in order to ventilate the heat.



### Remove dust periodically from the power plug.

Dust accumulation on the power plug may cause an insulation failure with humidity and possible fire  
Unplug the power cord and wipe with dry cloth.



### Do not let the cord or plug be damaged.

If the cord or plug is damaged, it may cause fire or electric shock. Please consult your dealer or service center.



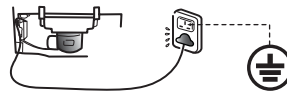
### Do not open controller box except by a service personnel.

May cause injury, burn, or electrical shock.



### Do not try to disassemble, repair or modify the refrigerator by yourself.

You may get injured from doing so or the refrigerator may result in malfunction.  
If you want to repair the refrigerator, please consult your dealer or nearest service center.



In case of refrigerator with ground wiring plug, it must be used the socket outlet with ground connection to prevent hazard from electric leakage.

**Make sure** to push the plug completely into the socket outlet.



## SAFETY PRECAUTIONS

### **WARNING**



**Do not** damage the cooling circuit (piping on the back). The flammable refrigerant may catch fire and lead to an explosion.



- If you detect a burning smell, disconnect the power plug.
- If you detect a gas (such as city gas) leak, ventilate the kitchen.
- If you have damaged the cooling circuit (piping on the back), then ventilate the kitchen and contact your distributor.



**Do not** let any kid hang down the refrigerator's door. The refrigerator may overturn to the kid. Children should be supervised to ensure that they do not play with the refrigerator.



**Do not** store chemicals or scientific specimen. Home-Use refrigerator cannot store those requiring a strict control .



**Do not** place any water container such as fish-tank or flower vase on the top of the refrigerator. Spilled water may damage insulation of electrical components and cause electrical leakage fire or electrical shocks.



Before taking the refrigerator to be recycled, please remove all the door opening seal to prevent locking a child in it.



Regarding to local laws, Cyclo-Pentane is used for insulation of this refrigerator and flammable gas is used for refrigerant. When you throw away this unit, please discard it by proper method, and do not dispose it by using a fire.

### **CAUTION**



- 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.



## CAUTION FOR USING

- Do not freeze glass bottles in the freezer. The glass bottle may get exploded or broken.



- Do not place warm/ hot foodstuff in the refrigerator.



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



- Do not place things with temperature higher than 60°C on the top of the refrigerator, it may damage the top of the refrigerator.



- When disconnected the plug, leave it for 10 minutes before plug it again. If not, the compressor may not work.



- This refrigerator is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of refrigerator by a person responsible for their safety.

## HOW TO REPLACE ROOM LAMP

### MODEL NR-BW414S Series

When replace room lamp, shall be disconnect supply cord to prevent electric shock.

1. Disconnect supply cord.
2. Remove room lamp cover by loosen the screw, then pull the room lamp cover from backside downward you to remove (following picture)
3. Replace proper lamp (E14 240V 15W max.) surely.
4. When finish replacing room lamp, assembly room lamp cover by reverse proper method.



Room lamp cover

Pull the room lamp cover from backside downward you to remove

### Remark

1. Be careful while replacing a room lamp, you may get injured from touching a hot lamp.
2. Do not press front side when removing room lamp cover

### MODEL NR-BW414V Series, NR-BW414X Series, NR-BW464V Series and NR-BW464X Series

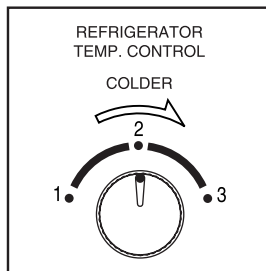
The Refrigerator room lamp, specially designed for this refrigerator, fuction to not individual replacing. If you need to replacing, please contact Panasonic Service Center.



## TEMPERATURE CONTROL

Model : NR-BW414S Series

### Refrigerator compartment temperature control

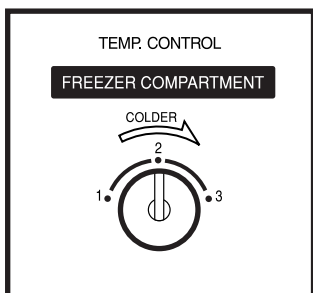


The temperature can be adjusted for 1 - 3 levels

Indicating number and cool level

- Number "1" Higher by approx. 5°C ~ 10°C
- Number "2" Approx. 2°C ~ 7°C
- Number "3" Lower by approx. 0°C ~ 3°C

### Freezer compartment temperature control



The temperature can be adjusted for 1 - 3 levels

Indicating number and cool level

- Number "1" Higher by approx. -13°C ~ -18°C
- Number "2" Approx. -17°C ~ -22°C
- Number "3" Lower by approx. -19°C ~ -25°C

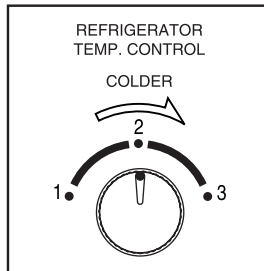
### Remark

When operate the refrigerator for the first time, after connect the plug, adjust the temperature to number "2" and leave it for 24 hours for the effective cooling operation. After that, adjust the temperature as your prefer. If you want to save the energy, do not adjust the temperature lower than the actual operating condition.

## TEMPERATURE CONTROL

Model : NR-BW414V Seires, NR-BW414X Series  
NR-BW464V Series, NR-BW464X Series

### Refrigerator compartment temperature control

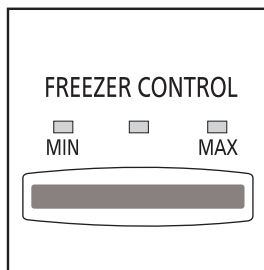


The temperature can be adjusted for 1 - 3 levels

Indicating number and cool level

Number "1" Higher by approx. 5°C ~ 10°C  
Number "2" Approx. 2°C ~ 7°C  
Number "3" Lower by approx. 0°C ~ 3°C

### Freezer compartment temperature control



The temperature can be adjusted for MIN - MAX levels

Indicating operate and cool level

MIN Higher by approx. -13°C ~ -18°C

MAX Lower by approx. -19°C ~ -25°C

- The temperature for freezer compartment can be set in Nine steps, more detailed than as "MIN" and "MAX" as show in the table.

- Set "MIN" with the "Freezer control" button.
- Press the "Freezer control" button (for 10 Seconds).
- Set by pressing the "Freezer control" button.  
To reset the setting, repeat steps 1, 2 and 3.

Cooling Level	Lamp display at FREEZER CONTROL button		
	MIN		MAX
Minimum	●	○	○
	●	★	○
	●	●	○
Normal	★	●	○
	○	●	○
	○	●	★
Maximum	○	●	●
	○	★	●
	○	○	●

● Lighting ★ Blinking

### Remark

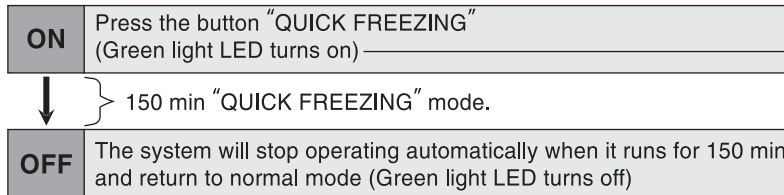
When operate the refrigerator for the first time, after connect the plug, adjust the temperature to center position of each control and leave it for 24 hours for the effective cooling operation. After that, adjust the temperature as your prefer. If you want to save the energy, do not adjust the temperature lower than the actual operating condition.



## INVERTER CONTROL DISPLAY

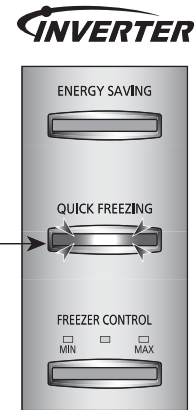
How to operate the "QUICK FREEZING" mode  
(NR-BW414V Series, NR-BW414X Series, NR-BW464V Series, NR-BW464X Series)

### ■ QUICK FREEZING



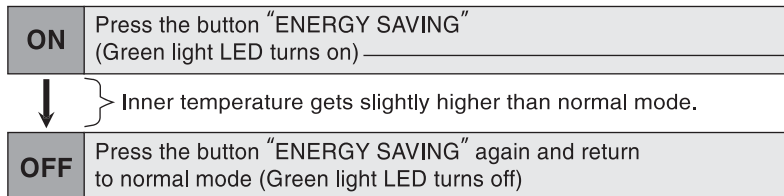
#### Remarks

- If you want to stop the operation, press the button "QUICK FREEZING".
- Green light LED flashing means that the defrosting system is now working "QUICK FREEZING" mode will start right after the defrosting operation is finished.
- Freezer temp. control does not operate during "QUICK FREEZING" mode. (The compressor rotation is at the maximum level for "QUICK FREEZING" mode)



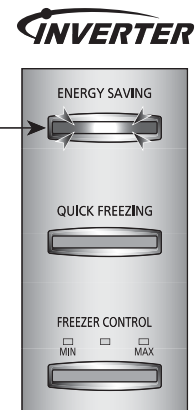
How to operate the "ENERGY SAVING" mode  
(NR-BW414V Series, NR-BW414X Series, NR-BW464V Series, NR-BW464X Series)

### ■ ENERGY SAVING



#### Remarks

- Deodorizing function is less effective than normal mode.
- Frequent opening door raise the inner temperature.
  - \* When inner temperature become higher, the rotation of compressor automatically increase on a temporary base and lowers inner temperature appropriately.



### ■ Others

- As to the order of functions, "QUICK FREEZING" mode has priority over "ENERGY SAVING" mode.
- When pressing the buttons of both "QUICK FREEZING" and "ENERGY SAVING" at the same time
  1. Both Green LED lights ("QUICK FREEZING" and "ENERGY SAVING") turns on.
  2. After "QUICK FREEZING" mode for 150 min is finished and its Green LED light turns off, "ENERGY SAVING" mode starts to operate.
  3. Green LED light of "ENERGY SAVING" mode continues to turn on from the beginning until pressing its button again to stop it.
- When pressing "QUICK FREEZING" button during "ENERGY SAVING" mode Green LED turns on, "QUICK FREEZING" mode starts to operate and "ENERGY SAVING" mode stops.



## FOOD STORAGE

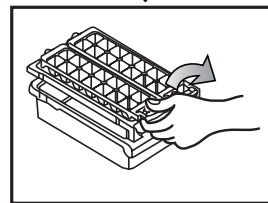
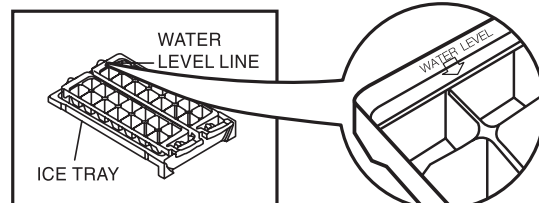
1. Clean the food and its package or container before taking it into the refrigerator.
2. Foodstuff such as vegetable, meat, fish should be wrapped with plastic film or pack in box before freezing or refrigerating in the refrigerator. This is to maintain their freshness and to prevent unpleasant odor.
3. Do not overload the refrigerator. Gap must be provided between foodstuffs to maintain the cooling effect.



## HOW TO MAKE ICE CUBES

### STEP

1. Pull out the ice tray.
2. Fill water in the ice tray till the water level line, then place in back.
3. To remove ice cubes, TWIST the ice tray CLOCKWISE. The ice cubes will drop into ice box.



### Remark

Do not pour water into the ice box for ice making, otherwise the ice box may be cracked.





## HOW TO CLEAN THE REFRIGERATOR

### Interior cleaning

Always disconnect the plug before cleaning. After that, clean the refrigerator with warm water. If the refrigerator is very dirty, clean it with warm water and soap using a soft cloth. Then wipe the soap off using damp soft cloth.

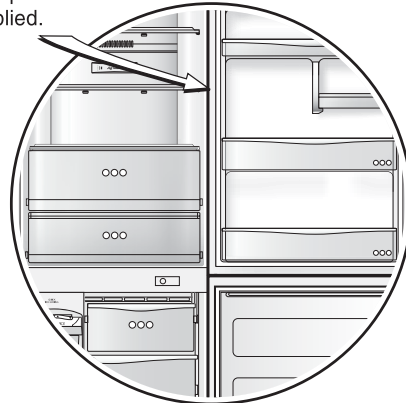
### Exterior cleaning

Clean the outer side of the refrigerator with warm water and soap using a soft cloth. After that wipe the soap off using soft cloth and wipe it with dry soft cloth. Do not use cleaner with chemical mixture or soap with acid mixture as it will leave stain on the refrigerator. Clean the refrigerator at least once a month.

### How to clean the door opening seal

- At the area of inner door opening seal, petroleum gel was applied to reduce the friction to the refrigerator body. You can clean the door opening seal by wiping it softly and be careful not to wipe off the petroleum gel.
- The door opening seal fixing is designed to be replaceable when reaching it end of life.
- When cleaning, if the seal is off from its groove, push it back into the groove.

Point where petroleum gel was applied.



## REMOVING TRAYS FOR CLEANING

- **When removing the tray,** lift up a bit the innermost of the tray to release the claws off the locking tabs. Then pull the tray toward yourself.



- **When attaching the tray,** push until it reaches the end and then push the innermost downward to lock its claws with the locking tabs.



### Remark

In case of attaching the tray and it does not lock, check to be sure that you did not attach a wrong tray.



## REMOVING THE VEGETABLE CASE AND CHILLED CASE FOR CLEANING

Before removing the vegetable case and chilled case for cleaning, always remove the tray on top first.

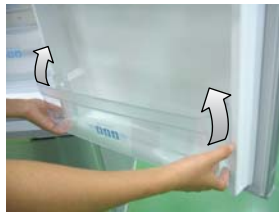
1. Pull the vegetable case toward yourself.
2. Remove the tray on top. Then completely take out the vegetable case and chilled case.



## REMOVING FREE POCKET AND BOTTLE POCKET FOR CLEANING

### ■ When removing free pocket and bottle pocket,

Raise up it from left and right side and pull it upward yourself.



### ■ When attaching free pocket and bottle pocket,

Put in the free pocket and bottle pocket, placing it on both supporter, then press until it reaches the end of supporter.



## REMOVING TURN RACK FOR CLEANING

### ■ When removing turn rack,

1. Raise up it from front side.
2. Pull it toward yourself.



### ■ When attaching turn rack,

1. Raise down it a bit from back side, placing it on both supporter.
2. Push until it reaches the end of supporter.





## REFRIGERATOR INSTRUCTION GUIDELINES

1. Do not open the refrigerator frequently or leave it opened for a long time. This is to prevent water dripping inside the refrigerator which will cause the waste of coolness and consuming of energy.
2. Do not refrigerate unnecessary items or hard-to-rot foodstuff such as pumpkin, shallot, garlic, potato as it will make the refrigerator to work overload and waste the storage space without necessity.
3. Adjust the temperature according to the actual operating condition for energy saving.
4. Do not refrigerate the bottle bigger than the door shelf or the tray as the door will not close completely causing the coolness leakage.
5. Frequently check the door opening seal, it must be closed to the refrigerator's body completely. Do not leave the seal dirty or damaged or deteriorated as the coolness will leak and will cause the consuming of the energy without necessity.
6. If you will not be at home for several days or there are nothing refrigerated in the refrigerator, the plug should be disconnected for energy saving. In this case, clean the refrigerator and leave it half-open to prevent bad odor.
7. Clean the drain tray located over the compressor at the back of the refrigerator every three months to prevent the odor generated from humidity.
8. Energy saving dryer pipes and heating pipes embedded around the refrigerator cabinet are helping to prevent "sweating" on the outer surface of the cabinet without consuming the energy. This will make the outer wall of the refrigerator to get warm and is not a malfunction.
9. Drinking water bottles, beverage bottles such as soft drink and fruit juice should be seal closely to prevent odor gets into the bottles.

## TROUBLESHOOTING

**Before calling for servicing, please check as follows.**

**The refrigerator does not operate.**

- \* Check to be sure that the plug and its socket are in good conditions.
- \* Check to see if there is any problem on main fuse and electricity system in the house or not.

**The cooling does not function properly.**

- \* Check to be sure that the temperature control button is at the proper position.
- \* Check to see if the refrigerator is overloaded with stuff or there is any hot foodstuff refrigerated in it or not.
- \* Is the refrigerator located exposing directly to sunlight or heat source?
- \* Is the refrigerator door closed completely? Is the refrigerator opened frequently?

**Vapor generated inside and outside the cabinet**

- \* Condensation may appear on the surface of cabinet when humidity is high, e.g. during rainy season or the air circulation is not good.
- \* If there is condensation appear inside , check to see that the door is completely closed or not. Is the refrigerator frequently opened or left opened for a long time ? Is there any hot foodstuff refrigerated inside ?

**The refrigerator generates noise.**

- \* Check to see if the refrigerator is located on stable floor or is located evenly.
- \* Check to see if there is any object contact with the refrigerator.



## SPECIFICATION

MODEL Series		NR-BW414S Series	NR-BW414V Series NR-BW414x Series	NR-BW464V Series NR-BW464x Series
Freezer Star Rating		❄️***		
Capacity (L)	Total	418		463
	Freezer	130		130
	Refrigerator	288		333
Outside Dimensions Width × Depth × Height (mm)		675 × 695 × 1,629		675 × 695 × 1,769
Net Weight (kg/lb)		66 / 145	64 / 141	67 / 148
Refrigerant Type		R-134a	R-600a	
Rated Voltage (V) Rated Frequency (Hz)		Refer to the rating label attach inside of cabinet		

## MEMO

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