saro
Gastro-Products

Operation manual

Coffee Machine Model S48T

Item-No.: 317-2190



English - Translation

INHALT

LIEFERUMFANG ..... **Fehler! Textmarke nicht definiert.**

NORMEN UND RICHTLINIEN ..... **Fehler! Textmarke nicht definiert.**

TECHNISCHE ÜBERSICHT ..... **Fehler! Textmarke nicht definiert.**

SYMBOLERKLÄRUNGEN ..... **Fehler! Textmarke nicht definiert.**

ALLGEMEINE HINWEISE ..... **Fehler! Textmarke nicht definiert.**

SICHERHEITSHINWEISE ..... **Fehler! Textmarke nicht definiert.**

GERÄTEAUFSTELLUNG ..... **Fehler! Textmarke nicht definiert.**

GERÄTEANSCHLUSS ..... **Fehler! Textmarke nicht definiert.**

STRUKTUR UND TEILE ..... **Fehler! Textmarke nicht definiert.**

ERSTE INBETRIEBNAHME ..... **Fehler! Textmarke nicht definiert.**

BEDIENUNG - EINSTELLUNGEN ..... **Fehler! Textmarke nicht definiert.**

REINIGUNG ..... **Fehler! Textmarke nicht definiert.**

WARTUNG ..... **Fehler! Textmarke nicht definiert.**

KAFEEMASCHINE AUßER BETRIEB NEHMEN / LAGERUNG /TRANSPORT ..... **Fehler! Textmarke nicht definiert.**

FEHLERSUCHE UND -BEHEBUNG ..... **Fehler! Textmarke nicht definiert.**

STROMLAUFPLAN ..... **Fehler! Textmarke nicht definiert.**

EXPLOSIONSZEICHNUNG: ..... **Fehler! Textmarke nicht definiert.**

EXPLOSIONSZEICHNUNG - Legende ..... **Fehler! Textmarke nicht definiert.**

VERPACKUNGS-ENTSORGUNG ..... **Fehler! Textmarke nicht definiert.**

GERÄTE-ENTSORGUNG ..... **Fehler! Textmarke nicht definiert.**

Dear Customer,

Congratulations on your new SARO coffee machine S48T.

The item you have purchased was developed for commercial use in restaurants, hotels, cafés, canteens, and supermarkets, to brew larger quantities of coffee and keep it warm on the warming plate. The required amount of coffee can be dispensed on-site.

Please read the operating instructions carefully before using the appliance for the first time.

We wish you lots of enjoyment with your new SARO product.

SCOPE OF DELIVERY

- 1 coffee machine
- 4 glass jugs
- 2 filter holder
- Operation manual

STANDARDS AND DIRECTIVES

Das Gerät entspricht den aktuellen Normen und Richtlinien der EU:
Niederspannungsrichtlinie – NSR 2014/35/EU,
Richtlinie zur elektromagnetischen Verträglichkeit – EMC 2014/30/EU,
RoHS–Richtlinien 2011/65/EU und 2015/863/EU,

Bei Bedarf lassen wir Ihnen die entsprechende Konformitätserklärung zukommen.

TECHNICAL OVERVIEW

Coffee Machine	
Model	S48T
Order-Nr.	317-2190
Material	(Housing) Steel, black enamel coated; (basket filter holder) stainless steel
On/Off Switch	YES
Power Connection	Ready to plug in with 2 Schuko plug
Brewing Time	Ca. 5 Minuten
Brewing temperature	Ca. 93 – 96°C
Boil-Dry Protection	YES
Capacity Glass jug	4x 1,8 Liter
Power Supply	230 V / 50/60 Hz /2x 2,06 kW
Dimension	W 400 x D 413 x H 425 mm
Net/Gross Weight	12,1 / 15,1 kg
GTIN [EAN-Code]	4017337071708

SYMBOL EXPLANATIONS



WARNUNG!
Dieses Symbol kennzeichnet Gefahren, die zu Verletzungen führen können. Halten Sie die angegebenen Hinweise zur Arbeitssicherheit unbedingt genau ein und verhalten Sie sich in diesen Fällen besonders vorsichtig.

WARNING!
This symbol indicates hazards that may cause injuries. Always follow the specified safety instructions precisely and exercise extra caution in these situations.



WARNUNG: GEFAHR DURCH ELEKTRISCHEN STROM!
Dieses Symbol macht auf gefährliche Situationen durch elektrischen Strom aufmerksam. Bei Nichtbeachten der Sicherheitshinweise besteht Verletzungs- oder Lebensgefahr!

WARNING: DANGER OF ELECTRIC SHOCK!
This symbol warns of hazardous situations caused by electric current. Failure to follow the safety instructions may result in injury or death!



WARNUNG: HEISSE OBERFLÄCHE - VERBRENNUNGSGEFAHR
Dieses Symbol weist auf die heiße Oberfläche des Gerätes, während des Betriebes und danach hin. Verbrennungsgefahr bei Nichtbeachten!

WARNING: HOT SURFACE - RISK OF BURNS
This symbol indicates the hot surface of the device during and after operation. Risk of burns if not observed!



WARNUNG: FEUERGEFÄHRLICHE STOFFE - VERBRENNUNGSGEFAHR
Dieses Symbol weist darauf hin, dass Gefahren aufgrund von feuergefährlichen Stoffen für Leben und Gesundheit von Personen bestehen. Verbrennungsgefahr bei Nichtbeachten!

WARNING: FLAMMABLE SUBSTANCES - RISK OF BURNS
This symbol indicates that flammable substances pose a danger to life and health. Risk of burns if not observed!

GENERAL INSTRUCTIONS

- Keep this operating manual readily accessible near the appliance.
- The manufacturer/dealer cannot be held responsible for any damage resulting from failure to follow these instructions.
- If this manual is not observed, the safety of the appliance is no longer guaranteed.
- When passing the appliance on to a third party, this manual must be included.
- This appliance must not be operated by children or persons with limited physical, sensory, or mental abilities, as they may not recognize the hazards of using electrical devices, which can result in accidents, fire, explosions, or property damage.
- After unpacking the appliance, ensure that everything is in perfect condition. If you notice any damage, do not connect the appliance – contact your dealer immediately.
- Check whether all components listed in the scope of delivery are present. If anything is missing, notify your dealer.
- Keep the appliance packaging. The device can only be safely transported (e.g., for repairs or moving) in the original packaging. Note that all packaging materials (plastic bags, cardboard, styrofoam parts, etc.) can be hazardous to children and must not be stored near them.
- If keeping the packaging is not possible, separate the packaging materials accordingly and take them to the nearest recycling center for proper disposal.
- Do not use the appliance outdoors in the rain or in damp environments.
- Do not operate the appliance unattended.
- Observe accident prevention regulations and general safety guidelines applicable to the area of use.
- Place the appliance in a dry, well-ventilated location on a flat, stable surface.
- Before connecting to the power supply and using the appliance, clean it thoroughly as described in the “Cleaning” section.
- Before plugging in the appliance, ensure that a grounded 230 V Schuko socket is available and that the electrical data match the information on the rating plate. Using a different power supply than specified can cause overheating or damage to the appliance.
- Do not drill or puncture the interior or exterior of the appliance. The system may be damaged.
- The manufacturer/dealer cannot be held responsible for damage caused by failure to follow this manual. In such cases, the safety of the appliance is no longer guaranteed.
- In case of malfunction or error, disconnect the appliance from the power supply and contact your dealer. Repairs should be carried out with original spare parts.
- Do not store the appliance at low temperatures, as water remains inside the boiler.

SAFETY INSTRUCTIONS



- Improper use and incorrect handling can lead to malfunctions and injury to the user.
- During operation, there is a risk of scalding from hot steam and liquids – exercise caution when handling lids, taps, and containers.
- Observe the accident prevention regulations and general safety guidelines applicable to the intended area of use.
- Ensure the appliance stands securely on a dry, slip-resistant surface that can support its weight, and place it in a well-ventilated location.
- Do not expose the appliance to direct sunlight, do not place it near other heat sources (radiators, stoves, ovens, open flames), and do not place it on a hot surface.



- Do not store flammable or explosive substances near the appliance.
  Do not carry out work with flammable substances near the appliance (e.g., spraying paint or lacquer). This could lead to fire or explosion.
- Do not place heavy objects, loads, or liquids on top of the appliance.
- Before connecting to your power supply, check that the type of current and voltage match the specifications on the rating plate. Only in case of a match can the appliance be operated safely to avoid accidents or damage.
- Do not use adapters, power strips, and/or extension cords; they may overheat quickly, especially when other devices are connected. This increases the risk of fire.
- Do not move the appliance while in use.
- Before moving the appliance, switch it off (if a switch is present) and unplug it from the socket.
- Always unplug the appliance by holding the plug housing – never pull on the cable.



- Make sure the appliance does not tip over while being moved. This could cause injury.
- In the event of a power outage or if the plug has been pulled briefly, turn off the appliance, wait 5 minutes, then plug it back in and restart the appliance.
- Do not let the power cord hang over sharp edges, do not crush it, and keep it away from hot surfaces and open flames.
- Ensure the cable cannot be pulled accidentally or tripped over.
- Regularly inspect the power cord. If it is damaged, e.g. crushed, it must be replaced by a qualified technician.
- Do not touch the appliance, cable, or plug with wet or damp hands.



- Caution! The appliance remains under voltage as long as it is connected to the power supply.
- Protect the appliance from moisture.
- Do not clean the appliance with a direct water jet.
- Do not immerse the appliance in water or other liquids, and do not allow liquids to enter the appliance.
  If the appliance does become wet, unplug it immediately and have it checked by a qualified technician before using it again. There is a risk of fatal electric shock.
- A damaged appliance must not be used!
  In such cases, disconnect it from the power supply and contact your dealer.
- Never attempt to open or repair the appliance yourself. There is a risk of fatal injury!
- Do not drill or puncture the appliance, neither on the exterior nor the interior.
  Do not install other devices or attach foreign objects to it.
- Repairs must be carried out by qualified professionals using original spare parts.
- Always unplug the appliance before cleaning or when not in use for an extended period.
- For hygienic reasons, at least one daily cleaning is recommended, or more frequently if needed throughout the day.

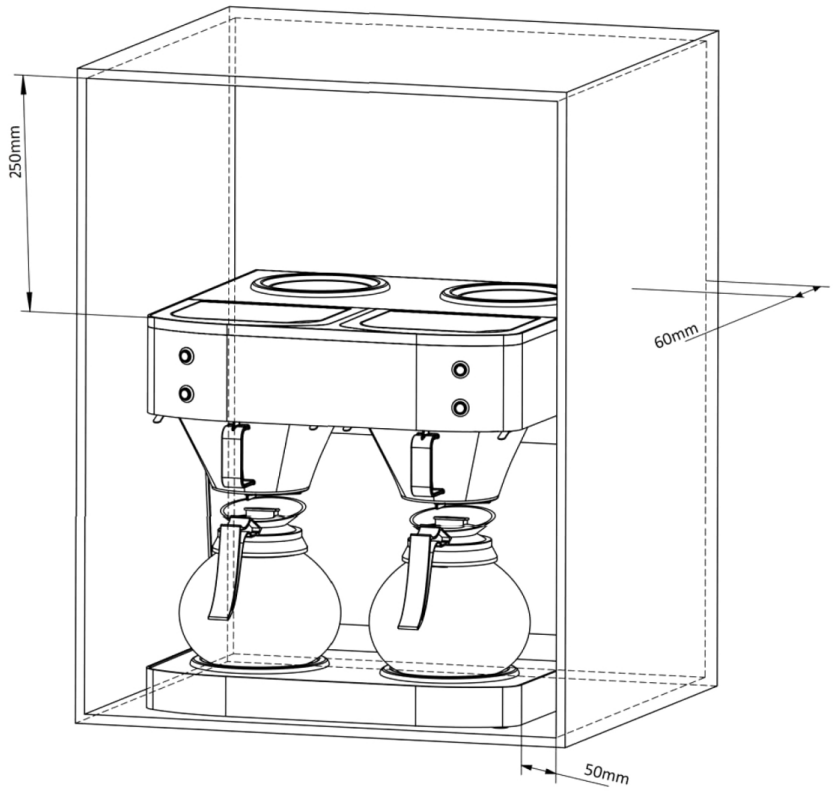
DEVICE INSTALLATION

Place the appliance in a dry and well-ventilated room. Ensure it stands securely on a dry and non-slip surface.

Position the appliance with its back at least 6 cm away from the wall to allow sufficient air circulation at all times. There should be at least 25 cm of space above the appliance and 5 cm on each side.

The performance and power consumption may be affected by the ambient temperature or direct sunlight. Therefore, do not expose the appliance to direct sunlight and do not place it near a stove, radiator, or any other heat source.

Ensure that the power plug is always easily accessible and can be disconnected from the power supply without difficulty.



ELECTRICAL CONNECTION

Before connecting the appliance, make sure that the voltage and frequency of the power supply match the information on the rating plate! Using the wrong voltage may cause the appliance to overheat!!!

Connect the appliance only to a grounded socket with an earth connection and a 230-volt power supply.

After a power failure or if the appliance has been disconnected from the power supply, wait at least 5 minutes before reconnecting and switching the appliance back on!

STRUCTURE AND COMPONENTS



INITIAL START-UP

Before first use::

1. Before using the appliance, carefully check that it is undamaged. If you notice any damage or problems, contact your supplier and do not use the appliance.
2. Remove all packaging and protective materials.
3. Place the appliance on a stable and level surface.
4. Ensure there is sufficient space around the appliance for proper ventilation.
5. Insert the filter holder into the appliance.
6. Open the lid of the water reservoir.
7. Fill the decanter with cold water and pour it into the water reservoir.
8. Close the lid and let the appliance run for 1 minute to allow the steam to escape.
9. Place the decanter on the warming plate beneath the holder.

> **Note:**
> The capacity of the water reservoir is 1.8 L. Please make sure not to overfill it.

10. Plug the power cord into the socket.
11. Press the ON/OFF switch. The red indicator light will turn on, showing that the water is heating.
12. After a short time, hot water will begin dripping into the decanter.
13. After 5 to 6 minutes, the red light will go off or turn blue, indicating that the water reservoir is nearly empty.
14. Press the ON/OFF switch again to switch off the appliance.
15. Repeat steps 6 to 14 to clean the appliance thoroughly. Then let the appliance cool down for a few minutes.
16. When removing the glass decanter, always hold it by the thermal-insulated handle to avoid injury. Do not touch the warming plate.

OPERATION – SETTINGS



EIN/AUS-Schalter:
- Erhitzt das Wasser
- Schaltet die untere Warmhalteplatte ein
ON/OFF switch button:
- heat up the water
- turn on the lower warming plate



Schalter um die obere Warmhalteplatte ein- oder auszuschalten
Buton to turn on and off the upper warming plate

- Place the coffee filter (diameter approx. 0.25 cm) into the filter funnel.
- Fill the filter funnel with coffee powder. The amount of coffee powder depends on your personal taste – the more powder you use, the stronger the flavor. The recommended amount is approx. 75–90 g per decanter of water.
- Insert the filter funnel into the holder of the appliance.
- Fill the decanter with cold water. Open the lid of the water reservoir and pour the water into the tank.
- Place the decanter on the warming plate under the holder.
- Close the lid of the water reservoir.
- Plug the power cord into the socket.
- Press the ON/OFF switch. The red indicator light shows that the water is heating.
- After a short time, coffee begins to drip into the decanter.
- After 5 to 6 minutes, the red light goes off or turns blue, indicating that the water in the tank is nearly empty and the coffee is ready.
- If you want to keep the coffee warm, leave the appliance switched on.
- When removing the glass decanter, hold it only by the heat-insulated handle to avoid burns. Do not touch the warming plate.
- Press the ON/OFF switch again to turn off the appliance.

Notes

If the appliance has not been used for a long time, clean it again before the next use – as described in the previous section.
There is a pipe inside the appliance to release water in case the water reservoir overflows.
Even if the water reservoir is empty, some water may remain inside the appliance. Please clean the appliance before using it again if it has not been used for an extended period.

CLEANING

- Always switch off the appliance, unplug it, and let it cool down completely before cleaning.
- You can clean the parts of the appliance, including the filter funnel and the decanter, with mild detergent and a soft, damp cloth.
- Do not use steel wool, abrasive cleaners, or chlorine-based cleaning agents on the appliance.
- Dry the appliance thoroughly before reconnecting it to the power supply.

MAINTENANCE

Descaling
If the appliance is used over a longer period of time, limescale can build up on the heating element and in the water system. Descale the appliance regularly to ensure optimal performance and to preserve the taste and aroma of the coffee.

Steps for descaling:

1. Use a descaling agent, lemon juice, or vinegar-based cleaner for descaling.
2. If using lemon juice or vinegar cleaner, mix 1/3 lemon juice or vinegar with 2/3 water.
3. Insert the filter funnel into the holder of the appliance.
4. Place an empty decanter under the filter funnel.
5. Pour the descaling solution into the water reservoir.
6. Switch on the appliance.
7. As soon as the solution starts to run through the appliance, switch it off.
8. Let the appliance sit for about 5 minutes so the descaling solution can dissolve the limescale inside.
9. Switch the appliance on again to allow the solution to run through completely.
10. After the entire solution has passed through, switch off the appliance.
11. Fill the water reservoir with clean water and repeat steps 6 to 14 from section 6 until no smell or taste remains in the water.

Regular Maintenance
To ensure the appliance is always in proper working condition, clean and descale it regularly.
How often maintenance is needed depends on how intensively you use the appliance.

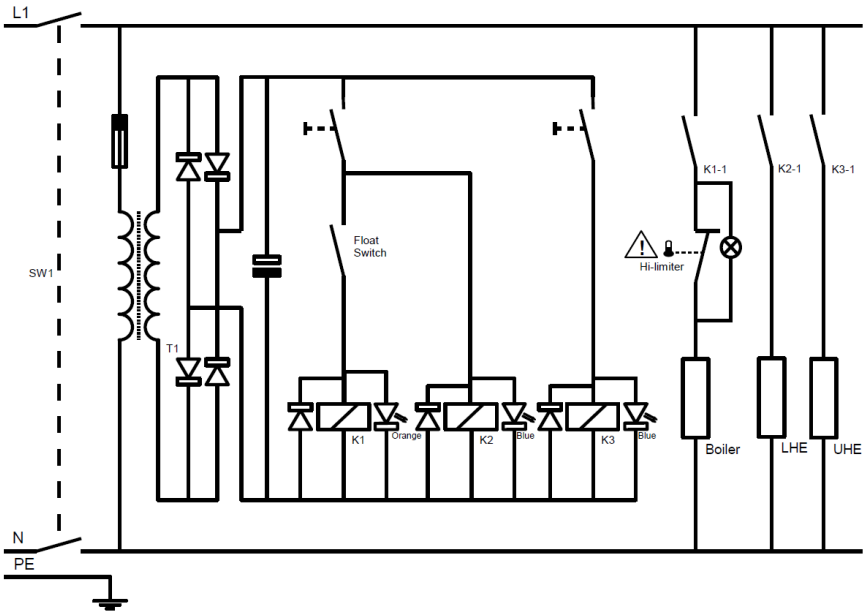
TAKING THE COFFEE MACHINE OUT OF OPERATION / STORAGE / TRANSPORT

Switch off the appliance and unplug it from the power outlet.
Thoroughly clean the interior and exterior of the appliance. Once it is dry and not intended for use for an extended period, store it in a dry, dust-free, and non-heated place. Empty the boiler by turning the appliance upside down. It is best to cover the appliance or use the original packaging to protect it from damage.
Make sure to secure the appliance to prevent pets from climbing inside and possibly getting trapped.
When storing only the packaging materials, please be aware that components such as plastic bags, cardboard, and styrofoam can pose a danger to children if they play with them unsupervised (e.g. risk of suffocation).
For transporting the appliance, it is best to use the original packaging to protect it optimally against impacts, sharp edges, weather conditions, etc.
Do not expose the appliance to moisture or rain and avoid strong vibrations.

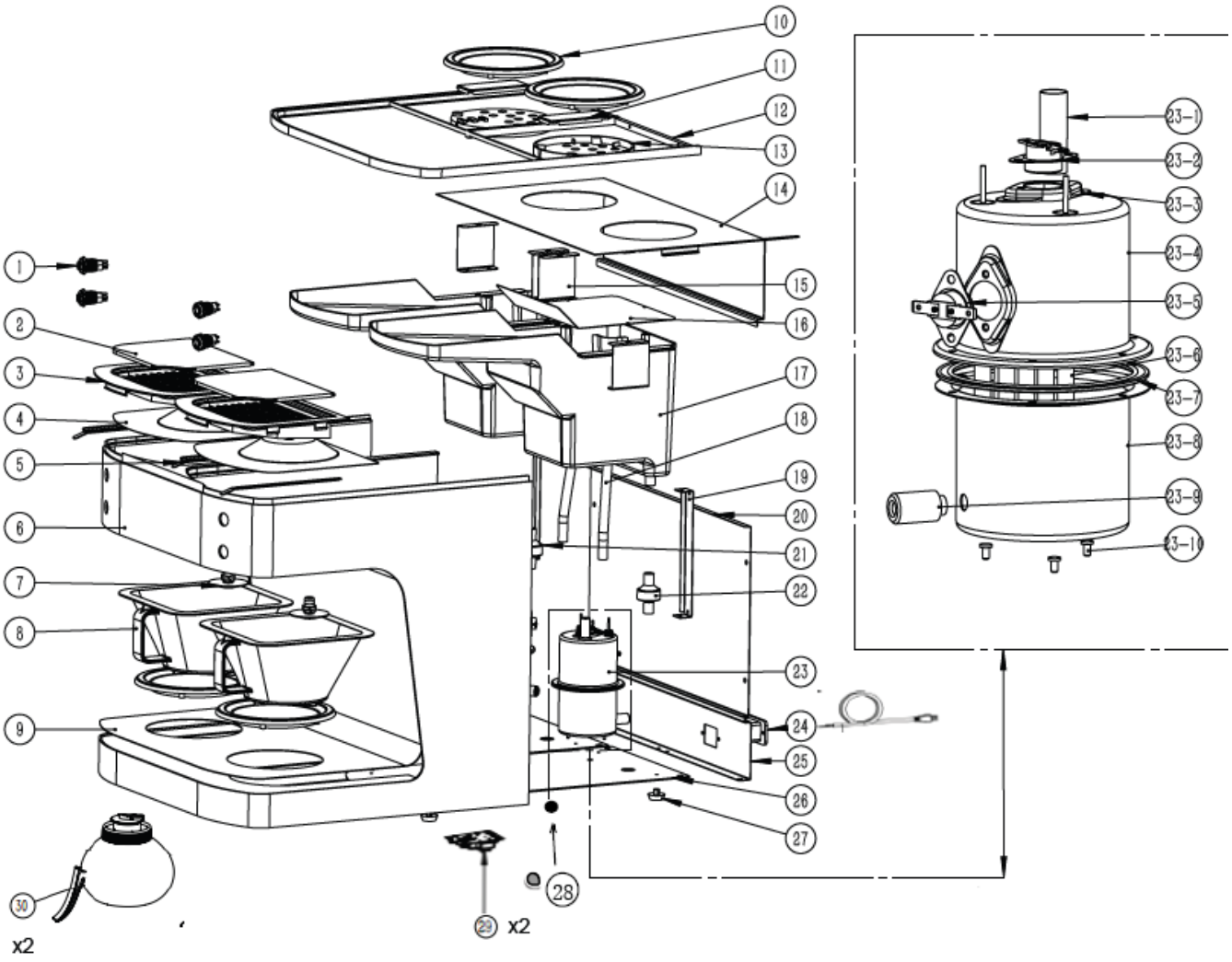
TROUBLESHOOTING

Problem	Mögliche Ursachen	Lösung
The ON/OFF switch does not light up	▪ No power supply to the appliance ▪ ON/OFF switch is defective	▪ Check the power plug ▪ Contact customer service
The red indicator light at the front is on	▪ Appliance temperature is too high	▪ Switch off the appliance, unplug it, allow it to cool down, and contact customer service
Appliance operates, but water flow is uneven	▪ Electronic control is defective ▪ Temperature protection circuit is damaged	▪ Contact customer service
The fuse trips when the appliance is switched on	▪ Short circuit	▪ Contact customer service
If the problem cannot be solved through basic troubleshooting, please contact your dealer.		

WIRING DIAGRAM



EXPLODED VIEW DRAWING



EXPLODED VIEW DRAWING – LEGEND

1	LED bicolor indicator	LED-Bicolor-Anzeige
2	Water inlet cover	Abdeckung des Wassereinlasses
3	Water inlet	Wassereinlass
4	Sprinkler cap	Sprühkopf-Abdeckung
5	Guide rail	Führungsschiene
6	Plastic Body Frame	Kunststoffgehäuse-Rahmen
7	Sprinkler with Joint & nut	Sprühkopf mit Verbindung und Mutter
8	Plastic Filter Pan	Kunststoff-Filterpfanne
9	Decorative panel	Dekorative Blende
10	Warming dish	Warmhaltefläche
11	Mica Warming Plate	Mica-Warmhalteplatte
12	heat shield	Hitzeschild
13	Electroplating ring	Galvanisierter Ring
14	Upper cover	Obere Abdeckung
15	Reservoir Fixer	Halterung des Wassertanks
16	Reservoir Lid	Deckel des Wassertanks
17	Reservoir	Wassertank

18	Drain pipe	Ablaufrohr
19	Back cover supporter	Halterung der Rückabdeckung
20	Back cover	Rückabdeckung
21	OneWay Valve	Rückschlagventil
22	Float Switch	Schwimmerschalter
23-1 23-4 23-10	Boiler Tank	Boilertank
23-2	Auto Thermostat	Automatischer Thermostat
23-5	Manual High Temp. Thermostat	Manueller Hochtemperatur-Thermostat
24	Power Cord	Netzkabel
25	Back cover	Rückabdeckung
26	Bottom cover	Bodenabdeckung
27	Rubber foot	Gummifuß
28	Cord Protective ring	Kabelschutzring
29	PCB control with pin	Steuerplatine mit Pins
30	1.8L glass jug	1,8-Liter-Glaskanne

PACKAGING DISPOSAL



Please separate the packaging materials accordingly and take them to the appropriate collection points for recycling and environmental protection.

DEVICE DISPOSAL



Once the appliance has reached the end of its life, please dispose of it properly at a designated collection point for electrical devices.
Electrical appliances do not belong in household waste.
Your local authority can provide information on the locations and opening hours of disposal sites.
This is the only way to ensure that old appliances are disposed of and recycled correctly.
Thank you!

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Note: Technical, design, and model changes as well as errors are subject to change without notice.