

ZANUSSI

REFRIGERATOR- FREEZER COMBINATION

ZRB 320 WO

INSTRUCTION BOOK

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From the Electrolux Group. The world's No.1 choice.

The Electrolux Group is the world's largest producer of powered appliances for kitchen, cleaning and outdoor - use. More than 55 million Electrolux Group products (such as refrigeration, cookers, washing machines, vacuum cleaners, chain saws and lawn mowers) are sold each year to a value of approx. USD 14 billion in more than 150 countries around the world.

Before installing and using the appliance read this user's instruction book carefully. It contains safety precautions, hints, information and ideas. If the refrigerator is used in compliance with the instructions written, it will operate properly and provide you with greatest satisfaction.

The symbols below help you to find things more easily:

-  Safety precautions
-  Warnings and information at this symbol serve safety for you and your appliance.
-  Hints, useful information
-  Environmental information
-  Symbol for ideas
At this symbol ideas can be found according to food and its storing.

The symbol on the product or on its packaging indicates that this product may not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

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1. Applying the guarantee is subject to the consumer providing proof of purchase showing the purchase and/or delivery date.
2. The guarantee will not apply if damage caused to delicate parts, such as glass (vitreous ceramic), synthetic materials and rubber, is the result of inappropriate use.
3. The guarantee cannot be called on for minor faults that do not affect the value or the overall reliability of the appliance.
4. The statutory warranty does not apply when defects are caused by:
 - a chemical or electrochemical reaction caused by water,
 - abnormal environmental conditions in general,
 - unsuitable operating conditions,
 - contact with harsh substances.
5. The guarantee does not apply to defects due to transport which have occurred outside of our responsibility. Nor will the guarantee cover those caused by inadequate installation or assembly, lack of maintenance or failure to respect the assembly instructions or directions for use.
6. Defects that result from repairs or measures carried out by people who are not qualified or expert or defects that result from the addition of non-original accessories or spare parts are not covered by the guarantee.
7. Appliances that are easy to transport may be delivered or sent to the consumer services department. Home repairs are only anticipated for bulky appliances or built-in appliances.
8. If the appliances are built-in, built-under, fixed or suspended in such a way that removing and replacing them in the place where they are fitted takes more than half an hour, the costs that result there from will be charged for. Connected damage caused by these removal and replacement operations will be the responsibility of the user.
9. If, during the guarantee period, repairing the same defect repeatedly is not conclusive, or if the repair costs are considered disproportionate, in agreement with the consumer, the defective appliance may be replaced with another appliance of the same value.

In this event, we reserve the right to ask for a financial contribution calculated according to the length of time it has been used.
10. A repair under guarantee does not mean that the normal guarantee period will be extended nor that a new guarantee period begins.
11. We give a twelve month guarantee for repairs, limited to the same defect.
12. Except in the event where liability is legally imposed, this declaration of guarantee terms excludes any compensation for damage outside the appliance for which the consumer wishes to assert his rights. In the event of legally admitted liability, compensation will not exceed the purchase price paid for the appliance.

For exported appliances, the user must first make sure that they satisfy the technical conditions (e.g.: voltage, frequency, installation instructions, type of gas, etc.) for the country concerned and that they can withstand the local climatic and environmental conditions. For appliances purchased abroad, the user must first ensure that they meet the qualifications required. Non-essential or requested adjustments are not covered by the guarantee and are not possible in all cases.

Our consumer services department is always at your disposal, even after the guarantee period has expired.

Address for our consumer services department:
ELECTROLUX HOME PRODUCTS BELGIUM
 Bergensesteenweg, 719- 1502 LEMBEEK
 Tel. 02.3630444

Storage time chart (2)

Storage time of deep-frozen and frozen products

Foods	In the fresh food compartment +2...+7°C	In the frozen food compartment -18°C
Vegetables: green beans, green peas, mixed vegetables, marrow, corn, etc.	1 day	12 months
Ready-cooked foods: vegetable dish, trimmings, with meat, etc.	1 day	12 months
Ready-cooked foods: sirloin steaks, stew from knuckle of ham, meat from pig pudding, etc.	1 day	6 months
Foods from potatoes, pasta: mashed potato, gnocchi, dumpling, pasta filled with jam, chips	1 day	12 months
Soups: meat-broth, soup from green beans, soup from green peas, etc.	1 day	6 months
Fruits: sour cherry, cherry, gooseberry, fruit cream, mashed maroon	1 day	12 months
Meat: chicken, duck, goose fillets, tuna fish	1 day	5 months 6 months
Popsicle, ice-cream	1 day	3 weeks

Warranty and service

Guarantee conditions

Service and spare parts

If calling the service is unavoidable, announce the trouble at a brand-mark service nearest to your place.

When announcing, the appliance has to be identified according to its data label.

The data label of the appliance is stuck to the wall of the interior beside the vegetable box in the fresh food compartment in the bottom on the left side.

All necessary data are there which are needed to the service announcement (type, model, serial number, etc.). Note here the data from the data label of your appliance:

Model	
Product No.	
Serial No.	
Date of purchase:	

The manufacturer reserves the right to make any changes in the products.

Declaration of guarantee terms

Our appliances are produced with the greatest of care. However, a defect may still occur. Our consumer services department will repair this upon request, either during or after the guarantee period. The service life of the appliance will not, however, be reduced as a result.

This declaration of guarantee terms is based on European Union Directive 99/44/EC and the provisions of the Civil Code. The statutory rights that the consumer has under this legislation are not affected by this declaration of guarantee terms.

This declaration does not affect the vendors statutory warranty to the end user. The appliance is guaranteed within the context of and in adherence with the following terms:

1. In accordance with provisions laid down in paragraphs 2 to 15, we will remedy free of charge any defect that occurs within 24 months from the date the appliance is delivered to the first end user. These guarantee terms do not apply in the event of use for professional or equivalent purposes.
2. Performing the guarantee means that the appliance is returned to the condition it was in before the defect occurred. Defective parts are replaced or repaired. Parts replaced free of charge become our property.
3. So as to avoid more severe damage, the defect must be brought to our attention immediately.

Important safety information

⚠ General safety precautions

- Keep these instructions and they should remain at the appliance when moving away or changing owner.
- This appliance is designed for storing food, domestic use according to these instructions only.
- Specialized companies that are qualified to do so by the manufacturer must carry out service and repairs including repairing and changing the power cord. Accessory parts supplied by them should be used only for repairing.
- Otherwise the appliance can be damaged or can cause other damage or injury.
- The appliance is out of circuit only in that case if the plug is removed from the socket. Before cleaning and maintenance always unplug it (do not get it by the cable). If the socket is difficult to reach, switch off the appliance by cutting off the current.
- Power cord must not be lengthened.
- Make sure that the power plug is not squashed or damaged by the back of the fridge/freezer. A damaged power plug may overheat and cause a fire.
- Do not place heavy articles or the fridge/freezer itself on the power cord.
 - There is a risk of a short circuit and fire.
- Do not remove the power cord by pulling on its lead, particularly when the fridge/freezer is being pulled out of its niche.
 - Damage to the cord may cause a short-circuit, fire and/or electric shock.
 - If the power cord is damaged, it must be replaced by a certified service agent or qualified service personnel.
- If the power plug socket is loose, do not insert the power plug.
 - There is a risk of electric shock or fire.
- Without the lamp cover of interior lighting you must not operate the appliance.
- When cleaning, defrosting, taking out frozen food or ice tray do not use sharp, pointed or hard devices, as they can cause damage to the appliance.
- Be careful not to allow liquids to the temperature control and lighting box.
- Ice and ice-cream can cause hurt if they are eaten immediately after removal from the frozen food compartment.
-

- After dissolving frozen food must not be refrozen, it must be used up as soon as possible.
- Store pre-packed frozen food in accordance with the frozen food manufacturers instructions.
- You must not make defrosting faster with any electric heating appliance or chemicals.
- Do not put hot pot to the plastic parts.
- Do not store flammable gas and liquid in the appliance, because they may explode.
- Do not store carbonated drinks, bottled drinks and bottled fruits in the frozen food compartment.
- Check and clean the outlet of melting water coming during defrosting regularly - a label inside the appliance warns you for this. If it is clogged the melting water gathered can cause earlier failure.

⚠ Precautions for child safety

- Do not allow children to play with the packaging of the appliance. Plastic foil can cause suffocation.
- Adults must handle the appliance. Do not allow children to play with it or its controlling parts.
- If you are discarding the appliance pull the plug out of the socket, cut the connection cable (as close to the appliance as you can) and remove the door to prevent playing children to suffer electric shock or to close themselves into it.

⚠ Safety precautions for installation

- Put the appliance to the wall to avoid touching or catching warm parts (compressor, condenser) to prevent possible burn.
- When moving the appliance take care of the plug not to be in the socket.
- When placing the appliance take care not to stand it on the power cord.
- Adequate air circulation should be around the appliance, lacking this leads to overheating. To achieve sufficient ventilation follow the instructions relevant to installation.
- See chapter Placement.

⚠ Safety precautions for isobutane

Warning

The refrigerant of the appliance is isobutane (R600a) that is inflammable and explosive to a greater extent.

Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.

Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.

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.

⚠ **For the safety of life and property keep the precautions of these user's instructions as the manufacturer is not responsible for damages caused by omission.**

Instructions for the User

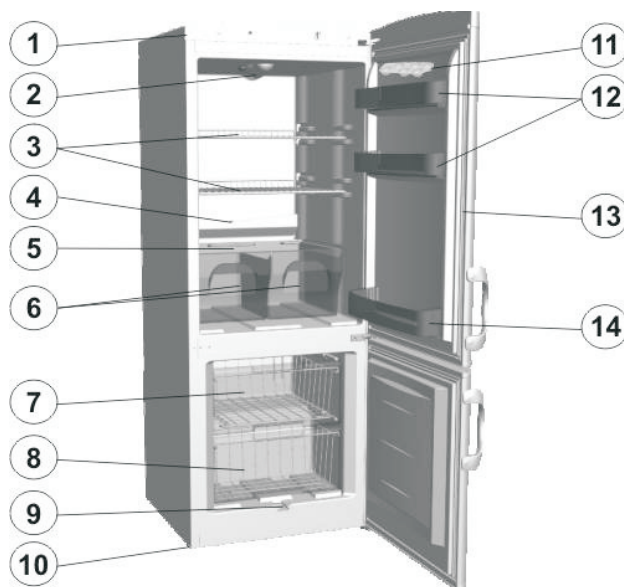
General information

The official designation of the appliance is refrigerator- freezer combination with one motor compressor and freezer placed in the upper part". The appliance has, besides the general services, a freezer with its own door and is completely separated from the other unit. According to this the appliance is suitable for storing frozen and deep-frozen food, freezing products in quantity given in the users instructions at home.

The appliance can meet the requirements of standards between different temperature limits according to the climate class.

The letter symbol for climate class can be found on the data label.

Description of the appliance, main parts



1. Work plate
2. Lighting box
3. Glass shelf / Wire shelf
4. Defrost water collector
5. Glass shelf
6. Vegetable box
7. Frozen food drawer
8. Frozen food basket
9. Defrost water collecting funnel
10. Adjustable feet
11. Egg tray
12. Door shelf
13. Door gasket
14. Bottle shelf

Storage time chart (1)

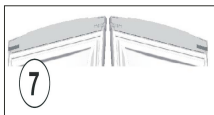
Time and method of storage of fresh foods in the refrigerator

Foods	Storage time in days							Method of packaging
	1	2	3	4	5	6	7	
Raw meat	X	X	x	x	x			cling film, airtight
Cooked meat	X	X	X	x	x	x		dish covered
Roasted meat	X	X	X	x	x			dish covered
Raw minced meat	X							dish covered
Roasted minced meat	X	X	x	x				dish covered
Cold cuts, Vienna sausage	X	X	x	x				cling film, cellophane, grease-proof paper
Fresh fish	X	x	x					cling film, airtight
Cooked fish	X	X	x	x				dish covered
Fried fish	X	X	x	x	x			dish covered
Tinned fish, open	X	x	x					dish covered
Fresh chicken	X	X	X	x	x	x		cling film, airtight
Fried chicken	X	X	X	x	x	x		dish covered
Fresh hen	X	X	x	x	x			cling film, airtight
Boiled hen	X	X	x	x	x			dish covered
Fresh duck, goose	X	X	X	x	x	x		cling film, airtight
Roasted duck, goose	X	X	X	X	x	x	x	dish covered
Buffer unopened	X	X	X	X	X	X	X	original packaging
Buffer opened	X	X	x	x	x	x	x	original packaging
Milk in a plastic bag	X	X	X	x	x			original packaging
Cream	X	X	x	x				plastic box
Sour cream	X	X	X	X	x	x	x	plastic box
Cheese (hard)	X	X	X	X	X	X	X	aluminum foil
Cheese (soft)	X	X	X	X	x	x	x	cling film
Curds	X	X	X	X	x	x	x	cling film
Egg	X	X	X	X	X	X	X	
Spinach, sorrel	X	X	x	x				cling film
Green peas, green beans	X	X	X	X	x	x	x	cling film
Mushroom	X	X	x	x	x			cling film
Carrot, roots	X	X	X	X	X	X	X	cling film
Bell-pepper	X	X	x	x	x			cling film
Tomato	X	X	X	X	X	X	X	cling film
Cabbage	X	X	X	X	X	x	x	cling film
Quickly rotting fruits (strawberry, raspberry, etc.	X	X	X	x	x			cling film
Other fruits	X	X	X	X	x	x	x	cling film
Tinned fruits opened	X	X	X	x	x			dish covered
Cakes filled with cream	X	X	x	x				dish covered

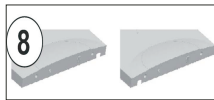
Notation:

X usual storage time

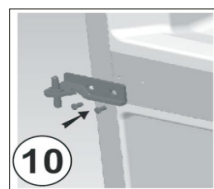
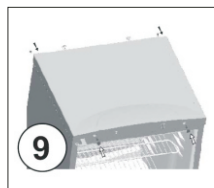
x possible storage time (concerns to really fresh product only)



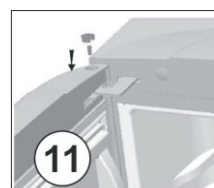
- Fix the double door holder onto the left side using the screws (2 pieces). Be careful that the door edge of the freezer is parallel with the edge of the mantle (figure 10).



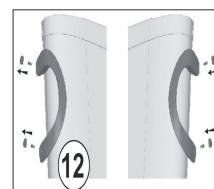
- Change the position of the lower door mask cover (Figure 7). Remove opening mask on from the work plate and fix it to the other side with double adhesive tape enclosed in the bag of spare parts (Figure 8).



- Install work plate back to the refrigerator.
- Fit the door of the refrigerator to the double door hinge.



- Fix the upper door shaft onto the left side using the screws you removed previously. Be careful that the door edge of the refrigerator is parallel with the edge of the mantle.



- Put over the handle on the opposite side and cover up the vacant holes with the plastic nails from the bag of spare parts.

After released the screws the adaptation of the doors can be adjusted with the horizontal control of middle door hinge.

- Put the appliance to its place, set it's level with leveling front legs, and connect it to the electricity supply.

Electrical connection

This refrigerator is designed to operate on 230 VAC (~) 50 Hz supply.

The plug must be put into a socket with protective contact. If there is no such, it is recommended to get an electrician to fit an earthed socket in compliance with standards near the refrigerator.



This appliance complies with the following E.E.C. Directives:

- 73/23 EEC of 19.02.73 (Low Voltage Directive) and subsequent modifications,
- 89/336 EEC of 03.05.89 (Electromagnetic Compatibility Directive) and subsequent modifications.

Handling the appliance

Putting it into use

Place the accessories into the appliance then plug to the mains socket. The thermostat knob is installed in the work plate on the refrigerator. You can switch the appliance on and set the temperature with it by turning the knob clockwise.

The next paragraph will give instructions for setting.

Controlling the temperature, setting

The thermostat interrupts the operation of the appliance automatically for more or less time depending on the setting then restarts it assuring the required temperature. The closer it is set to maximum position the more intensive the refrigerating will be. When the thermostat knob is set to a medium position (between minimum and maximum), in the freezer a temperature colder than -18 °C, in the refrigerator around +5 °C can be reached. Setting it to a medium position is adequate for everyday use. The temperature coming about in the refrigerator is effected by not only the position of the thermostat but the ambient temperature, frequency of door openings and the quantity of food put into it newly, etc.

- i** In the maximum position - in case of increased demand e.g. during heat waves - the compressor may operate continually. This does not cause damages to the appliance.



How to use the refrigerator

- i** For adequate cooling developing interior air circulation is necessary. For this reason you are asked not to cover the air circulation gaps behind the shelves (e.g. with tray etc.).

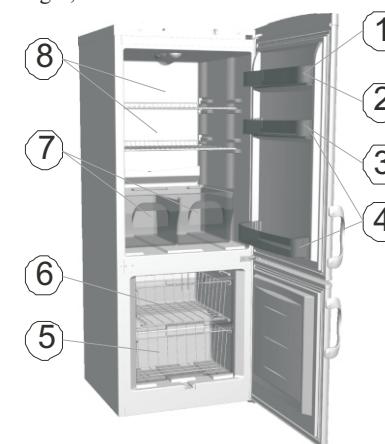
- i** Do not put hot food into the refrigerator. Allow it to reach room temperature naturally. In this way the unnecessary frost building up can be avoided.

- i** Foods can take over odors from each other. So it is essential to put foods in closed dishes or wrap them in cellophane, aluminum foil, and greaseproof paper or cling film before placing them into the refrigerator. This way foods will keep their moisture e.g. vegetables will not dry out after some days.

Storing in the refrigerator

When placing the different kinds of food take into consideration the sketch below in figure:

1. Butter, cheese
2. Eggs
3. Tubes, cans, sour cream, small bottles
4. Drinks in big bottles, soda-water and mousse siphon
5. Frizzed food storage
6. Fast freeze
7. Fruits, vegetables, salads
8. Milk, dairy products, ready-cooked foods, confectionery, foods in dishes covered, opened, cans, bottles laid, fresh meat, sausages, etc.



Storage time and temperature of foods

The storage time chart at the end of the instruction book gives information about storage time.

The storage time can not be determined exactly in advance, as it depends on the freshness and handling of the cooled food. That is why the storage time made known is only informative.

If you do not want to use up deep-frozen foods bought immediately they can be stored for about 1 day (until dissolving) in the refrigerator.

How to use the freezer

Freezing

In the compartment various fresh food can be frozen at home. Mind the following to get thorough result. Freeze fresh and faultless food only. Before starting freezing set the thermostatic control knob to maximum position and put the wire drawer in the frozen food compartment to the highest position. Then put in the quantity to be frozen, directly into the wire shelf. Freezing is completed in approx. 24 hours. After 24 hours set the thermostatic control knob back to Medium position, which is usually adequate for everyday use. It is practical to store the frozen food in the lower basket.

In case you do not want to perform the procedures above, call the nearest brand-mark service. Technicians will accomplish the refilling expertly for charge.

i Avoid opening the door of frozen food compartment during freezing if possible.

i It is not expedient to set the thermostat knob to higher (e.g. max) position. Freezing time could be reduced this way, but the temperature of the fresh food compartment would go beyond 0 °C permanently, which would cause freezing to foods and drinks stored there.

i **Never freeze food in bigger quantity than given in the “Technical data” at the same time, otherwise freezing will not be thorough and after dissolving various deterioration may take place (losing taste and aroma, lysing, etc.).**

Storing in the freezer

After finishing freezing it is practical to put the frozen food from the wire drawer in the frozen food compartment into the basket under that making room for a next possible freezing. Food already stored is not damaged by another freezing.

i Do not forget to keep to the storage time given on the packaging of frozen products if you buy them frozen.

i It is safe to store quick-frozen, frozen foods only if they have not dissolved even for a short time until placing them into freezer.

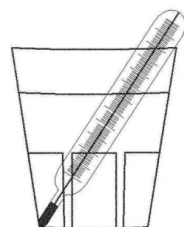
If the deep-frozen food has already dissolved, refreezing is not recommended, it has to be used as soon as possible.

i Some useful information and advice

- The variable shelves are worth paying attention to, which increases the usability of the fresh food compartment considerably. Rearranging the shelves is also possible when the door is open at an angle of 90.
- After opening and closing the door of freezer vacuum will rise inside the appliance because of the low temperature. So wait 2-3 minutes after closing the door if you want to open it again while inner pressure equalizes.
- Take care of operating the freezer at a position of thermostatic control so that the inside temperature can never be warmer than -18 °C
- It is practical to make sure of faultless operation of the appliance daily so as to notice possible failure in time and prevent deterioration of frozen foods.

• Normal operating sounds:

- o A thermostat controls the compressor and you will hear a faint click when thermostat cuts in and out.
- o You may hear faint gurgling or bubbling sound when the refrigerant is pumped thorough the coils at the rear, to the cooling plate/evaporator.
- o When the compressor is on, the refrigerant is being pumped round and you will hear a whirring sound or pulsating noise from the compressor.
- o The fridge evaporator (this part cool down the fridge section) is foamed into the cabinet. The temperature of this part changing during its work, and parallel with this its dimensions are slightly changing, too. These changes might cause a cracking noise, which is natural, harmless phenomenon.

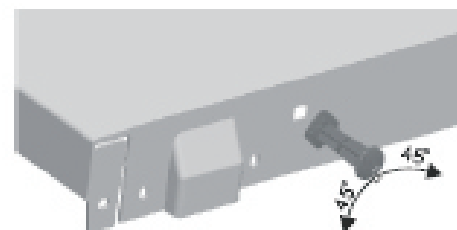


- Should you want to check the temperature of food stored in the refrigerator, set the thermostat knob into a medium position, place a glass of water centrally in the cabinet, and put a proper thermometer with an accuracy of ± 1 °C into it. If after 6 hours you measure a value between +3 °C and +8 °C the refrigerator works properly. The measuring shall be performed under steady-stated conditions (without changing the load).
- If the freezer temperature is measured using a thermometer, put it between the products since this will reflect the real temperature in the frozen products.

Hints and ideas

In this chapter practical hints and ideas are given about how to use the appliance to reach maximum energy saving and there is environmental information about the appliance as well. using a thermometer, put it between the products since this will reflect the real temperature in the frozen products.

The plastic bag of accessories also contains two spacers to be fitted into special holes in the back of the appliance. Fit the spacers into the holes, taking care to ensure that the spacer is positioned as shown in Figure. Then turn them through 45° until they lock into place.



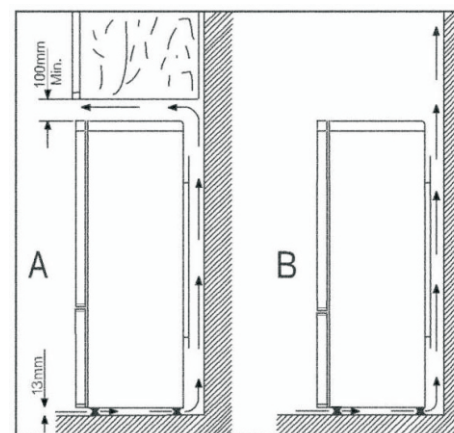
Do not stand the appliance on a sunny place or close to a radiator or cooker.

If it is unavoidable because of furnishing and the appliance has to be stood near a cooker take these minimum distances into consideration:

In case of gas or electric cooker 3 cm must be left, when it is less put a 0,5 - 1 cm non-flam insulation between the two appliances.

In case of oil or coal-fired stove the distance must be 30 cms since they give off more heat.

The refrigerator is designed to operate when it is totally pushed to the wall.



! When placing the refrigerator keep minimal distances recommended in figure.

A: placing it under a wall-cupboard
B: placing it freely

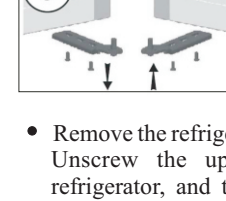
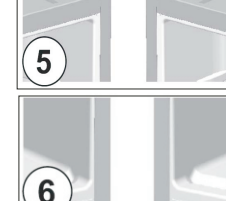
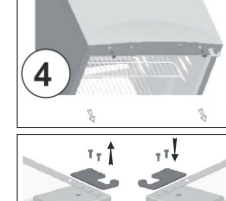
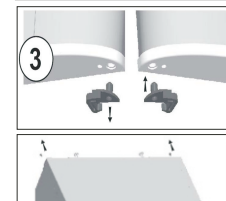
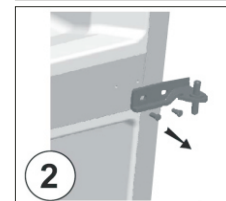
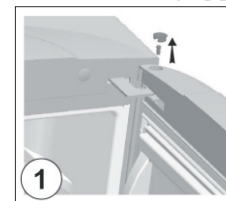
Change of door opening direction

Should the setting-up place or handling demand it, door opening direction can be refilled from right-handed to left-handed.

Appliances on the market are right-handed.

Following operations are to be done on the basis of figures and explanations:

- Disconnect the appliance from the electricity supply.
- Tilt back the appliance carefully. It is recommended to ask another person for help, who can keep the appliance at this position safely.
- Remove cover from the upper door mask, and remove upper door shaft (Figure 1).
- Take off the door of the Refrigerator by pulling it slightly upwards.
- Dismount the double door holder by removing two screws in front (Figure 2).
- Take off the door of the freezer by pulling it slightly upwards, and remove plastic door limiter from the bottom of the door by removing the screw. Install left door limiter enclosed in the bag of spare parts (Figure 3).



- Remove the refrigerator work plate (figure 5). Unscrew the upper door hinge of the refrigerator, and then screw it back on the other side (Figure 6).
- Remove the screws of the lower door hinge on the left side and screw it back on the other side of refrigerator (Figure 6).
- Fit the door of the freezer to the lower door hinge.

Instructions for the Installer

Technical data

MODEL	ZRB320WO
Gross capacity (l)	201
Net capacity (l)	Freezer: 38 Refrigerator: 150
Width (mm)	540
Height (mm)	1400
Depth (mm)	600
Energy consumption (kWh/24h)	0,726
(kWh/year)	265
Energy class, according to EU standards	A
Freezing capacity (kg/24h)	2,5
Rising time (h)	19
Rated power (W)	105
Weight (kg)	53
Number of compressors	1

Installing the appliance

Transportation, unpacking

It is recommended to deliver the appliance in original packaging, in vertical position considering the protective warning on packaging.

After each transportation the appliance must not be switched on for approx. 2 hours.

Unpack the appliance and check if there are damages on it. Report possible damages immediately to the place you bought it. In that case retain packaging.

Cleaning

Remove every adhesive tape and everything else, which ensure the accessories not to move in the appliance.

Wash the inside of the appliance using lukewarm water and mild detergent. Use soft cloth. After cleaning, wipe out the inside of the appliance.

Placement

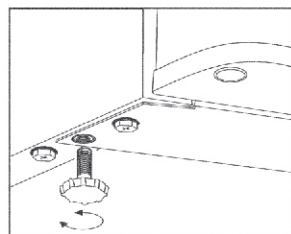
The ambient temperature has an effect on the energy consumption and proper operation of the appliance. When placing, take into consideration that it is practical to operate the appliance between ambient temperature limits according to the climate class that is given i

the chart below and can be found in the data label.

Class of climate	Ambient temperature
SN	+10 ... +32 °C
N	+16 ... +32 °C
ST	+18 ... + 38 °C

If the ambient temperature goes below the lower data the temperature of the cooling compartment can go beyond the prescribed temperature.

If the ambient temperature goes beyond the upper data this means longer operating time of the compressor, breakdown in the automatic defrosting increasing temperature in the cooling compartment or increasing energy consumption. When placing the appliance ensure that it stands level. This can be achieved by two adjustable feet (1) at the bottom in front.



How to save energy

- Avoid pulling the appliance in a sunny place and near anything that gives off heat.
- Be sure that the condenser and the compressor are well ventilated. Do not cover the sections where ventilation is.
- Wrap products in tightly closing dishes or cling film to avoid building up unnecessary frost.
- Do not leave the door open longer than necessary and avoid unnecessary openings.
- Put warm foods into the appliance when they are at room temperature.
- Keep the condenser clean.



The appliance and environment

This appliance does not contain gasses which could damage the ozone layer, in either its refrigerant circuit or insulation materials. The appliance shall not be discarded together with the urban refuse and rubbish. Avoid damaging the cooling unit, especially at the rear near the heat exchanger. Information on your local disposal sites may be obtained from your municipal authorities.

The materials used on this appliance marked with the  symbol are recyclable.

Maintenance

Defrosting

Bleeding part of the moisture of cooling chambers in form of frost and ice goes with the operation of the appliance.

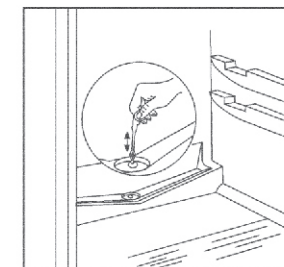
Thick frost and ice has an insulating effect, so it reduces cooling efficiency as the temperature increases in the cooling chambers and they need more energy.

At this type of appliance defrosting the cooling plate of the refrigerator is automatic without any external intervention. The thermostatic control interrupts the operation of compressor at regular intervals for more or less time during this cooling is interrupted the temperature of the cooling plate goes above 0 °C due to interior heating load of the compartment, so defrosting occurs. When the surface temperature of the cooling plate has reached +3 - +4 °C the thermostatic control restarts operation of the system.

Melting water flows through defrost water outlet leaded through the back into the evaporative tray maintained on the top of compressor and evaporates due to its warmth.

Check and clean the outlet of melting water coming during defrosting regularly

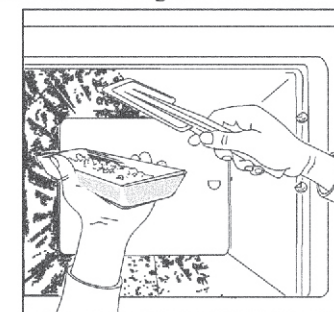
- a label inside the appliance warns you for this. If it is clogged the melting water gathered can cause earlier failure as it can go to the insulating of the appliance.



Clean the melting water outlet with the supplied pipe scraper that can be seen in the figure above. The pipe scraper has to be stored in the outlet.

The most typical case of clogging up in the melting water outlet when you put food wrapped in some paper into the appliance and this paper contacts back plate of the refrigerator and freezes to it. If you remove the food right at this moment the paper will tear and it can cause clogging up in the outlet by gelling into it.

i So you are asked to be careful because of the above when placing foods wrapped in paper into the appliance. In case of increased demand e.g. during heat waves, the refrigerator temporarily happens to operate constantly. During this the automatic defrosting is ineffective.



Remaining small ice and frost stains on back plate of the refrigerator after defrosting period is not abnormal.

The freezer can not be equipped with automatic defrosting set since the deep-frozen and frozen foods do not endure melting temperature.

When small frost and ice occurs scrape off and remove frost and ice coating with the supplied plastic scraper.

The tray in figure is not a piece of accessories to the appliance!

When ice coating is so thick that it cannot be removed with the plastic scraper, the cooling plate has to be defrosted. Frequency of defrosting depends on usage (generally 2-3 times a year). Take the frozen foods out of the appliance, and put them into a basket lined with paper or cloth. Store them in a possibly cool place or replace them into another refrigerator.

Pull out the mains plug from the mains socket, so both parts of the appliance are out of operation. Open the doors of both parts of the appliance and clean the refrigerator according to Regular cleaning. Maintain and clean the freezer as following:

Sweep the melting water with a cloth or sponge off the cooling plate. The melting water swept down gathers in the bottom of the appliance and can be removed with a hygroscopic cloth or a sponge
Wipe the surfaces after defrosting.

Put the mains plug into the mains socket and put foods taken out back to their places.

It is recommended to operate the appliance at the highest position of the thermostatic control for some hours so that it can reach the sufficient storing temperature as soon as possible.

Regular cleaning

It is recommended to wash the inside of the refrigerator in 3-4 weeks time using lukewarm water then wipe it (it is practical to clean the inside of the freezer and defrost it at a time). Household cleaner or soap must not be used.

After breaking the circuit wash the appliance with lukewarm water then wipe it. Clean the door gasket with clean water. After cleaning apply voltage to the appliance.
It is recommended to remove the dust and dirt collected on the back of the refrigerator and the condenser and to clean the evaporative tray on top of the compressor once or twice a year.

When the refrigerator is not in use

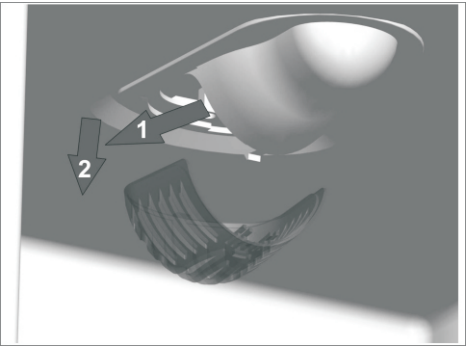
In case the appliance will not be used for a long time, follow these steps:
Break the circuit of the appliance.
Remove foods from the refrigerator.
Defrost and clean it as written before.
Leave the door open to avoid a build up of air inside.

Trouble shooting

How to change the bulb

Should the light fail to work you can change it as below:

Break the circuit of the appliance.
Press the front hook and at the same time slide the cover in the direction indicated by horizontal arrow (1), then remove cover by pulling it gently down as indicated by arrow (2). So the bulb can be replaced. (Bulb type: 230-240 V, 15 W, F 14 thread)
After changing the bulb replace the cover, snap it in place and apply voltage to the appliance.



If something does not work

During operation of the appliance some smaller but annoying trouble can often occur, which does not require calling a technician out. In the following chart information is given about them to avoid unnecessary charges on service.
We draw your attention that operation of appliance goes with certain sounds (compressor- and circulating sound).

This is not trouble, but means normal operation.

⚠ We draw it to your attention again that the appliance operates discontinuously, so the stopping of compressor does not mean being no-current. That is why you must not touch the electrical parts of the appliance before breaking the circuit.

Problem	Possible cause	Solution
It is too warm in the refrigerator	Thermostatic control can be set wrongly. If products are not cold enough or placed wrong. The door does not close tightly or it is not shut properly.	Set the thermostat knob to higher position. Place the products to the appropriate place. Check if the door closes well and the gasket is unhurt and clean.
It is too warm in the freezer	Thermostatic control can be set wrongly. The door does not close tightly or it is not shut properly. Products in big quantity to be frozen were put in. Products to be frozen are placed too closely to each other	Set the thermostat knob to higher position. Check if the door closes well and the gasket is unhurt and clean. Wait some hours and then check the temperature again. Place the products in a way so that cold air could circulate among them.
Water flows at the back plate of the refrigerator Water flows into the chamber Water flows onto the floor	It is normal. During automatic defrosting frost melts on the back plate. The outlet of the chamber can be clogged up. Products placed in can prevent water from flowing into the collector The melting water outlet flows not into the evaporative tray above the compressor	Clean the outlet. Replace the products so that they can not touch the back plate directly. Put the melting water outlet to the evaporative tray.
There are too much frost and ice.	Products are not wrapped properly. Doors are not shut properly or do not close tight. The thermostatic control can be set wrongly.	Wrap the products better Check if the doors close well and the gaskets are unhurt and clean. Set the thermostat knob to a position that gives higher temperature.
The compressor operates continually.	The thermostatic control is set wrongly. Doors are not shut properly or do not close tight. Products in big quantity to be frozen were put in.	Set the thermostat knob to a position that gives higher temperature. Check if the doors close well and the gaskets are unhurt and clean. Wait some hours and then check the temperature again. Put food at max. room temperature.
The appliance does not work at all. Neither cooling, nor lighting works. Indicator lamps do not give light.	Too warm food was put in. The appliance is in too warm place. Plug is not connected to the mains socket proper. The fuse burnt out. The thermostatic control is not on.	Try to reduce the temperature in the room where the appliance stands. Connect the mains plug properly. Change the fuse. Start the appliance according to instructions in chapter Putting it into use". Call an electrician.
The appliance is noisy.	There is no voltage in the mains socket. (Try to connect another appliance into it.) The appliance is not supported properly.	Check if the appliance stands stable (all the four feet should be on the floor).

In as much as the advice does not lead to result, call the nearest brand-mark service.