

TKS90



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Original instruction manual

1	Safety	2
1.1	Explanation of signal words	2
1.2	Safety instructions.....	3
1.3	Intended use	6
1.4	Unintended Use	6
2	General information	7
2.1	Liability and warranty	7
2.2	Copyright protection.....	7
2.3	Declaration of conformity	7
3	Transport, packaging and storage	8
3.1	Delivery Check.....	8
3.2	Packaging	8
3.3	Storage	8
4	Technical data	9
4.1	Technical specifications	9
4.2	List of components of the appliance.....	10
4.3	Functions of the appliance	11
5	Installation and operation	11
5.1	Installation.....	11
5.2	Operation	13
6	Cleaning	16
6.1	Safety Instructions for cleaning	16
6.2	Cleaning.....	16
7	Possible Malfunctions.....	17
8	Disposal.....	18



Read this instruction manual before using and keep it available at all times!

This instruction manual contains information about installation, operation and maintenance of the appliance and constitutes an important source of information and reference guide. The knowledge of all operational and safety instructions included in this manual is a prerequisite for safe and proper handling of the appliance. Additionally, accident prevention, occupational health and safety, and legal regulations in force in the area the appliance is used apply.

Before you start using the appliance, especially before turning it on, read this instruction manual in order to avoid personal injuries and property damages. Improper use may cause damage.

This instruction manual forms an integral part of the product and must be stored in an immediate vicinity of the appliance and be available at all times. The instruction manual should be transferred together with the appliance.

1 Safety

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This appliance has been manufactured in accordance with technical standards currently in force. However, the appliance may be a source of hazards if used improperly or contrary to its intended purpose. All persons using the appliance must consider information included in this instruction manual and observe safety instructions.

1.1 Explanation of signal words

Important safety instructions and warning information are indicated in this instruction manual with appropriate signal words. You must strictly follow the instructions, to prevent accidents, personal injuries and property damages.



DANGER!

The signal word **DANGER** warns against hazards that lead to severe injuries or death if the hazards are not avoided.



WARNING!

The signal word **WARNING** warns against hazards that may lead to moderate or severe injuries or death if the hazards are not avoided.



CAUTION!

The signal word **CAUTION** warns against hazards that may lead to light or moderate injuries if the hazards are not avoided.

IMPORTANT!

The signal word **IMPORTANT** indicates possible property damages, which may occur if safety instructions are not observed.

NOTE!

The symbol **NOTE** indicates subsequent information and guidelines for the user on usage of the appliance.

1.2 Safety instructions

Electrical current

- Too high a mains voltage or incorrect installation may cause electric shock.
- The appliance may be connected only if data on the rating plate correspond with the mains voltage.
- To avoid short-circuit, the appliance should be kept dry.
- If there are malfunctions during operation, disconnect the appliance from the power supply.
- Do not touch the appliance's plug with wet hands.
- Never take hold of the appliance if it has fallen into water. Immediately disconnect the appliance from the power supply.
- Any repairs or housing opening may be carried out by professionals and relevant workshops only.
- Do not transport the appliance, holding it by the power cord.
- Do not allow the power cord to come into contact with heat sources or sharp edges.
- Do not bend, pinch nor knot the power cord.

- Always completely unwind the power cord.
- Never place the appliance or other objects on the power cord.
- Always take hold of the plug to disconnect the appliance from the power supply.

Fire hazard / flammable materials hazard / explosion hazard!

- Do not use any electric devices in the appliance.
- Do not store nor use petrol or other flammable liquids and gases in the vicinity of this or any other appliance. Those gases may cause fire or explosion hazard.
- Do not put into the appliance any explosive materials, like sprays filled with flammable propellants. Contents of containers filled with flammable gases and liquids may leak in low temperatures, and the contents may catch fire from sparks generated by an electric appliance. Explosion hazard!
- In the case of coolant leakage, pull the plug from the socket. Remove all sources of ignition in the vicinity, ventilate room and contact technical service. Avoid coolant getting in contact with eyes, as it may cause serious eye damage.
- Never use any flammable liquids for cleaning the appliance or its parts. Gases released may cause fire or explosion hazard.
- In the case of fire, disconnect the appliance from the power supply before attempting adequate fire-extinguishing actions.
- Never attempt to extinguish fire with water if the appliance is connected to the power supply. Following extinction of fire, ensure sufficient fresh air inflow.
- Defrosting process may not be sped up with mechanical means or heat energy sources (candles or heaters) nor with any other means. Vapour produced may cause short-circuit and too high temperatures may damage the appliance.
- All ventilation slots should not be obstructed during operation.
- Never attempt to damage cooling installation of the appliance.

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Operating Personnel

The device can be used by children of 8 years old and older, as well as by people with reduced physical, sensory or mental abilities and those with limited experience/knowledge as long as they are under supervision or have been instructed on safe use of the device and possible risks. Children should not play with the device.

Improper Use

- Unintended or prohibited use may cause damage to the appliance.
- The appliance may only be used when its technical condition is flawless and allows for safe operation.

Safety

- The appliance may only be used when all connections are executed according to rules of law in force.
- The appliance may only be used when it is clean.
- Use only original spare parts. Never attempt to repair the appliance on your own.
- Do not introduce any changes in the appliance nor modify it.

- Do not drill hole in the appliance nor install any objects on it.
- Do not place any heavy objects on the appliance.

1.3 Intended use

As described below, every use of the appliance for a purpose differing and/or diverging from its intended standard use, is prohibited and considered to be an unintended use.

The following is an intended use:

- Freezing and prolonged storage of suitable food products.

1.4 Unintended Use

An unintended use may lead to personal injuries or property damages caused by hazardous voltage, fire or high temperature. The appliance may only be used to perform tasks described in this instruction manual.

The following is an unintended use:

- Storing flammable or explosive objects and liquids, such as ether, petroleum or adhesives;
- Storing explosive materials, like sprays filled with flammable propellants;
- Storing pharmaceutical products or preserved blood;
- Storing live pets.

2 General information

2.1 Liability and warranty

All information and instructions in this instruction manual account for legal regulations in force, current level of technical engineering knowledge as well as our expertise and experience, developed over the years. If special models or additional options are ordered, or state-of-the-art technical solutions were implemented, the actual scope of delivery of the appliance may, in some circumstances, differ from descriptions and numerous drawings in this instruction manual.

The manufacturer is not liable for any damages nor faults stemming from:

- failure to observe instructions,
- unintended use,
- technical alterations introduced by the user,
- usage of unapproved spare parts.

We reserve the right to introduce technical modifications to the product, intended for improvement of the appliance and its performance.

2.2 Copyright protection

This instruction manual, and texts, drawings and images included in it, as well as its other components are copyright protected. It is prohibited to reproduce this instruction manual (including its excerpts), in any form and by any means, and to use and/or transfer its content to third parties without manufacturer's written permission. Violation of the above results in obligation to pay compensation. We reserve the right to claim further damages.

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2.3 Declaration of conformity

The appliance meets the currently applicable standards and guidelines of the European Union. We confirm the above in the EC Declaration of Conformity. We may provide relevant Declaration of Conformity upon request.

3 Transport, packaging and storage

3.1 Delivery Check

Immediately upon reception, check the delivery for completeness and possible shipping damage. In the case of visible transport damage refuse to accept the appliance or accept it conditionally. Mark and note the scope of damage in shipping documents/consignment list of the shipping company and lodge a complaint. Concealed damage must be reported immediately upon its discovery, as compensation claims may only be filed within applicable time limits.

If you find that parts or accessories missing, please contact our Customer Service Department.

3.2 Packaging

Do not dispose of the appliance cardboard box. It may be used to store the appliance when relocating or when shipping the appliance to our service point in the case of any damages.

The packaging and its elements are made of recyclable materials. Particularly, these are: plastic films and bags, cardboard box.

When disposing of the packaging, observe applicable domestic regulations. Recyclable packaging materials should be recycled.

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3.3 Storage

Leave the packaging closed until installation of the appliance; observe external indications concerning method of placing and storage. Store the packaging in the following conditions only:

- in closed rooms;
- in dry and dust-free surrounding;
- away from aggressive agents;
- in a location protected against sunlight;
- in a location protected against mechanical shocks.

In the case of extended storage (over three months), make sure you check the condition of the packaging and the parts regularly. If needed, replace the packaging with a new one.

4 Technical data

4.1 Technical specifications

Name:	Freezer TKS90
Art. No.:	700342
Material:	Steel, painted, glass
Inner material:	Plastic
Volume, in l:	90
Temperature range, min.–max., in °C:	-13 - -22
Ambient temperature, min.–max., in °C:	16 - 32
Coolant, amount in g:	R290 / 50 g
Climate class:	4
Number of shelves:	3
Shelves dimensions (W x D), in mm:	510 x 335
Load-bearing capacity of each shelf in kg:	18
Bottom display area dimensions (W x D), in mm:	510 x 335
Power supply:	0.23 kW / 230 V / 50 Hz
Dimensions (W x D x H) in mm:	620 x 585 x 720
Weight in kg:	48,7

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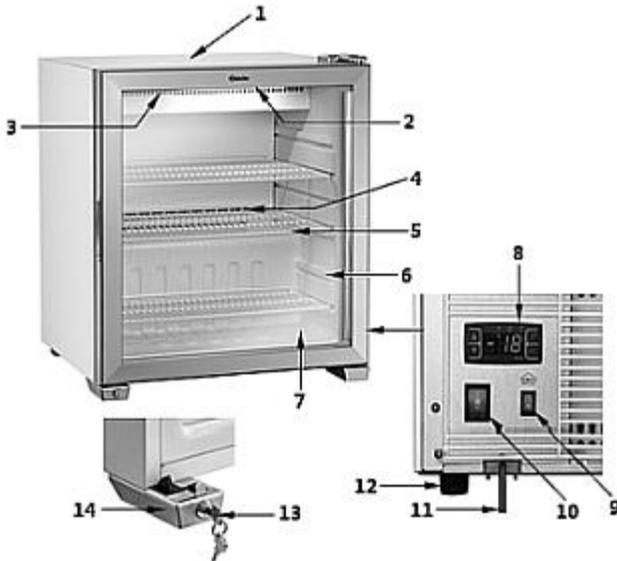
We reserve the right to implement technical modifications!

Version / Characteristics

- Type of shelves: grille, steel, coated with plastic
- Height-adjustable shelves
- Lockable
- Temperature control: electronic, in increments of 1°C
- Automatic defrost function
- Insulation: cyclopentane
- Cooling: compressor
- Digital display
- Internal LED lighting
- Door type: leaf door, glass
- Right-hand side door, with no possibility for door hinge to be changed

- Triple-glazed doors
- Glass heater, may be switched separately
- Control: button, electronic
- ON/OFF switch
- The set includes: 2 keys

4.2 List of components of the appliance



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- | | |
|--------------------------------|----------------------------------|
| 1. Housing | 2. Internal LED lighting |
| 3. Internal air inlet openings | 4. Internal air outlet openings |
| 5. Shelves (3x) | 6. Guide rails |
| 7. Glass pane door | 8. Digital temperature regulator |
| 9. Glass heater switch | 10. ON/OFF switch |
| 11. Power cord | 12. Adjustable feet |
| 13. Keys (2 pcs.) | 14. Lock |

4.3 Functions of the appliance

The appliance is designed for freezing and storage of suitable food products. It is perfectly suited for presentation of frozen goods, e.g. ice cream in kiosks, cinemas, gas stations, bistros or bars.

5 Installation and operation

5.1 Installation

Unpacking / Positioning

- Unpack the appliance, remove all external and internal packaging elements and shipment safeguards.



CAUTION!

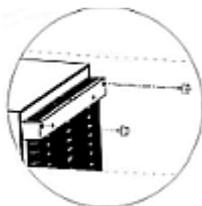
Choking hazard!

Prevent children from accessing package materials, for instance: plastic bags and EPS.

- If the appliance is covered with a protective film, remove it. Remove the film slowly, so no glue residues are left. Remove any glue residues with the use of a suitable solvent.
- Be careful not to damage the rating plate and warning labels fixed on the appliance.
- **Never** place the appliance in humid or wet environment.
- Place the appliance in a way making the connections easily accessible, so that they may be quickly disconnected if such a need arises.
- The appliance should be placed on surfaces that are:
 - even, with sufficient bearing capacity, resistant to water, dry and resistant to high temperatures;
 - sufficiently large, and thus enabling usage of the appliance with no problems;
 - easily accessible;
 - well ventilated.
- Maintain sufficient clearance from table edges. The appliance might turn over and fall down.
- Do not place the appliance in direct sunlight or in the vicinity of heat sources (cooker, radiator, heating devices, etc.). Heat sources may pose negative effect

in terms of power consumption and lead to restrictions in operation of the appliance.

- Place the appliance so that sufficient air circulation is ensured. Leave 10 cm clearance from walls and other objects.
- The appliance may be installed only in rooms, in which ambient temperature does not exceed 30°C.
- In order to avoid compressor's damage, do not tilt the appliance more than 45° when positioning or transporting it.
- If the appliance is to be relocated, follow the instructions below:
 - switch the appliance off;
 - remove the plug from the socket;
 - take out contents of the appliance;
 - use a tape to stick up all loose elements inside the appliance and the door;
 - the appliance may only be transported in upright position.



- The scope of delivery covers 2 distance brackets. Before setting the appliance in a selected location, screw the distance brackets clockwise at the rear of the appliance (Fig. to the left).

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Power supply connection

- Verify if technical data of the appliance (see rating plate) correspond with the local electric power grid specification.
- Connect the appliance to a single, properly grounded mains socket with protective contact. Do not connect the appliance to a multi-socket.
- The power cord should be laid in a way preventing anyone from threading on it or tripping against it.
- Prior to first use, the appliance should be installed and left standing upright for at least 2 hours, before it is connected to power supply.
- After a power failure or when the plug is removed from the socket, do not reconnect the appliance to power supply for at least 5 minutes.

5.2 Operation

Tips for the User

- Shelves may be positioned at various heights. Arrange them adequately to the size of food products, so that the inner space of the appliance is used optimally.
- Food products in containers should be arranged on the bottom display area so that proper distances between them allow for sufficient air circulation inside the appliance.

NOTE: Insufficient distances hinder the cooling effect.

- To limit loss of cold air minimize the opening time of door during operation.
- If possible, in the event of a sudden power failure, avoid opening doors in order to avoid loss of cool air.
- Never cover the air inlet and outlet openings in the appliance. Air must circulate freely in order to assure appropriate cooling properties.

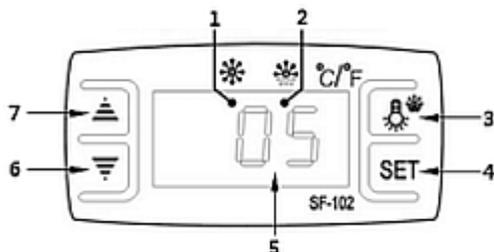
Preparation of the Appliance

1. Clean the appliance and shelves before the first use according to instructions included in section 6 “**Cleaning**”.
2. Finally, dry the appliance and accessories thoroughly.
3. Introduce shelves into the guide rails at selected height.
4. Close the appliance door.
5. Connect the appliance to a single grounded socket.
6. Switch the appliance on, setting the ON/OFF switch at the rear wall of the appliance to “**I**” position.

The digital display shows current temperature in the appliance.

7. The appliance will be cooled down to the factory pre-set temperature.
8. Food products should be placed in the appliance only when it reaches the right temperature.
9. If needed, the temperature may be altered with digital temperature control regulator buttons.

Digital Temperature Control / Button Functions



1. LCD cooling indicator
2. LCD cooling indicator
3. Lighting / defrosting button
4. Function button
5. Digital display
6. Temperature decrease button
7. Temperature increase button

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LCD indicators



LCD cooling indicator

This indicator is lit over cooling process; it remains off as long as the cooling temperature remains at constant level; and flashes during switch on delay.



LCD cooling indicator

This indicator is lit over defrosting process; goes off when the defrosting process is completed; and flashes during defrost delay.

Setting the Selected Temperature (Selected Value)

You may set the temperature in the range of -13°C and -22°C.

To set or change the selected temperature value:

Press **SET** button shortly; the set value will start to flash immediately.

Use  or  buttons to increase or decrease temperature value.

Use **SET** button to confirm the set temperature value.

If no button is pressed within the next 10 seconds, the digital display will show current temperature inside the appliance.

NOTE: If additional parameter settings are to be changed, contact technical service.

Switching Lighting ON/OFF

The appliance is equipped with LED lighting. It is located in internal compartment top area.

1. Press the  button, to switch on the lighting.
2. Press  button again, to switch the lighting off.

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Glass Heater

The appliance is equipped with the glass heater, which prevents fogging of glass door. The glass heater may be switched ON/OFF if necessary, using DRY switch at the rear wall of the appliance.

Defrosting

Automatic Defrosting

Automatic defrosting is a factory default setting, and it is carried out every 3 hours.

During the defrosting cycle the  defrosting indicator is lit; it goes off, when the defrosting cycle ends and flashes for defrosting delay.

Manual Defrosting

If cooling efficiency drops or if defrosting needs to be executed following another schedule than the factory default one, there is a possibility of manual setting of defrost function.

1. Press the  button and hold it pressed for 6 seconds. The defrosting cycle starts immediately and the  defrosting indicator is lit. When defrosting cycle is completed, subsequent defrosting cycle is commenced after 3 hours.

Switching the Appliance Off

If the appliance is not to be used, set the ON/OFF switch to “O” position and disconnect the appliance from the power supply (pull the plug out).

6 Cleaning

6.1 Safety Instructions for cleaning

- Before cleaning, disconnect the appliance from the power supply.
- Leave the appliance to cool down completely.
- Make sure water does not enter the appliance. Do not immerse the appliance in water or other liquids during cleaning. Do not clean the appliance with a pressurized water jet.
- Do not use any sharp or pointed, nor metal implements (knife, fork, etc.). Sharp or pointed implements may damage the appliance, and when in contact with live parts, they may cause electric shock.
- For cleaning, do not use any scouring agents that contain solvents nor corrosive cleaning agents. They may damage the surface.

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6.2 Cleaning

1. Clean the appliance regularly.
2. Remove all objects from the appliance.
3. Remove all shelves from the appliance.
4. Clean the shelves with mild washing agent and soft cloth or sponge in warm water.
5. Rinse the shelves with clean water and dry thoroughly with soft cloth.

Note: Never use hot water to clean the appliance.

6. Clean the appliance inside with warm water and soft, moistened cloth. Use mild cleaning agent if required.
7. Wipe the washed surfaces with a cloth moistened in clean water.
8. Wipe the appliance housing and glass door with door sealing with a soft, moistened cloth.
9. Finally, dry thoroughly all washed surfaces.

10. Leave the appliance door open for the appliance to dry completely.

7 Possible Malfunctions

The table below contains descriptions of possible causes and solutions to malfunctions or errors during operation of the appliance. When malfunction cannot be removed, contact the technical service.

Error	Possible Cause	Solution
No cooling.	The plug is not properly connected to the socket.	Remove the plug and insert it properly in the socket.
	Electric power supply safety fuse damaged.	Check the fuse, connect the appliance to another socket.
	No power supply.	Check electric power supply.
Insufficient cooling efficiency.	Direct sunlight or heat sources in immediate vicinity.	Move the appliance away from heat sources.
	Poor air circulation around the appliance.	Keep sufficient clearance from walls or other objects.
	Too little clearance between objects inside the appliance or too many objects in the appliance.	Provide for sufficient clearance between objects inside the appliance; remove the excess of objects.
The appliance operates loudly.	The appliance is not placed on even surface.	Place the appliance on even surface.
	Appliance touches walls or other objects.	Keep sufficient clearance from walls or other objects.

The following phenomena are not malfunctions:

- During normal operation, a sound of water flowing is heard. This is a sound of coolant flowing through the installation.

8 Disposal

Electrical appliance

	<p>Electric appliances are marked with this symbol. Electrical appliances must be disposed of and recycled in a correct and environmentally friendly manner. You must not dispose of electric appliances with household waste. Disconnect the appliance from the power supply and remove power cord from the appliance.</p>
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Electrical appliances should be returned to designated collection points.

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Coolant

The propellant used in the appliance is flammable. It should be utilised pursuant to national regulations in force.