

ECONAVI

INVERTER

Panasonic®

# Operating Instructions

Refrigerator (For Household Use)

Model No. NR-BT268

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**Thank you for purchasing this Panasonic product.**

- Before operating this unit, please read these instructions completely.  
**Before using this product, please pay particular attention to the “Safety precautions” section (Pages 2 to 7) for safe use.**
- Please ensure the date and name of store of purchase are stamped in warranty card and keep it stored together with these operating instructions in a safe place for future reference.

HK

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## Safety Precautions



### WARNING

This expression presumes possibility of a death or serious injury.



### CAUTION

This expression presumes possibility of personal injury or property damage.



This sign means prohibited action



This sign means required actions



This sign means do not disassemble



**iso-butane**

Risk of fire / flammable materials



## WARNING

### For power plug and cord...



- Periodically wipe the power plug with a dry cloth. (Dust accumulated on the plug of a refrigerator that operates continuously leads to reduced insulation due to moisture and may cause fire.)
- Plug into a wall outlet of the rated voltage on its own with the rated current and insert plug fully.
- Connect to an exclusive wall outlet for the refrigerator only. Avoid connecting other appliances to the same wall outlet. Unroll entire length of the cord before plugging in.
- Unplug the unit when cleaning the refrigerator.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Please ensure minimum clearance of 10 cm for air ventilation and prevent damage to the power cord.

**For power plug and cord...**

- Do not let the cord get damaged.
- Do not insert or disconnect the power plug into/from the wall socket with wet hands.
- When positioning the appliance, ensure the supply cord is not trapped or damaged.
- Do not locate multiple portable socket-outlets or portable power supplies at the rear of the appliance.

**When recycling the product...**

- Before taking the refrigerator to be recycled, please remove all the door gasket to prevent locking a child in it.
- 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.
- Cyclo-Pentane is used for insulation of this refrigerator and flammable gas is used for refrigerant. When disposing of this unit, please discard it by the proper method and do not dispose of the unit by burning.
- The warning labels mentioned above should be kept throughout the life of the refrigerator.

In order to prevent fires,  
electrical shocks, explosion,  
injuries, etc.

**In case of emergency...**

R600a  
iso-butane



- Maintenance work must only be carried out at workshop by well-trained maintenance worker.
- Do not store explosive substances such as aerosol cans with a flammable propellant and chemicals or scientific specimens in the appliance.

## Safety Precautions



### WARNING



- 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 use mechanical devices or other means to accelerate the defrosting process, other than those 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.

#### On top of the refrigerator...



- Do not put anything on top of refrigerator. Otherwise, it may fall due to vibration of the machine. You may be injured.

#### When installing...



- Do not install the product in locations exposed to water.
- Provide a grounding connection or install a ground-fault interrupter when the product is installed in a humid or wet location.  
(Contact your distributor.)
- Do not block the ventilation port of the refrigerator or spaces around it.  
Leaked refrigerant may cause a fire and explosion.
- Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.



- For safety it should be checked that the ground connection system in the house has been installed correctly.

**When using...**

- Do not let any children hang or ride on the refrigerator door, the unit may turn over and cause an accident.
- Do not apply water on the body or interior. Electrical insulation could deteriorate and may cause shocks or fire.
- Do not damage the refrigerant circuit (piping on the back). The flammable refrigerant may catch fire and lead to an explosion.
- Do not touch the compressor or pipes because of high temperature. There is a risk of burn injury.
- Do not spray combustible chemicals near the refrigerator.



- If you detect a burning smell, disconnect the power plug.
- If you detect a gas leak from the cooling range, ventilate the kitchen.
- If you have damaged the refrigerant circuit (piping on the back), then ventilate the kitchen and contact your distributor.
- Refrigerator LED lamp.  
The refrigerator LED lamp is designed specially for this product, it does not function on individual replacing. If replacement is required, please contact your dealer or authorised service agent.



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

## Safety Precautions



# CAUTION

### When storing food...



- Do not freeze glass bottles, that there is a risk of injury. (If the liquid in a glass bottle is frozen and broken, you may be injured.)
- Do not touch frozen foods or containers (especially metallic) with wet hands.
- Do not eat any smelling or colour-changed food. Rotten food may cause illness.
- Do not subject glass trays to high impact. (Otherwise those glass trays may break and you may be injured)



- Food containers must reach the bottom of the door shelves.
- The foods must not protrude from the shelf.

### When opening/closing the doors...



- Do not open the refrigerator doors when someone is in the vicinity of the refrigerator.
- Mind the gap between the doors. They may nip your hand while closing the door.
- Do not push drawers by holding them at the top.
- Be careful not to place your feet under the bottom drawer.

### When cleaning...



- Do not place your hands or feet beneath the bottom of the refrigerator.
- Be cautious of hot copper pipe inside pan water evap when removing it.
- Do not clean the refrigerator with chemical substance or liquid. It will cause damage and have corrosion on the surface.

**When moving or transporting the refrigerator...**

- Do not transport the refrigerator in a horizontal position. Laying the refrigerator horizontally may damage the piping. If any damage is noticed, do not touch the refrigerator. Avoid using fire and ventilate the room and contact the service agent immediately.



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

**Caution for using****When using...**

- Do not place warm/hot foodstuffs in the refrigerator. Store warm food and drinks after they have cooled.
- Do not open refrigerator frequently or leave it open for long time in order to prevent water dripping inside and waste energy.

**When the refrigerator will not be used for a long period of time...**

- Unplug the refrigerator and take out all the food in the refrigerator.
- Wipe off all the water and open the refrigerator to keep it dry.

**This appliance is intended to be used in household and similar applications such as**

- staff kitchen areas in shops, offices and other working environments;
- farm houses and by clients in hotels, motels and other residential type environments;
- bed and breakfast type environments;
- catering and similar non-retail applications.

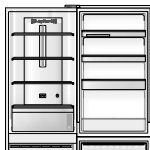
# Installation

## Do not install the unit on the following locations:

- Locations subject to heat and direct sunlight (The cooling power will be reduced and electricity wasted.)
- Poorly ventilated locations with high humidity (It may become rusted and cause leakage current.)
- Locations where the surface is unstable and slanted  
→ On carpet, mats, or vinyl floors, place a plate underneath the refrigerator.
- Locations not allowing the power plug to be cleaned easily (Dust accumulated may cause a fire.)

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

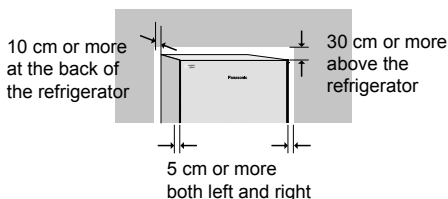
The doors should not be opened until the interior has cooled down sufficiently. (Warm air flowing into the interior will block the cooling function.)



## Please wait until the interior has cooled down.

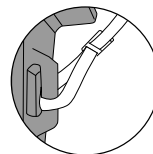
- It may take approximately four hours to cool down the interior.
- It may take 24 hours or more to cool down the interior and achieve equilibrium.

## Has a heat radiating space been provided around the refrigerator?



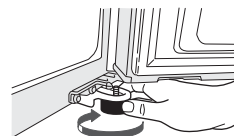
## Have any measures taken against tipping due to earthquakes?

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



## Fix the refrigerator.

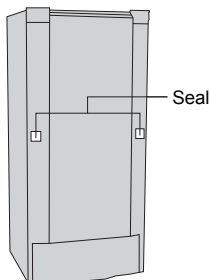
Turn the adjuster bolt (right and left) until they reach the floor to stabilize the refrigerator.



## Requests and notices

### Do not peel the seal on the back.

Otherwise, the cooling performance may deteriorate. If you have peeled it, then cut a cloth packing tape into a square and paste it onto the refrigerator.



- The first operation of the compressor or the fan will cause a little bit noise but it is normal as it is working in high-speed. Once the interior cool down, the sound will become smaller and normal.

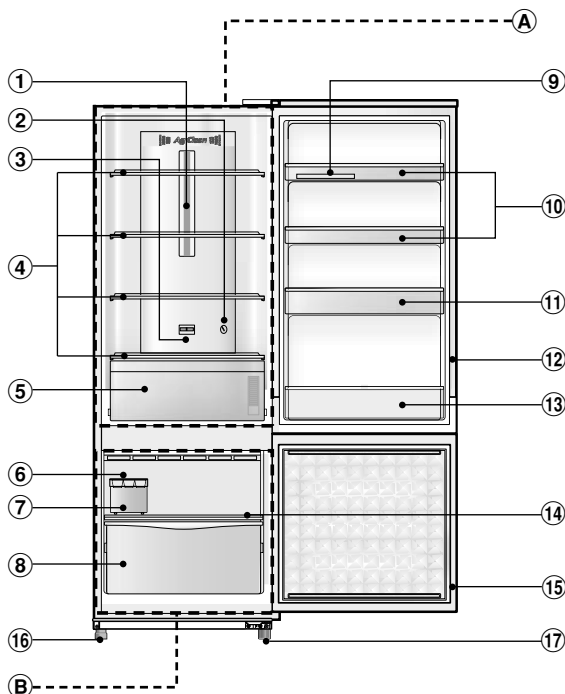


# Parts Identification

## A REFRIGERATOR COMPARTMENT

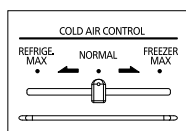
## B FREEZER COMPARTMENT

- 1 LED lamp
- 2 Refrigerator Temperature Control
- 3 Cold Air Control
- 4 Glass tray
- 5 Vegetable case
- 6 Ice tray
- 7 Ice box
- 8 Case FCB
- 9 Egg tray
- 10 Egg shelf
- 11 Free pocket
- 12 Door gasket PC
- 13 Bottle shelf
- 14 Tray FC
- 15 Door gasket FC
- 16 Leg shell
- 17 Adjuster bolt
- 18 Evap pan
- 19 Compressor

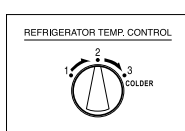


### Control panel (P.10)

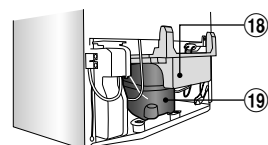
#### COLD AIR CONTROL



#### REFRIGERATOR TEMP. CONTROL



- Settings at time of purchase.
- Do not subject the control panel to a strong impact, or hit it with a hard object.  
(The surface may be cracked or scratched)



Product view from behind

## ■ SPECIAL FEATURE

### ●NON-CFC

This unit uses totally NON-Fロン MATERIALS both for refrigerant (iso-butane (R600a)) and for insulation (Cyclo-Pentane). These materials do not damage the earth's ozone layer and has almost no effect on global warming.

### ●INVERTER

In accordance with temperature change inside the compartment, the compressor will run at different speeds. When the temperature inside the refrigerator is stable, the compressor will run at a lower speed to save energy and lower noise. When powerful cooling is required, the compressor will run at a higher speed.

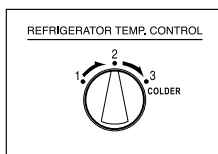
# To use all features

## Control Panel

### ■ Temperature setting and a guide of temperature

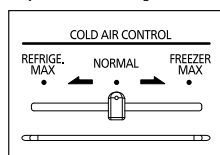
The temperature can be adjusted for 1-3 levels.

Operate the [REFRIGERATOR TEMP. CONTROL] when changing the temperature of refrigerator compartment.



| Button    | TEMP. CONTROL REFRIGERATOR COMPARTMENT     |
|-----------|--|
| "1" (Min) | Higher than "2" by approximately 2°C ~ 3°C |
| "2" (Med) | Approximately 3°C ~ 5°C                    |
| "3" (Max) | Lower than "2" by approximately 2°C ~ 3°C  |

Operate the [COLD AIR CONTROL] by sliding the lever to adjust cold air control.



| Button        | COLD AIR CONTROL                         |
|---------------|--|
| "REFRIGE.MAX" | Refrigerator compartment takes priority. |
| "NORMAL"      | Cold air condition is normal.            |
| "FREEZER MAX" | Freezer compartment takes priority.      |

**Normally, use the refrigerator with the temperature set to "2" and "NORMAL" (Med).**

(If the temperature control of the refrigerator compartment or freezer compartment is set to other than "2" and "NORMAL" (Med), ECONAVI does not operate.)

- The temperature control can vary depending on the environment and amount of food stored in the refrigerator.
- Cold air control lever may become unsmooth after long usage. More force may need to be applied.

## ECONAVI Operation

This model also has ECONAVI mode, but it does not feature ECONAVI lamp and light intensity sensor.

The refrigerator detects the opening and closing of the refrigerator door to automatically control operation to ensure maximum energy saving.\*<sup>1</sup>

### ■ ECONAVI operation

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

### ■ Settings for enabling ECONAVI operation

- ECONAVI operation is automatically enabled when the temperature control for both the refrigerator and freezer compartment is set to "2" and "NORMAL" (Med).
- It is not possible to force to start of the ECONAVI mode.

### Remark

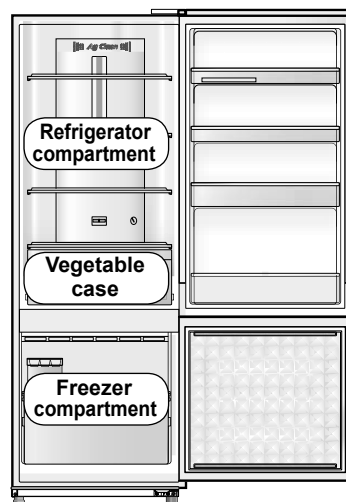
- \*<sup>1</sup> The effectiveness of the ECONAVI mode is depended on the ambient temperature and the number of times the refrigerator door is opened and closed and the state in which food is stored.

## Food Storage

- In order to preserve food quality for long time, please store it in the right place.

### When storing food...

- Foodstuff such as vegetable, fruits and fresh food should be wrapped or pack in box before freezing and refrigerating.
- If you will put high moisture content into refrigerator, should be sealed and wrapped to prevent dew and frost.
- Drinking water, beverage bottles should be sealed to prevent the odour.
- Store fruits and vegetables in vegetable case, where trapped moisture helps preserve food quality for longer time periods.



### Where to store these different foodstuffs?

Approx.

**0°C~5°C**

**Refrigerator compartment**

For regular storage of food and drinks or temporary storage of these to be served soon.



Approx.

**3°C~8°C**

**Vegetable case**

A rather high humidity keep fruits and vegetables fresh and juicy.



Approx.

**-23°C~-18°C**

**Freezer compartment**

For storage of frozen or dried foods.



- When set to "2" (Med), the temperature may vary slightly depending on the usage conditions.

# To use all features

## Using Tips



Basics of energy saving

**Save cool air!**

### Do not stuff food into the compartments.

That may interfere with the cold air flow. Provide sufficient space between foods.



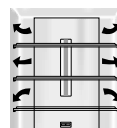
### Store warm food and drinks after they have cooled.

Otherwise, they will not only raise the interior temperature, but also affect the freshness of other foods.



### Do not block the cold air outlet with food items!

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



(Air outlet)

### When condensation occurs.

- The humidity in the vegetable case is high and condensation may occur. Just wipe off the water drops.

### Do not put food in the refrigerator when it is not necessary.

- A cold dark place will suffice!



It is not necessary to store uncut onions, potatoes, etc. in the refrigerator (except during the summer).

- Cool just before you eat!



If uncut tropical fruits are cooled down excessively, they may be discolored or their vitamin contents may decrease.

### Storage using tightly sealed containers is recommended!

To prevent the interior from being discolored!



- Cut citrus fruits  
(→ The plastic will be discolored white.)

To prevent odors from spreading!



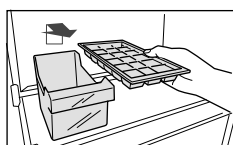
- Garlicky or other strong smelling vegetables  
(→ Odors will spread to other nearby food.)

## Freezer Compartment

### Making ice

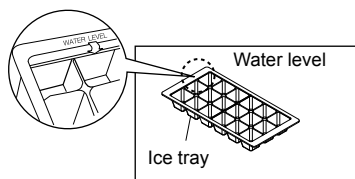
#### 1 Take out the ice tray

Take out the ice tray.



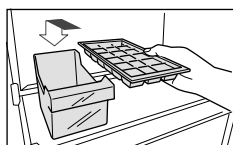
#### 2 Fill with water

Fill water up to the "WATER LEVEL" line.



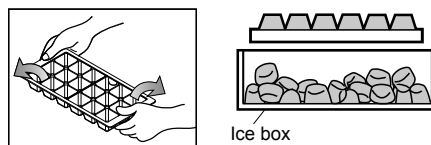
#### 3 Making ice

Place ice tray inside freezer, wait until ice is made.



#### 4 To remove ice cubes

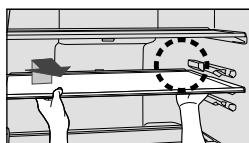
Twist the ice tray in opposite directions. (Pour out the ice cubes into the ice box.)



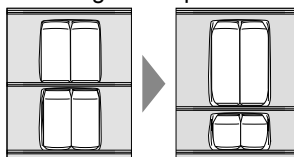
## Refrigerator Compartment

The position of the second tray from the top can be changed.

(1) Lift up the back of the tray and pull it forward.



(2) Insert the tray in the desired position by reversing the steps.



### Requests

- Glass shelves are heavy.  
Please handle them carefully so that they do not fall and cause any damage or injury.

# Cleaning, removing and re-installing

Before cleaning or conducting maintenance, be absolutely sure to disconnect the power plug from the power outlet. Do not connect or disconnect the power plug with wet hands.

When the plug is disconnected, leave it for 5 minutes before plugging again. If not, the compressor may not work.

## Cleaning

### Clean the refrigerator immediately after it is stained!

Wipe off stains on the interior surfaces quickly before they harden. In particular, cooking oil 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.



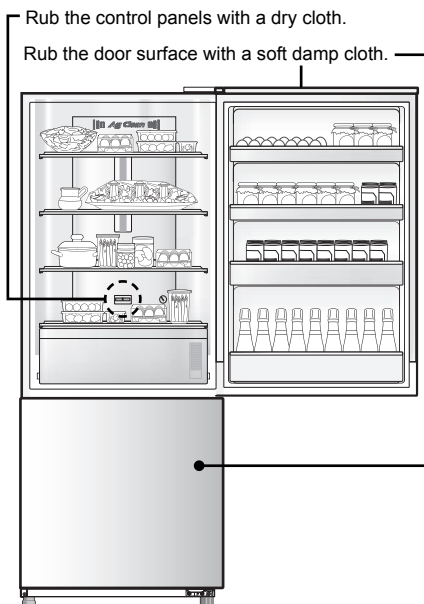
### Clean the detachable items occasionally...

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

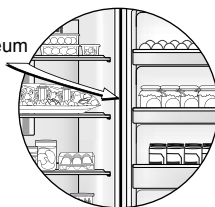


### Clean the door gasket at least once a month.

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



Point where petroleum 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

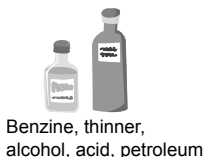
Do not use the following items for cleaning. (Otherwise, the surface will be scratched.)



Kitchen detergents  
(They crack plastic!)



Cleanser or soap  
powder



Benzine, thinner,  
alcohol, acid, petroleum



Scrubber



Hot Water

## Door shelf

Once every 3 months

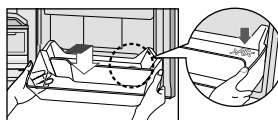
## ■ Removing

Hold the selves at bottom left and right side then slowly lift it up until it is released.



## ■ Attaching

Set each shelf horizontally, with the mark [>PS<] on the right, and push it down until properly locked.



## PC Glass tray

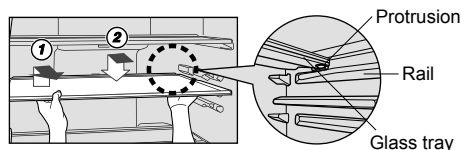
Once every 3 months

## ■ Removing

- 1 Lift up the back of the tray and pull it outward. Once the protrusions of the tray are unhooked from the rails and remove it.

## ■ Attaching

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



## Attention

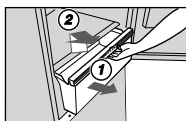
- When removing the tray above the crisper, please pull out the crisper first and then follow to removing the tray as above details.
- In case of attaching the tray and it does not lock, make sure that you did not attach it the wrong tray.
- Trays are made of glass and heavy.  
Please handle them with care so that they do not fall and cause any damage or injury.  
For attaching trays, hold them with the protrusion side down and firmly insert.

## Vegetable case

Once every 3 months

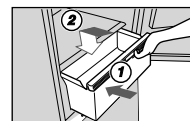
## ■ Removing

- 1 Pull the case unit forward until it reaches the end of the stopper.
- 2 Lift the front of the case unit slightly and remove completely.



## ■ Attaching

- 1 Insert the case unit into the supports.
- 2 Raise the case unit up slightly and push forward until the end is reached.




## Notices

- To keep vegetable and fruit and to maintain its vitamins, please push until it locks property after use or clean the vegetable case.

# Troubleshooting

| In these cases?   | Check here.   |
|---|---|
| The refrigerator does not operate.                                | <ul style="list-style-type: none"> <li>● Check that the plug and wall socket are in good condition.</li> <li>● Check if there is any problem with the mains fuse or house wiring.</li> <li>● Check by unplugging for 5 minutes and plugging back in.</li> </ul>   |
| The refrigerator does not cool enough.                            | <ul style="list-style-type: none"> <li>● Check to be sure that light in control panel is display at proper position (P.10)</li> <li>● Check to ensure that the refrigerator is not overloaded with foodstuffs or that hot food have been placed in the refrigerator.</li> <li>● Is the refrigerator exposed to direct sunlight or a heat source?</li> <li>● Is the refrigerator door completely closed?</li> <li>● Is the refrigerator door opened frequently?</li> </ul>   |
| Vapor generated inside and outside the cabinet / surface of door. | <ul style="list-style-type: none"> <li>● Condensation may appear on the surface of the cabinet when humidity is high or air circulation around the unit is poor.</li> <li>● If there is condensation inside, check if the door is completely closed.</li> <li>● Is the refrigerator frequently opened or left open for a long time?</li> <li>● Have any hot foodstuffs been placed inside the refrigerator?</li> </ul>  |
| The refrigerator generates noise.                                 | <ul style="list-style-type: none"> <li>● Check if the refrigerator is located on a stable, level floor and is installed correctly. Use the adjuster bolt if required to level the refrigerator. (P.8)</li> <li>● Check if there is any object in contact with the refrigerator.</li> <li>● Cracking sound within caused by the parts adjusting temperature which is normal.</li> <li>● After installation, the refrigerator may make loud noise. The noise will be less when the refrigerator has been cooled.</li> </ul> |
| Food becomes frozen   | <ul style="list-style-type: none"> <li>● Was the food placed near the cold air duct?</li> <li>● If the temperature control has been set to "3" (Max) try adjusting the temperature control to the "1" (Min) setting.</li> </ul>   |

# Specifications

| Model No.   |              | NR-BT268  |
|---|--------------|---|
| Freezer Star Rating                               |              |  |
| Capacity (L)<br>Gross/Storage<br>(IEC 62552)      | Total        | 263/221   |
|   | Freezer      | 67/42   |
|   | Refrigerator | 196/179   |
| Outside Dimensions<br>Width x Depth x Height (mm) |              | 550 x 600 x 1580  |
| Refrigerant Type                                  |              | R600a   |
| Net Weight (kg/lb)                                |              | 46/101  |
| Cooling System                                    |              | Non-frost cooling.  |
| Rated Voltage (V)<br>Rated Frequency (Hz)         |              | Refer to the rating label attached at the door or the back of the cabinet.          |

# Panasonic Corporation

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

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