

# KV 270L



**700551**

**ENGLISH**  
**Translation**  
**of the original instruction manual**



**Read these instructions before using and keep them available at all times!**

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## 1. General information

### 1.1 Information about the instruction manual

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.

### 1.2 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.*

*Please follow the instructions very carefully and proceed with particular attention in these cases.*



#### **WARNING! Electrical hazard!**

*This symbol draws attention to potential electrical hazards. If you do not follow the safety instructions, you may risk injury or death.*



#### **CAUTION!**

*This symbol highlights instructions, which should be followed to avoid any risk of damage, malfunctioning and/or breakdown of the device.*



#### **NOTE!**

*This symbol highlights tips and information, which have to be followed for an efficient and trouble-free operation of the device.*

### 1.3 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.



#### **NOTE!**

***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.

### 1.4 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.***

### 1.5 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.

## **2.Safety**

This section provides an overview of all important safety aspects.

In addition every chapter provides precise safety advice for the prevention of dangers which are highlighted by the use of the above mentioned symbols.

Furthermore, attention should be paid to all pictograms, markers and labels on the device, which must be kept in a permanent state of legibility.

By following all the important safety advice you gain an optimal protection against all hazards as well as the assurance of a safe and trouble-free operation.

### **2.1 General information**

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

Knowing the contents of the instruction manual as well as avoiding mistakes and thus operating this device safely and in a fault-free manner is very essential to protect yourselves from the hazards.

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.

This device may only be operated in technically proper and safe condition.

### **2.2 Safety instructions for use of the device**

The specifications regarding the industrial safety are based on the Regulations of the European Union applicable at the time of manufacturing the device.

If the device is used commercially, the user is obliged to ensure that the said industrial safety measures concur with the state of the rules and regulations applicable at the time in question for the entire period of use of the device and to comply with the new specifications.

Outside the European Union, the industrial safety laws applicable at the place of installation of the device and the regional territorial provisions must be complied with.

Besides the industrial safety instructions in the instruction manual, the general safety and accident prevention regulations as well as environment protection regulations applicable for area of application of the device must be followed and complied with.



### **CAUTION!**

- 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.
- Please keep these instructions and give them to future owners of the device.
- All people using the device should follow the instructions and tips contained in these instructions.
- Only use the device indoors.

## **2.3 Intended use**

Safe operation is only guaranteed when using the device for its intended purpose. Any technical interventions, as well as assembly and maintenance are to be made by a qualified customer service only.

**The refrigerated showcase** is designed for **cooling of foodstuffs** (e.g. snacks or cakes) and **beverages only**.

**Do not use the refrigerated showcase** for any of the following:

- flammable or explosive materials such as ether, alcohol, oil or glue;
- pharmaceutical products or blood products.



### **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.***

## 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.



#### **NOTE!**

***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

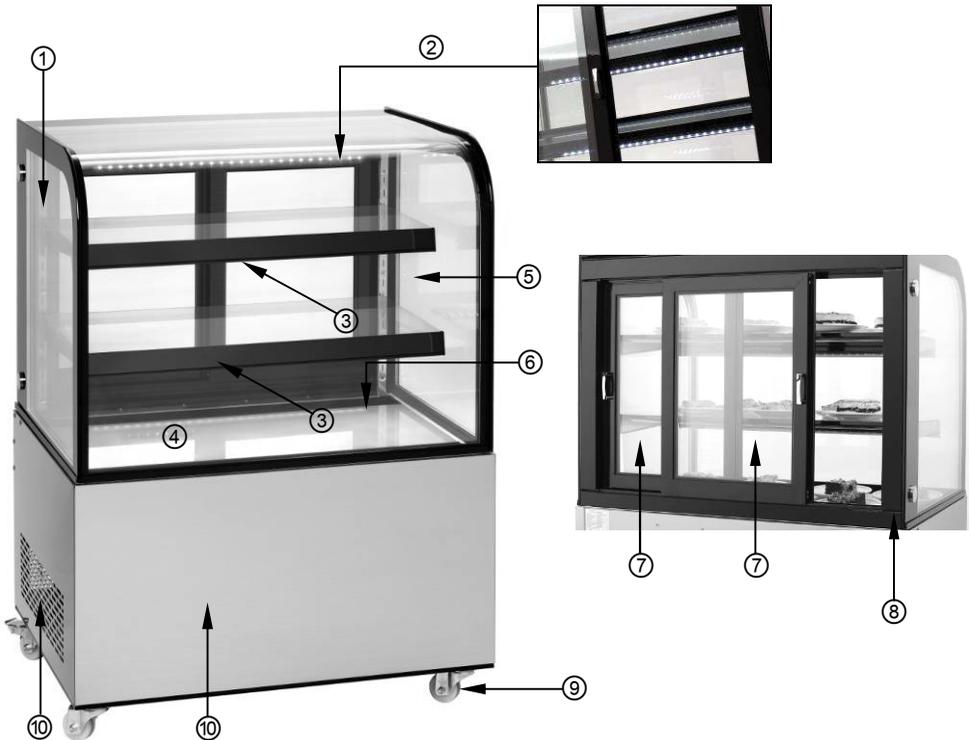
Keep the package closed until installation and under consideration of the outside indicated positioning- and storage markings.

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



- |                             |                              |
|-----------------------------|------------------------------|
| ① Side glass                | ⑦ Glass door                 |
| ② LED lighting strips (2)   | ⑧ Glass frame                |
| ③ Shelves (2)               | ⑨ Castors (4), 2 with brakes |
| ④ Lower operational surface | ⑩ Lower housing              |
| ⑤ Front glass               | ⑪ Air inlets                 |
| ⑥ Air outlets               |                              |

### Air inlet

Air is sucked into the refrigerated showcase and assures optimal cooling in the device. Never cover the air inlets.

### Air outlet

Ejects the cooling air. Do not cover the air outlets with food, they must assure free air flow.

### Shelves

The levels of shelves may be freely adapted to the height of stored food. Place the shelves at required height.

## 4.2 Technical specification

Name	Refrigerated showcase KV 270L
Art. no.:	<b>700551</b>
Housing material:	high-grade stainless steel
Realization:	all-round glazing, double safety glass; Operating side with 2 doors; 4 castors, 2 with brakes
Coolant / amount:	R134a / 200 g
Climate class:	6
Operating temperature:	2 °C – 8 °C
Capacity:	270 litres
Power:	0.475 kW / 230 V 50 Hz
Dimensions:	unit: W 913 x D 680 x H 1,245 mm lower operational surface: W 840 x D 360 mm
Weight:	126.0 kg
Equipment:	2 shelves Inside: W 800 x D 370 mm top: W 800 x D 310 mm

We reserve the right to make technical changes!

## 5. Installation and operation

### 5.1 Safety instructions



**WARNING! Risk of electric shock!**

*The device must only be connected to a properly installed single socket with protective contact.*

*Never remove the power cable by pulling the cable itself; always grab the plug housing.*

- 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 lay the cable over carpets or heat insulations. Do not cover the cable. Keep away the cable from operating range and do not dunk it into water.
- Do not use the device in case it does not function properly, has been damaged or dropped.
- 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.
- Do not move or tilt the device when in operation.

### 5.2 Installation and connection

#### Installation

- Discard the complete packing material after unpacking the device.
- Locate the device in a safe place where the weight of the device and food products contained inside are sufficiently supported.
- Not **at any time** should you place the device on an inflammable surface.
- **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 holes in the device nor mount other objects to it.
- Do not place any heavy objects on the device.
- After positioning in appropriate place block the front castors with brakes.

## Connection



***WARNING! Hazard via electrical current!***

***The device can cause injuries due to improper installation!***

***Before installation the local power grid specification should be compared with that of the device (see type label).***

***Connect the device only in case of compliance!***

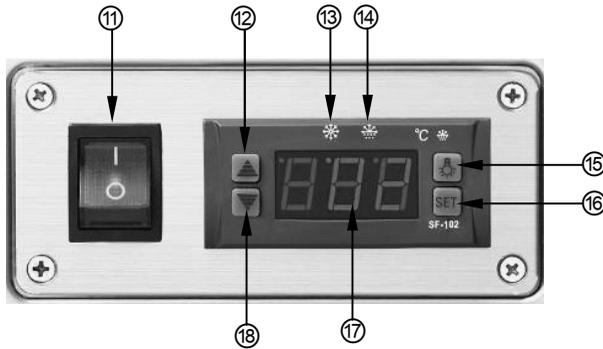
***Take note of the security advice!***

- If the device has not been transported in a vertical position, wait at least 2 hours for the coolant to settle before connecting it to a power source.
- In the event of a power outage or if the device is unplugged, do not reconnect the device to the power network for at least 5 minutes.
- The electrical circuit of the socket must be secured to at least 16A. Only connect the device to a wall outlet; do not use any extension cords or power strips.
- Place the device so that the plug is easily accessible so as to quickly disconnect the device if the need arises.

## 5.3 Operation

- After unpacking and prior to connection clean the device according to the instructions from section 6.2 “**Cleaning**”.
- Connect the device to the single grounded socket.
- The required values may be set with use of control elements on the back wall of the device.

## Control elements (back wall)



- ⑪ **ON/OFF** switch with integrated lamp (red)
- ⑫ Temperature **increasing** button
- ⑬ LED cooling indicator
- ⑭ LED defrosting indicator
- ⑮ LED illumination button
- ⑯ **Settings** control/saving button
- ⑰ Digital display
- ⑱ Temperature **decreasing** button

## LED indicators

❄️	<p><b>LED cooling indicator</b></p> <p>That indicator is <b>on</b> when the compressor is activated, <b>off</b> when the internal temperature is reached and <b>flashes</b> during delay.</p>
❄️	<p><b>LED defrosting indicator</b></p> <p>That indicator is <b>on</b> during defrosting, <b>off</b> when defrosting is finished and <b>flashes</b> during extended defrosting time.</p>

## Start-up

- Start the device with use of **ON/OFF** switch on the control panel. The red light, integrated with the switch, will come on.
- The digital display will show the preset temperature value and the LED cooling indicator will come on.
- The device should reach the preset temperature before placing the food products inside.

## Setting of required temperature (required value)

- The operating temperature in the device is in range 2 °C to 8 °C.
- Setting of changing of required value:
  - press **SET** button, the set value flashes;
  - increase or decrease the value with  or  button as required;
  - confirm the value entered by pressing the button **SET**.
- If no button is pressed during the next 10 seconds, the digital display will show the temperature inside the device.

## Turning on/off of LED lighting

- The device is equipped with 2 illumination LED strips (in the upper part).
- The LED illumination may be turned on as required by pressing  button.
- In order to turn the lighting off  button must be pressed again.

## Defrosting

### **Automatic defrosting**

The device automatically defrosts 4 times per 24 hours.

### **Manual defrosting**

When it is required to defrost at other time, press and hold  button longer than 6 seconds.

The LED defrosting indicator  will come on and will blink until the defrosting process is finished. After defrosting the LED defrosting indicator  comes off and the next defrosting will start after 6 hours.

- In case of planned break in the device operation turn it off with use of **ON/OFF** switch and disconnect from the power supply (remove the plug from the socket!).

### Tips for the user

- To minimize loss of cold, keep the sliding doors open for as short of a time as possible. Moreover do not open the slide doors too often.
- Do not cover the air inlet and outlet holes in the device. Air must circulate freely in order to assure appropriate cooling properties.
- The stored food should be placed in appropriate distances from each other. Too little distances reduce the cooling effect.
- Adapt the distances between the shelves to the height of stored products.
- Warm food should be cooled to the room temperature before storing.
- Do not place the stored food (e.g. cakes, snacks) directly on the shelves, but always on appropriate plates or trays.
- In the event of a power failure, avoid opening doors if possible in order to avoid cold loss.
- After a power outage or after removing the plug from its socket do not connect the device to a power source for at least 5 minutes.

## 6. Cleaning and maintenance

### 6.1 Safety advice

- Before beginning with repair or cleaning works make sure the device has been disconnected from power supply and has cooled down.
- Do not use any acid agents and make sure no water ingresses the device.
- To protect yourself from electric shock, **never** immerse the device, its cables and the plug in water or other liquids.



#### **CAUTION!**

***The device is not suited for direct washing via water jets.***

***Therefore, you must not use any kind of pressure water jet for cleaning the device!***

## 6.2 Cleaning

- Clean the refrigerated showcase periodically.
- In order to facilitate cleaning it is possible to remove the slide doors by lifting and pulling out.
- It is possible to remove the shelves when required. Wash the surfaces of the slide doors and shelves with use of gentle washing agent and soft moistened cloth.
- Wash the side and front glasses inside and outside with use of gentle washing agent and soft moistened cloth. All washed surfaced should be rinsed with cleaned water and thoroughly dried.
- **Never** use aggressive cleaning agents, such as scouring powders, alcohol-based substances, or solvents which may damage the surfaces of the device.
- Always use the soft cloth only, **never** use any abrasive washcloth which may scratch the device.
- After cleaning dry and polish the surface with dry cloth.
- Fix the shelves at required height and reinstall the glass slide doors.

### In case of longer break in operation:

- remove the plug from its socket;
- remove all food products from the device;
- clean the refrigerating showcase according to the recommendations above;
- leave the doors opened for complete drying.

## 6.3 Safety instructions for maintenance

- Inspect the power cable regularly for damage. Never use the device if the cable is damaged. If the power cable is damaged, have an authorised service center or qualified electrician replace it.
- In case of damage or malfunction, please contact your stockist or our customer service centre. Pay attention to the troubleshooting tips in pt. 7.
- 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.**

## 7. Possible Malfunctions

Problem	Cause	Solution
<b>No cooling</b>	<ul style="list-style-type: none"> <li>• The plug is incorrectly connected to the socket.</li> <li>• Damaged fuse.</li> <li>• Power outage.</li> </ul>	<ul style="list-style-type: none"> <li>• Connect the plug correctly.</li> <li>• Check power supply</li> <li>• Check power supply</li> </ul>
<b>Insufficient cooling power</b>	<ul style="list-style-type: none"> <li>• Direct sunlight or heat sources in the vicinity of the device.</li> <li>• Poor air circulation in the device.</li> <li>• The slide doors are opened or the opening time was too long.</li> <li>• Too little distances between the stored food or too much food in the device.</li> <li>• Covered air inlet or outlet.</li> </ul>	<ul style="list-style-type: none"> <li>• Move the device from the heat sources.</li> <li>• Assure sufficient distances to the walls or other objects.</li> <li>• Close the slide doors, minimize the opening time.</li> <li>• Assure sufficient spaces between the food products, remove the food excess.</li> <li>• Do not cover the air inlet and outlet holes.</li> </ul>
<b>Loud operation</b>	<ul style="list-style-type: none"> <li>• The device is not placed on the even surface.</li> <li>• The device touches walls or other objects.</li> </ul>	<ul style="list-style-type: none"> <li>• Place the device on the even surface.</li> <li>• Ensure sufficient distance between the device and walls or other objects.</li> </ul>

**The above described problem cases are given for orientation and as examples. Should these or similar problems occur, please turn off the machine immediately and don't use it anymore. In order to check and repair your machine, please contact a qualified expert or the manufacturer immediately.**

**The following events are not indicators of malfunction:**

1. The sound of running water. This is normal when the device is functioning properly. It is coolant flowing through the cooling system.
2. Condensation forming on the side and front glasses walls during periods of high humidity is normal. Wipe with a dry cloth.

## Messages about errors appearing on the display

Message	Description for 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

### Discarding old devices

At the end of its service life the discarded device has to be disposed in accordance with the national regulations. It is advisable to contact a company which is specialized in waste disposal, or just contact the local disposal service in your community.



#### **WARNING!**

*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.*



#### **NOTE!**



*For the disposal of the device please consider and act according to the national and local rules and regulations.*

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