

GTK2-221



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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	7
1.4	Unintended Use	7
2	General information	8
2.1	Liability and Warranty	8
2.2	Copyright Protection	8
2.3	Declaration of Conformity	8
3	Transport, Packaging and Storage	9
3.1	Delivery Check	9
3.2	Packaging	9
3.3	Storage	9
4	Technical Data	10
4.1	Technical Specifications	10
4.2	List of Components of the Appliance	12
4.3	Functions of the Appliance	13
5	Installation and operation	13
5.1	Installation	13
5.2	Operation	15
6	Cleaning and Maintenance	20
6.1	Safety Instructions for Cleaning	20
6.2	Cleaning	20
6.3	Maintenance	21
7	Possible Malfunctions	22
8	Disposal	25



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.

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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.

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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.
- Ensure that no liquids come into contact with the device's connectors or the mains plug. Moisture can lead to electrical hazards or damage to the device.
- Always disconnect the device from the mains supply before carrying out any installation or dismantling work, cleaning, maintenance, or if the device is not going to be used for an extended period. To do this, pull the mains plug fully out of the socket.
- 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.

EN**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.
- 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.
- Do not use any electric appliances inside the cooling compartment, unless they are of the type approved by the manufacturer.

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 and preparation of suitable beverages and food products.

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

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.

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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:	Glass-doored refrigerator GTK2-221
Art. No.:	700848
Material:	painted steel glass
Inner material:	coated steel
Volume, in l:	804
Usable volume, in l:	743
Temperature range, min.-max., in °C:	1 - 9
Ambient temperature, min.-max., in °C:	10 - 32
Coolant/ amount in kg:	R290 / 0,085
Climate class:	CC2
Energy efficiency class:	F (EU Nr. 2019 / 2018)
Energy consumption, in kWh/year:	1978
GWP index:	3
Number of doors:	2
Number of shelves:	4
Shelf dimensions (W x D), in mm:	790 x 520
Connected load:	0,5 kW 220-240 V 50 Hz
Dimensions (W x D x H), in mm:	880 x 720 x 2020
Weight, in kg:	133

We reserve the right to implement technical modifications.

Version / Features 700843 / 700853

- Cooling: circulating air
- Temperature control:
 - electronic
 - in 1°C increments
- Thermostat
- Insulation: cyclopentane, 38 mm
- Automatic defrost function: no
- Evaporation of condensed water
- Digital display
- Control: electronic
- Door type: double leaf door, glass
- Front pane: cased / framed
- Type of glazing: double glazing
- Safety glass: yes
- Door: left/right, with no possibility for door hinge to be changed
- Features:
 - fan stopped when door is open
 - LED lighting, switched on separately
 - self-closing door
- The set includes:
 - 4 keys
 - 2 spacers for the wall

Important hint:

Mount the spacers on the rear wall.

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 List of Components of the Appliance

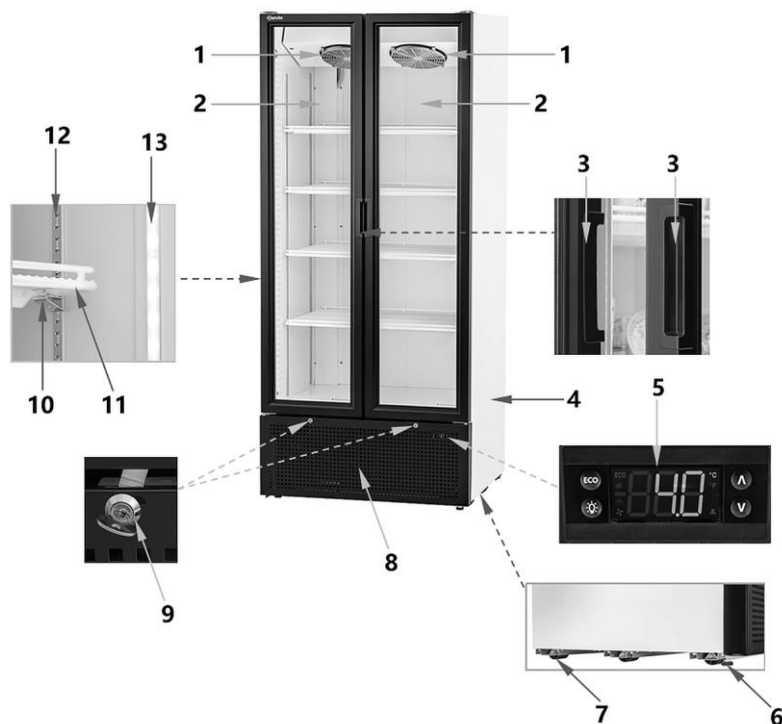


Fig. 1

- | | |
|-----------------------------------|---------------------------|
| 1. Fan (2x) | 2. Glass door (2x) |
| 3. Door handle recess (2x) | 4. Housing |
| 5. Digital temperature controller | 6. Feet (2x), adjustable |
| 7. Castors (6x) | 8. Front bezel |
| 9. Lock (2x) + 2 keys for each | 10. Shelf bracket (16x) |
| 11. Shelf (6x) | 12. Guide rails (2 pairs) |
| 13. Internal LED lighting | |

4.3 Functions of the Appliance

The glass-doored refrigerator GTK2-221 can be used to cool and store and attractively display necessary beverages and food products at a set temperature. The refrigerator equipped with energy saving night mode and the feature of fan stopping upon opening the door, is not only attracting customers by its looks but also allows maximum energy savings.

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 packaging materials, for instance: plastic bags and EPS elements.

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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 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:
 - 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.

- 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.
- In order to avoid damage to the compressor, do not tilt the appliance more than 45° when positioning or transporting it.
- 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.
- Leave at least 10 cm clearance from flammable walls and items.

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- Screw the 2 enclosed spacers into the holes on the rear wall of the appliance.



Fig. 2

- Two front feet of the appliance may be adjusted through screwing in/out so that the appliance stands stable.

IMPORTANT!

The appliance is not suitable for built-in installation.

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/containers with food product, so that the inner space of the appliance is used optimally.
- Beverages and food products in 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.
- To limit loss of cold air minimize the opening time of door during operation. Also, do not open the door too frequently.
- If possible, in the event of a sudden power failure, avoid opening doors in order to avoid loss of cool air.
- The power supply to the refrigerator should not be interrupted for more than 10 minutes.
- If the appliance is switched off for a longer period of time, the door of the refrigerator should remain open.

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Storing food in the refrigerator

For your appliance to operate the best way, follow the indications below:

- When inserting the food products, pay attention to free air circulation inside the appliance.
- Food products or beverages should first be cooled to the suitable storage temperature.
- If the food products are not cooled sufficiently prior to storing, the operating efficiency of the appliance deteriorates and it may negatively influence the cooled food products. Thus, avoid storing food products in rooms that are not cool, for the cold might be lost when they are inserted in the refrigerator.
- The food products stored in the refrigerator should be packaged or covered.
- The food products with specific aromas, e.g.: fresh fish, foie gras, cheese, should be stored in properly closed containers.

- Do not store bananas in the refrigerator because they are sensitive to low temperatures.

Before First Use

1. Before first use, clean the appliance and accessories thoroughly, following indications in section **6 'Cleaning and Maintenance'**.
2. To end with, dry the appliance and accessories thoroughly.
3. Fix the enclosed shelf brackets on the guide rails, depending on the height of products to be stored.
4. Put the shelves on the brackets.
5. Close the device door.



Fig. 3

6. Plug the device into a suitable single socket.

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The current temperature inside the appliance is shown on the digital display.

NOTE!

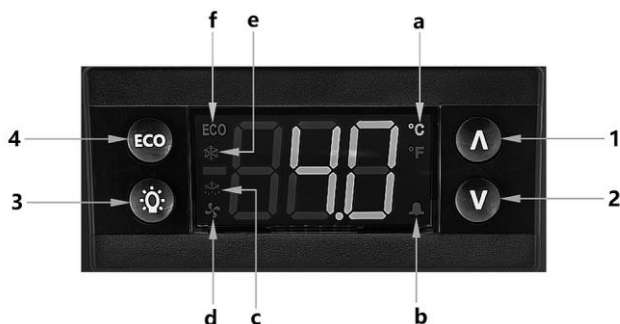
The temperature has been set at the factory so that food and beverages are cooled at the optimum temperature. If possible, this temperature should not be changed.

If the temperature of the appliance is not within the desired temperature range, adjust it using the temperature controller or contact your dealer or service department.

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

Digital temperature controller

Displays and buttons



	Buttons/Displays	Functions
1		Temperature setpoint, sub-function: On
2		Temperature setpoint, sub-function: Down
3		Lighting ON/OFF switch / Sub-function: OK
4		ECO/Night mode, sub-function: Back
a	°C	Display of temperature unit (°C or °F)
b		Buzzer (non-functional)
c		Status of the defrost cycle
d		Evaporator fan status
e		Compressor status
f	ECO	ECO mode

Setting the temperature setpoint

1. Press the  button to access the setpoint. Then press the  button to increase the value.
2. Press the  button to access the setpoint. Then press the  button to decrease the value.

After 30 seconds, the display automatically returns to showing the current temperature.

Switching the ECO function on/off with the ON/OFF switch

1. Press the  button briefly. The green 'ECO' symbol lights up in 'ECO' mode.

Changing a setting

1. Press the  and  buttons simultaneously and hold them down for 5 seconds to open the menu.
2. The first parameter group is displayed as "tHE".
3. Press the  /  buttons to find the desired group.
4. Then press the  (OK) button.
5. The first parameter is displayed.
6. Press the  /  buttons to find the desired parameter.
7. Then press the  (OK) button.
8. Press the  /  buttons to find the desired setting.
9. Then press the  (OK) button.

Installation and operation

After 30 seconds, the display will automatically return to the current temperature. Alternatively, press the  (OK) button twice.

NOTE:

INCORRECT SETTINGS MAY RESULT IN INSUFFICIENT COOLING, EXCESSIVE ENERGY CONSUMPTION, UNNECESSARY ALARMS AND, WHEN STORING TEMPERATURE-SENSITIVE FOODSTUFFS, MAY RESULT IN VIOLATIONS OF FOOD REGULATIONS AND REGULATIONS.

Automatic defrosting

The appliance defrosts automatically. The defrost water is collected in a drip channel beneath the evaporator and channelled via a pipe to a drip tray, where it evaporates.

Switching LED lighting on/off with an ON/OFF switch

1. Press the button .

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.

6.2 Cleaning

1. Clean the appliance regularly.
2. Remove all objects from the appliance and store them temporarily in a cool room.
3. Remove all shelves from the appliance.
4. Clean the shelves with mild washing agent and soft cloth or sponge in warm water.
5. Rinse the shelves with clean water and dry thoroughly with soft cloth.

NOTE!

Never use hot water to clean the appliance.

6. Wipe the internal and external surfaces of the appliance with a soft, damp cloth. Use mild cleaning agent if required.
7. Wipe the washed surfaces with a cloth moistened in clean water.
8. Finally, dry thoroughly all washed surfaces.
9. The interior of the appliance should be wiped regularly (once a month) with a food-grade disinfectant.
10. Clean the door and the door seal of the appliance with a soft, damp cloth and mild cleaning agent. To end with, dry the door and door seal thoroughly.
11. After cleaning, leave the door open for the appliance to dry completely.

12. 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.

6.3 Maintenance

We recommend you to have the appliance serviced at least once a year; if needed, we recommend entering into a service agreement.

Regular maintenance is essential to maintain the best performance and ensure the safe operation of the appliance.

The following maintenance tasks can be done by the user:

- inspection of the general condition of the appliance;
- regular inspection of the power cord;
- daily visual inspection of safety components (e.g. correct operation of safety microswitches, if any);
- checking the integrity of safety labels and symbols, at least once a week. If they are illegible or have become detached, obtain a copy of the labels and symbols from the sales agent or a qualified technical service representative.

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The following operations should be regularly performed by a qualified specialist:

- cleaning the condenser with suitable tools (vacuum cleaner or soft brush);
- checking of electrical connections;
- checking of the thermostat and the sensor;
- checking of door and door seal.

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.

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
No functions available	Plug improperly inserted into a socket.	Remove the plug and insert it properly in the socket
	Electric power supply safety fuse damaged	Check the fuse, connect the appliance to another socket
	No power supply	Check the electric power supply
Temperature inside the appliance is too high / too low	Condenser obstructed with dust	Contact the service company
	Icy evaporator	Defrost the appliance
	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
	Ambient temperature too high	Place the appliance in the right place
	Door is not closed properly or it has been opened for too long	Close the door tightly; limit the door opening time to minimum
	Damaged or deformed door seal	Contact the service company

Possible Malfunctions

Error	Possible Cause	Solution
Temperature inside the appliance is too high / too low	Too little clearance between objects inside the appliance	Provide for sufficient clearance between objects inside the appliance
	Appliance is overloaded	Reduce the number of stored objects
	Incorrectly set temperature controller	Set the temperature control correctly
Noise level of the appliance rises	Appliance is not placed on an even surface	Place the appliance on an even surface
	Loose nuts/screws	Tighten nuts/screws
	Appliance touches walls or other objects	Keep sufficient clearance from walls or other objects
	Objects in the appliance in contact with each other	Provide for sufficient clearance between objects
Water leak	Appliance is not placed on an even surface	Place the appliance on an even surface
	Clogged condensed water drain opening	Clear the condensed water drain opening
	Condensed water drip tray damaged (if applicable)	Contact the service company
	Condensed water overflows the drip tray (if applicable)	Empty the condensed water drip tray regularly

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The following phenomena are not malfunctions:

Various sounds that are generated by the appliance during operation are a normal phenomenon and do not indicate any malfunctions.

- Splashing, bubbling and hums are generated by the coolant that circulates the system.
- Short, louder whirring/hooting or clicking sounds may be heard when the compressor of the appliance starts for the pre-set temperature of the appliance internal chamber be restored.

Alarms and messages

In the event of an alarm, the corresponding alarm code flashes on the display alternately with the temperature.

Acknowledging alarms

1. The alarm message flashes on the display.
2. Press any button to acknowledge the alarm.
3. After confirmation, the temperature is displayed. The alarm symbol remains on the screen.

The alarm will continue to flash until the cause of the alarm has been rectified.

Alarm code	Error description
HAt	High temperature alarm. Warning of excessive temperature.
LA_t	Low temperature alarm. Warning of excessively low temperature.
Pdd	Door open alarm.
dod	Low temperature alarm
uAL	Voltage alarm.
LEA	Leakage alarm. Leakage detection to protect the compressor.

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.