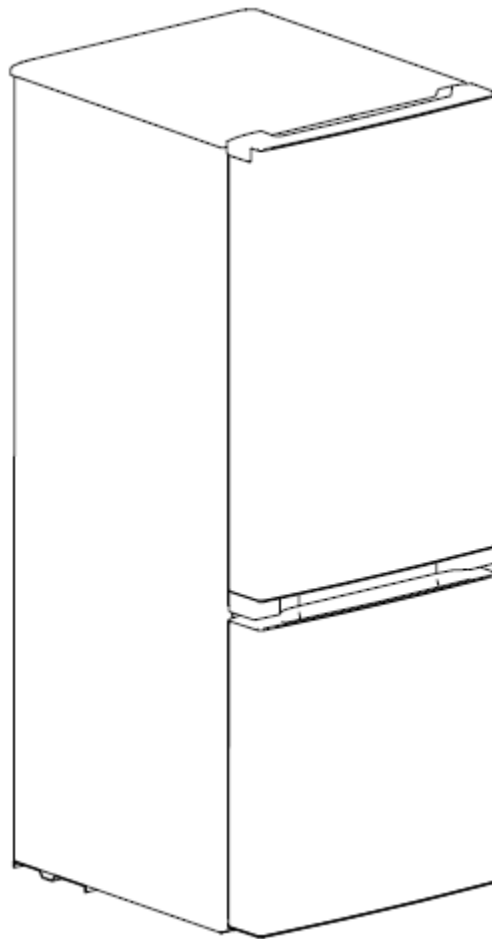


# ZANUSSI

## Refrigerator User Manual



**Model No.: ZS145BM**

**\*Before operating the appliance, please read this manual and all the safety instructions thoroughly and retain it for future reference.**

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# **SAFETY INSTRUCTION**

## **IMPORTANT SAFETY INSTRUCTIONS – READ CAREFULLY AND KEEP FOR FUTURE REFERENCE**




1. To avoid electric shock, fire or injury, please read and comply with the user manual carefully before using the appliance and keep it for future reference.
2. This appliance is for household use only. Please use suitable power source. (Please refer to SPECIFICATION)
3. Never immerse the appliance in water or other liquids.
4. Do not use the appliance under direct sunshine.
5. Please turn off the appliance when not in use otherwise it may result in danger.
6. Keep the appliance away from children.
7. With any indication of damage or malfunction, please stop using the appliance immediately to avoid hazards. Contact the authorized service center for repair. Do not attempt to repair or change any parts by yourself.
8. Clean the surface of the appliance with a dry cloth. Do not use corrosive detergent or solvent to clean. Do not swash the appliance with water. (Please refer to MAINTENANCE INSTRUCTION)
9. Please turn off and unplug the appliance when not in use. Make sure the power is off before pulling out the plug and do not pull the cord.
10. When the appliance is not in use for a prolonged period, please turn it off, unplug it, pack it well, and store it in dry cool place.
11. Forbid to put flammable and explosive objects around the appliance, and do not use the appliance in an environment full of flammable gas and powder. Keep away from any fire and heat sources.
12. Please install a ground wire to prevent hazard of possible electric shock when electricity leaks.
13. Do not splash the refrigerator with water directly to prevent rusting, damage or leakage of electricity due to water immersion.
14. Never put any drink such as beer, soda, and etc. held in glass bottles in the freezer compartment as the glass bottles may crack or explode due to cubical expansion of frozen water.
15. Do not touch the high-temperature components at the back of the refrigerator with bare hands to prevent possible hazards. (Normal temperature of the compressor may reach 80°C)
16. Do not touch the walls of the freezer compartment or frozen food with bare hands to prevent frostbite.
17. Do not use highly combustible objects such as solvents and pesticides in adjacent to the refrigerator to prevent fire.
18. Never put highly volatile objects such as lacquer thinner, toluene, alcohol, gasoline and etc. into the refrigerator to prevent hazard of fire and explosion.
19. Do not let the power cord of the refrigerator touch any high-temperature objects at the back of the refrigerator or be pressed by the adjustable feet at the bottom to prevent hazard of electricity leakage or fire. Doors of the refrigerator must be closed tightly in use to ensure safety.
20. The more foodstuffs is put in the refrigerator or the more frequent and the longer the doors are opened, the more electric consumption will be, which may eventually lead to malfunction.
21. Open the doors as less as possible during power supply breakdown.
22. The refrigerator must be plugged into a specific socket for 220-240V with no less than 10A. Do not use any adapter or extension cord.

## NOTICE

- Contact the authorized service technician for repair or maintenance of the appliance.
- The 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.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid hazards.
- Please turn off and unplug the appliance before cleaning or maintenance.

## WARNING

- Keep the ventilation openings in the appliance enclosure or the built-in structure clear of obstruction.
- Do not use mechanical devices or other means to accelerate the defrosting process.
- Do not damage the refrigerant circuit.
- 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 store explosive substances such as aerosol cans with a flammable propellant in this appliance.
- Please abandon the refrigerator with flammable blowing gas and refrigerant according to local regulations.
- 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.

	This symbol indicates prohibited matters, and those behaviors that are forbidden. Non-compliance with the instructions may result in product damages or endanger the personal safety of the users.
	This symbol indicates matters that must be followed, and those behaviors must be strictly executed in line with the operation requirements. Non-compliance with the instructions may result in product damages or endanger the personal safety of the users.
	This symbol indicates matters to pay attention to, and these behaviors shall be specially noted. Due precautions are needed or minor or moderate injuries or damages of the product might be caused.

## NOTICE

Refrigerant (R600a) is flammable. The refrigerant is sealed in the refrigeration system and it will not leak by normal use. In case of the refrigeration system was damaged, do not use electric items (include electrical products) or fire equipment nearby, and open all windows to provide good ventilation. Please also contact our service center.



Caution: risk of fire

## **Electricity related warnings**



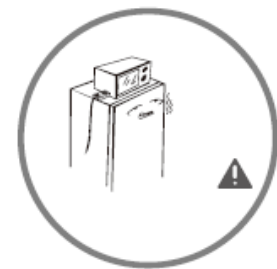
- Do not pull the power cord when pulling the power plug of the refrigerator. Please grasp the plug and pull it out from the socket directly.
- Do not use the appliance when the power cord is damaged or the plug is worn.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid hazards.



- Please use a dedicated power socket and the power socket shall not be shared with other electrical appliances.
- The power cord should be firmly contacted with the socket or fires might be caused. Please ensure that the grounding electrode of the power socket is equipped with a reliable grounding line.

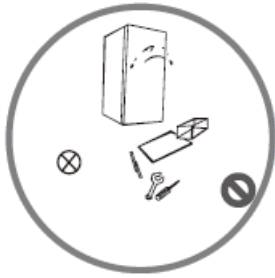


- The refrigerator adopts 220-240V~/50Hz AC power; voltage fluctuations over the range of 240V will cause malfunction or even damages.
- Please turn off the valve of the leaking gas and then open the doors and windows in case of leakage of gas and other flammable gases. Do not unplug the refrigerator and other electrical appliances considering that spark may cause fire.



- To ensure safety, it is not recommended to place regulators, rice cookers, microwave ovens or other appliances on the top of the refrigerator.

## **Related warnings for use**



- Unauthorized demolition or renovation of the refrigerator is prohibited. It is forbidden to damage the refrigerant lines and repair of the refrigerator must be carried out by professionals.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid hazards.



- The surrounding of the appliances or the embedded structure shall not be obstructed to maintain good ventilation.
- The gaps between refrigerator doors and between doors and refrigerator body are small, please do not put your hand in these areas to prevent squeezing your fingers. Please be gentle when closing the refrigerator doors to avoid any objects falling.



- Do not allow children to enter or climb the refrigerator to prevent the danger of any child from being trapped in the refrigerator or any injuries caused by the falling refrigerator.
- Do not spray or wash the refrigerator.
- Do not put the refrigerator in moist places where it will be splashed with water easily so as not to affect the electrical insulation properties of the refrigerator.



- Do not place any heavy or fragile objects on the top of the refrigerator as the objects may fall when closing the doors and cause accidental injuries.
- Please pull off the plug when power failure or before cleaning.
- The plug should not be plugged into the socket again till 7 minutes have passed from unplugging the refrigerator otherwise the compressor will be overloaded and will not operate immediately. The service life of the refrigerator will also be affected.
- It is better not to place heavy pointed or corrosive objects on the refrigerator.

## **Warnings related to placing items**



- Do not put flammable, explosive, volatile and highly corrosive items in the refrigerator to prevent damages to the product or fire.
- Do not place flammable items near the refrigerator to avoid fire.



- This product is for household use only and shall be only suitable for the storage of foods. It shall not be used for other purposes, such as storage of blood, drugs or biological products.
- Do not store or place dry ice in the refrigerator.



- Do not place items such as bottled or sealed container of fluid such as bottled beers and beverages in the freezer compartment to prevent bursts and other losses.

## **Warnings related to disposal**



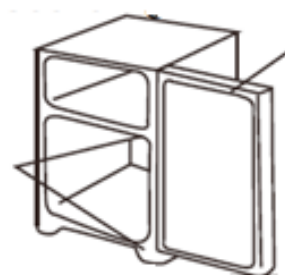
The refrigerator's R600a refrigerant and cyclopentane foam materials are combustible materials and discarded refrigerators should be isolated from fire sources and cannot be burned. Please transfer the refrigerator to qualified professional recycling companies for processing to avoid damages to the environment or other hazards.

## **When disposing the refrigerator:**

Please pay attention to the following items:

- Detach or destroy the bearing of the doors of the refrigerator to keep the doors from being tightly closed.
- Detach the door gasket to keep the door from being tightly closed.
- Never leave the refrigerator discarded to any child for playing; beat and depress the body of refrigerator to keep any child from entering the refrigerator prior to discarding to prevent the danger of any child from being trapped in the refrigerator.
- Follow the instructions of your local regulations when disposing.

Bearing



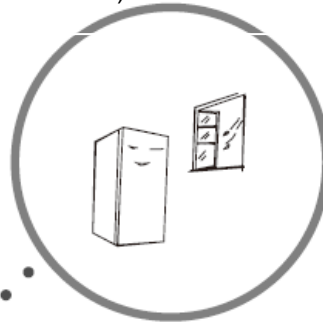
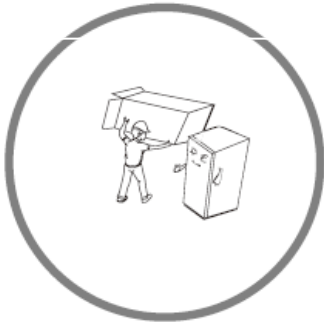
Door gasket

# INSTALLATION INSTRUCTION

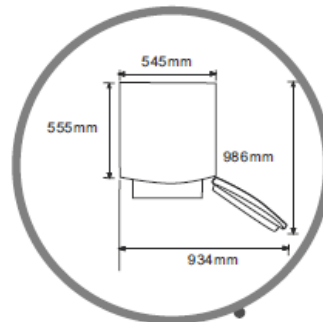
Before using the refrigerator, remove all packaging materials including bottom cushions, foam pads and tapes inside the refrigerator, tear off the protective film on the door and the refrigerator body.

The refrigerator should be placed in a well-ventilated indoor place; the ground shall be flat and stable (rotate left or right to adjust the wheel for leveling if unstable).

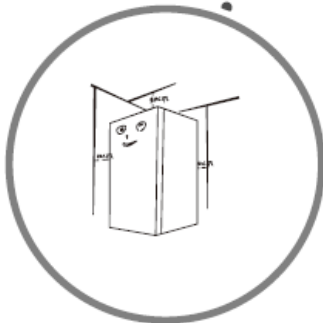
## Placement



Keep away from heat and avoid direct sunlight. Do not place the refrigerator in moist or watery places to prevent rust or reduction of insulating effect.

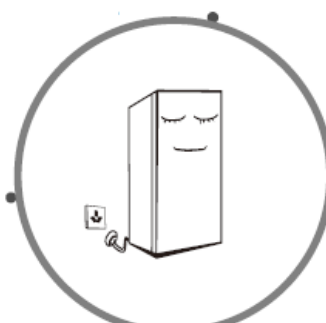


Please leave enough space to ensure feasible opening and drawer removal. Dimensions shown are for reference only.



## Start

The top space of the refrigerator shall be greater than 30cm, and the distances from both sides and backside shall be more than 10 cm to facilitate the opening and closing and heat dissipation. Wipe the refrigerator inside and outside with a dry cloth.



The refrigerator shall stay for half an hour before connecting 220-240V~/50Hz power when it is firstly started. The refrigerator shall run 2 to 3 hours before loading fresh or frozen foods; the refrigerator shall run for more than 4 hours in summer in advance considering that the ambient temperature is high.



## **Installing and removing the accessories**

- To remove the shelf: Grip the shelf, then lift it straight upward. To reinstall, reverse the procedure.



- To dismantle the flexible door rail: Pull out the tray first then draw the pedestal of the door rail outward. Do not dismantle the tray and the pedestal at the same time.



## **When being placed on the ground of soil**

- If the refrigerator is placed on the ground of soil, please put a 10 cm thick wooden plate under it to prevent rusting or the quality of electric components being affected.
- The appliance should be placed on a flat ground.

## **Please use the specific socket**

- The refrigerator must be plugged into a specific socket for 220-240V with no less than 10A.

## **Please put the refrigerator in places with good ventilation**

- There should be enough space around the refrigerator for better ventilation and the electricity saving.
- The contact may produce some electric sparks when the refrigerator is started; thus hazard is likely to occur if there is gas around the refrigerator. Please shut down the gas and open all windows and doors in case of gas leakage to ensure safety.

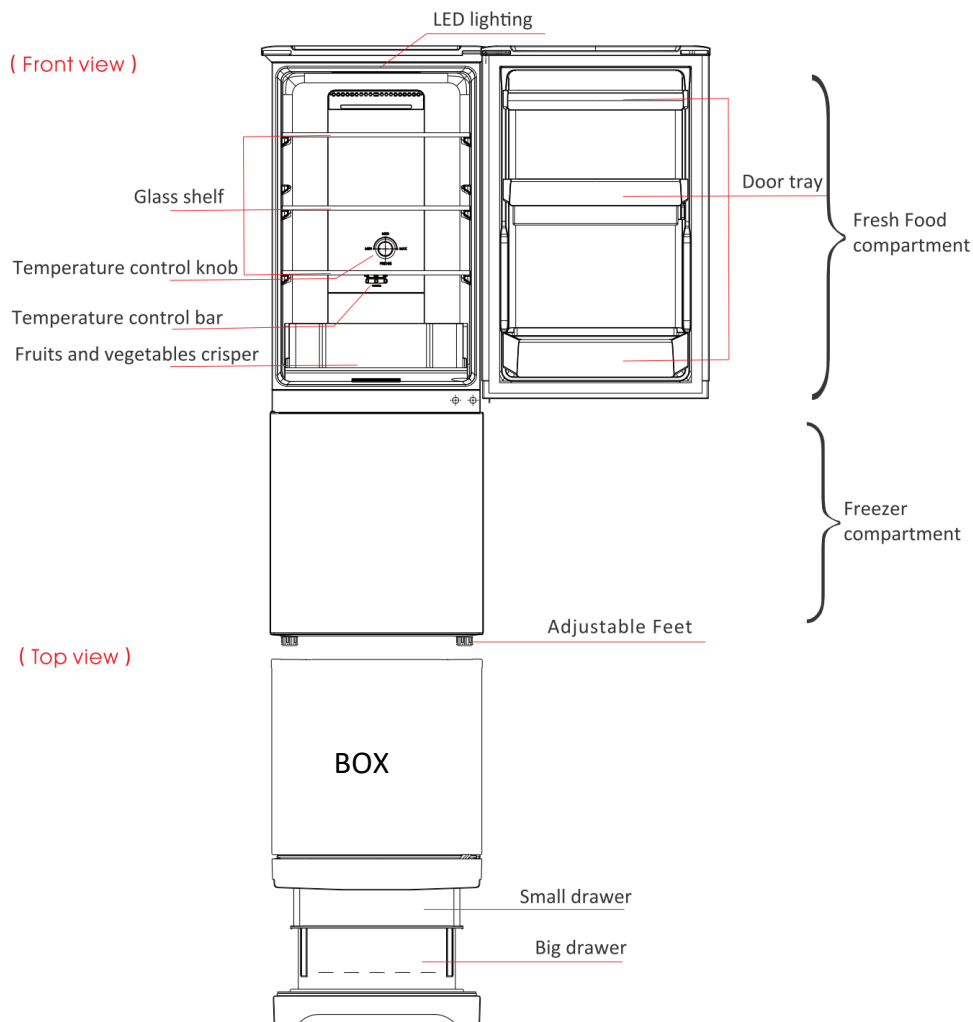
## **Please put the refrigerator in places with low humidity**

- Do not put the refrigerator in a place of high humidity otherwise the refrigerator will be likely to accumulate moisture and get rusty; the electric components will be easy to fail as well.

## **Keep the refrigerator away from direct sunlight and hot air**

- Do not expose the refrigerator to direct sunlight and hot air otherwise the cooling temperature will not be sufficient and more power will be consumed.

# PARTS DESCRIPTION



\*Photo for reference only. The interior design will be slightly different in different models.

## Fresh food compartment

1. The fresh food compartment is suitable for storage of a variety of fruits, vegetables, beverages and other food consumed in the short term.
2. Cooked foods shall not be put in the fresh compartment until cooled down to the room temperature.
3. Foods are recommended to be sealed up before putting into the refrigerator.
4. The glass shelves can be adjusted up or down for a reasonable storage space and easy use.
5. Fruit or vegetables can be stored in fruit and vegetables crisper.

Note: When connecting and using the power initially, it is not appropriate to store too much food, which will affect the cooling effect of the refrigerator.

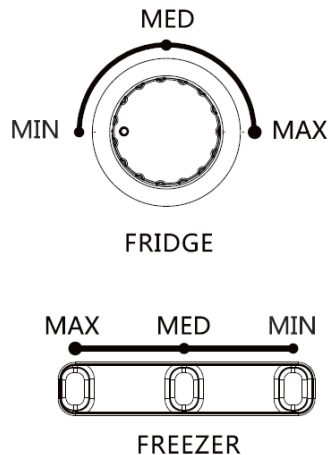
Do not block the air outlet when storing items, so as not to affect the cooling effect.

## Freezer compartment

1. The low temperature freezer compartment can keep food fresh for a longer time and it is mainly used to store frozen foods and making ice.
2. The freezer compartment is suitable for meat, fish and other foods not to be consumed in the short term.
3. Chunks of meat are preferably divided into small pieces then stored into the freezer compartment.
4. Please be noted that food shall be consumed before expiry date.

# OPERATION INSTRUCTION

## Temperature Control



**!** Photo for reference only. The interior design will be slightly different in different models.

- Under normal use, we recommend the temperature control of the freezer compartment and fresh-food compartment to adjust the temperature in the "MED".
- When ambient temperature around the refrigerator is below 10°C for a long time or fast freeze is needed, we recommend temperature control bar of Freezer compartment is adjusted to the "MIN" position · and the temperature control knob of Fresh Food compartment is adjusted on the basis of needs.
- When ambient temperature around the refrigerator is above 38°C for a long time or fast cooling is needed, it is recommend temperature control bar of Freezer compartment is adjusted to the "MAX" position · and the temperature control knob of Fresh Food compartment is adjusted on the basis of needs.

Warning: When the temperature control knob is adjusted to the "MAX", fast cooling is realized, but adjusting to this position for a long time, the fresh-food storage temperatures may be lower than 0°C.

## Refrigeration

- Fruits and vegetables should be stored in the fruits and vegetables crisper. Wrap them with plastic wrap to prevent drying.
- Water-rich foods such as bean curds and vegetable should be stored in the front bottom part of the fresh food compartment to avoid being frozen.

## Placement of food

- There should always be space between foods to maintain cool circulation.
- Food should be wrapped tidily to prevent them from becoming dry and odorous.
- Hot foodstuffs should be cooled down before being placed in the compartments. Otherwise the internal temperature of the compartments or electric consumption will increase.

## Automatic defrosting

- This product has the function of automatic defrosting.

**!** Do not use metal utensils or electric heater for defrost so as not to damage the appliance.

## MAINTENANCE INSTRUCTION



Please unplug the refrigerator before cleaning.

- Do not use hard brushes, clean steel balls, wire brushes, abrasives, such as toothpastes, organic solvents (such as alcohol, acetone, etc.), boiling water, acid or alkaline items to clean the refrigerator considering that these may damage the surface and the interior of the refrigerator.
- Do not rinse with water so as not to affect the electrical insulation properties. Please use a dry cloth when cleaning lighting lamps, temperature control knob and electrical components.

### Doors

- Clean the doors with dry cloth frequently. Never clean it with water directly.
- Never clean the refrigerator with toluene, brush or chemical cloth to prevent damage to the baking finish and internal parts.

### Inside of the freezer and fresh food compartment as well as accessories

- Clean up inside of the freezer and the fresh food compartment as well as accessories once a month. Before cleaning, take all objects out of the refrigerator and unplug it; any accessory that can be taken out should be taken out for cleaning.
- The interior of the refrigerator should be cleaned regularly to avoid odour. Soft towels or sponge dipped in water and non-corrosive neutral detergents are suggested for cleaning. It should be finally cleaned with clean water and dry cloth. Open the door for natural drying before the power is turned on.

### Refrigerator Wall

- Beware of the backside of the refrigerator to prevent any cockroach or rat from making nests there.
- The smooth back design hides the cooling tubes in walls of the refrigerator; so please keep the walls clean in order to maintain a good cooling condition.
- Dusts behind the refrigerator and on the ground shall be timely cleaned to improve the cooling effect and energy saving.

### Emergency Treatment

Stop operation of the refrigerator and unplug it if any abnormal situation occurs (e.g. smell of burning).

- If the refrigerator continues its operation under abnormal conditions, fire and electric shock may happen due to heat radiation.
- Please consult the authorized service centre.

### Stop using

Foods can be preserved for a couple of hours even in summer in case of power failure; it is recommended to reduce the frequency of opening door and do not put fresh foods into the freezer compartment.

Please unplug the refrigerator left unused for a long time for cleaning. Keep the door open to avoid bad odour.

Before moving the refrigerator, please remove all items in the refrigerator and fasten the glass partitions, fruits and vegetables crisper with tapes to prevent the door opens during displacement.

Do not turn it upside down, horizontally place or vibrate the refrigerator, the carrying angle cannot be greater than 45°.



Continuous operation is recommended when the refrigerator is started. Please do not move the refrigerator under normal circumstances so as not to affect the refrigerator's service life.

## TROUBLESHOOTING

The following situations are not malfunction:

- The sides of the refrigerator will be heat up while the condenser is working, but this will not influence the cooling performance.
- As the temperature of the compartment will be high when the refrigerator is just started, it will take a span of time to decrease the temperature.
- It is normal for the surface of the compressor to get hot in normal working condition. Do not touch it.
- The water flowing sound is actually the refrigerant (cooling gas) flowing. It is normal.
- Condensation may form on the outside when the humidity is high. It is normal.

### Tips

- ◆ The refrigerator enclosure may emit heat during operation especially in summer; this is caused by the radiation of the condenser, and it is normal.
- ◆ Condensation: condensation will be detected on the exterior surface and door seals of the freezer compartment when the ambient humidity is high, this is normal, and the condensation can be wiped away with a dry towel.
- ◆ Airflow sound: Refrigerants circulating in the refrigerant lines will produce eruption of sound and grunts which is normal. It will not affect the cooling effect.
- ◆ Buzz: Buzz will be generated by running compressor especially when starting up or shutting down.
- ◆ Clatter: The solenoid valve or the electric switch valve will clatter, which is normal and will not affect the operation.

The fresh food compartment will periodically frost and defrost (water drops will be generated on the backside of the fresh food compartment when defrosting). It is normal.

If any case of malfunction happens, please inspect and dispel it according to the methods shown in the following table:

Situation	Check point
Not refrigerating	<ul style="list-style-type: none"> <li>• Check if there is power failure.</li> <li>• Check if the power cord is plugged into the power socket.</li> <li>• Low voltage.</li> </ul>
Not cooling sufficiently	<ul style="list-style-type: none"> <li>• The food may be packed too tightly together which will block the flow of cool air.</li> <li>• You may have put something hot or a lot of foodstuffs into the refrigerator.</li> <li>• The temperature control knob and temperature control bar may not be set properly.</li> <li>• The door may not have been closed properly.</li> <li>• The door gasket may be damaged.</li> <li>• The refrigerator may not be well ventilated.</li> <li>• There may be insufficient clearance between the refrigerator and the surfaces immediately to the sides and top.</li> </ul>
Food frozen in the fresh food compartment	<ul style="list-style-type: none"> <li>• The temperature control setting of the compartment may be set to the cooler setting for a long time.</li> <li>• Check if the normal surrounding temperature is below 5°C.</li> <li>• Foodstuffs may be packed too tightly.</li> <li>• Whether foods containing water is put in inside the glass partition.</li> </ul>
Water leaks from the fresh food compartment	<ul style="list-style-type: none"> <li>• Check if there is any leakage from objects stored in it.</li> </ul>
Noises	<ul style="list-style-type: none"> <li>• Check if the refrigerator is installed firmly.</li> <li>• Check if there is any objects nearby to collide with it.</li> </ul>
Compressor does not stop working automatically	<ul style="list-style-type: none"> <li>• Food may be stored too much at one time.</li> <li>• Doors may be opened too frequently or too long.</li> <li>• The temperature control setting &amp; knob compartment may be set to the cooler setting.</li> <li>• It is normal that refrigerator operates for longer time in summer when the ambient temperature is higher.</li> <li>• Do not put foods until they are cooled.</li> <li>• Whether the surrounding areas of the refrigerator doors are closed tightly.</li> </ul>
Odour	<ul style="list-style-type: none"> <li>• Odorous foods should closely wrapped.</li> <li>• Whether foods are rotten.</li> <li>• Whether the interior shall be cleaned.</li> </ul>
The refrigerator door cannot be properly closed	<ul style="list-style-type: none"> <li>• The refrigerator door is stuck by food packages.</li> <li>• Too much food.</li> <li>• Tilt refrigerator.</li> </ul>

In case the above failure appear, please check the refrigerator as per the reasons stated above. If any abnormal phenomenon still appears, please call the authorized service centre.

## SPECIFICATION

<b>Model No.</b>	<b>ZS145BM</b>
Rated Voltage/Frequency	220-240V~/50Hz
Rated Current (A)	0.8
Climate Class	ST
Refrigerant, Amount	R600a, 26g
Fresh Food Compartment Volume (L)	115
Freezer Compartment Volume (L)	30
Net Weight (kg)	42.5
Gross Weight (kg)	46
Product Dimensions (mm) (W x D x H)	480x583x1265

## **WARRANTY**

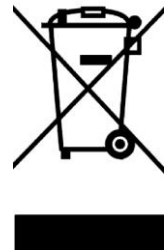
1. The warranty shall not apply:
  - A. to any product subjected to misuse, alteration, act of God, improper handling, improper transport, improper testing or unauthorized repair;
  - B. to cosmetic problems or defects which result from normal wear and tear under ordinary use yet not affecting the performance or use of the product;
  - C. if the product is disassembled or altered;
  - D. to any packing, transportation, export / import tax or any related expenses.
2. **CUSTOMER MUST PRESENT THE SALES INVOICE OR RECEIPT FOR WARRANTY SERVICES.**

## **NOTES**

- This appliance must be plugged into a specific 220-240V socket. Please make sure the plug is fully plugged-in before use. Do not use any adapter or extension cord.
- This appliance is a high energy consumption product, please do not use it with other high energy consumption products in the same supply socket.
- THE APPLIANCE IS FOR HOUSEHOLD USE ONLY.

## **ENVIRONMENT**

From 31 December 2018, the disposal licensing control, import and export permit control and landfill disposal ban in respect of abandoned regulated electrical equipment (REE) have commenced. Any person who is engaged in the storage, treatment, reprocessing or recycling of abandoned REE must obtain a waste disposal licence; a permit is required for the import and export of abandoned REE; and abandoned REE is no longer be accepted for disposal at the landfills and other designated waste disposal facilities (e.g. refuse transfer stations).



## **IMPORTANT NOTICES**

IN NO EVENT SHALL OUR COMPANY OR THE SUPPLIER BE LIABLE TO YOU OR ANY OTHER PARTY FOR ANY DIRECT, INDIRECT, GENERAL SPECIAL, INCIDENTAL, CONSEQUENTIAL, EXEMPLARY OR OTHER DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PRODUCT (INCLUDING, WITHOUT LIMITATION, DAMAGES FOR INJURY, LOSS OF PROPERTY, BUSINESS PROFITS, BUSINESS INTERRUPTION) OR FROM ANY BREACH OF WARRANTY, EVEN IF OUR COMPANY OR SUPPLIER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO CASE SHALL OUR COMPANY OR SUPPLIER'S LIABILITY EXCEED THE AMOUNT YOU PAID FOR THE PRODUCT.

*Specifications, designs and dimensions are subject to change without prior notice.*