



190091

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Original instruction manual

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Read these instruction manual before using the appliance 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.

Read this instruction manual before you use the appliance and particularly before you start the appliance to prevent injury or damage. Incorrect use may cause damage.

All important information contained in the operating instructions must be available to the appropriate staff at all time. The operator shall be responsible for their availability.

In addition to the operating instructions, you must comply with the general, legal and other applicable regulations for occupational safety and environmental protection.

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.

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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.

Safety

- 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.

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Operator's responsibility

The operator is responsible for complying with the currently applicable laws, regulations, ordinances and existing national regulations on accident prevention, environmental protection, as well as the internal operation, operating and safety instructions that apply at the respective installation site.

Obligations of the operator:

- Operate the appliance and its components only in a technical condition that does not raise any objections, with functional protective and safety elements.
- Prepare risk assessment at work positions.
- Provide instruction and regular staff training. Pay special attention to and observe the section concerning safety and any safety hints.
- Provide suitable personal protective equipment (PPE)
- Observe the intervals of maintenance and cleaning.
- Document training/instructions, replacement of components.

Operating Personnel

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

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

This appliance is only intended for use described in the operating instructions, with the supplied and approved components.

Any other use is considered against the intended purpose. The manufacturer shall not be liable for any damage due to unintended use. In such cases the responsible party shall only be the user/operator.

The following is an intended purpose:

- Cooling milk for preparing coffee in a coffee machine
- Cups warming

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

The appliance was built in accordance with the current state of the art and recognized technical safety principles. Nevertheless, during its use, there may be a threat to the health and life of the user or bystanders, or the danger of damage to the device or other assets. Warranty and liability claims for personal injury/property damage as well as defects at work are excluded if they can be attributed to one or more of the following causes:

- Use against the intended purpose
- Failure to follow/disregard the instructions and all related information
- Unauthorized structural or technical changes to the device
- Engaging insufficiently trained and insufficiently qualified personnel
- Operation with defective or incorrectly installed safety and protective devices
- Inadequate maintenance or cleaning
- Faults not fixed
- Use of prohibited media, cleaning agents, etc.
- Use of unauthorised spare parts
- Errors in operation or other misuse
- Disasters caused by foreign objects or force majeure
- Destruction of the type plate and stickers relevant for operation and safety

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

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:	Milk refrigerator cup warmer combi
Art. No.:	190091
Material:	stainless steel glass
Inner material:	stainless steel
Internal dimensions of the milk refrigerator (W x D x H), in mm:	243 x 178 x 280
Milk refrigerator volume, in L:	12
Dimensions of the cup warming surface, top bottom (W x D), in mm:	275 x 180 275 x 430
Distance between the cup warming surfaces, in mm:	86
Max. number of cups:	30
Milk refrigerator temperature range, min.–max., in °C:	1 - 6
Cups warmer temperature range, min.–max., in °C:	30 - 60
Ambient temperature, max., in °C:	30
Climate class:	4
Coolant, amount in kg:	R600a / 0,018
Degree of protection:	IPX3
Connected load:	0,225 kW 220-240 V 50 Hz
Dimensions (W x D x H), in mm:	310 x 485 x 540
Weight, in kg:	23,5

We reserve the right to implement technical modifications.

Version / features

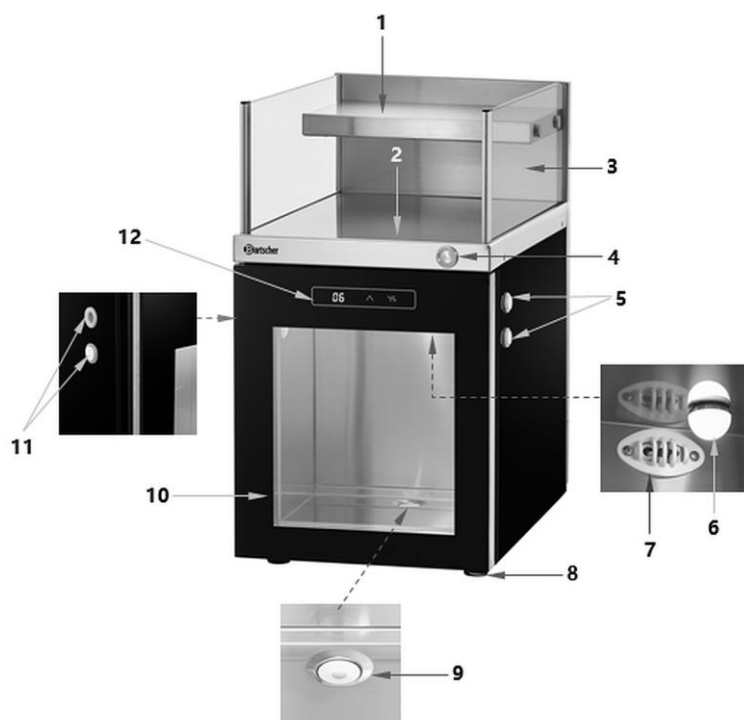
- Cooling: compressor
- Temperature control:
 - Milk refrigerator: electronic, in 1°C increments
 - Cups warmer: stepless
- Opening for milk tube:
 - 2 openings on the milk refrigerator on the left and right side of the appliance

Technical Data

- Ø 10 mm
- Cups warmer surfaces:
 - 1 integrated heating element on each surface
- Automatic defrost function: no
- Evaporation of condensation water
 - no
 - separate condensation drainage
- Thermostat: yes (milk refrigerator + cups warmer)
- Insulation: Cyclopentane (milk refrigerator)
- safety thermostat: yes (milk refrigerator + cups warmer)
- Control:
 - Cups warmer: knob | switch
 - Milk refrigerator: button | touch control
- Interior lighting: yes (milk refrigerator)
- Digital display: yes (milk refrigerator)
- Lockable: no
- Door type: leaf door
- Number of doors: 1
- Door hinge: on the right
- Possibility of changing door hinge side: no
- Height-adjustable feet: yes
- ON/OFF switch: 2 separate switches for the milk refrigerator and cups warmer
- Indicator light: ON/OFF
- Features:
 - Designed for, e.g., 6 Tetra Pak® cartons, 1 litre each
 - Direct milk supply through the openings on the side of the appliance
 - LED lighting, switched on separately
- Including: 4 tube feedthrough covers

Important information: Tube feedthroughs are closed upon delivery

4.2 List of Components of the Appliance



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Rear view

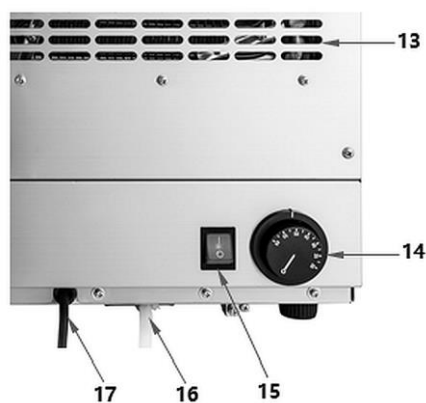


Fig. 1

Description for Fig. 1

- | | |
|--|--|
| 1. Upper surface for cups placement | 2. Lower surface for cups placement |
| 3. Side wall of the cups warmer | 4. ON/OFF switch of the cups warmer |
| 5. Milk tube feedthrough, right (2x) | 6. LED lighting |
| 7. Temperature sensor | 8. Feet (4x), height-adjustable |
| 9. Opening of the condensation water drainage | 10. Appliance door |
| 11. Milk tube feeds, left (2x) | 12. Digital milk refrigerator temperature controller |
| 13. Ventilation openings | 14. Cups warmer temperature controller |
| 15. Milk refrigerator ON/OFF switch with an integrated power indicator (red) | 16. Condensation water drain hose |
| 17. Connection cable | |

4.3 Functions of the Appliance

The combination of a milk refrigerator and cups warmer is a perfect addition to coffee machines.

With side feeds of the milk tube, this practical milk refrigerator provides direct access to cooled milk. The cooled milk is stored hygienically and, if required, may be dispensed directly for preparing coffee using the milk tube that a coffee machine is equipped with.

On 2 heated surfaces of the cups warmer, you can warm up to 30 cups to the ideal temperature.

5 Installation and operation

5.1 Installation



CAUTION!

Incorrect installation, positioning, operation, maintenance or misuse of the appliance may lead to personal injury or property damage.

Positioning and installation, as well as repairs may be performed by authorised technical service only and in compliance with the applicable national law.

NOTE!

The manufacturer disclaims all liability and provides no warranty for damages, which may be attributed to non-observance of regulations or incorrect installation.

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Unpacking / Positioning

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



CAUTION!

Choking hazard!

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

- 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 affixed to 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.
- When selecting the installation site, please consider the following items:

Installation and operation

- The mounting surface must be even, sufficiently load-bearing, waterproof, dry and resistant to high temperatures.
 - Make sure that the designated escape routes are clear.
 - Ensure a stable position.
 - Allow sufficient space for work, maintenance and cleaning.
 - Leave the supply and exhaust air vents, if any, free.
 - Comply with applicable technical and building regulations.
- Maintain sufficient clearance from table edges. The appliance might turn over and fall down.
- Leave at least 10 cm clearance from walls and other objects.
- The appliance should be installed in rooms, where ambient temperature does not exceed 30°C.
- Do not position the appliance in high humidity locations.
- 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.
- To avoid damage to the compressor, do not tilt the appliance more than 45° when positioning or transporting it.
- Compensate for smaller unevennesses of flooring in the place of installation through screwing in and out of the height-adjustable feet.

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Power supply connection

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

5.2 Operation

Before use

1. Before use, clean the appliance observing the instructions in section 6 'Cleaning'.
2. Then dry the appliance thoroughly.
3. Close the milk refrigerator door.

Digital milk refrigerator temperature controller / buttons functions

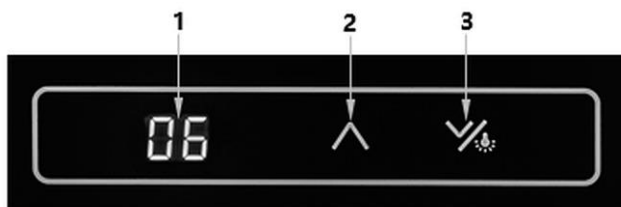


Fig. 2

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1. Digital temperature display
 2. Temperature increase button
 3. Temperature decrease button / lighting
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1. Current temperature inside the milk refrigerator is displayed on the digital display of the temperature controller (1).
 2. By pressing the  button you increase the temperature.
 3. By briefly pressing the  button you can turn on/off the LED lighting inside the milk refrigerator and decrease temperature.

Starting the appliance

1. Plug the connection cable into a suitable single socket.
2. Switch the appliance on using ON/OFF switch located at the rear side.

The switch integrated power indicator (red light) comes on.

The digital display shows current temperature in the inner compartment of the appliance.

Temperature adjusting inside the milk refrigerator

1. Press the  button to go to temperature adjustment mode.

Temperature value is blinking on the digital display.

2. Press the  or  button to increase or decrease the value of temperature. You may set the temperature within the range of 1°C and 6°C, in 1°C increments any time.

If no button is pressed for 5 seconds in the temperature adjustment mode, the device will exit the temperature mode and return to the normal display. The settings will be saved automatically.

Switching on/off the LED lighting inside the milk refrigerator

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

Loading milk refrigerator

1. As soon as the milk refrigerator reaches the set temperature inside the cooling compartment, you can put inside the appropriate, previously cooled milk containers.

NOTE!

Do not obstruct ventilation openings or fan to ensure air circulation and, consequently, a good cooling effect.

The cooling compartment is designed for 6 Tetra Pak® milk cartons, 1 litre each. You may also pour milk to a milk container. For this purpose we recommend Bartscher milk container:

KV9L, art. No. 190094

2. Unscrew the cover(s) of the required milk tube feedthroughs on the left or right, and put them away.

3. Insert the milk tube into one of the tube feedthroughs.
4. Put one end of the milk tube inside an open milk carton (Fig. 3) or alternatively, in a milk container (Fig. 4).



Fig. 3



Fig. 4

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Fig. 5

5. Attach the other end of the milk tube to the coffee machine milk supply.
6. Prepare the required beverages in pre-heated cups.
7. At the end of a work day, take the milk tube out from the milk carton, or from the milk container.
8. Clean the milk tube, as described in the coffee machine operation manual.

Loading / starting the cups warmer



Fig. 6

1. Arrange clean and dry cups on the cups arrangement surface on the warmer.
2. Switch the cups warmer on using the ON/OFF switch located at the front of the appliance.

Both heating elements on the cups warming surfaces begin to heat up.

The temperature may be set within the range of 30°C–60°C.

The required temperature can be set up steplessly with the use of temperature control knob located at the back of the appliance.

Switching the appliance OFF

1. If the cups warmer is no longer to be used, switch the temperature controller located at the back of the appliance to '0' position.
2. Switch the cups warmer off using the ON/OFF switch located at the front of the appliance.
3. In the milk refrigerator is longer in use, turn it off with the ON/OFF switch located on the rear wall of the appliance.
4. Disconnect the appliance from power supply by pulling the plug out.

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6 Cleaning and Maintenance

The operator must ensure that the device and its safety components are kept in good condition. Control and safety systems should be checked for their effectiveness.

Maintenance, cleaning and repairs must only be carried out by suitably trained and specialised personnel.

If the safety devices need to be removed for maintenance, cleaning and repair, they should be reinstalled immediately after completion and their function should be checked.

All maintenance and cleaning work must be carried out in accordance with the operating instructions at the specified intervals.

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.

6.2 Cleaning

1. Clean the appliance regularly.
2. Before cleaning, remove all objects from the milk refrigerator and cups warmer.

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Milk refrigerator

1. Clean the internal compartment with warm water and a soft cloth or a sponge. Use a mild cleaning agent, if required.
2. Wipe cleaned surfaces with a cloth moistened with clean water.
3. Wipe the appliance housing and glass door from the inside and the outside with a soft, damp cloth.
4. Finally, dry all cleaned surfaces thoroughly.
5. Leave the door open for the appliance to dry completely.

Cups warmer

1. Clean the work surfaces and side glass walls with warm water and a soft cloth or a sponge. Use a mild cleaning agent, if required
2. Wipe the cleaned surfaces with a cloth moistened with clean water to remove any residues of the cleaning agent.
3. Finally, dry all cleaned surfaces thoroughly.
4. Wipe the work surfaces regularly with a food-grade disinfectant.

Defrosting the milk refrigerator

NOTE!

The use of inappropriate utensils or agents may damage the internal surfaces of the appliance and the refrigeration system.

Do not use any sharp objects when defrosting.

Never use hot water to defrost the appliance.

If the thickness of frost layer inside the milk refrigerator exceeds 5 mm, the appliance must be defrosted manually, otherwise the cooling effect will significantly decrease.

When defrosting, follow the instructions below:

- remove the plug from the socket;
- place a suitable container under the condensation water drain hose;
- open the appliance door, and remove all objects from the inside;
- leave the appliance door open, to allow the ice to completely melt. Depending on the ambient temperature, the defrosting may take approximately 2-12 hours.
- the condensate is drained to the condensation water drain hose through the drain opening at the bottom of the cooling compartment, where it can be collected in an appropriate container;
- remove the condensation water;
- clean the appliance following the instructions in section '**Cleaning / milk refrigerator**'.

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6.3 Maintenance

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

LED lamp replacement

If the LED lamp is damaged, it must be replaced by service staff.

7 Possible Malfunctions

The table below contains descriptions of possible causes and solutions to malfunctions or errors during operation of the appliance. The works may only be performed by suitably qualified technical personnel.

When malfunction cannot be removed, contact the technical service. In such a case, provide article number, model and serial number. You will find this information on the rating plate.

Error	Possible cause	Solution
The appliance does not work	No power	Check mains plugs, sockets and fuses
The appliance operates loudly	The appliance is not levelled	Place the appliance on an even surface
	Constant vibrations	Check if the appliance does not come in contact with any object, both inside and outside
The appliance (milk refrigerator) does not cool sufficiently	Direct sunlight or heat sources in immediate vicinity	Move the appliance away from heat sources.
	The door is not closed tightly or it has been left open for too long	Close the door tightly; limit the door opening time to minimum
	Damaged or deformed door seal	Contact the service company
	Ventilation openings blocked or obstructed	Check ventilation openings
	Contaminated condenser	Contact the service company
	Damaged temperature controller	Contact the service company
The appliance (cups warmer) does not heat up	Temperature is not set	Set the temperature
	Damaged temperature controller	Contact the service company
	Damaged heating element	Contact the service company

Disposal

Error code messages

Error code	Description	Solution
E0	Short circuit or circuit break of the temperature probe in the milk refrigerator.	Contact the service company
E1	Short circuit or circuit break of the heating element temperature sensor in the cups warmer. The heating element keeps turning off.	

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.
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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.