

2/1GN, 700L - 2/1GN, 1400L



700505 - 700506

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Original instruction manual

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Read this instruction manual before using and keep it available at all times!

This instruction manual contains information about installation, operation and maintenance of the appliance and constitutes an important source of information and reference guide. The knowledge of all operational and safety instructions included in this manual is a prerequisite for safe and proper handling of the appliance. Additionally, accident prevention, occupational health and safety, and legal regulations in force in the area the appliance is used apply.

Before you start using the appliance, especially before turning it on, read this instruction manual in order to avoid personal injuries and property damages. Improper use may cause damage.

This instruction manual forms and 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

ΕN

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.



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.

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- 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.

Fire hazard / flammable materials hazard / explosion hazard!

- Do not use any electric devices in the appliance.
- Do not store nor use petrol or other flammable liquids and gases in the vicinity of this or any other appliance. Those gases may cause fire or explosion hazard.
- Do not put into the appliance any explosive materials, like sprays filled with flammable propellants. Contents of containers filled with flammable gases and liquids may leak in low temperatures, and the contents may catch fire from sparks generated by an electric appliance. Explosion hazard!
- In the case of coolant leakage, pull the plug from the socket. Remove all sources of ignition in the vicinity, ventilate room and contact technical service.
 Avoid coolant getting in contact with eyes, as it may cause serious eye damage.
- Never use any flammable liquids for cleaning the appliance or its parts. Gases released may cause fire or explosion hazard.
- In the case of fire, disconnect the appliance from the power supply before attempting adequate fire-extinguishing actions.
- Never attempt to extinguish fire with water if the appliance is connected to the power supply. Following extinction of fire, ensure sufficient fresh air inflow.
- Defrosting process may not be sped up with mechanical means or heat energy sources (candles or heaters) nor with any other means. Vapour produced may cause short-circuit and too high temperatures may damage the appliance.
- All ventilation slots should not be obstructed during operation.
- Never attempt to damage cooling installation of the appliance.

Operating personnel

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

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.

Safety



- 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.

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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:

- Freezing and storage of deep-frozen food products.

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.



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.

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.

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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

Version / Characteristics

- · Cooling: circulating air
- · Insulation: polyurethane, 60 mm
- · Temperature control: thermostatic
- Control: button
- · Automatic defrost function
- Evaporation of condensed water
- Digital display
- Thermostat
- ON/OFF switch
- · Indicator lights: ON/OFF
- Door type: leaf door
- · Door hinge: right (right/left), no possibility of changing
- · Type of shelves: grille
- Height-adjustable shelves
- Appliance locked with a key
- Height-adjustable: 2,040 mm to 2,115 mm

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Name:	Deep freezer 2/1GN, 700L CNS
Art. No.:	700505
Material:	CNS 18/10
Inner material:	Stainless steel
Volume, in I:	700
Temperature range, minmax., in °C:	-1822
Ambient temperature, max., in °C:	32
Amount of coolant, in kg:	R290 / 0,102
Energy efficiency class:	D (EU Nr. 2015 / 1094)
Climate class:	4
Energy consumption, in kWh/year:	2179
GWP index:	3
Number of doors:	1
Number of shelves:	3
Shelves dimensions (W x D), in mm:	530 x 650
Load-bearing capacity of each shelf in kg:	40
Power supply:	0,69 kW / 230 V / 50-60 Hz
Dimensions (W x D x H) in mm:	655 x 855 x 2.050
Weight in kg:	106,6

We reserve the right to implement technical modifications!

Technical data



Name:	Deep freezer 2/1GN, 1400L CNS
Art. No.:	700506
Material:	CNS 18/10
Inner material:	Stainless steel
Volume, in I:	1400
Temperature range, minmax., in °C:	-1822
Ambient temperature, max., in °C:	32
Amount of coolant, in kg:	R290 / 0,100
Energy efficiency class:	E (EU Nr. 2015 / 1094)
Climate class:	4
Energy consumption, in kWh/year:	4855
GWP index:	3
Number of doors:	2
Number of shelves:	6
Shelves dimensions (W x D), in mm:	530 x 650
Load-bearing capacity of each shelf in kg:	40
Power supply:	1,012 kW / 230 V / 50-60 Hz
Dimensions (W x D x H) in mm:	1.320 x 855 x 2.050
Weight in kg:	191

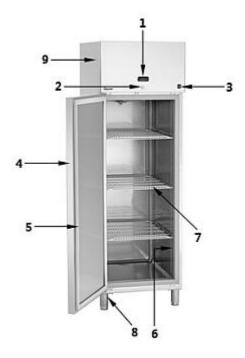
We reserve the right to implement technical modifications!

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4.2 List of components of the appliance

Deep freezer 700505



- 1. Digital temperature regulator
- 3. ON/OFF switch with integrated operation indicator light
- 5. Door seal
- 7. Shelves (3x)
- 9. Housing

- 2. Lock
- 4. Door
- 6. Shelf guides (4x)
- 8. Height-adjustable feet (4x)



Deep freezer 700506



- 1. Digital temperature regulator
- 3. ON/OFF switch with integrated power indicator light
- 5. Door seal (2x)
- 7. Shelves (6x)
- 9. Housing

- 2. Lock (2x)
- 4. Door (2x.)
- 6. Shelf guides (8x)
- 8. Height-adjustable feet (4x)

4.3 Functions of the appliance

The appliance is designed for freezing and long-term storage of deep-frozen food products.

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5 Installation and operation

5.1 Installation

Unpacking / Positioning

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



CAUTION!

Choking hazard!

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

- If the appliance is covered with a protective film, remove it. Remove the film slowly, so no glue residues are left. Remove any glue residues with the use of a suitable solvent.
- Be careful not to damage the rating plate and warning labels fixed on the appliance.
- Never place the appliance in humid or wet environment.
- Place the appliance in a way making the connections easily accessible, so that they may be quickly disconnected if such a need arises.
- The appliance should be placed on surfaces that are:
 - even, with sufficient bearing capacity, resistant to water, dry and resistant to high temperatures;
 - sufficiently large, and thus enabling usage of the appliance with no problems;
 - easily accessible;
 - well ventilated
- 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. 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.
- In order to avoid damage to the compressor, do not tilt the appliance more than 45° when positioning or transporting it.

Installation and operation



- Do not position the appliance in high humidity locations. Air relative humidity in the place of installation should not exceed 60%. Excessive humidity may cause rust and negatively influence the refrigerating efficiency of the device.
- The appliance should be installed only in rooms, where ambient temperature does not exceed 32°C.
- To install the appliance, perform the following steps:
 - Remove the packaging of the appliance, except for the pallet.
 - 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 feet.
 - As soon as the appliance is in the planned installation location, remove the pallet.
 - Level the appliance by screwing in or out the height-adjustable feet.
 - Remove the protective film from the appliance at the end.

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 12 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 15 minutes.

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5.2 Operation

Tips for the user

- Shelves may be positioned at various heights. Arrange them adequately to containers with meals and food product packages, so that the inner space of the appliance is used optimally.
- 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 appliance should never be interrupted for more than 10 minutes.
- If the appliance is switched off for a longer period of time, the door of the deep freezer should remain open.

Freezing of food products in the deep freezer

- Deep-freeze only food products that are suitable to this end and withhold 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.

Storage of deep-frozen food products in the deep freezer

Installation and operation



- Observe instructions for storage of food products indicated on their packages. If there are no indications, a food product should not remain in a frozen state for more than 3 months from the purchase date.
- The packages of food products frozen in the process of their manufacturing feature storage deadlines and temperatures. It is recommended to follow manufacturer's indications for storage and usage.
- Select only properly packed food products, provided with full data and store them in deep freezers in the temperature of -18°C or below.
- When buying deep-frozen food products, transport them in suitable containers to avoid thawing and refreezing. As soon as possible, place such products in a deep freezer.
- Do not buy icy products, as icing denotes that they have already been partially thawed a couple of times.
- Protect food products against thawing and refreezing, as temperature rise shortens their storage period and deteriorates their quality.
- Partially or fully thawed food products should be immediately used. Low temperature preserves food products, but it does not eradicate micro-organisms. They reactivate at an accelerated pace and food products turn rapidly. Partial thawing reduces the nutritional value of food products, especially the nutritional value of fruits and vegetables, as well as ready-made meals.
- If the package is damaged or unnaturally bulged, it is likely that the food product has been stored improperly and that it is spoiled.

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Preparation of the appliance

- Prior to first operation, clean the appliance and its equipment according to instructions in section 6 "Cleaning".
- 2. To end with, dry the appliance and accessories thoroughly.
- 3. Introduce the shelves into the appliance at the selected height.
- 4. Close the appliance door.
- 5. Plug the appliance into a suitable single socket.
- 6. Press the ON/OFF switch to "I" position, to switch the appliance on.

The red operation indicator light in the ON/OFF switch comes on.

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

The temperature will be shown in the digital display.

Functions of operating elements and displays

The basic temperature setting is factory default and it equals the appliance operating temperature in the range of $-18^{\circ}\text{C} - -22^{\circ}\text{C}$.

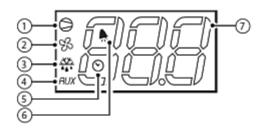
With normal operation, the set value of the temperature sensor is displayed in the digital display.

The LEDs in the digital display indicate the status of function activation (Table 1), and with 3 buttons some functions may be activated/deactivated (Table 2).

ΕN



Messages



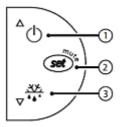
	Assigned	Normal Operatio	Start-up		
	Function	ON	OFF	Flashes	-
1	Compressor	ON	OFF	Required	ON
2	Fan	ON	OFF	Required	ON
3	Defrosting	ON	OFF	OFF	ON
4	Auxiliary output	Active output	Inactive output	-	ON
5	RTC clock	RTC available, activated (tEN=1) and at least 1 programmed time cycle	RTC unavailable / deactivated (tEN=0) and no programmed time cycle	-	ON
6	Alarm	Active alarm	No active alarm	-	ON
7	Digits display	Consists of 3 displayed positions with a point and -199999 interval. See /4, /5, /6 parameters for the sensor measurement value display, values in °C/°F and a point			

Table 1

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Functions of Buttons



Button		Normal Operation	Start-up		
		Single press of the button	Combo press of buttons		
1 UP ON/OFF		 For more than 3 sec.: interchangeable display of the ON/OFF status 	Pressed concurrently: Activation/dea	-	
3	DOWN Defrost	For more than 3 sec.:Activation/deactivation of defrosting	ctivation of continuous operation	Pressed concurrently	Pressed for more than 1 sec.: Display of software version
2	Set Mute	 1 sec.: Display/setting of the set value For more than 3 sec.: Access to parameter configuration (input password 22) Switching off the sound alarm (buzzer) 	-	: Activation of parameter RESET procedure	Pressed for more than 1 sec.: EZY RESET

Table 2

ΕN

Installation and operation



Setting the set temperature

- 1. To introduce the setting or to change the set value, perform the following steps:
 - press the button and hold it for one seconds the set value starts to blink;
 - press the or v button to increase or decrease the value;
 - use the button to confirm the new value.

Automatic defrosting

The appliance is defrosted automatically.

Manual defrosting

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

1. Press the vitable button and hold for at least 3 seconds.

The manual defrosting is initiated.

NOTE!

If introduction of additional settings or modifications of parameter are necessary, contact technical service.

Switching the appliance off

- If the appliance is not to be used for a longer period of time, set the ON/OFF switch to the "O" (OFF) position.
- 2. Disconnect the appliance from the socket (pull the plug out).

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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.
- Remove all objects from the appliance and store them temporarily in a cool room.
- 3. Remove all shelves from the appliance.
- 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

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.

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 electric power supply.	
	Damaged socket.	Plug the appliance into another grounded socket.	
	Damaged mains power plug.	Contact the service company.	

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Error	Possible Cause	Solution
Insufficient cooling efficiency.	Direct sunlight or heat sources in immediate vicinity.	Move the appliance away from heat sources.
	Temperature set incorrectly	The set temperature of the refrigerators should equal 0°C and -20°C in the case of freezers. Press the 'Set' button, to check or modify the temperature.
	The doors are not closed properly or they have been opened for too long.	Close the doors tightly; limit the door opening time to minimum.
	Damaged or deformed door seal.	Contact the service company.
	Poor air circulation around the appliance.	Keep sufficient clearance from walls or other objects.
	Ambient temperature too high.	Ambient temperature in the installation location of refrigerators should not exceed +38°C, and +32°C in the case of freezers.
	Food products that are too worm are placed in the appliance.	Cool the food products to room temperature beforehand.
	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.

Possible Malfunctions



Error	Possible Cause	Solution	
The appliance generates	The appliance is not placed on even surface.	Place the appliance on even surface.	
abnormal or loud noise.	Loose nuts/screws.	Check all screws and nuts, tighten them if necessary.	
	Appliance touches walls or other objects.	Keep sufficient distance from walls or other objects.	

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.

Alarms and prompts

In the case of the alarm, the proper prompt flashes on the digital display, interchangeably with the temperature value; also, the buzzer and the alarm replay (if available) may be activated.

All alarms go off automatically (i.e. alarm prompt is stopped, when the cause for the alarm is eliminated; only the 'CHt' alarm must be confirmed manually through

switching off and on again of the appliance with the use of disconnection from the mains supply).

When pressed, the button switches off the buzzer; but the displayed alarm code and the alarm relay are deactivated only when the cause of the alarm is eliminated. The available alarm codes are listed in Table 3 below.

Alarm Code	Buzzer and Alarm Relay	LED	Description	RESET
E0	Active	ON	Sensor 1 error = regulation	Automatically
E1	Inactive	ON	Sensor 2 error = defrosting	Automatically
E2	Inactive	ON	Sensor 3 error = condenser / product	Automatically

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Possible Malfunctions

IA	Active	ON	External alarm	Automatically
dOr	Active	ON	Open door alarm	Automatically
LO	Active	ON	Low temperature alarm	Automatically
Н	Active	ON	High temperature alarm	Automatically
EE	Inactive	ON	Appliance parameters error	Impossible
EF	Inactive	ON	Operation parameters error	Manually
Ed	Inactive	ON	Defrosting due to exceeded time limit	With the first, correctly completed defrosting
dF	Inactive	ON	Defrosting in progress	Automatically
cht	Inactive	ON	Initial alarm of the soiled condenser	Automatically
CHt	Active	ON	Alarm of the soiled condenser	Manually
EtC	Inactive	ON	Alarm of timers	Through the setting of a timer

Table 3



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.

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