

484L GN210



700826

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



Version: 2.0

Date of preparation: 2023-10-24

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	13
5.1	Installation.....	13
5.2	Operation	15
6	Cleaning and Maintenance	20
6.1	Safety Instructions for Cleaning	20
6.2	Cleaning.....	21
7	Possible Malfunctions.....	22
8	Disposal.....	24



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.

Safety

Operating Personnel

- 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 maintenance may not be carried out by children unless they are at least 8 years old and supervised.
- Children that are below 8 years old may not get close to the appliance nor the power cord.

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, freezing and storing suitable food products and food preparation.

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.

EN

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

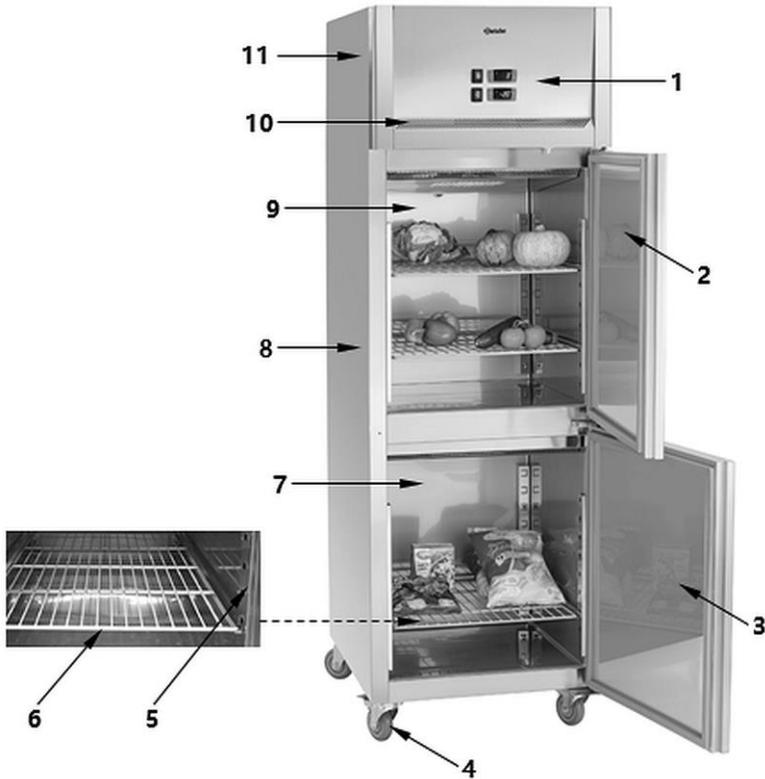
Name:	Combination fridge/freezer 484L GN210
Art. No.:	700826
Material:	stainless steel
Inner material:	stainless steel
Volume, in l:	484
Gastronorm:	2/1 GN 1/1 GN
Fridge / freezer temperature range, min.–max., in °C:	0 - 10 -18 - -22
Temperature control in °C increments:	1
Ambient temperature, min.–max., in °C:	16 - 32
Amount of coolant, in kg:	R290 / 0,075
Climate class:	N
Energy consumption, in kWh/year:	2.555
Number of doors:	2
Number of shelves:	4
Shelf dimensions (W x D), in mm:	525 x 640
Connected load:	0,767 kW 230 V 50 Hz
Dimensions (W x D x H), in mm:	660 x 835 x 2025
Weight, in kg:	132,0

We reserve the right to implement technical modifications.

Version / Characteristics

- Colour: silver
- Cooling: circulating air
- Temperature control: in 1 °C increments
- Thermostat
- Control: electronic
- Digital display
- ON/OFF switch
- Indicator light: ON/OFF
- Automatic defrost function
- Evaporation of condensed water
- Insulation: cyclopentane, 50 mm
- Type of shelves:
 - guide rails
 - grate, plastic-coated
- 4 guide rail pairs:
 - designed for grates
 - designed for GN 2/1 and GN 1/1 containers
 - adjustable height
- Height-adjustable shelves
- Door type: leaf door
- Right-hand side door, with the possibility for door hinge to be changed
- Features:
 - 1 ON/OFF switch per fridge and freezer
 - cooling at the top | freezing at the bottom
 - for sliding in GNB containers
 - 4 swivel castors, 2 with brakes

4.2 List of Components of the Appliance



EN

The delivery does not include decorations!

Fig. 1

- | | |
|--------------------------------|--|
| 1. Control panel | 2. Appliance door, fridge |
| 3. Appliance door, freezer | 4. Swivel castors (4 pcs, 2 with brakes) |
| 5. Guide rails (4 pairs) | 6. Grate (4 pcs) |
| 7. Freezer | 8. Housing |
| 9. Fridge | 10. Ventilation openings of the refrigerating unit chamber |
| 11. Refrigerating unit chamber | |

Control Panel



Fig. 2

- 12. ON/OFF switch with integrated fridge power indicator light (green)
- 14. ON/OFF switch with integrated freezer power indicator light (green)

- 13. Fridge digital temperature controller
- 15. Freezer digital temperature controller

4.3 Functions of the Appliance

The appliance combines cooling and freezing functions, providing for rapid access to chilled or frozen products in small space. The GN format guide rails allow for using any type of grates, e.g. GN containers.

5 Installation and operation

5.1 Installation

Unpacking / Positioning

- Remove the appliance from the packaging and discard all the packing materials, excluding the pallet.



CAUTION!

Choking hazard!

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

- To install the appliance, perform the following steps:
 - The appliance may only be transported to installation location in vertical position. In order to avoid damage to the compressor, do not tilt the appliance more than 45° when positioning or transporting it.
 - Lift the appliance with the lift truck and move it to the planned installation location. Be careful not to damage the appliance. Control the stability in order not to lose the balance of the appliance.
 - Do not drag nor push the appliance, as it may fall down. This may also cause the damage to external elements or swivel castors.
 - Remove the appliance from the pallet in the installation location and install it.
 - Attach swivel castors with brakes.
- 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.
- The appliance should be placed on a surface that is:
 - even, with sufficient load-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.
-
- 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.
 - Leave at least 10 cm clearance from flammable walls and items.

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.
-
- If the appliance was stored or transported vertically, leave it standing horizontally for 12 hours before it is connected to electric power.
 - Following an electric power outage, wait at least 3 minutes before reconnecting the appliance to prevent a damage to the compressor.

5.2 Operation

Indications for User

- Guide rails may be positioned at various heights. Arrange them adequately to the size of GN containers, so that the inner space is used optimally.
- Place foods packed in containers on shelves or slide them onto guide rails if put in suitable GN containers so that proper clearances between them allow for sufficient air circulation inside the appliance. Insufficient clearance hinder the cooling effect.
- In order to reduce the loss of cool air from the cooling compartment, the door opening time should be as short as possible and the door should not be opened too frequently.
- If possible, in the event of a sudden power failure, avoid leaving door open in order to avoid loss of cool air from the cooling compartment.
- The power supply to the appliance should never be interrupted for more than 10 minutes.
- If the appliance is being switched off and will not be used for a longer period, clean it thoroughly according to instructions in section '**Cleaning**' and leave the appliance door open, to prevent formation of mould.

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.

Freezing of food products in the deep freezer

- Deep-freeze only food products that are suitable to this end and withstand low temperatures well.

- Deep-freeze only fresh food products.
- A suitable packaging should be selected for each food product and the product should be packed well. The packaging must be air-tight and impervious to water, as this could cause the frozen product to dry. Plastic films and bags should soft and smooth, so that they stick to the contents well.
- Never freeze again any thawed or partially thawed products. Such products should be processed and consumed within maximum of 24 hours.
- Observe proper indications of the manufacturers as to the freezing of given food products.
- It is best to freeze products in small portions and thaw them one by one. This caters for fast and uniform freezing and thawing. Frozen product should be described with its name and the date of freezing.
- When freezing larger amounts of fresh food products, the temperature in the appliance may rise temporarily. This does not affect the already stored food products.
- Do not place bottles filled with liquids in the appliance. Freezing liquids increase their volumes and may cause bottles to crack.
- Avoid opening of doors during the freezing process.

Installation and operation

Before First Use

1. Before use, clean the appliance observing instructions in section 6 'Cleaning'.
2. Then dry the appliance thoroughly.
3. Close the appliance door.
4. Plug the device into a suitable single socket.
6. Using suitable ON/OFF switches, switch the freezer/fridge on.

Green power indicator lights in ON/OFF switches light up.

Digital displays show current temperatures inside the appliance.

5. To set the temperature, follow indications provided in subsequent sections. Descriptions pertain to both digital temperature controllers of the appliance.

NOTE!

The optimum temperature for cooling food is 6°C, and -18°C for freezing it. If the right temperature for storing food is not maintained, the food may turn.

Control elements and displayed messages



EN

Button	Functions
SET	Showing the set value, selection of parameters in the programming mode or confirmation of the process
	Manual starting of the defrosting
	Selection of the parameter code in the programming mode, increase of the displayed value
	Selection of the parameter code in the programming mode, decrease of the displayed value

LED indicators

The LED indicators in the digital display show the status of the active function:

LED	Status of the active function	Meaning
	illuminates	activated compressor
	flashes	in delay
	illuminates	defrosting in progress
	flashes	defrosting delay
	illuminates	fan activated
	flashes	delay after defrosting
	illuminates	degrees Celsius temperature unit indicator
	flashes	in the programming mode
	illuminates	degrees Fahrenheit temperature unit indicator
	flashes	in the programming mode

Displaying the set value

1. Press the **SET** button shortly, to display the set value.
2. Press the **SET** button again or wait 5 seconds, to return to the previous message.

Changing the set value (i.e. the required temperature)

1. Press the **SET** button and hold it pressed for at least 3 seconds.

The set value is displayed and the **°C** or **°F** LED indicator flashes on the digital display.

2. The value may be increased or decreased with  or  button until the digital display shows the required value.
3. Confirm the new value with the **SET** button or wait 10 seconds — then, the value will be stored automatically.

Automatic defrosting

The appliance defrosts automatically 4 times over 24-hour period. The timer initiates with the first activation.

1. If there is a need for the change of automatic defrosting phases, press the  button and hold it for more than 2 seconds.

The digital display shows the  symbol.

The defrosting cycle is immediately initiated; in such a case, the subsequent defrosting cycle is executed after 6 hours.

Manual defrosting

Additionally, aside of the automatic defrosting, manual defrosting may be activated any time.

1. Press the  button and hold it pressed for more than 2 seconds.

The manual defrosting is initiated.

The digital display shows the  symbol.

NOTE!

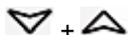
Water generated during defrosting evaporates automatically.

NOTE!

Subsequent settings or parameter changes should be introduced by service personnel only.

Button combinations

Concurrent pressing of two buttons enable activation/deactivation of a number of functions.



Button locking or unlocking:

- to lock, press both buttons concurrently and hold them pressed for more than 3 seconds, until the digital display shows the "OFF" message
- to unlock, press these buttons and hold them pressed for more than 3 seconds, until the digital display shows the "ON" message



Moving to the programming mode:

- press both buttons concurrently and hold them pressed for more than 3 seconds; when the °C or °F LED indicators flash, subsequent settings may be introduced



Return to the previously displayed message:

- press these buttons, to leave the programming mode and return to the previously displayed message (value of temperature inside the appliance)

EN

Switching the Appliance OFF

1. If the appliance is not to be used any more or if it is going to be cleaned, ON/OFF switches for given areas should be set to 'O' positions to switch the appliance off.
2. Disconnect the appliance from power supply (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.

6.2 Cleaning

ATTENTION!

Never use hot water to clean the appliance.

1. Clean the appliance regularly, at least once a week, and after manual defrosting.
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 a mild washing agent and a soft cloth or sponge in warm water.
5. Wipe thoroughly the guide rails, as well as inner and outer surfaces of the appliance with a soft, damp cloth. Use a mild cleaning agent when required.
6. Wipe the washed surfaces with a cloth soaked in fresh water.
7. Finally, dry thoroughly all washed surfaces.
8. The interior of the appliance should be wiped regularly (once a month) with a food-grade disinfectant.
9. Clean the appliance door and gasket/door seals of the appliance with a soft, damp cloth and a mild cleaning agent. To end with, dry the door and gasket/door seals thoroughly.
10. After cleaning, leave the appliance sliding door open for the appliance to dry completely.
11. 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.

EN

Maintenance

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

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.

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
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

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

The following phenomena are not malfunctions:

- Various sounds that are generated by the cooler 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.

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.