

**KV 270L**



**700562**

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](http://www.bartscher.com)



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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 .....	11
4.3	Functions of the Appliance.....	12
5	Installation and operation .....	12
5.1	Installation.....	12
5.2	Operation .....	14
6	Cleaning and Maintenance .....	17
6.1	Safety Instructions for Cleaning .....	17
6.2	Cleaning.....	17
6.3	Maintenance .....	18
7	Possible Malfunctions.....	18
8	Disposal.....	20



**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.
- 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**

- This appliance is not intended to be used 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 the appliance on.

## **Improper Use**

## Safety

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- 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 food (e.g., snacks, cakes) and beverages.

The appliance is intended for operation in maximum ambient temperature of 30 °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.

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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

<b>Name:</b>	<b>Display fridge KV 270L</b>
Art. No.:	<b>700562</b>
Material:	stainless steel, glass, plastic
Volume, in l:	270
Temperature range, min.–max., in °C:	2 - 10
Amount of coolant, in kg:	R290 / 0,140
Climate class:	4
Energy efficiency class:	C (EU Nr. 2019 / 2024)
Energy consumption, in kWh/year:	2703
Number of shelves:	2
Top/bottom shelf dimensions (W x D), in mm:	800 x 360 / 800 x 370
Surface material:	glass
Display area dimensions (W x D), in mm:	840 x 360
Connected load:	0,475 kW   230 V   50 Hz
Dimensions (W x D x H), in mm:	915 x 680 x 1.240
Weight, in kg:	125,8

We reserve the right to implement technical modifications.

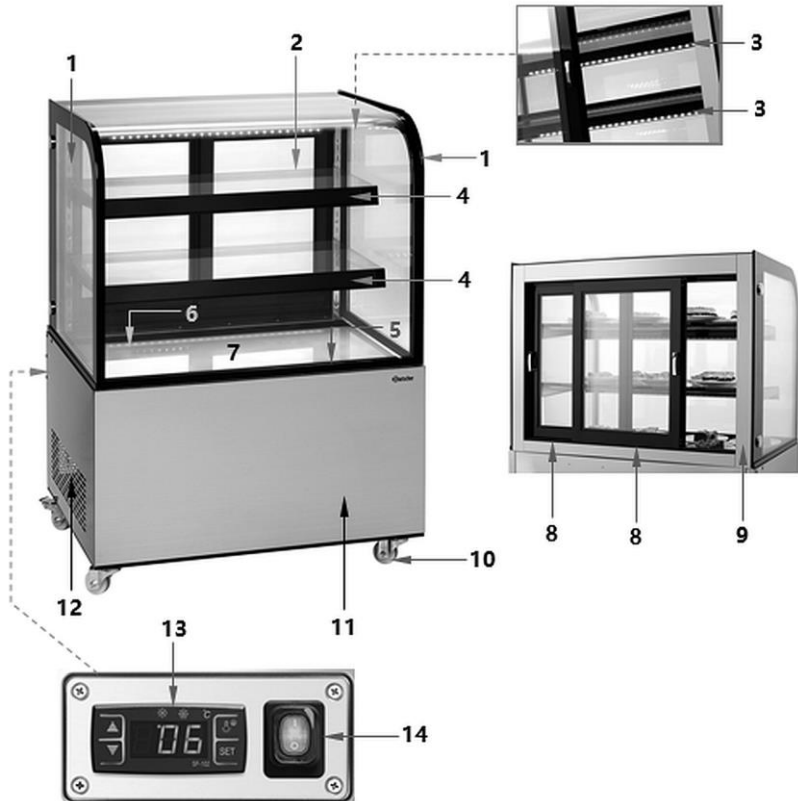
## Version / Characteristics

- Colour: silver, black
- Cooling: circulating air
- Temperature control: digital
- Control: key
- Digital display
- ON/OFF switch
- Indicator light: ON/OFF
- Automatic defrost function
- Evaporation of condensed water
- Internal LED lighting:
  - location: at the front
  - switched on separately
- Door type: sliding door
- Door hinge: left/right, no possibility of changing
- Door position: rear side
- Type of glazing:
  - double glazing
  - all-round glazing
  - safety glass
- Front glass:
  - with edges turned down
  - framed/rimmed
- Swivel castors: 4 swivel castors, 2 with brakes
- Shelves:
  - adjustable height
  - with price strips
  - type: glass pane
- Internal usable height: variable

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More information on the appliance is available in our website [www.bartscher.com](http://www.bartscher.com) or, pursuant to the Regulation (EU) 2019/2024, in our product data base at <https://energy-label.ec.europa.eu/>. Enter article number for a given model.

## 4.2 List of Components of the Appliance



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Fig. 1

- |                                    |   |
|------------------------------------|---|
| 1. Side (right/left) glass pane    | 2. Front glass pane                               |
| 3. LED lighting strips (2 pcs)     | 4. Shelf with price strip (2 pcs)                 |
| 5. Internal air outlet openings    | 6. Internal air inlet openings                    |
| 7. Lower display area              | 8. Glass pane sliding door with handle (2 pcs)    |
| 9. Glass pane frames               | 10. Swivel castors (4 pcs), 2 castors with brakes |
| 11. Lower casing                   | 12. Ventilation openings                          |
| 13. Digital temperature controller | 14. ON/OFF switch                                 |

### 4.3 Functions of the Appliance

The display fridge is ideally suited a product counter area in any sales hall. The height adjustable shelves with price strips offer attractive display surface for chilled beverages, snacks and food courses.

## 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.

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- 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.
- In order to avoid damage to the compressor, do not tilt the appliance more than 45° when positioning or transporting it.

## Installation and operation

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- 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.
- Do not block nor cover the ventilation openings nor air inlet or air outlet of the appliance.
- Place the appliance so that sufficient air circulation is ensured. Do not block nor cover ventilation openings in the rear wall of the appliance.
- Leave at least 10 cm clearance from walls and other objects.
- Lock the casters with the parking brake when the appliance is set in a suitable location.

## 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 beverage and food product containers, so that the inner space of the appliance is used optimally.
- Beverages and food products in suitable containers should be arranged on the shelves so that proper distances between them allow for sufficient air circulation inside the appliance. Insufficient distances hinder the cooling effect.
- Do not place warm food dishes in the appliance; cool them down to ambient temperature first.
- 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 the doors of the appliance in order to avoid loss of cool air.

### Preparation of Appliance

1. Prior to the first use clean the appliance and its components thoroughly according to the instructions included in section 6 '**Cleaning**'.
2. To end with, dry the appliance and accessories thoroughly.
3. At a required height, place supports on guide rails and insert shelves.
4. Close the glass pane sliding doors at server's side.
5. Plug the appliance into a suitable single socket.

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### Appliance Start-up

1. Switch the appliance on with the ON/OFF switch located at user's side.

The green indicator light integrated with the ON/OFF switch will come on.

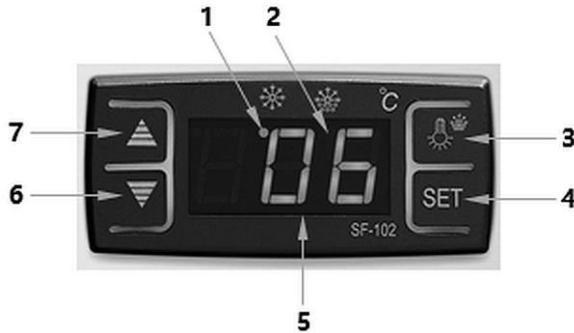
The appliance will be cooled down to the factory pre-set temperature.

The digital display shows current temperature inside the appliance. The LCD cooling indicator ❄ will come on, and it will be lit throughout the entire cooling process.

2. Beverages and food products should be placed in the appliance only when it reaches the required temperature.
3. If needed, the temperature may be altered with digital temperature control regulator buttons. Observe indications set forth in section 'Settings'.



### 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

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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 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.

### Settings

#### Setting the Set Value (Set Temperature Value)

The optimum temperature setting is factory default and it equals the appliance operating temperature of approx. 2–10°C.

The set temperature may be changed the following way:

- press  button shortly; the set value will start to flash immediately;
- use  or  buttons to increase or decrease temperature value;
- use  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.**

### Defrosting


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#### Automatic Defrosting


Automatic defrosting is configured automatically and is executed 4 times per 24 hours.

#### Manual Defrosting

If cooling efficiency drops (e.g. after a longer period of door opening) or if defrosting needs to be executed following another schedule than the factory default one, there is a possibility of manual setting of the defrost function.



1. Press  button and hold it pressed for 6 seconds, to initiate instant defrosting.

The LCD defrosting indicator light  will come on. The defrosting process starts.

After the defrosting process the LCD defrosting indicator light  goes off. The next defrosting process starts automatically within 6 hours.

### Switching the LED Lighting On/Off

The appliance is equipped with 2 LED lighting strips in the top section of glass panes.

1. If needed, press  button shortly to switch the LED lighting on.
2. Press the  button again, to switch the LED lighting off.

### Switching the Appliance Off

1. If the appliance is not to be used any more or is scheduled for cleaning, it should be switched off with the ON/OFF switch.
2. Disconnect the appliance from the mains socket (pull the plug out).

## 6 Cleaning and Maintenance

### 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. At the end of a working day, clean the appliance thoroughly.
2. Remove all objects from the appliance.
3. In order to facilitate cleaning, remove the glass pane sliding doors by lifting and pulling them out.
4. If necessary, remove shelves.
5. Use a soft, damp cloth to clean the glass pane sliding doors and shelves. Use a mild cleaning agent if required.
6. Use a soft, damp cloth to wipe the inside and the outside of side glass panes, as well as front glass pane.

7. Use a soft, damp cloth to clean the bottom baseplate, housing and frame of the appliance.
8. Wipe cleaned elements and surfaces with a cloth moistened in fresh water.
9. Finally, thoroughly dry all cleaned parts and surfaces with a soft cloth.
10. Fix the shelves at the appropriate height and reattach the glass sliding doors.
11. Leave the glass pane sliding doors open for the appliance to dry completely.

### 6.3 Maintenance

- Let the appliance to be inspected by professional technician at least once a year or as required.

## 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.

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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
No cooling	Plug is not properly connected to a socket	Check the plug and insert it properly in a socket
	Electric power supply safety fuse damaged	Check the fuse, connect the appliance to another socket
	No power supply	Check the electric power supply
	Damaged temperature controller	Contact the supplier
	Loss of the coolant	Contact the supplier

## Possible Malfunctions

Malfunction	Possible Cause	Solution
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
	Glass pane sliding doors are not closed properly or they have been opened for too long	Close glass pane sliding doors; limit the door opening time to minimum
	Blocked/covered air inlet and/or air outlet	Make sure the air inlet and air outlet are free
	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
Compressor does not switch off automatically	Overfilled appliance	Remove the excess of objects
	Door is opened for too long	Limit the opening time of doors to minimum
Appliance operates loudly	Appliance is not placed on an even surface	Place the appliance on an 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.
- Water vapour condensation on side glass parts in high air humidity conditions is a normal occurrence. Wipe the water vapour out with a soft, dry cloth.

### Error Messages in the Digital Display

Error	Description	Outcomes	Solution
'HH'	Overheating (over 45°C) or shorting of room temperature sensor	Compressor starts to work for 45 minutes and then switches off for 15 minutes	Contact the service company
'LL'	Temperature is too low Open circulation (no connection with the ambient temperature sensor)	Compressor starts to work for 45 minutes and then switches off for 15 minutes	Contact the service company

### Spare Parts

Spare parts for the purpose of repairing this appliance, as stipulated in Annex II to the REGULATION (EU) 2019/2024, are available for at least eight years, counted from the date of introduction of the last appliance of this model to market.

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## 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.