



GE Refrigerator

PTU427SAMR PTQ440SAMR

PTU463SAMR PTQ470SAMR

PTU527SAMR PTQ530SAMR

PTU565SAMR PTQ570SAMR

PTG440SAMR PTV440SAMR

PTG470SAMR PTV470SAMR

PTG530SAMR PTV530SAMR

PTG570SAMR PTV570SAMR

PTV15SAMR

PTV16SAMR

PTV19SAMR

PTV20SAMR





OPERATING MANUAL

REFRIGERATOR



SAFETY PRECAUTION2



PARTS AND FUNCTIONS4



INSTALLATION.....6
Environment
Mounting of accessories



OPERATING INSTRUCTIONS...8
First using the refrigerator
Storage of food
Use of ice tray
Temperature adjustment



DEODORIZER11



MAINTENANCE.....12

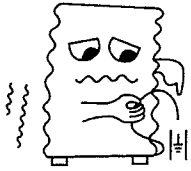


TROUBLESHOOTING.....13

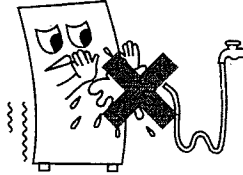
- MODEL: PTU427SAMR PTQ440SAMR
 PTU463SAMR PTQ470SAMR
 PTU527SAMR PTQ530SAMR
 PTU565SAMR PTQ570SAMR
 PTG440SAMR PTV440SAMR
 PTG470SAMR PTV470SAMR
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 PTV16SAMR
 PTV19SAMR
 PTV20SAMR



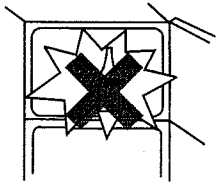
Safety Precautions



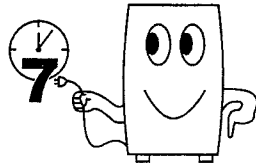
- Keep the refrigerator properly earthed to prevent hazardous power leakage.



- Do not wash either inside or outside the refrigerator with running water as this may cause rusting and damage electrical elements of the refrigerator.



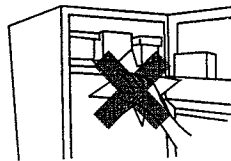
- Do not place glass bottles in the freezer as they will expand and burst.



- After removing the plug, wait 7 minutes before plugging it again to prevent an excessive load on the compressor that may jeopardize the service life of the refrigerator.

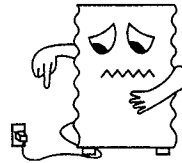


- Do not insert fingers or any objects into the back of refrigerator.



- To prevent injury, do not touch the freezer or frozen food with wet hands.

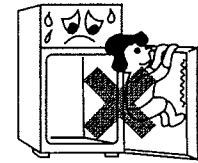
Safety Precautions



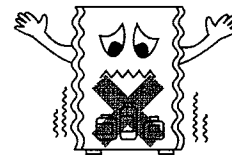
- Keep the power cord away from elements and ensure the refrigerator or other heavy objects are not placed on the cord to avoid leakage or arcing.
- For safety reasons, keep the door closed.
- When the refrigerator is not in use for a long period of time (overseas trips), remove the power plug.
- If the supply cord of this appliance is damaged, it must only be replaced by a repair shop appointed by the manufacturer, because special purpose tools are required.



- Solvents, insecticides and other inflammable items should not be used for cleaning the refrigerator as they could cause a fire.



- Keep children from playing on the refrigerator to avoid injury and damage.



- Do not put toluene, alcohol, gasoline or other volatile items in the refrigerator as they may explode.



- Do not keep anything on top of the refrigerator as the movement produced by opening and closing the door may cause the item to fall down.

WARNING:

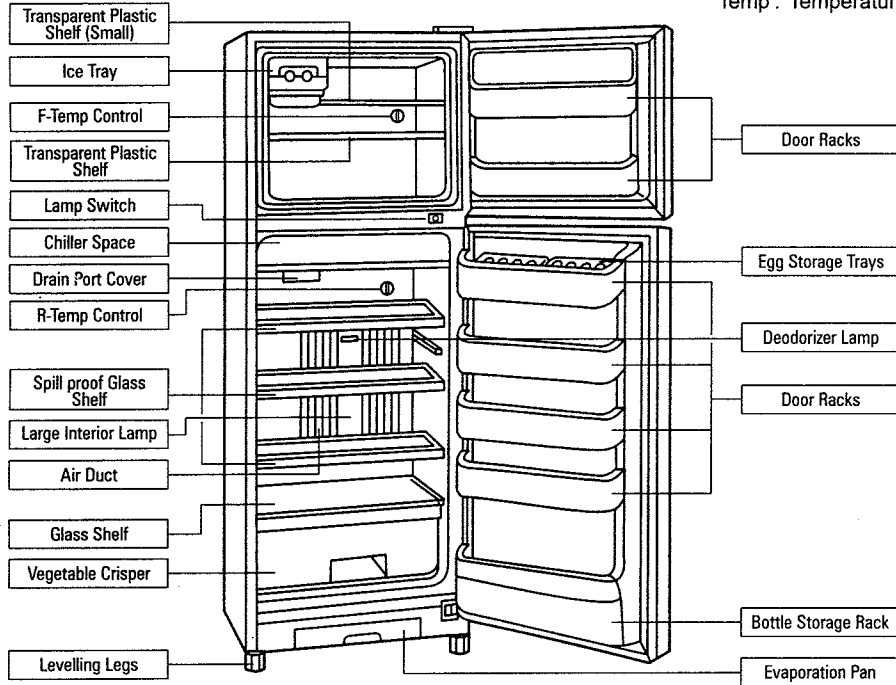
- The appliance is not intended for use by young children or infirm persons without supervision.
- Young children should be supervised to ensure that they do not play with the appliance.



Parts and Functions

15 / 16
427 / 463
440 / 470 series

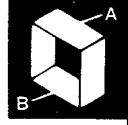
F : Freezer
R : Refrigerator
Temp : Temperature



Note: Because of ice expansion, containers with water become deformed in the freezer.

Features:

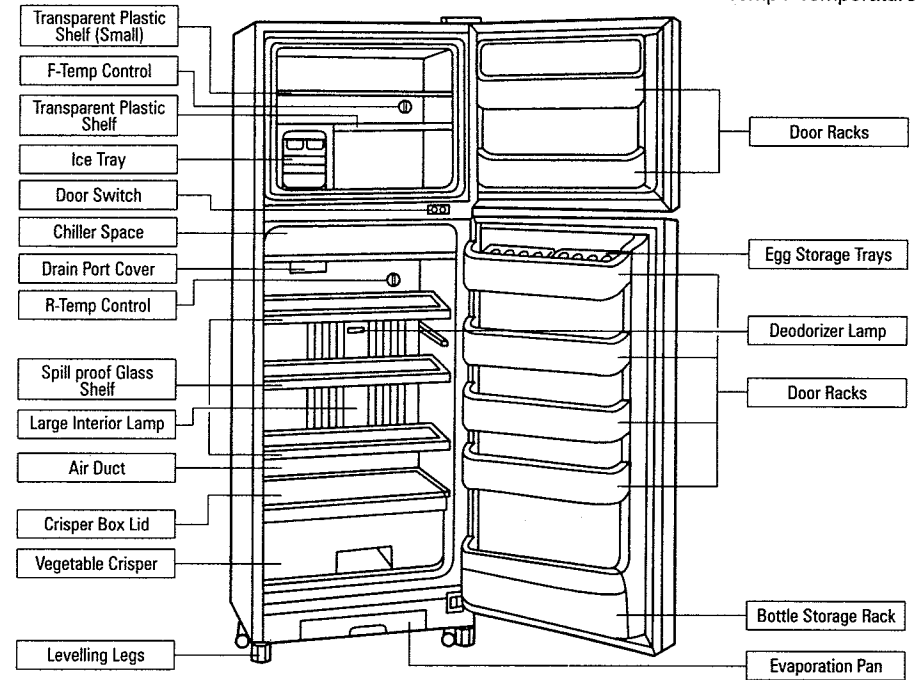
- Ice Tray : Stores 1kg of ice cubes.
- Chiller Space : The fish and meats which will be cooked within 2 days can be stored here, no thawing is required.
- Evaporation Pan : Water discharged from the refrigerator is evaporated here.
- Door Racks (F) : Short-term storage of frozen food.
- Egg Storage Trays : Can store 16 eggs.
- Door Racks (R) : Short-term storage of refrigerated food.
- Bottle Storage Rack : Can store up to 5 bottles.
- Levelling Legs : For regulating the level of the refrigerator.



Parts and Functions

19 / 20
527 / 565
530 / 570 series

F : Freezer
R : Refrigerator
Temp : Temperature



Note: Because of ice expansion, containers with water become deformed in the freezer.

Features:

- Ice Tray : Stores 1kg of ice cubes.
- Chiller Space : The fish and meats which will be cooked within 2 days can be stored here, no thawing is required.
- Evaporation Pan : Water discharged from the refrigerator is evaporated here.
- Door Racks (F) : Short-term storage of frozen food.
- Egg Storage Trays : Can store 20 eggs.
- Door Racks (R) : Short-term storage of refrigerated food.
- Bottle Storage Rack : Can store up to 5 bottles.
- Levelling Legs : For regulating the level of the refrigerator.

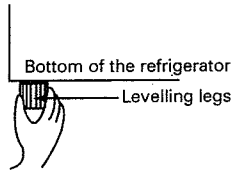


Installation

Environment

Level Ground

- Position the refrigerator on level ground by regulating the casters to avoid undue noise.



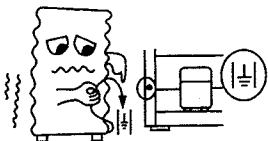
Humidity

- Keep the refrigerator away from steam or moisture, to avoid condensation that may cause parts failure.



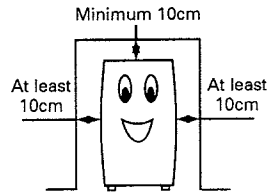
Properly Grounded

- The refrigerator should be properly grounded when placed in a humid place or basement.
- Grounding:
 1. The refrigerator should be grounded via the rear right screw of the refrigerator.
 2. Do not ground the refrigerator with the following things: (1) Running water pipe (2) Gas pipe (3) Telephone line or thunder rod.



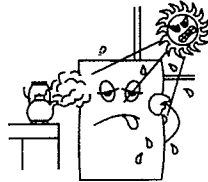
Ventilation

- Keep the refrigerator properly spaced to allow ventilation and to save energy.
- Leave at least 10cm at the back and at both sides from the wall.



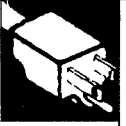
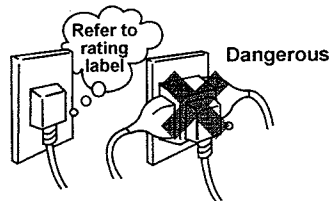
Keep Away from Sunlight & Heat

- Keep away from direct sunlight and heat producing units to avoid uneven coolness and higher consumption of energy.



Power Outlets

- The refrigerator must be plugged into an exclusive outlet with voltage and frequency same as those stated on the refrigerator.
- Do not use common outlets to avoid overheating.
- Do not use an extension cord.

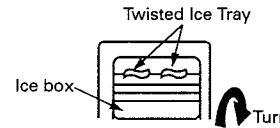


Installation

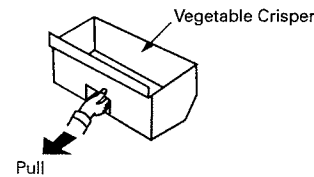
Mounting of Accessories

Ice-Maker Kit

- Turn the twisted ice tray clockwise to have ice cubes fall into the ice box.

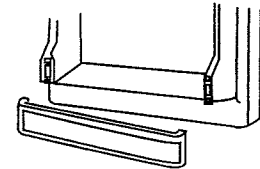


Vegetable Crisper



Bottle Storage Rack

- Mounting
Press the door racks, bottle rack slightly into their places on its door liner. Make sure it is tightly fixed before putting things inside.
- Dismounting
Push the door racks, bottle rack up with thumbs and slide them out.





Operating Instructions

● First Using the Refrigerator

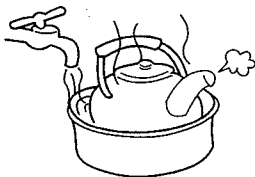
1. When you first open the door, there will be a strong odor. This is normal and will disappear in time.
2. Let the refrigerator run for 1½ hours before placing food in it for optimal coolness.
3. External mullions are heated to prevent condensation. The temperature outside is not harmful to the food inside.

Storage of Food

- Use only sealed containers, plastic bags or cling wrap to store food to keep it from becoming dry, dehydrated or smelly.
- For long-term storage of fish and meat, use sealed cling wrap.



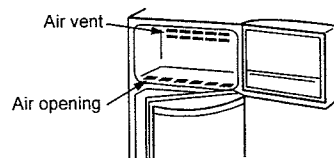
- Don't put hot food in the refrigerator.
- Use only covered & sealed containers to maintain freshness and save energy.



- Do not overfill the refrigerator, poor circulation of cold air.



- Keep food away from air vent and opening.
- Do not keep the doors open for long periods of time, hot air from outside wastes energy.



- Avoid dropping the glass shelves as the glass may break and causes injury.

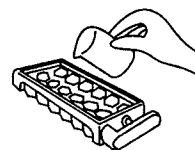


Operating Instructions

Use of Ice Tray

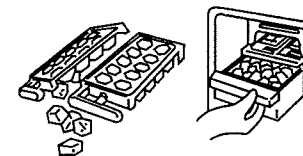
Ice-Making

- Add water to the ice tray.
- It takes 2~3 hours to make ice.
- Do not fill over the division panel to avoid ice cubes sticking together.



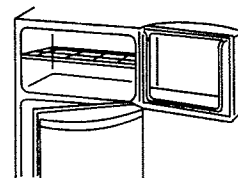
Removal of Ice Cubes

- Turn the handle to the right and twist it slightly to make the ice cubes drop into the box. If not successful, repeat the twist 2~3 times.
- Do not run the plastic ice tray under water to remove the ice cubes.



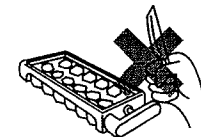
When Ice Tray Is Not In Use

- Remove the ice tray kit for more space in the freezer.



▲ Caution

- Do not use a knife on the ice tray to take out ice cubes.
- Do not make ice cubes in the ice box as it may break.
- Do not keep butter and other greasy food in the ice box.
- Handle the ice box carefully.
- Wrap odorous food before storing in the freezer.



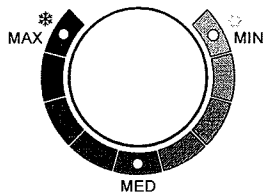


Operating Instructions

Temperature Adjustment

- This refrigerator comes with a thermostat to adjust the temperature in the refrigerator to an appropriate level.
- The temperature in the refrigerator is linked to the freezer and goes down when the thermostat in the freezer is set at MAX, and up when the thermostat in the freezer is set at MIN.

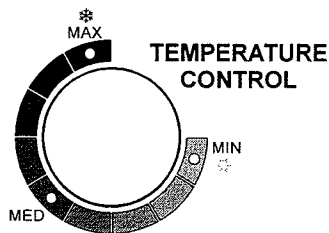
Temperature adjustment in the freezer



TEMPERATURE CONTROL

Adjustment	When to adjust
MAX	Fast freezing or more food
MED	Regular
MIN	No frozen food or ice cream

Temperature adjustment in the refrigerator



TEMPERATURE CONTROL

Adjustment	When to adjust
MAX	Refrigerator is not cold enough
MED	Regular
MIN	Refrigerator too cold

Deodorizer



Deodorization with platinum

1. This material is used for Deodorization and defrosting because of its high temperature acidification to get rid of odors in the refrigerator.
2. This is a platinum-based catalyst deodorant evenly coated on the quartz tube. It is a highly active and adhesive metal.
3. In the refrigerator, the odor passes by the deodorant catalyst and is attracted by the deodorant coated on the quartz tube.
4. When defrosting, the 250°C-heat produced in the quartz tube dissolves the acidified odor and purifies the cold air in the refrigerator.
5. After defrosting, the clean and odor-free cold air refrigerates the food. At the next defrosting, it carries out Deodorization and this process is repeated.

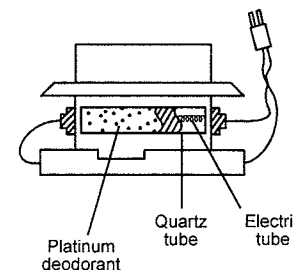
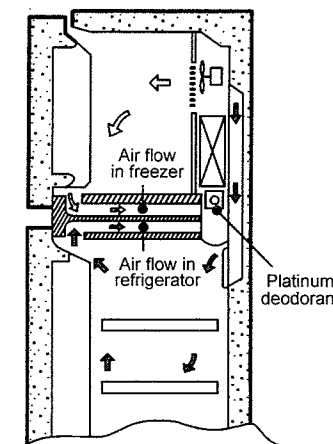


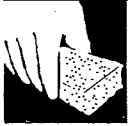
Diagram of defrosting heater

Application of platinum as deodorant

1. A fan is used in the frost-free refrigerator for refrigeration.
2. The Platinum deodorizer is installed beneath the cooler at the cold air outlet that cools the freezer compartment. Because the refrigerator is a sealed cabinet, the rotating cool air is forced to rotate by the fan and cause odor to pass through the deodorizer.
3. When not defrosting, the deodorant is highly activated and odor is absorbed.
4. After running for a while and during the defrosting stage, the heat produced by the defrosting heater that goes through the quartz tube to the deodorant on the surface at over 250°C, causes odor to attach to the deodorizer where it is acidified into pure gas, free of odor.
5. At the end of defrosting, the fan resumes work and the high temperature does not go down. The acidified gas causes the deodorant to continue to absorb odor.



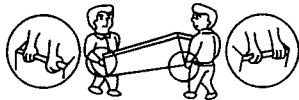
⇒ Air flow in freezer
⇒ Air flow in refrigerator



Maintenance

Moving the Refrigerator

- Remove the power plug and the contents of the refrigerator.
- Keep the refrigerator vertical when moving to avoid damaging the compressor.
- For short trips, one person should hold the bottom and another the rear.
- For long trips, clean the refrigerator first, and fix the evaporation pan, accessories, and doors with tape.



Replacement of Refrigerator Lamp

- For replacement of the refrigerator lamp, contact the service center or do it yourself.
- Specification of the lamp: 220~240V/15W.

External Door

- Clean the door with a damp cloth regularly, do not wash directly with water.
- Do not use toluene, brushes, chemical rags as they may be harmful to the paint and elements.
- For better cleaning results, stainless steel cleaner should be used on the door surface. However, it is advised to test the cleaner on an inconspicuous part (side or corner) of the door before cleaning the whole door.

Freezer, Refrigerator & Accessories

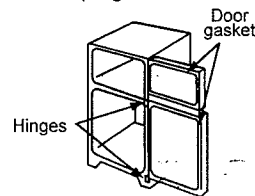
- Clean them monthly; before cleaning, remove food and disconnect the power plug.

Power Suspension

- In case of power outage, close the door; food in the freezer and the refrigerator should remain intact for 2~3 and 1~2 hours respectively.
- In case of long term power stoppage:
 1. Do not keep food in the refrigerator.
 2. Make ice cubes before blackout and keep them in containers to store in the freezer to maintain cold temperature.
 3. Before the power stoppage, turn the temperature of the refrigerator to MAX to keep it cool.
 4. Upon resumption of power, turn the thermostat in the refrigerator back to normal.

Discarding the Refrigerator

- To keep children from being trapped in the refrigerator:
 1. Remove or destroy the hinges.
 2. Remove the door gasket.
 3. Do not dump it where there are children playing. Destroy the cabinet before dumping it.



Walls

- The condensers are inside the walls; for optimal efficiency, keep the walls clean.

Evaporation Pan

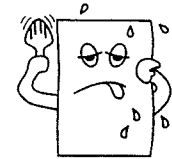
- The evaporation pan is located at the bottom; clean it 1 or 2 times a month to remove odor.

Troubleshooting



Poor Cooling

- Is the refrigerator located in a hot place?
- Is there too much food which compromises air flow?
- Was hot food placed in the refrigerator?
- Is the thermostat on MIN?



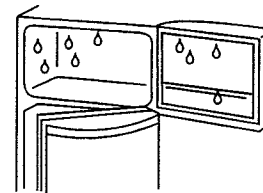
Condensation Outside the Refrigerator

- In case of high room temperature, condensation may be produced outside the refrigerator. This is normal.



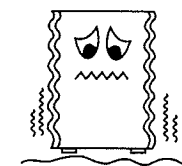
Condensation in the Refrigerator

- Is the door closed properly?
- Has the door been open for a long period of time?
- Has hot or moist food been placed in the refrigerator?



Noise

- Is the refrigerator on hard ground?
- Is the refrigerator properly spaced?
- Is the evaporation pan properly placed?
- Coolant in the compressor makes a noise but this is normal.

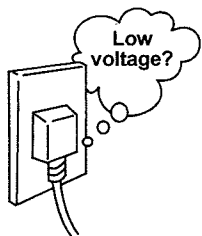




Troubleshooting

Not Cold At All

- Has there been a power failure?
- Is the non-fuse switch off? Is the fuse broken?
- Is the power plug of the refrigerator loose?
- Is the voltage low? Contact the power company if it is below 198V.



The following is normal

Pans kept in frost-free refrigerators break or are deformed

- Freezing in a direct cold refrigerator begins in the bottom of the container and the surface bulges; in case of a frost-free refrigerator, the process begins in the perimeter (from the outside in). When the water inside freezes, it expands and the container will break.

Water spills from the evaporation pan

- When a refrigerator is kept in an area with poor ventilation, moisture is not evaporated. Position the refrigerator for proper ventilation.

Water drips on the inside wall

- In case of frequent opening, hot air in the refrigerator builds up water on the walls.

Warm front end and both sides of the case

- Condensation used to be removed with a built in electric heating wire. To save energy, modern refrigeration systems come with a condensation-free heating pipe and the temperature is kept under 45°C. It causes the front and on both sides of the case to heat up.

MEMO