



Operating Instructions 2-Door Direct Cooling Refrigerator (For Business Use)

NR-BQ222VB
NR-BQ252VB
NR-BQ282VB



Features

ECONAVI **INVERTER** * Quick Freeze



Contents

- | | | |
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NON-CFC

This unit uses totally NON-CFC MATERIALS. (Restriction of Hazardous Substances) These both for refrigerant (R600a) and for insulation (Cyclo-Pentane), This refrigerator does not damage the Earth's ozone layer.

RoHS Compliant Product

(Restriction of Hazardous Substances) These are regulations that set maximum concentration limits on hazardous substances in materials used in electronic equipment.

Before using this product, please read these instructions carefully and follow safety precautions.
Please make sure to sign up and register your product in our Customer Service Portal and save this manual for future use.

Specifications

Model No.		NR-BQ222VB	NR-BQ252VB	NR-BQ282VB
Capacity (L) Volume	Total	226	258	284
	Freezer	82		93
	Refrigerator	144	179	191
Net Weight (kg)		34	38	38
Outside Dimensions Width x Depth x Height (mm)		540 x 620 x 1315	540 x 620 x 1465	540 x 620 x 1569
Refrigerant Type		R600a		
Rated Voltage (V), Rated Frequency (Hz)		230 V~, 60 Hz		
Cooling System		Direct Cooling		
Defrosting System		Manual		
Color		Carbon Steel		

Panasonic Manufacturing Philippines Corporation
Website: <http://panasonic.com/ph>

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Safety Precautions



This sign warns of risk of death or serious injury.



This sign warns of injury or damage to property.



This symbol means required actions.



This symbol means prohibited actions.



This symbol means do not disassemble.



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.

For plug and cord..

- Unplug the unit when cleaning the refrigerator.
- Properly plug the unit into a wall outlet with its required voltage.
- Connect the unit to an exclusive wall outlet that is for the refrigerator only.
- Avoid connecting other appliances to the same wall outlet.
- Periodically wipe the dust on the power plug.
- If the power supply cord is damaged, it must be replaced by the manufacturer, its authorized service centers, or similarly qualified persons in order to avoid hazard.
- If you detect burning smell, unplug the unit and ventilate the area.
- Please ensure minimum clearance of 10 cm between back of refrigerator and wall for air ventilation and to prevent damage to the power supply cord.
- When abnormality or failure occurs, stop using the product immediately and unplug the unit.
- Abnormality and failure example: (Risk of smoke / fire / electric shock)
 - Power cord or plug is abnormally hot
 - There is burning smell
 - Power cord is deeply cut or deformed
 - You can feel tingling electricity

For connection..

- Plug your refrigerator into an exclusive wall outlet of 230 V~, 10 A or more.
- Do not plug your refrigerator to an octopus connection.
- Do not plug your refrigerator to an extension cord.
- Do not plug your refrigerator to any loose outlet. Power cord may deteriorate and may cause fire.

When installing the refrigerator..

- Do not install the product in locations exposed to water.
- Leaked refrigerant may cause fire and explosion.

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 touch the compressor or pipes because of high temperature. There is a risk of burn injury.
- Do not spray combustible chemicals near the refrigerator.
- Do not damage the refrigerant circuit (piping on the back). The flammable refrigerant may catch fire and lead to an explosion.



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 operate the refrigerator, avoid using fire and ventilate the room.
- Make sure that the door is facing up to avoid accidental opening of doors when lifting.
- It is recommended to lift it or use rag underneath the unit to avoid it from scratching the floor.

If you will not use the refrigerator for a long period of time..

- Unplug the refrigerator and take out all the food from the refrigerator and freezer compartment.
- Wipe off all the water and open the refrigerator to keep it dry.
- Prevent children from entering the refrigerator.

When opening or closing the doors..

- Do not place items that are bigger than the shelf, the door will not close completely causing cold air to leak out of the refrigerator.
- Do not open the refrigerator frequently or leave it open for a long time to prevent water dripping inside and to prevent wasting energy.
- Mind the gap between the door seal (Gasket). It must be completely closed to the cabinet body..

When storing food..

- Do not freeze glass bottles, that there are risk of injury. (If liquid in a glass bottle is frozen, the bottle will break and may cause injury.)
- Do not overload. Maintain proper spacing of food for good air circulation.
- Do not place warm/hot food inside the refrigerator.
- Allow hot food to cool down before placing inside the refrigerator.
- Do not operate without defrost pan.
- Avoid direct water contact on areas near the Temperature Control Box to protect you from accidental electric shock

In case of emergency..

- Risk of Fire / Flammable Materials
- Maintenance work must only be carried out 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.
- Do not use electrical appliances such as Ion deodorizer/ Humidifier 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 the type recommended by manufacturer.
- Do not disassemble, repair or modify the refrigerator by yourself. If you want to repair the refrigerator, please consult Panasonic Customer Care Center.
- Do not use mechanical devices or other means to accelerate the defrosting process, over than those recommended by the manufacturer.

When recycling the product..

- Before taking the refrigerator to be recycled, please remove all the door gasket to prevent locking a child inside 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 or delivered to a recycling plant.
- Cyclo-Pentane is used for insulation of this refrigerator and flammable gas is used for the refrigerant.
- When disposing off this unit, please dispose it by the proper method, do not burn the unit.

- If you detect a burning smell, disconnect the power plug to stop the operation of the unit.
- If you detect a gas leak from the cooling circuit, ventilate the kitchen.
- If you damage the cooling circuit (piping at the back), ventilate the kitchen and contact your nearest Panasonic Authorized Service Center.
- Refrigerator LED Lamp. If replacement is required, contact the Panasonic Care Center Hotline.



When moving or transporting the refrigerator..

- Food containers must reach the bottom of the door shelves.
- Food must not protrude from every shelf.
- Water and beverages should be sealed to prevent odor contamination.
- Vegetables, fruits and fresh foods should be wrapped or packed in a container before freezing or refrigerating.
- Put foods such as meat or fish in the freezer compartment if you want to store it for a long time.
- Put juicy food in tight lid containers or cover with plastic film or foil.

When cleaning..

- Do not clean the refrigerator with chemical substance or liquid. It will cause damage and corrosion to the metal surface.
- Do not place your hands or feet beneath the bottom of the refrigerator.
- Clean the defrost pan located at back of the unit every three (3) months to prevent odor and growth of unwanted organisms.

Caution..

- If the unit does not run, unplug the unit to reset the PCB program.
- Wait for at least ten(10) minutes before replugging to continue its operation.

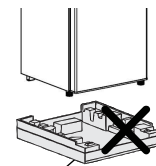
For maintenance and service..

Panasonic Customer Care Center:
SMS (Text only): TYPE Panasonic<space>message and send to 21584703 (Globe/TM)
Contact Number: (02) 8-706-7603; Fax: (02) 8-706-7612
Toll Free: 1800-10-7262782 (PLDT), 1800-82-934357 (Globe)
Email: pmpe_csdci@ph.panasonic.com
Website: <http://www.panasonic.com/ph>

Installation

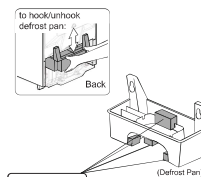


- 1** Remove the bottom pad including all tapes and styrofoams attached inside and outside of the refrigerator.



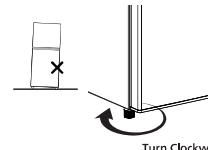
REMOVE

- 2** At the back of your refrigerator, unhook the defrost pan. Remove all styrofoam shock absorbers attached to the defrost pan.



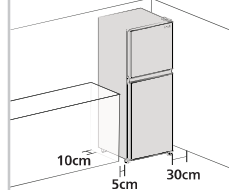
REMOVE

- 3** Level the refrigerator by adjusting the leg shell to stabilize the unit to the ground.



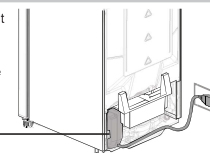
STABILIZE

- 4** Provide adequate space between your unit and the wall for heat dissipation and door opening clearance.



- 5** The grounding connection will prevent any danger caused by electricity leakage.

Grounding Terminal is provided at the back of the unit.



- 6** AFTER INSTALLATION, WAIT 3-5 HOURS BEFORE PLUGGING TO OUTLET.



Once connected, set the temperature control to "HIGH". Allow the unit to cool for 2 hours before storing food.

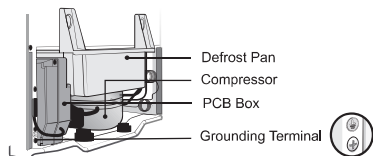
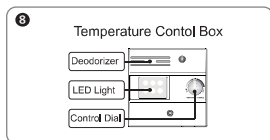
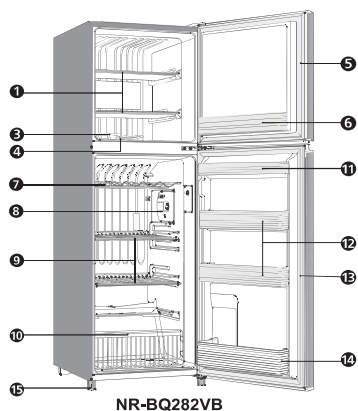
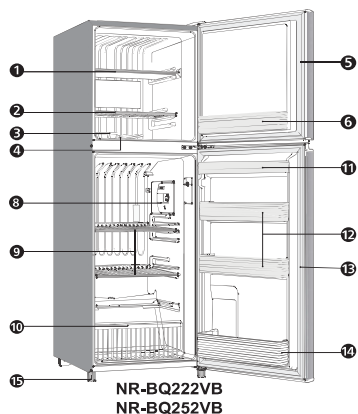
Area around where the refrigerator is installed

- Place the unit on sturdy and flat floor.
- Do not place your unit near any source of moisture like faucets and sinks.
- Do not place your refrigerator in a humid place as rust may form and may cause electric shock.
- Do not place your refrigerator near any source of heat like gas range, gas stove, and direct sunlight to avoid weak performance of the unit.
- Do not block door openings under any conditions.
- The refrigerator must be located in a place with good air circulation.
- In case of placing the refrigerator on an uneven surface, adjust the built-in adjustable leg shell to make the unit stable.

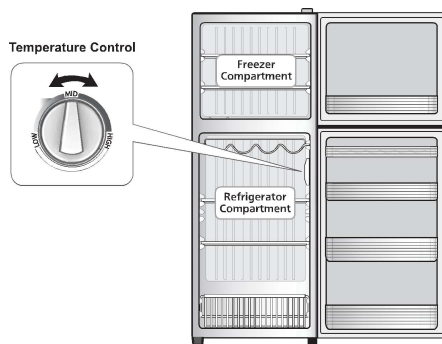
Moving or shifting

- When moving or shifting the refrigerator, remove the accessories inside and make sure there is no water inside the unit.

Parts Identification



General Operation



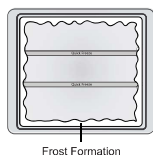
Temperature Control

Use to vary the temperature at the Refrigerator Compartment.



- LOW (Min)** For storing minimal amount of food
MID (Normal) For storing moderate amount of food
HIGH (Max) For storing large amount of food

Note: • If the refrigerator is kept in a hot place and not operating (unplugged), it may not get cold immediately when you first use it. This matter may last for few days until the insulation temperature stabilizes.



Defrosting

Check for frost formation in the Freezer Compartment. If the Frost formation is more than 10mm, defrost the refrigerator. This is to ensure better ice making performance



Manual Defrost

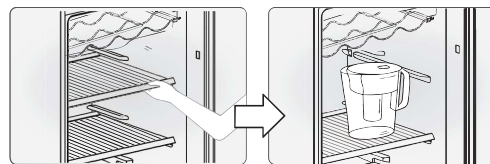
- To start defrost** Turn the temperature control to lowest setting "LOW" then unplug the unit.
To end defrost Plug your fridge and adjust temperature to desired level. After this, fridge will resume normal cooling operation.

Note: • Defrost water will flow into the Defrost Pan, located at the back of the unit; water will evaporate during normal cooling operation.
 • Unit does not have defrost heater or mechanisms to speed up defrosting.
 • After defrosting, normal cooling operation will resume after 10 minutes.

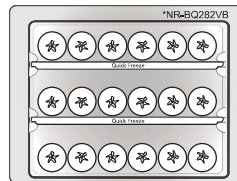
**See full defrosting guide on the Maintenance section of this manual.

Usage and Customization

WIRE SHELVES

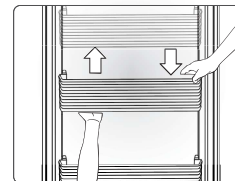


QUICK FREEZE

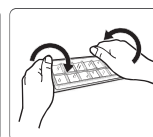
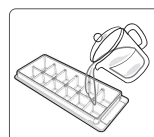


For faster ice production, position ice bags on the Quick Freeze Shelves and on the bottom of the freezer.

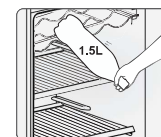
FREE SHELF



ICE TRAY



BOTTLE RACK



Storage Guide

- Freezer Compartment** Storing food for extended period of time. For storage of ice bags and frozen food.
- Refrigerator Compartment** For regular storage of foods and drinks or any food for temporary storage.

When set to "MID", the temperature may vary slightly depending in usage and storage conditions.

- Provide sufficient space when storing food items in the Refrigerator Compartment for good temperature result.
- Do not store hot food items inside, be sure to cool them down first.
- Wrap or cover foul smelling foods to prevent bad odor.
- Do not store bottled or canned drinks in the Freezer Compartment to prevent bursting.
- Do not keep refrigerator door open for long period of time.
- This refrigerator is equipped with a "Hot Pipe Moisture Eliminator" located at the front and side portion of the cabinet to prevent moisture at the surfaces. It is normal to feel warm when touched.

Special Features



The motor will run in accordance with the temperature change inside the compartment. When required temperature is attained, the motor will run at a lower speed to save energy and lower noise.

ECONAVI

Learns the lifestyle patterns of your family from door opening and time period of infrequent use to maximize energy efficiency.

To enable: Set the temperature setting to "MID"

Maintenance

1 Unplug the Unit



Before cleaning or conducting maintenance, make sure that the unit is disconnected from power supply.
 Do not connect or disconnect the power plug with wet hands.
 When disconnected to the power supply, wait for 10 minutes before plugging back in. If not, the compressor may not work.

2 Remove the Accessories

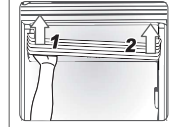


Clean the parts and accessories regularly to remove accumulated dirt and food residue. Lubricant is applied on the door gaskets to reduce friction and ease of use. (Be careful not to wipe it off)

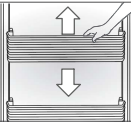
Clean your refrigerator every 2-3 months to avoid build-up of dirt and food residue.

How to Remove Accessories:

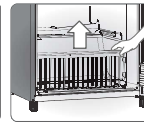
Free Shelf / Egg Shelf



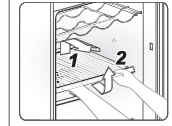
Bottle Shelf



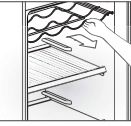
Wire Guard



Wire Shelf



Bottle Rack



CAUTION

Remove contents of refrigerator before removing accessories, shelves and Wire Guard.

Defrosting

Defrosting is necessary when the ice formation reaches the thickness of 10mm.

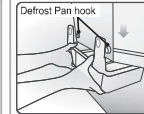
Note: Excessive ice formation on the freezer compartment reduces your unit's cooling efficiency.

- Do not use any sharp objects (knife, fork) when removing ice formation or food residue in the Freezer Compartment to avoid puncturing the inner liner and evaporator.

Defrosting Guide:

1. Start defrost. (See details on how to start defrost on General Operation section of this manual)
2. Leave the refrigerator and freezer door open to accelerate defrost time (optional). Use ice scraper provided to remove large amount of ice formation.
3. Remove all contents and accessories of the refrigerator and wipe inner walls with damp soft cloth.
4. When ice has melted, end defrost. (See details on General Operation section of this manual)
5. Wait 10 minutes for refrigerator to resume normal cooling operation.

Defrost Pan

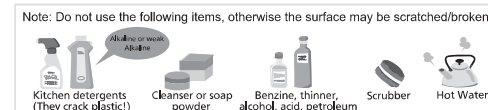


3 Wipe with cloth and water



Wipe off the stains and dirt with lukewarm water. Use a soft cloth or microfiber cloth to avoid making scratches on the surface of the parts.

Lubricant wax is applied on the Door Gasket to lessen friction on refrigerator body. Be careful not to remove it by wiping gently.



Note: Do not use the following items, otherwise the surface may be scratched/broken.

Parts and Accessories

- 1 Quick Freeze Shelf (1pc for BQ222VB and BQ252VB) (2pcs for BQ282VB)
- 2 Wire Shelf FC* (1pc.)
- 3 Ice Tray*
- 4 Ice Scraper*
- 5 Door Gasket FC
- 6 Free Shelf FC*
- 7 Bottle Rack*
- 8 Temperature Control Box
- 9 Wire Shelf PC* (2pcs)
- 10 Wire Guard*
- 11 Egg Shelf*
- 12 Free Shelf* (2pcs) (1pc for BQ222VB)
- 13 Door Gasket PC
- 14 Bottle Shelf*
- 15 Adjustable Leg Shell

(*) - Accessories