

## KV 270L



700561

**ENGLISH**

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

This instruction manual contains information about the installation, operation and maintenance of the device and should be consulted as an important source of information and reference guide.

Awareness of the safety instructions and instructions for use in this manual will ensure the safe and correct use of the device.

In addition to the information given here, you should comply with any local Health and safety Controls and generally applicable safety regulations.

The instruction manual forms part of the product and should be kept near the device and easily accessible for anyone carrying out the installation, servicing, maintenance or cleaning.

Please keep these instructions and give them to future owners of the device.

## 1. Safety

This device is designed in accordance with the presently applicable technological standards. However, the device can pose a danger if handled improperly and inappropriately.

All persons using the device must follow the recommendations and instructions in this instruction manual.

### 1.1 Key to symbols

In this manual, symbols are used to highlight important safety instructions and any advice relating to the device. The instructions should be followed very carefully to avoid any risk of accident, personal injury or material damage.



**WARNING!**

This symbol highlights hazards which could lead to injury.



**WARNING!**

This symbol highlights dangerous situations which could lead to injury or death.



### **FIRE HAZARD / FLAMMABLE MATERIALS HAZARD / EXPLOSION HAZARD!**

This symbol highlights potentially dangerous situations which could lead to injury or death.



### **CAUTION!**

This symbol highlights dangerous situations which could lead to light injuries, or damage, malfunction, and/or destruction of the device.



### **NOTE!**

This symbol highlights recommendations and information aimed for effective and trouble-free device operation.

## **1.2 Safety instructions**

- The device can be used by children 8 years and up, as well as by people with disabilities and those with limited experience/knowledge as long as they are under supervision or have been instructed on proper use of the device and its possible dangers. Children should not play with the device. Cleaning and maintenance cannot be performed by children younger than 8 years old and must be done under supervision. Children under the age of 8 years old must be kept away from the device and its power cord.
- Only use the device indoors.
- The device must be operated in correct and safe technical condition only. In case of operational problems disconnect the device from the power supply (pull the plug from the socket) and contact the service company.

- Prevent access of children to the package materials like plastic bags and foamed polystyrene elements. **Suffocation hazard!**
- Only a qualified technician and using original spare parts and accessories should carry out repairs and maintenance of the device. **Do not attempt to repair the device yourself.**
- Do not use any accessory or spare parts that have not been recommended by the manufacturer. These can be dangerous for the user or lead to damages of the device or personal injury, and further, the warranty expires.
- To prevent hazards and to ensure optimum efficiency, no modifications or alterations to the device that are not explicitly approved by the manufacturer may be undertaken.



## **DANGER! Electric shock hazard!**

To avoid the hazard results please follow the safety instructions below.

- Never allow the power cable to come into contact with heat sources or sharp edges. The power cable should not hang over the side of the working surface. Ensure that no one can step on or trip over the cable.
- The power cable must not be folded, bent or tangled, and must always remain fully unrolled. Never place the device or other objects on the power cable.
- Do not cover the cable. Keep away the cable from operating range and do not immerse it into water.

- Check the power cord regularly for damage. Do not use the appliance if the power cord is damaged. If this cable is damaged, it must be replaced by customer service or a qualified electrician in order to avoid dangers.
- The supply cable must be disconnected from the socket only by pulling the plug.
- Never carry or lift the device by the supply cable.
- In any case do not open the device housing. In case of electrical or mechanical modifications the **electric shock hazard** will occur.
- Do not use any acid agents and make sure no water ingresses the device.
- **Never** operate the device with moist hands or standing on wet floor.
- Remove the plug from its socket:
  - when the device is not used,
  - in case of anomalies during operation,
  - before cleaning.



### **FIRE HAZARD / FLAMMABLE MATERIALS HAZARD / EXPLOSION HAZARD!**

Incorrect operation of the device may cause fire or explosion hazard due to ignition of its content.

To avoid the hazard please follow the safety instructions below:

- Do not use any electric devices in the device.
- Do not store the flammable or explosive substances in the device, like ether, kerosene, or glues.

- Do not store gasoline or other flammable substances in the vicinity of the device. The vapours may cause fire or explosion.
- Do not store the explosive objects in the device, like cans with explosive work substances.
- Do not allow for the cooling circuit damages.

## 1.3 Proper use

The operational safety of the device is assured only in case of proper use, according to the operation manual.

All technical activities like installation and maintenance must be performed by the qualified service personnel only.

**Display fridge is intended only for cooling foodstuff (e.g. snacks, cakes) and beverages.**



### **CAUTION!**

**Any use going beyond the intended purpose and/or any different use of the device is forbidden and is not considered as conventional.**

**Any claims against the manufacturer or his authorized representative as a consequence of experiencing damages resulting from unconventional use are impossible.**

**The operator is liable for all damages resulting from inappropriate use.**

## 2. General information

### 2.1 Liability and Warrantees

All the information and instructions in this manual take into account standard safety regulations, current levels of technical engineering as well as the expertise and experience we have developed over the years.

The instruction manual was translated with all due care and attention. However, we do not accept liability for any translation errors. The German version of this instruction manual is definitive.

If the delivery consists of a special model, the actual scope of delivery may differ from the descriptions and illustrations in this manual. This is also the case for special orders or when the device has been modified in line with new technology.



#### **CAUTION!**

**Read this manual carefully and thoroughly before any operation of the device, and especially before turning it on!**

Manufacturer **is not liable** for any damages or faults caused by:

- violation of advice concerning operation and cleaning;
- use other than designed;
- alterations made by user;
- use of inadequate spare parts.

We reserve the right to make technical changes for purposes of developing and improving the useful properties.

### 2.2 Copyright protection

The instruction manual including any texts, drawings, images or other illustrations is copyright. No part of this publication may be reproduced, transmitted or used in any form or by any means without permission in writing from the manufacturer. Any person who commits any unauthorized act in relation to this publication shall be liable to claims for damages. All rights reserved.



#### **NOTE!**

**The contents, texts, drawings, pictures and any other illustrations are copyright and subject to other protection rights. Any person unlawfully using this publication is liable to criminal prosecution.**

### 2.3 Declaration of conformity



The device complies with the current standards and directives of the EU. We certify this in the EC declaration of conformity. If required we will be glad to send you the according declaration of conformity.



## 3. Transport, packaging and storage

### 3.1 Delivery check

Please check the delivery upon completeness and transport damage immediately after receipt. In case of visible damage do not accept or accept the delivery with reservation only.

Note the extent of damage on the carrier's bill of delivery. Trigger off the complaint.

Hidden damages should be reclaimed immediately after notice, as claims for damages can only be asserted within the effective period for complaints.

### 3.2 Packaging

Please do not throw away the covering carton of your device as it might be useful for storage purposes, when moving or, in case of damages, when the device must be sent back to a repair center. The outer and inner packing material should be removed completely from the device before installation.



**If you liked to dispose the packing, consider the regulations applicable in your country. Supply re-usable packing materials to the recycling.**

Please inspect the device upon completeness. In case any part is missing please contact our customer service center immediately.

### 3.3 Storage

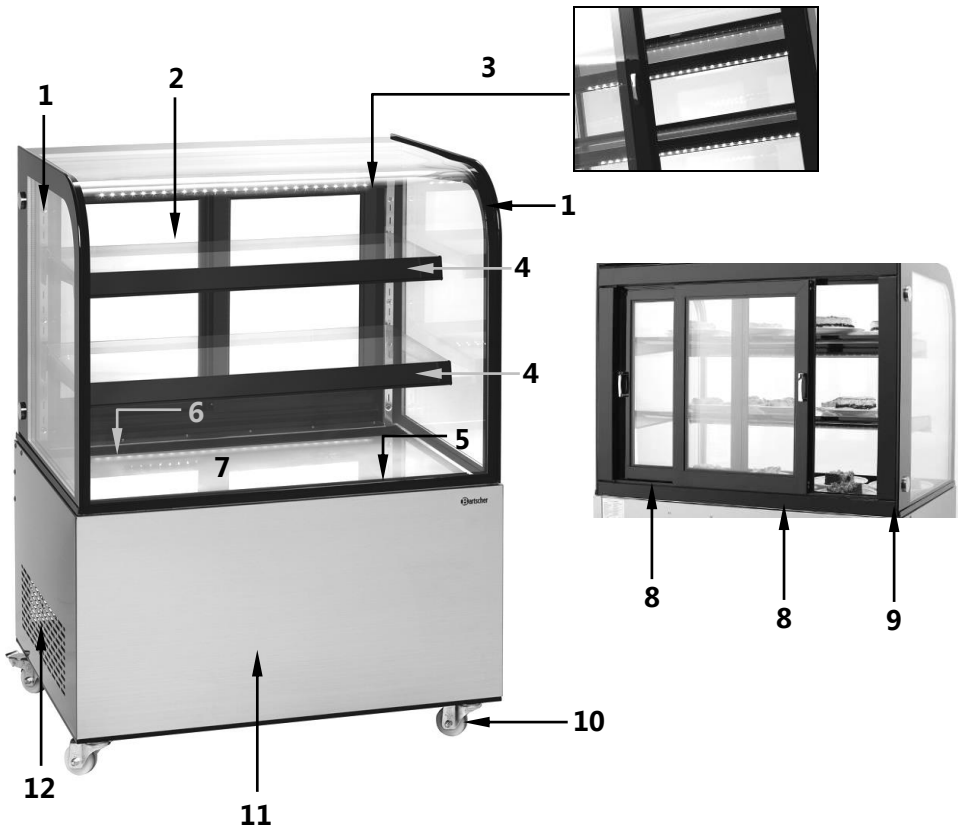
Keep the package closed until installation and under consideration of the outside indicated positioning- and storage markings.

Packages should be stored under consideration of the following:

- do not store outdoors,
- keep it dry and dust-free,
- do not expose it to aggressive media,
- do not expose it to direct sunlight,
- avoid mechanical shocks and vibration,
- in case of longer storage (> 3 months) make sure you check the state of the packaging and the parts regularly, if required refresh or renew.

## 4. Technical data

### 4.1 Overview of parts



- |                                   |  |
|-----------------------------------|--|
| <b>1</b> Side glass pane          | <b>7</b> Lower display area                          |
| <b>2</b> Front glass pane         | <b>8</b> Glass sliding doors                         |
| <b>3</b> LED lighting strips (2x) | <b>9</b> Glass pane frames                           |
| <b>4</b> Shelves (2x)             | <b>10</b> Swivel castors (4x), 2 castors with brakes |
| <b>5</b> Air outlet vents         | <b>11</b> Lower casing                               |
| <b>6</b> Air inlet vents          | <b>12</b> Ventilation slots                          |

## 4.2 Technical specification

<b>Name</b>	<b>Display fridge KV 270L</b>
Code-No.:	<b>700561</b>
Material:	Stainless steel, glass, plastic
Colour:	Silver, black
Model:	<ul style="list-style-type: none"> <li>▪ Type of glazing: double glazing, all-round glazing, safety glass</li> <li>▪ Front glass pane: turned-down edges with frames</li> <li>▪ Display surface: <ul style="list-style-type: none"> <li>- material: glass</li> <li>- Size: W 840 x D 360 mm</li> </ul> </li> <li>▪ Shelves: <ul style="list-style-type: none"> <li>- number of shelves: 2</li> <li>- upper shelf size: W 800 x D 360 mm</li> <li>- lower shelf size: W 800 x D 370 mm</li> <li>- height-adjustable</li> <li>- with price rails</li> </ul> </li> <li>▪ Inside usable height: Variable</li> <li>▪ Cooling: Circulating air</li> <li>▪ Temperature control: digital</li> <li>▪ Control: switch</li> <li>▪ Automatic defrost function</li> <li>▪ Drip water evaporation</li> <li>▪ LED lighting</li> <li>▪ Digital display</li> <li>▪ ON/OFF switch</li> <li>▪ Control light: On/Off</li> <li>▪ Castors: 4 swivel castors, 2 with breaks</li> </ul>
Climate class:	4
Coolant:	R290 (140 g)
Capacity:	270 litres
Temperature range:	2 °C to 10 °C
Power supply:	0.475 kW / 220-240 V 50 Hz
Dimensions:	W 915 x D 680 x H 1240 mm
Weight:	125.8 kg

We reserve the right to make technical changes!

## 5. Installation and operation

### 5.1 Installation

#### Positioning

- Before the operation unpack the device and remove all package material and protective foil from the device and equipment.



#### **CAUTION!**

**Never remove the rating plate and any warning signs from the device.**

- Position the device in safe place of load capacity sufficient for weight of the device with full content.
- **Never** place the device on the flammable surfaces.
- **Do not** place the device in the vicinity of open sources of fire, electric cookers, furnaces or other sources of heat such as e.g., in places exposed to direct sunlight. The heat can damage the surface of the device, as well as have a negative effect on the cooling power and increase the consumption of energy.
- To avoid damage to the compressor, do not tilt the device to an angle greater than 45° during setup or transport. Be careful when touching the condenser and doors, as damage to them will negatively impact the working of the device.
- Place the device in such a manner that there is a minimum of 10 cm between it and other objects, including walls, in order to ensure proper air circulation.
- Do not place the device where humidity or temperature are high as the device may be damaged.
- Do not drill any holes and do not mount any other objects in the device or on the device.
- Do not place heavy objects on the device.
- Place the device so that the plug is easily accessible in order to quickly disconnect the device from the power source if necessary.
- Fix the swivel castors in place using the brakes, after installing the device in the desired place.

## Connection



### **DANGER! Electric shock hazard!**

**The device can cause injuries due to improper installation! Before installation and connecting the local power grid specification should be compared with that of the device (see rating plate). Connect the device only in case of compliance!**

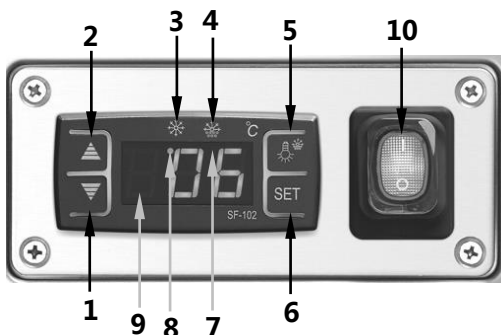
- Before the first use, the device should be installed and left standing for at least 2 hours, before it is connected to the power supply.
- After a power failure or removal of the plug from the socket, do not reconnect the device to the power supply for at least 5 minutes.
- The power supply circuit with the socket must be protected by the fuse of at least 16A. Connect the device only directly to a single grounded socket, do not use any splitters or multisockets.

## 5.2 Operation

### Start-up

- Before the first use of the device, clean it according to the instructions in section 6 “**Cleaning**“. Dry the device thoroughly.
- Connect the device to the single grounded socket.
- Turn on the device with the ON/OFF switch located at the operator side. The green indicator integrated with the switch will come on.
- The digital display shows the set temperature value, and the LCD cooling indicator comes on.
- The desired values may be entered with the use of control elements at the rear of the device.
- Place the prepared beverages and foodstuffs in the refrigerated wall shelf only after the appropriate cooling capacity has been reached.

## Control elements, button functions, indicators



- 1 Temperate **decrease** button
- 2 Temperate **increase** button
- 3 Cooling indicator symbol
- 4 Defrost indicator symbol
- 5 Backlight / defrosting button
- 6 „**SET**“ function button
- 7 LCD indicator – cooling mode
- 8 LCD indicator – defrost mode
- 9 Digital display
- 10 ON/OFF switch

### LCD indicators



#### LCD cooling indicator:



This indicator **comes on** during the cooling process, remains **off** when the cooling temperature is stable and **flashes** during the activation delay mode.





#### LCD defrost indicator:

This indicator **comes on** during the defrosting process, **goes off** when the defrosting process is finished and **flashes** during the defrost delay mode.

### Setting the desired temperature (desired value)

- The working temperature in the device ranges from 2 °C to 10 °C.
- To set or change the desired value:
  - briefly press the button **SET**, the value of temperature on the digital display will start flashing;
  - Increase or decrease the temperature value, as needed, using the buttons  or .
  - Confirm the value entered by pressing the button **SET**.
- If no button is pressed in the next 10 seconds, the digital display will show the current temperature inside the device.

## Switching on/off the lighting


- The device is equipped with 2 LED lighting strips (in its upper part).
- If necessary, the lighting may be switched on by briefly pressing the button .
- To switch off the lighting press the button again .


## Defrosting

### Automatic defrost

The device's automatic defrost cycle runs 4 times every 24 hours.

### Manual defrost

When the cooling capacity decreases, e.g. after opening the door for a long time, it is necessary to perform the manual defrosting. To start the defrosting, press the button  and hold it pressed for 6 seconds.

The LCD defrost indicator  will come on.

## User instructions

- To minimize the loss of cool air, keep the sliding doors open for as short time as possible. Furthermore, do not open the sliding doors too often.
- Do not cover the air inlet and outlet vents in the display fridge. Air must circulate freely in order to assure appropriate cooling properties.
- The stored food should be placed apart from each other, at appropriate distance. Insufficient distances reduce the cooling effect.
- Adjust the distances between the shelves to the height of stored products.
- Warm food should be cooled to room temperature before storing in the device.
- Do not place the prepared foodstuff (e.g. cake, snacks) directly on the shelves. Place them on appropriate plates or trays.
- In the event of a sudden power failure, avoid opening doors if possible in order to avoid losing of cool air from inside of the display fridge.
- After a power outage or after removing the plug from its socket, do not reconnect the device to the power source for at least 5 minutes.
- After the use, disconnect the device from the socket (pull the power plug!).

## 6. Cleaning



### **WARNING!**

**Before cleaning disconnect the device it from the power supply (pull the plug out the socket!).**

**Do not use pressurized water jest for cleaning!**

**Protect the device from the water penetration.**



### **CAUTION!**

**Never use hot water for cleaning the device!**

**Never use aggressive or coarse cleaning agents such as scouring powder, alcohol, solvents or other substances that could damage the device's surfaces.**

- Clean the display fridge regularly.
- In order to facilitate cleaning, remove the sliding doors by lifting them up and pulling them out.
- If necessary, remove shelves. Clean the sliding doors and shelves with a mild cleaning agent and soft cloth.
- Clean the side and front glass panes inside and outside with warm water, soft cloth and mild cleaning agent.
- Wipe all cleaned surfaces with a cloth moistened with clean water and afterwards dry them thoroughly.
- Afterwards, wipe dry all cleaned surfaces thoroughly.
- Fix the shelves at the appropriate height and reattach the glass sliding doors.

### **If the display fridge is not used for a long time:**

- remove the plug from its socket;
- remove all food products from the display fridge;
- clean the display fridge according to the aforementioned instructions;
- leave the sliding doors open to allow for complete drying of the display fridge.



## 7. Possible Malfunctions

In case of malfunction, disconnect the device from its power source. Before contacting the service or sales agent, verify - based on the table below - whether it is possible to eliminate disruption in operation.

Malfunction	Cause	Solution
<b>No cooling</b>	<ul style="list-style-type: none"> <li>• Loss of coolant.</li> <li>• Damaged temperature controller.</li> </ul>	<ul style="list-style-type: none"> <li>• Contact the sales agent.</li> <li>• Contact the sales agent.</li> </ul>
<b>Insufficient cooling capacity.</b>	<ul style="list-style-type: none"> <li>• Device is too close to source heat or direct sunlight.</li> <li>• Poor air circulation around the device.</li> <li>• The slide doors are opened or the opening time was too long.</li> <li>• Insufficient distances between the stored products or overfilled device.</li> <li>• Blocked air inlet and/or outlet.</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure sufficient distance between the device and heat sources.</li> <li>• Contact the sales agent.</li> <li>• Close the slide doors, minimize the opening time.</li> <li>• Ensure sufficient distance between products and remove excess food products.</li> <li>• Do not block air inlet and outlet.</li> </ul>
<b>Device emits loud sound.</b>	<ul style="list-style-type: none"> <li>• Device is placed on an uneven surface.</li> <li>• Device is touching the wall or other objects.</li> </ul>	<ul style="list-style-type: none"> <li>• Place the device on an even surface.</li> <li>• Ensure sufficient distance from the wall and other objects.</li> </ul>
<b>The compressor does not start automatically</b>	<ul style="list-style-type: none"> <li>• Overfilled device.</li> </ul>	<ul style="list-style-type: none"> <li>• Remove excess food products.</li> </ul>

### If you cannot remove the malfunctions:

- do not open the body,
- notify the customer service point or contact the sales agent, while providing the following information:
  - type of malfunction;
  - article and serial number (rating plate at the rear of the device).

**The following conditions are not signs of malfunction:**

1. The sound of flowing water. This sound is emitted during the normal use and it is the sound of coolant flowing in the device.
2. **Condensation gathering on glass sides is normal in the increased ambient humidity. Remove the condensation water using a soft, dry cloth.**

**Messages about errors appearing on the display**

Message	Description f the error	Results	Help
“HH”	Overheating (above 45°C) or short-circuit of the room temperature sensor	The compressor turns the device on for 45 minutes, and then turns the device off for 15 minutes	Contact the salesman
“LL”	Too low temperature Open circuit (lack of connection with the room temperature sensor)	The compressor turns the device on for 45 minutes, and then turns the device off for 15 minutes	Contact the salesman

## 8. Waste disposal



The electric and electronic devices often contain valuable materials. They also contain harmful plastics, necessary for their operation and safety. In case of disposing as a common waste material or incorrect utilization they may pose threat for human health and environment.

Therefore in any case the device should be disposed as a common waste.

After the operational period old device should be utilized according to valid regulations. Use the list of collection points for your location to return the electric and electronic devices. We recommend contacting the professional company of proper unit of the local authorities.



### **CAUTION!**

**To exclude any abuse and the dangers involved make the waste device unfit for use before disposal. For that purpose disconnect device from mains supply and remove mains connection cable from the device.**

**The propellant used in the device is flammable. Its utilization should be realized according to the valid regulations.**

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