

1500/17 - 3000/25



110431 - 110432

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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 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.

Supervised Usage only

- Only supervised appliance may be used.
- Always remain in an immediate vicinity 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.

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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.

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:

- Drying and polishing of washed stainless steel and silver cutlery.

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.

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.

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:	Cutlery polishing machine 1500/17
Art. No.:	110431
Material:	stainless steel
Quantity of maize granulate, in kg:	1,7
Cutlery input opening width, in mm:	215
Cutlery output opening width, in mm:	100
Maximum output, number of cutlery pieces / hour:	1500
Connected load:	0,4 kW 230 V 50 Hz
Dimensions (W x D x H), in mm:	510 x 480 x 3650
Weight, in kg:	25,6

We reserve the right to implement technical modifications.

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Name:	Cutlery polishing machine 3000/25
Art. No.:	110432
Material:	stainless steel
Quantity of maize granulate, in kg:	2,5
Cutlery input opening width, in mm:	230
Cutlery output opening width, in mm:	130
Maximum output, number of cutlery pieces / hour:	3000
Connected load:	0,56 kW 230 V 50 Hz
Dimensions (W x D x H), in mm:	580 x 560 x 410
Weight, in kg:	40,0

We reserve the right to implement technical modifications.

Version / Characteristics 110431-110432

- Polishing/drying method: heated maize granulate
- Fan for granulate removal
- UV lamp for cutlery disinfection
- ON/OFF switch
- Indicator lights:
 - temperature
 - heating-up
 - ready for operation
 - warning
- Features:
 - Start/Stop key
 - HACCP conformity due to operating temperature of 80°C
 - Appliance dries the granulate for 10 minutes more after switching off
 - Automatic switching off when the cover is opened
 - Easy access to the cutlery channel

The 110431 set includes:

- 1 cutlery collection basket
- 2 kg of maize granulate

The 110432 set includes:

- 1 cutlery collection basket
- 1 cutlery collection sieve
- 3 kg of maize granulate

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4.2 Functions of the Appliance

The cutlery polishing machine makes it possible to polish to high shine up to 1,500 or 3,000 cutlery pieces per hour. Cutlery pieces are hygienically disinfected owing to the integrated UV lamp and the HACCP compliant operating temperature.

4.3 List of Components of the Appliance

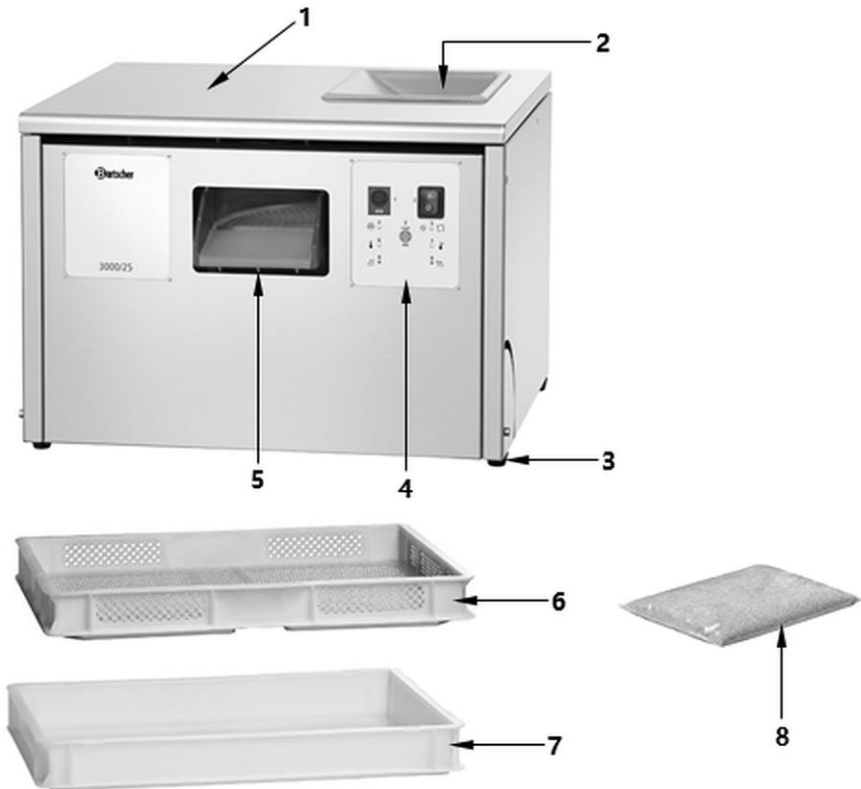
Cutlery polishing machine 110431



Fig. 1

1. Housing
2. Cutlery input opening
3. Feet (4 pcs)
4. Control panel
5. Cutlery output opening
6. Cutlery collection basket
7. Maize granulate

Cutlery polishing machine 110432



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Fig. 2

1. Housing
2. Cutlery input opening
3. Feet (4 pcs)
4. Control panel
5. Cutlery output opening
6. Cutlery collection sieve
7. Cutlery collection basket
8. Maize granulate

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.
- Maintain sufficient clearance from table edges. The appliance might turn over and fall down.
- Leave at least 20 cm clearance from flammable walls and items.

Transport Protection Removal



CAUTION!

If the transport protection is not removed or if it is not fully removed, this may lead to the appliance being damaged.

Before starting the appliance, remove entire transport protection.

Keep all elements for re-use if the appliance is to be transported again or moved to another location.

In order to remove the transport protection, proceed in the following way:

- lift the cover of the appliance,
- undo the fastening knob (A) and remove the cover (B) (Fig. 3),
- remove fastening rods (C),
- before using the appliance make sure you re-fit the cover (B) for closing the drying bowl,
- before starting the appliance make sure you re-fit the cover.

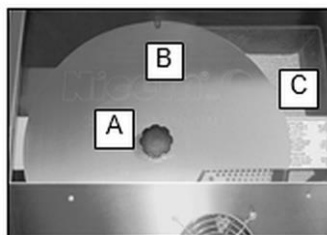


Fig. 3

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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.

5.2 Operation



Appliance Preparation








1. Before 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.

Operating Elements / LED Indicator Lights



Fig. 4

No.	Symbol	Description
1		Fuse Overvoltage protection.
2		ON/OFF switch For switching the appliance on and off. This switch should always be on during operation of the appliance; for the purpose of switching the appliance on and off, use the START / END key (3).

No.	Symbol	Description
3		<p>START / END key</p> <p>The appliance is switched on by pressing this key.</p> <p>By pressing this key during the operation, the appliance is being switched off; the maize granulate is dried for approx. 10 minutes before the appliance is switched off.</p>
4		<p>UV lamp LED indicator light</p> <p>When the appliance is switched on, it indicates that the UV lamp is working.</p> <p>Flashing light indicates lamp malfunction.</p>
5		<p>'Power' / 'Cycle Switch-Off' LED indicator light</p> <p>When the appliance is switched on, it indicates that the power is supplied to the appliance.</p> <p>Flashing light indicates that the maize granulate drying cycle is in progress; next, it goes off (after approx. 10 minutes).</p>
6		<p>'Operating Temperature Reached' LED indicator light</p> <p>When the appliance is switched on, it indicates that the maize granulate has an optimum operating temperature.</p> <p>Flashing light indicates that the maize granulate is being heated up.</p>
7		<p>'Heating' LED indicator light</p> <p>When the appliance is switched on, it indicates that maize granulate is being heated up.</p> <p>When the appliance is switched off, it indicates that the maize granulate has an optimum operating temperature.</p>
8		<p>'ALARM 1' LED indicator light</p> <p>See table in section 7 'Possible Malfunctions'</p>
9		<p>'ALARM 2' LED indicator light</p> <p>See table in section 7 'Possible Malfunctions'</p>

Operation Description

Switch-On Phase

1. Plug the appliance into a suitable single socket.
2. Press the ON/OFF switch (2) to switch the appliance on.

The cutlery polishing machine is ready for operation.

3. Press the 'START' key (3) to start the appliance.

Drying Cycle

1. Wait for the appliance to reach the operating temperature.

The 'Operating Temperature Reached' LED indicator light (6) will light up concurrently with the 'Heating' LED indicator light (7).

2. Operate the appliance as described in section '**Loading the Cutlery Polishing Machine**'.

Switch-Off Phase

1. After using the appliance, press the END key (3) to start the appliance's switch-off phase.

The appliance is switched off after approx. 10 minutes, whereas 'Power' / 'Cycle Switch-Off' LED indicator light (5) is flashing.

When this time elapses the appliance stops and the 'Power' / 'Cycle Switch-Off' LED indicator light (5) remains on in continuous mode for the remaining duration of the drying cycle.

The switch-off phase is necessary to allow for full drying of the maize granulate.

Loading Appliance with Maize Granulate

1. Switch the appliance on by pressing the ON/OFF switch (2) and then press the START key (3).
2. Slowly fill the cutlery input opening to the right side or at the top with appropriate maize granulate.

NOTE!

Always add the exact quantity of the maize granulate, as presented in the 'Technical Data' table for a given appliance.

CAUTION!

Never leave the cutlery polishing machine on if the drier's drum has not been filled with the maize granulate to avoid overheating and damaging the housing of the drier's drum.

Loading the Cutlery Polishing Machine

1. Switch the appliance on by pressing the ON/OFF switch (2).
2. Press the 'START' key (3) to start the appliance.
3. Before you put the cutlery in the cutlery input opening wait for the 'Heating' LED indicator light (7) to light up.

CAUTION!

Load the appliance with properly cleaned cutlery (no fat or oil residues) only, to avoid damaging the surface of the drier's drum.

4. Place the supplied cutlery collection basket (Art. No.110431, Fig. 7) or cutlery collection sieve (Art. No. 110432, Fig. 8) under the cutlery output opening.
5. Place the cutlery for drying into the cutlery input opening at the side (Art. No. 110431, Fig. 5) or on the top (Art. No. 110432, Fig. 6)

NOTE!

Load the cutlery to the cutlery input opening adding them gradually to avoid mixing them up.



Fig. 5



Fig. 6

Cutlery Drying / Cutlery Output

Cutlery goes into the drier's drum with the maize granulate and is dried there (Fig. 10).



Fig. 7



Fig. 8

After the drying phase, cutlery leaves the cutlery polishing machine through the cutlery output opening and go to the cutlery collection basket (Fig. 7) or to the cutlery collection sieve with the cutlery collection basket (Fig. 8).

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In the upper area of the cutlery output opening there is a blower which prevents the granulate from leaving the appliance with cutlery.

Moreover, the UV lamp installed there disinfects cutlery (Fig. 9).



Fig. 9

Installation and operation

1. If a cutlery piece is stuck in the appliance and it blocks the transport channel, open the appliance cover.

As soon as the cover is opened, a micro-switch in the cover disconnects the motor and heating element.



Fig. 10

2. Remove the cover of the transport channel to diagnose the malfunction and troubleshoot it (Fig. 10).
3. Reinstall removed elements, close the cover and continue the drying process.

Switching the Appliance Off

1. If the appliance is not to be used any more, it should be switched off with the **START/END** key.

The appliance continues to work for approx. 10 min. and dries the granulate. As soon as the time elapses, the appliance switches off.

2. Unplug the appliance.

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Maize Granulate Replacement

ATTENTION!

Electronic counter counts the operating hours of the appliance. After reaching the number of operating hours set by the manufacturer, alarm indicator lights start flashing (see section 7 'Possible Malfunction'), which signal a need to replace the maize granulate.

A warning light remains active in stand-by mode of the appliance, until resetting of the hour counter. The fact that the set number of operating hours is reached does not block further operation of the appliance.

The method of replacing the maize granulate:

1. Remove the plug from the socket.

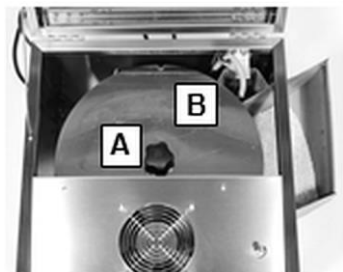


Fig. 11



Fig. 12

2. Open the cover of the appliance (Fig. 11).
3. Undo the fastening knob (A) of the drier's drum cover.
4. Remove the drier's drum cover (B).
5. Remove the maize granulate from the drier's drum as much as possible, by hand or using a small dustpan. The rest may be removed with a vacuum cleaner.
6. Clean the inside of the drier's drum and dry it thoroughly.
7. Always fill with the exact quantity of the maize granulate (see 'Technical Data' table) directly into the drier's drum of the appliance (Fig. 12).
8. To end with, attach the drier's drum cover using the fastening knob (A).
9. Close the cover of the cutlery polishing machine.

Resetting Hour Counter

1. With the appliance **on**, press and hold the START/END key (3) and operate the ON/OFF switch (set to 'I' position).
2. Release the START/END key (3).

The red Alarm 1 (8) and ALARM 2 (9) LED indicator light blink for 5 seconds. Next, the hour counter is reset to zero and the appliance is ready for operation again.

6 Cleaning

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

Cleaning from Inside and Outside

1. Clean the appliance daily from the outside with warm water and a soft, damp cloth.
2. Dry surfaces thoroughly with a soft cloth.
3. Clean the inside of the appliance (drier's drum) each time when the maize granulate is replaced. Follow the instructions in section '**Replacing Maize Granulate**'.

UV Lamp Cleaning

1. Remove the plug from the socket.
2. Open the cover of the appliance (Fig. 11).
3. Use the enclosed spanner to undo the top side fixing bolts of the appliance's front plate and remove it.

4. Loosen the bottom side bolts (Fig. 13).
5. Use a soft cloth and carefully wipe dust off of the fluorescent tube that might have accumulated, for example, during operation.

NOTE!

If possibly, try not to touch the fluorescent tube with your hands.



Fig. 13

6. After cleaning of the UV lamp, re-bolt the front plate.
7. Close the appliance cover.

UV Lamp Replacement

1. Remove the plug from the socket.
2. Use the enclosed spanner to undo the top side fixing bolts of the appliance's front plate and remove it.
3. Loosen the bottom side bolts (Fig. 13).
4. Dismantle the fluorescent tube by turning it by 90° and carefully removing it.
5. Install a new fluorescent tube.

ATTENTION!

Handle the fluorescent tube carefully and, if possible, do not touch it with bare hands not to soil the surface during installation.

6. Finally, re-bolt the front plate of the appliance.
7. Close the appliance cover.




ATTENTION!




In order to ensure proper operation, the UV lamp (fluorescent tube) should be always replaced after 8,000 operating hours.

7 Possible Malfunctions

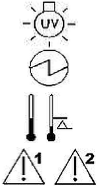
The table below contains descriptions of possible causes and solutions to malfunctions or errors during operation of the appliance. When malfunction cannot be removed, contact the technical service.

In such a case, provide article number, model name and serial number. These data may be found in the rating plate.

No.	Symbol	Problem	Possible Cause	Solution
1+2		Appliance does not work	No power supply	Check the power cord and make sure that the plug has been correctly inserted into the mains socket
			Fuse damaged	Replace the fuse
			ON/OFF switch in 'O' position	Set the ON/OFF switch to 'O' position
			Cover is not closed properly	Close the appliance cover
4		LED 4 indicator light is flashing	Damaged UV lamp	Replace the UV lamp
			Damaged lamp socket	Replace the lamp socket
8		LED 8 indicator light is flashing	Flashing indicates that no power supply reaches the motor	Check the motor's power supply, possibly contact the service company in order to replace the motor

No.	Symbol	Problem	Possible Cause	Solution
9		LED 9 indicator light is flashing	Flashing indicates that the motor is blocked	Disconnect the appliance from mains power supply and make sure there are no cutlery pieces in the drier's drum that would hinder motor rotations Otherwise, contact the service company in order to replace the motor
6+8		LED 6 and LED 8 indicator lights are flashing	If both (6+8) or (6+9) LED indicator light are flashing, the temperature probe malfunctioned (probe shorting or probe not connected) In this status, the cycle of 8 minutes of OFF and 8 minutes of ON starts, during which the resistor is controlled directly by the printed circuit board.	Replace the temperature probe
6+9		LED 6 and LED 9 indicator lights are flashing		

Possible Malfunctions

No.	Symbol	Problem	Possible Cause	Solution
4+5+ 6+7+ 8+9		LED 4, 5, 6, 7, 8, 9 indicator lights are flashing	If all the indicated LED indicator lights are flashing (4, 5, 6, 7, 8, 9), you need to replace the maize granulate and reset the hour counter.	Replace the maize granulate and reset the hour counter (following indications in sections ' Maize Granulate Replacement ' and ' Resetting Hour Counter ')
		Appliance is not heating up	Damaged heating element	Contact the service company

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.