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700421

Bartscher GmbH
Franz-Kleine-Str. 28
D-33154 Salzkotten
Germany

Phone: +49 5258 971-0

Fax: +49 5258 971-120

Technical Support Hotline: +49 5258 971-197

www.bartscher.com



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Original instruction manual

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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

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.
- 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.

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.

Operating Personnel

- The appliance may only be operated by qualified personnel and trained specialist personnel.
- This appliance may not be operated by persons (including children) with limited physical, sensory or mental capabilities, nor by persons with limited experience and/or limited knowledge.
- Children should be supervised to ensure that they are not playing with or switching on the appliance.

- Children aged 3 to 8 may load and unload the refrigerator.

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.
- 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:

- Cooling of suitable food products and hors-d'oeuvres in suitable containers, on plates, etc.

The appliance is intended for operation in maximum ambient temperature of 32°C and relative humidity of 65%.

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.

The warranty period for this appliance is 24 months, counted from the purchase date.

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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.

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.

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:	Cooling top unit 7450 2E
Art. No.:	700421
Material:	glass, stainless steel, aluminium
Volume, in l:	177
Temperature range, min.–max., in °C:	-1 - 7
Cooling:	circulating air
Coolant, amount in kg:	R290 / 0,056 kg
Climate class:	4
Energy efficiency class:	C (EU Nr. 2019 / 2018)
Energy consumption, in kWh/year:	2174
Number of sliding doors:	2
Number of shelves:	2
Shelves dimensions (W x D), in mm:	745 x 335
Display area material:	steel, chrome-plated
Display area dimensions (W x D), in mm:	755 x 340
Connected load:	0,35 kW 220-240 V 50 Hz
Dimensions (W x D x H), in mm:	805 x 440 x 970
Weight, in kg:	75,6

We reserve the right to implement technical modifications.

Version / Characteristics

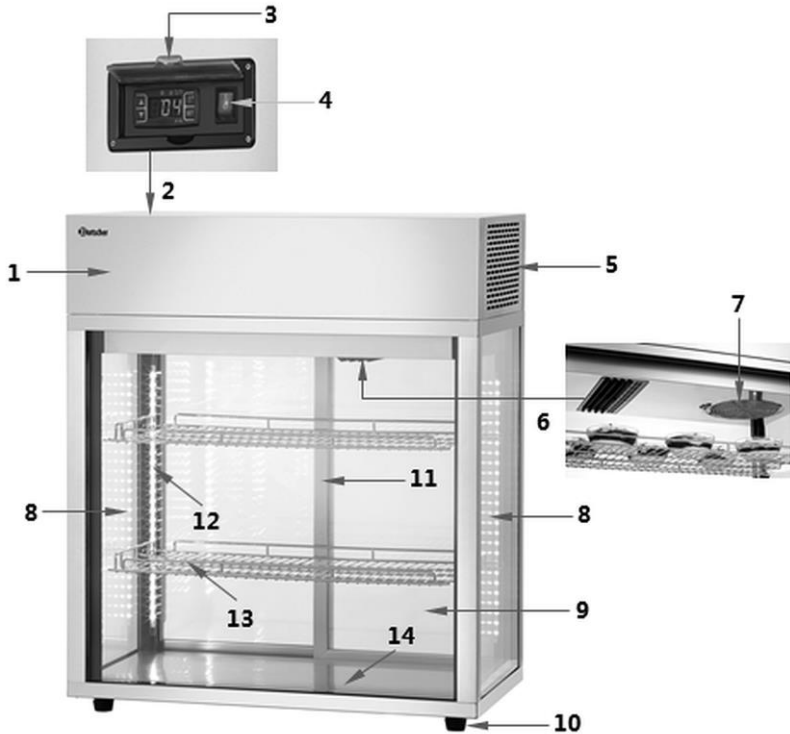
- Temperature control: digital
- Automatic defrost function
- Evaporation of condensed water
- Control: electronic
- Digital display
- Internal lighting
 - LED
 - vertical, in corners
 - switched on separately
- Door type: sliding door
- Door position: rear side
- Front pane: cased / framed
- Type of glazing: double glazing
- Safety glass
- Type of shelves: grille
- Height-adjustable shelves
- Indicator light: ON/OFF
- Insulation: cyclopentane C5H10

More information on the appliance is available in our website www.bartscher.com or, pursuant to the Regulation (EU) 2019/2018, in our product data base at <https://energy-label.ec.europa.eu/>. Enter article number for a given model.

4.2 Functions of the Appliance

Suitable food products or hors-d'oeuvres in containers, on plates, in bowls, etc. are cooled through the required time in the set temperature.

4.3 List of Components of the Appliance



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Fig. 1

- | | |
|--|--|
| 1. Housing | 2. Digital temperature regulator |
| 3. Control elements cover | 4. ON/OFF switch with integrated power indicator light (green) |
| 5. Ventilation openings | 6. Ventilation openings |
| 7. Fan | 8. Side glass pane (2 pcs) |
| 9. Front glass pane | 10. Feet (4 pcs) |
| 11. Server's side sliding door (2 pcs) | 12. LED lighting strip (2 pcs) |
| 13. Shelves (2 pcs) | 14. Bottom working surface |

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 negatively affect power consumption, and restrict functions of the appliance, too.
- Place the appliance so that sufficient air circulation is ensured. Leave 10 cm clearance from walls and other objects.
- In order to avoid damage to the compressor, do not tilt the appliance more than 45° when positioning or transporting it.

Installation and operation

- If the appliance is to be relocated, follow the instructions below:
 - switch the appliance off;
 - disconnect the plug from the socket;
 - take out contents of the appliance;
 - tape firmly all loose elements in the internal chamber and tape the door;
 - the appliance may only be transported in vertical position.

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

- To limit loss of cold air minimize the opening time of doors. Moreover, the sliding doors should not be opened too often.
- Do not obstruct ventilation openings inside the Cooling top unit. The air must freely circulate to provide for cooling functionality.
- The food products stored in the appliance must be arranged in sufficient distances between them. Insufficient distances hinder the cooling effect.
- Cool warm food products down to ambient temperature before placing them the appliance.
- If possible, in the event of a sudden power failure, avoid opening sliding doors in order to avoid loss of cool air.

Preparation of the Appliance

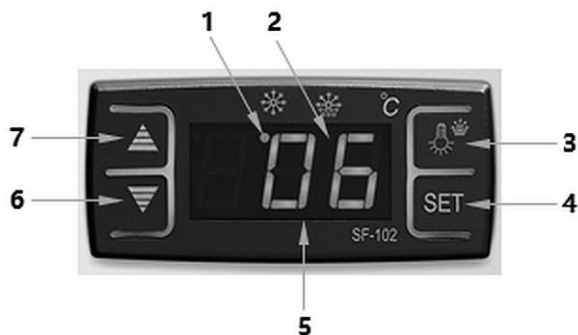
1. Prior to first operation, clean the appliance and its equipment according to instructions in section '**Cleaning**'.
2. To end with, dry the appliance and accessories thoroughly.
3. Introduce the shelves into the appliance at the selected height.
4. Close the sliding doors at server side.
5. Plug the appliance into a suitable single socket.
6. Preliminary cool the cooling top unit, using the factory set default values.

NOTE!

Place the prepared food products only after the appropriate cooling capacity has been reached.

The temperature inside the cooling top unit is shown on the digital display. The displayed temperature value is the measured value in the area of the temperature sensor. It serves the purpose of controlling the compressor.

Digital temperature control / button functions



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

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 blinks during switch on delay.





LCD defrosting indicator

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

Temperature Setting

The optimum temperature setting is factory default and it equals the operating temperature of $-1\text{ }^{\circ}\text{C} - 7\text{ }^{\circ}\text{C}$ inside the cooling top unit.

To change the temperature settings, perform the following steps:

- Press the **SET** button; the set temperature is displayed.
- Press the  or  button to change the displayed value.
- Press the **SET** button again to save the setting and return to displaying temperature of the cooling compartment.



NOTE!

If no other button is pressed within 10 second, the temperature of the cooling compartment will be shown in the digital display.

Switching the LED Lighting On/Off

The appliance is equipped with internal illumination, which is arranged vertically in corners of the cooling top unit.

The LED lighting may be switched on and off any time.


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

Automatic Defrosting


The appliance defrosts automatically 4 times over a 24-hour period.

Initiation of Manual Defrosting/Finishing Defrosting Process

If cooling efficiency drops, e.g. after a prolonged period opening door, manual defrosting is required.

1. Press the  button and hold it pressed for 6 seconds, to initiate defrosting or finish this process.



The defrosting LCD indicator light is lit.

2. Press the  button and hold it pressed for 6 seconds, to finish the defrosting process.

The defrosting LCD indicator light goes off.

Temperature Controller Reset

If the display shows a fault message:

1. Press the  button and hold it pressed for 2 seconds, until the buzzer sounds.
2. Press the  button and hold it pressed for 6 seconds, until the buzzer sounds again.

The digital display blinks for 3 seconds while factory default settings are restored.

Switching the Appliance Off

1. When the appliance is not to be used any more, it should be switched off with the ON/OFF switch located at the back wall.
2. Unplug the appliance.

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.

Cleaning

- 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.

6.2 Cleaning

1. Clean the appliance regularly at the end of a working day.
2. Open the appliance sliding door.
3. Remove all objects from the appliance.
4. Remove all shelves from the appliance.
5. Clean the shelves with mild washing agent and soft cloth or sponge in warm water. Rinse the shelves with clean water and dry thoroughly with soft cloth.
6. Wash the bottom baseplate area thoroughly, using warm water and a soft cloth. Use mild cleaning agent if required. Wipe the cleaned surfaces with a cloth moistened in clean water.
7. Wipe the side glass panes and sliding doors thoroughly with a soft, damp cloth.
8. Clean the housing and power cord with a soft, damp cloth only.
9. Finally, dry thoroughly all washed surfaces.
10. Place the shelves back in the appliance.
11. Regularly remove dust and fibres from ventilation openings of the appliance with a soft brush or dust brush.
12. After cleaning, leave the sliding doors open for the appliance to dry completely.
13. If the appliance is not to be used for a longer period of time, clean it according to the instructions above. Leave the appliance open to prevent generation of unpleasant odours inside.

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.

In such a case, provide article number, model name and serial number. These data may be found in the rating plate.

Error	Possible Cause	Solution
Insufficient cooling efficiency	Direct sunlight or heat sources in immediate vicinity	Move the Cooling top unit from the heat source
	Poor air circulation around the Cooling top unit	Keep sufficient clearance from walls or other objects.
	The sliding doors are not entirely closed or are open for too long	Close the sliding doors Limit the opening time of doors to minimum
	Clearance between the stored food products is too small or too many food products in the Cooling top unit	Make sure the clearance between food products in the Cooling top unit is sufficient
	Covered inlet and/or outlet air vents in the Cooling top unit	Clear the inlet and outlet air vents in the Cooling top unit, by removing food products and other objects

Possible Malfunctions

Error	Possible Cause	Solution
No cooling	The plug is not connected to the mains socket	Insert the plug correctly
	Damaged power circuit fuse	Check the electric power supply
	No power supply	Check the electric power supply
	Damaged temperature controller	Contact our service company
Loud noises during operation	The Cooling top unit is placed on uneven surface	Place the Cooling top unit on even surface
	The Cooling top unit touches walls or other objects	Make sure the clearance between the Cooling top unit and other objects is sufficient
The compressor does not switch off automatically	The Cooling top unit is overfilled	Remove the excess of food products from the Cooling top unit
	Sliding doors have been open for too long	Limit the opening time of doors to minimum

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Error Messages

Error Message	Error Description	Outcomes	Solution
HH1	Overheating (over 80 °C) or shorting of room temperature sensor.	The compressor starts to work for 45 minutes and then switches off for 15 minutes.	Contact the service company.
LL1	The temperature is too low (below 60 °C) or the circulation is open (no connection with the ambient temperature sensor).	The compressor starts to work for 45 minutes and then switches off for 15 minutes.	Contact the service company.

The following phenomena are not malfunctions:

1. Sound of water flowing. The sound is heard during normal use. This is a sound of coolant flowing through the installation.
2. Water vapour condensation on internal glass components in high air humidity conditions is a normal occurrence. Wipe the water vapour out with a soft, dry cloth.

Spare Parts

Spare parts for the purpose of repairing this appliance, as stipulated in Annex II to the REGULATION (EU) 2019/2018, are available for at least eight years, counted from the date of introduction of the last appliance of this model to market.

8 Disposal

Electrical Appliance



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.

Electrical appliances should be returned to designated collection points.

Coolant

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