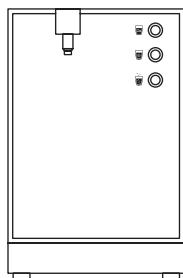




INSTALLATION USE AND CARE MANUAL
AQUABOX 45 CAS WATER DISPENSER



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GLOSSARY

BUILDER: this term identifies the manufacturer of the fitting, who has his name on the EC Declaration of Conformity

EXPOSED PERSON: any person in the vicinity of the device

RESIDUAL RISKS: this term identifies all dangers that are not evident and cannot be eliminated at the tap design stage

GENERAL WARNINGS

WARNING:

- **Read this manual carefully before using the device.**
- **The technical information contained in this manual is the property of Ecosoft company; any reproduction, even partial, of this manual is prohibited.**
- **Ensure that the device has not been damaged during transport. Packaging materials, being potential sources of danger, must not be left within the reach of children and must be disposed of in accordance with the regulations in force.**
- **Do not use damaged appliances. In the event of abnormal operation (short circuits, sudden shutdowns, water leaks, etc.) switch off the appliance, close the water inlet valve of the appliance and disconnect the power supply, then call the authorised service centre.**
- **The manufacturer declines all responsibility in the event of changes and errors in the electrical and hydraulic connections caused by failure to comply with the instructions in the appliance's installation manuals. It is forbidden to use the equipment for purposes other than those intended. FAILURE TO COMPLY WITH THESE INSTRUCTIONS WILL RESULT IN IMMEDIATE FORFEITURE OF THE WARRANTIES.**

SAFETY WARNINGS

WARNING:

- **Read the instruction manual carefully.**
- Do not leave the packaging material (box, bag, staples, etc.) within the reach of children. It is advisable to keep the packaging for future use; otherwise, dispose of the materials in accordance with current regulations.
- If the appliance is damaged or shows visible defects or malfunctions, do not use it or attempt to dismantle or tamper with it. Contact your dealer directly for repair.
- Place the appliance on the ground on a flat and stable surface; in a suitable place protected from the weather (sun, rain, frost, etc.).
- Do not place the appliance on top of other appliances.
- Place the appliance away from heat sources.
- Installation, servicing and repair work may only be carried out by qualified and specialised personnel authorised by the manufacturer; always contact your dealer or Ecosoft's authorised service centre.

SAFETY WARNINGS

Installation must be carried out by qualified personnel in accordance with EN 15232-1:2017 – "Energy performance of buildings – Impact of Building Automation, Controls and Building Management".

WARNING: The water supplying the appliance must be exclusively drinking water, with characteristics that comply with the limits set by "Directive (EU) 2020/2184 on the quality of water intended for human consumption.

It is absolutely forbidden to connect the appliance to water sources other than drinking water. Do not use the appliance to deliver volumes of water greater than those indicated in the technical data or at pressures lower than 2.5 or higher than 4 bar.

- If the mains cable is damaged, it must be replaced by the dealer or Ecosoft's technical service department in order to prevent any risk.
- Do not crush the power cable or place heavy objects on it.
- Do not use adapters to connect the device to the electrical outlet.
- Do not pull the plug from the power socket with wet or damp hands.
- Do not pull the power cord or the appliance to unplug it from the electrical outlet.
- In case of anomalies (water leakage or other), disconnect the power supply and position the valves so that the appliance is in by-pass.
- Do not use the appliance in explosive environments.
- The appliance must always remain electrically powered.
- Do not climb or sit on the appliance.
- Only use original accessories.
- Never immerse the appliance in water.
- Do not clean the appliance with water jets.
- Carry out all start-up, cleaning or maintenance operations with the appliance switched off, no water supply and the mains plug disconnected from the 230V 50Hz socket.
- If the appliance is used inappropriately, not in accordance with the instructions for use, or if it is tampered with, the manufacturer shall not be liable for any damage caused to persons, animals or property.
- When the appliance is scrapped, it must be rendered unusable and then disposed of in accordance with current regulations.
- When positioning the machine, ensure that the supporting surface is adequate for the weight of the machine itself.

The manufacturer accepts no liability in the specific cases described below:

- improper use of the appliance;
- use contrary to specific national regulations (power supply, installation and maintenance);
- installation by unauthorised personnel;
- power supply faults (electrical discharges, power surges, water mains overpressure, low water pressure);
- unsuitable ambient operating temperature;
- lack of planned maintenance;
- unauthorised modifications or interventions;
- use of spare parts that are not original or not specific for the model;
- total or partial non-compliance with the instructions.

HYGIENE/SANITARY PRECAUTIONS

- For hygienic reasons, during maintenance, do not touch the internal parts of the appliance without first carrying out the normal hygiene procedures.
- If the appliance has been switched off for more than 24 hours, dispense at least 5 litres of water (depending on requirements and water quality).
- If the appliance has not been switched off for more than 24 hours, dispense at least 2 litres of water before consumption. The appliance must be used in full compliance with hygiene regulations to ensure water quality.

1. PACKAGING

Package opening

The luminaire is generally shipped on a pallet protected in a cardboard box and with plastic film: polyethylene bag and bubble wrap. In addition, the stainless steel panelling is protected by suitable, easily removable plastic film.



The packaging can be removed before taking the appliance to the installation site to await the technician. The packaging must be opened from the top. Remove the adhesive tape and closing straps.

Avoid damaging the surface of the stainless steel or painted panels depending on the model of the appliance. It is advisable use. Once the packaging has been removed, check that the appliance has not been damaged during transport. If this is the case, contact your dealer. Check the presence of the accessories supplied, which must be contained inside the box. The manufacturer reminds you that the warranty does not cover damage caused by transport or unloading and handling. Do not leave packaging materials unattended as they are potential sources of danger. If necessary, dispose of them in accordance with local regulations in force.

1. PACKAGING

1.1 CONTROL OF GOODS

After removing the packaging, check that the machine has not been damaged during transport. If this is the case, contact your dealer. Check the presence of the accessories that must be contained inside.

2. DEVICE DESCRIPTION

The AQUABOX 45 CAS appliance is drinking water chiller-gasifier, which is to be connected directly to the drinking water network or RO systems in order to supply chilled and chilled carbonated water at room temperature. The AQUABOX 45 CAS unit is divided into two groups: tabletop unit and freestanding unit.

Tabletop



Freestanding



Restrictions on use

It is absolutely forbidden to connect the appliance to water sources other than drinking water. Do not use the appliance to deliver volumes of water greater than those indicated in the technical specifications.

Environmental conditions

Prior to installation, the appliance must be stored in a vertical position at an ambient temperature between 5°C and 25°C.

Maximum humidity without condensation 80%.

At the time of installation and start-up the ambient conditions must be as indicated on the attached data sheet (see table below).

3. TECHNICAL DATA

APPLIANCES AMBIENTALLY FRIENDLY APPLIANCE BWT USES ENVIRONMENTALLY FRIENDLY GAS R290A

(PROPANE) GWP = 3

Mod. AQUABOX 45 CAS

This is chiller (fridge-gasifier) with a monobloc ice bank for large users, such as communities, offices, bars, canteens and restaurants. This chiller is equipped with a coil to cool the water supplied as cold, and a system for carbonating the water, which is made as carbonated cold, i.e. with the use of a carbonation pump and a carbonating gasifier placed inside the machine.

The structure is made of AISI 430 stainless steel or pre-painted steel depending on the model. The water temperature can be modified by means of special adjustments. The unit always has an ice bank tank made of plastic material, evaporator coil in AISI 304 or copper and water coils in AISI 304. The carbonator is made of AISI 304. The structure and cladding of the unit, side panels and cover are in AISI 430 stainless steel or either black skin plate (pre-painted steel).

- Cooling capacity is 45 l/hour.
- Environmentally friendly hermetic compressors up to 0,37 kW.
- **Refrigerant R290a**
- The unit is built with materials suitable for contact with drinking water.

NOTE:

The coil for the passage of water is made of AISI 304 steel

The coil for the passage of refrigerant gas is in AISI 304 steel or copper (according to model)

The ice bank tank is made of rotomoulded plastic

The condenser heat sink is made of micro-channel aluminium

3. TECHNICAL DATA

GENERAL TECHNICAL DATA

Parameter	Value
Water inlet pressure	min 2.0 bar — max 3.5 bar
CO ₂ inlet pressure	max. 4.0 bar
Operating temperature	2° C — 35° C
Power supply	220-240V / 50Hz
Absorbed power (W)	370
Device dimensions (WxDxH-mm)	290 × 515 × 440
Water Pump	200 l/h technopolymer paddles
Water Pump Motor	120 W
Treated water flow rate	min 2 l/min (recommended) — max 2,5 l/min
Ice Bank Control	thermostat -2°C to 7°C
Compressor	depending on model
Refrigerant	R290 GWP 3
Evaporator coil	AISI 304
Water cooling coil	AISI 304 Diam 8 mm
Ice bank tank	Rotationally moulded plastic
Side panel and cover	Pre-painted sheet metal
Ø Water inlet pipe	5/16" — 8 mm
Ø CO ₂ gas inlet pipe	6 mm
Min./max. water temperature	5 — 25 °C
Min./max. ambient temperature	5 — 40 °C
Ambient relative humidity max.	70
Weight	23 kg

3. TECHNICAL DATA

POSITIONING

The appliance must be handled with care; falls and knocks can damage it even without external damage.

The appliance must only be installed by authorised technical personnel, who will take care of its maintenance and periodic sanitisation. Place the appliance away from heat sources and flammable materials. In the vicinity of the appliance, electrical and water supplies must be available in accordance with the manufacturer's specifications. Ensure a minimum perimeter space of 20 cm for sufficient ventilation, particularly for under-counter appliances.

The side of the air-cooled condenser must be easily accessible for cleaning, possibly with the hot air produced by the condenser conveyed outside the room.

If the appliance has been transported or placed in a non-vertical position, it must be positioned correctly and wait at least 24 hours before starting it up. The electrical connection cable, water pipes, and carbon dioxide pipes must not get in the way.

WARNING: It is forbidden to place the appliance near direct or indirect heat sources, or on top of other appliances or equipment.

4. INSTALLATION

Once the machine has been positioned, it is necessary to connect the power supply.

The warranty is automatically void in the event of:

- unauthorised installation or without following the instructions provided;
- problems due to power supply faults;
- comply with the national regulations in force in the country of installation.

5. CONNECTIONS

The following work must be carried out by specialised and competent personnel.

Mains water inlet at the rear of the appliance:

Mains water inlet (pipe diameter 3/8" or 5/16" - 8 mm, Drain outlet 3/8" or overflow hose connection).

Do not make any temporary connections.

A water stopcock must be installed at the point of connection.

The mains water supply must guarantee:

- that there is no overpressure;
- a pressure according to the technical characteristics table;
- the maximum recommended mains pressure is 4 bar. If the pressure is higher, a pressure reducer set at max. 4 bar must be installed after the shut-off valve.

Check that the characteristics of the water system comply with the manufacturer's instructions. Use only pipes and fittings certified for food use.

5. CONNECTIONS

Check the hydraulic tightness.

It is advisable to install an additional pre-filter or RO system like RO[®]ust COFFEE in series with the water supply line in case

the drinking water is not perfectly clean.

Before connecting the power plug to the 230V 50Hz socket, open the water.

Hydraulic connections must be made before the system is electrically supplied!!!

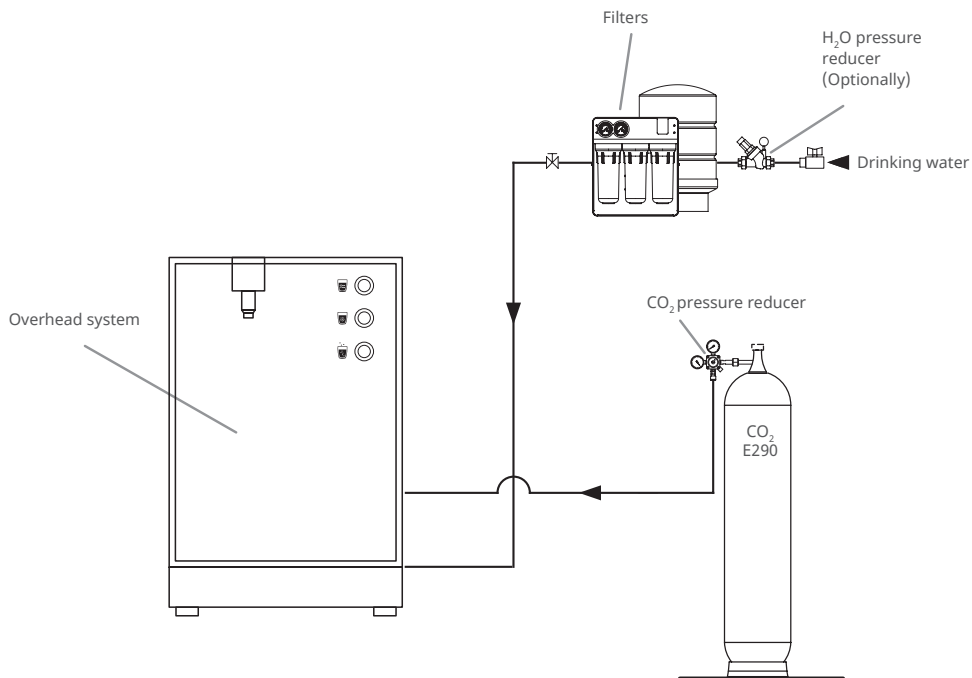
Connections are made by means of John Guest or similar quick couplings and specific pipe.

WARNING: Smaller diameters may cause the entire system to malfunction!

When using the quick-action coupling system, care must be taken when cutting the pipe. The pipe must be cut with a pipe cutter so that it is clean, perpendicular and the cutting edge is not crushed, otherwise the joint will be lost. In addition, the pipe must be pressed all the way into the fitting.

Insert safety clip on each fitting.

INSTALLATION DIAGRAM:



6. ELECTRICAL CONNECTIONS

The gas cooler complies with the safety regulations in force in the European Union and therefore bears the CE mark. The manufacturer declines all responsibility for damage to persons or property resulting from connection of the gas cooler to an electrical supply that does not comply with the regulations and legislation in force in the country in which the gas cooler is installed. In particular, the mains supply to which you connect your gas cooler must be equipped with a high-sensitivity residual current device (circuit breaker) with an intervention current of no more than 30mA and an earthing system that complies with current regulations and legislation.

In any case it must be ensured that the characteristics of the mains power supply comply with those of the gas cooler, as shown in the technical data sheet. If the power cable is damaged, it must be replaced with a new one with similar characteristics. It is forbidden to attempt to repair it. When making electrical connections, observe the general rules for the installation, preparation and commissioning of electrical systems applicable in the country where the appliance is installed. Pay particular attention to the earthing system.

In order to ensure the safety of persons and the appliance, the following rules must be observed.

WARNING: Check that the characteristics of the mains supply are compatible with the technical data of the appliance.

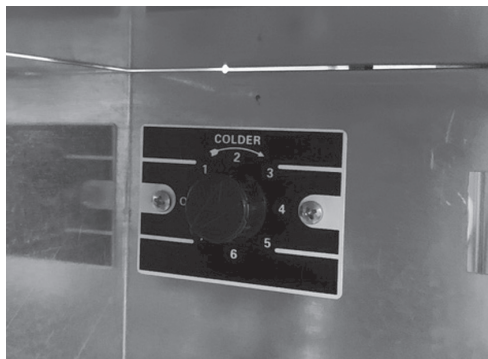
It is forbidden to use extensions, adapters or to splice the cable.

Once you have checked that the characteristics of the electrical system comply with the manufacturer's instructions and safety standards, proceed as described:

Connect the plug of the supplied electrical cable to your properly protected mains socket.

7. TEMPERATURE SETTING

The temperature of the water supplied by the appliance can be adjusted (depending on the ambient temperature and the temperature of the water to be treated) by means of an ADJUSTABLE THERMOSTAT positioned, also inside the technical compartment of the appliance.



8. CO₂ PRESSURE REGULATION

After opening the CO₂ cylinder completely and checking that there are no leaks, use a screwdriver to turn the adjustment screw or the handwheel depending on the model of CO₂ pressure reducer until the pressure gauge reads 3.5-4.0 bar.

It is advisable not to exceed these values; lower values result in proportionally lighter carbonation.

The pressure reducer is not included in the equipment.

9. USE OF EQUIPMENT

FIRST START FILLING BATHTUB (with machine not running and electrical plug disconnected):

WARNING: The appliance's tank must be filled with clean, fresh water.

The appliance cannot be operated with an empty tank. Do not use other liquids or additives for filling.

Before connecting the machine to the water mains, the tank containing the ice bank must be filled. Fill the tank, taking care not to get the electrical parts wet. Fill the tank with water either through the opening behind the front panel or at the rear of the machine by removing the rear panel.

Fill the tank until the water starts to flow out of the overflow pipe whose connection is located behind the machine.

Top opening for filling water into the tank. (top cover) The machine is equipped with a discharge connection for the overflow from the ice bank tank. Outgoing water must be channelled directly into the sewage system or collected in a container placed near the machine.

Drain connection

After all connections have been made, the appliance is started up. After start-up, the appliance switches off automatically when the formation of the internal ice bank is complete or when the set temperature is reached.

Caution! The absence of ice eliminates the refrigeration stock and lowers the carbonation level of the water. The maximum noise level of the appliance, if installed correctly, is less than 70 dB.

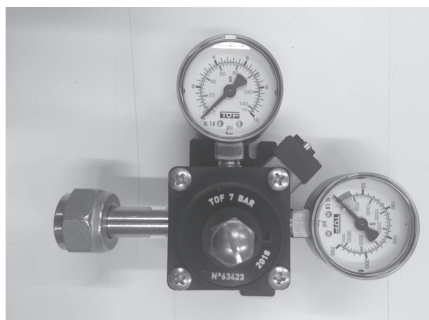
After the compressor has stopped for the first time the unit is ready to operate.

WARNING: Do not stop operation of the appliance at night.

Frost can damage the appliance if left idle and with a full tank at temperatures below 0 °C.

Do not expose CO₂ cylinders to high temperatures (in the sun) or too low temperatures (in cold rooms).

Pressure reducer
with double pressure gauge



9. USE OF EQUIPMENT

Tightly attach the pressure reducer (not included in the scope of supply) Screw the ring nut of the pressure reducer onto the thread of the tap on the refillable CO₂ cylinder (or the hose with anti-bandage if fitted). At this stage you must pay close attention to the hose connected to the pressure reducer, which must not be pulled or crushed in any way. Insert the supplied 8x6 diameter hose into the quick connector on the pressure reducer. The correct position to install the cylinder is upright with the pressure reducer next to the cylinder secured with the metal chain. If cylinders of different size and/or capacity are used, they must be placed in the immediate vicinity of the appliance in accordance with the supplier's instructions. Open the valve of the CO₂ cylinder by firmly holding the pressure reducer. At this stage, pay close attention to the tube connected to the pressure reducer, which must not be pulled or crushed. Check that there are no leaks in the line. If there are, eliminate the leaks by verifying the correct insertion of the tube in the quick couplings. Any gas venting during this operation should be considered normal. Continuous venting after the cylinder has been screwed down is not normal: ensure that the cylinder has been screwed down completely.

Slight venting of gas during this operation is normal.

Continuous venting after the cylinder has been screwed down is not normal.

Make sure that you have screwed the cylinder in firmly!

WARNING: Exposure to the CO₂ jet may cause burns due to the very low temperature of the gas.

After about 1 hour from start-up, the appliance is ready for dispensing.

The correct position for installing the cylinder is vertical, with the pressure reducer on top and the cylinder underneath tied to the cylinder rack with a chain.

The quality of carbonation depends not only on reaching the optimum temperature of the cooler, but also on the physical characteristics of the water used. From the moment the dispenser is connected to the mains, it takes about 2 hours to obtain optimal carbonation (without having drawn cold or carbonated water in the meantime). Start the carbonating pumps with the button on the outside of the machine. To be switched off in case of maintenance or non-use.

10. MAINTENANCE

All maintenance operations, whether ordinary or extraordinary, must be carried out with the appliance switched off and the power and water supplies disabled. Any operation on the appliance must only be carried out after having read the instructions in the "SAFETY WARNINGS" chapter. During the warranty period, we will not be held liable for any damage or malfunctions caused by failure to comply with the regulations in force.

The purchaser is only authorised to intervene on the machine in the cases listed on the following pages.

Non-described or extraordinary interventions may only be carried out by the Technical Assistance Centre or Dealer.

10. MAINTENANCE

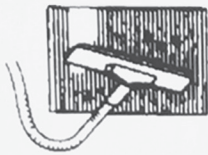
10.1 PERIODIC CLEANING AND SANITISING OF EQUIPMENT

Replace the water in the tank at least once a year or whenever it becomes dirty.
The following table is a guide to the scheduled cleaning and sanitising operations that must be carried out on the appliance, according to the suggested frequency.

PART OF THE APPLIANCE	TYPE OF INTERVENTION	Weekly	Monthly	Quarterly
Bodywork/condenser	cleaning	✓		
Appliance hydraulic circuit	sanitation	✓		
Total equipment	sanitation / cleaning		✓	
Ice cube tank	water change / cleaning			✓

NOTE: The times given in the table are approximate maximums, and refer to normal conditions of use. In any case, refer to the local health regulations (Municipality and/or Country). The frequency of intervention is directly proportional to the severity of use of the machine.

EXTERNAL CLEANING: for a good conservation of the machine, it is necessary to follow a scrupulous cleaning. General cleaning of the machine must be carried out with the machine switched off using neutral detergent products diluted in water and a damp cloth. Do not use products containing solvents or alcohol. The degree of protection of the electrical equipment guarantees protection against splashes; in any case, it is forbidden to wet electrical connections, switches, buttons, etc. with water. The slots located on the chassis at the rear of the machine can be cleaned with a dry brush or Hoover.



Pulire il condensatore 1 volta a settimana.
Nettoyer le condensateur 1 x par semaine.
Kondensor 1 x in der Woche reinigen.
Condensor 1 x per week schoonmaken.
Kondenzator oistit 1 x tyzdenne.
Clean condenser once a week.

TOTAL SANITIZATION OF THE APPLIANCE: It is good practice (essential in high-risk conditions) to sanitise the appliance completely every month at the latest in order to avoid possible bacterial contamination of the appliance. For this operation, we recommend that you ask for the intervention of qualified technical personnel equipped for this purpose, contacting your retailer or authorised service centre. If the device has not been used for a longer period of time (e.g. if it has been switched off for one or more weeks, e.g. during holidays), it is obligatory to carry out the periodic sanitisation following the procedures below:

- a) Dispense at least 10 litres of water by pressing the individual buttons of the dispenser (not included in the scope of delivery) alternately for a minimum of 20 seconds each; the dispenser can also be used for time of at least 20 seconds each;

10. MAINTENANCE

AQA Drink WD45 is a product specially designed for the disinfection and sanitation of water and systems. AQA Drink WD45 is extremely effective, does not give rise to by-products, does not leave any residual taste or odour on the water which is subsequently dispensed and as a final result enriches the water with oxygen, improving its quality and eliminating any microorganisms present. Chlorine-based products with distinctive odours and fragrances are not recommended for sanitising the appliance, as they make drinking water unpalatable and unpleasant and, if used at different concentrations, would cause the daily chlorine intake levels to be exceeded.

NOTE: Where there is a high risk of pollution, it is advisable to contact your dealer or authorised service centre.

11. PROBLEMS, CAUSES AND REMEDIES

PROBLEMS	CAUSES	REMEDIES
The dispenser does not dispense water	Main water tap closed	Open the shut-off valve
	Crushed or choked water supply connection pipe	Check the route of the drinking water supply pipe
	Frozen water in the coil	Contact the Technical Assistance Service
	Lack of power supply	Check that the plug is inserted correctly into the 230V socket or blown fuse
The dispenser dispenses little water	Clogged filter	Replace the filter
	Fully closed compensator	Adjusting the flow
	Low inlet water pressure	Contact the Technical Assistance Service
The nozzle cools little	Check the position of the thermostat	Lower the temperature by turning the thermostat knob
	The rear ventilation grille may be clogged with dust	Clean with a brush or blow with compressed air
	Perimeter and rear ventilation is insufficient	Move the dispenser away from the wall
	Refrigeration unit refrigerant discharge	Contact the Technical Assistance Service
The compressor never stops and freezes the water	Thermostat failure	Contact the Technical Assistance Service
The appliance is leaking water	Immediately close the main tap and disconnect the power supply plug	Contact the Technical Assistance Service
Pressing the carbonated water request button does not deliver the water	Lack of CO ₂	Replacing the cylinder
With a request for sparkling water only gas is supplied	Blocked pump	Switch off the power for 30 seconds by turning off the appliance using the ON/OFF switch and/or removing the plug from the 230V socket, using the appropriate button if present. If the problem persists, contact the Technical Assistance Service

12. DECOMMISSIONING AND SCRAPPING OF EQUIPMENT

TEMPORARY DECOMMISSIONING

The machine may remain unused or be switched off for a long period of time. In such cases, certain requirements must be observed when you wish to restart the machine:

- A) If the dispenser has not been switched off for more than 24 hours, dispense at least 5 litres of water (depending on need and water quality);
- B) If the dispenser has not been switched off for more than 24 hours, dispense at least 2 litres of water before consumption;
- C) Sanitise the dispenser as necessary;
- D) If the dispenser is equipped with filters or other water treatment systems, replace them according to the manufacturer's instructions;
- E) The dispenser must be operated in full compliance with hygiene regulations to ensure the quality of the dispensed product.

PERMANENT DECOMMISSIONING FOR SCRAPPING

When the appliance is put out of use, it must be rendered unusable by removing the plug from the socket and cutting the power plug from the cable. Disconnect the appliance from the water supply line.

The materials making up the appliance do not require any particular treatment other than being divided and grouped according to type (e.g. ferrous, plastic, rubber, etc.).

Follow the regulations in force in the municipality and/or country where the appliance will be scrapped. The waste must be disposed of in accordance with current national practice, possibly using a recognised and authorised company for this service, or using municipal waste collection centres.

13. WARRANTY

The statutory warranty terms apply to this equipment.

Exclusion of warranty claims

- 1) Non-observance of the installation requirements and the operator's duties will result in the exclusion of warranty claims.
- 2) Ecosoft company is not liable for faults in the device or inadequate performance caused by an incorrect combination of materials, the introduction of corrosive products or iron and manganese deposits, or for damage resulting from these reasons.
- 3) The manufacturer accepts no liability in the event of modifications and errors in the electrical and hydraulic connections, caused by non-compliance with the instructions in the installation manuals or use of the equipment in conditions other than those for which it was designed.
- 4) Failure to check and/or replace parts subject to wear will automatically invalidate the warranty

14. WARNINGS FOR DISPOSAL



At the end of their life cycle, the electrical and electronic components used in this equipment must not be disposed of with other waste, but must be collected.

Appropriate separate collection helps to avoid potential negative consequences for the environment and health, and promotes the reuse and recycling of the materials from which the equipment is made. The symbol shown on the product or on the packaging and in these instructions for use indicates that the electrical and electronic components used with this equipment must be subject to separate collection in accordance with Directive 2012/19/EU on waste electrical and electronic equipment (WEEE).

14. WARNINGS FOR DISPOSAL

The user is invited to separate the electrical and electronic components from other types of waste by delivering it to the appropriate authorised collection centres in accordance with local regulations or, if coming from a household, by handing it over to the distributor when purchasing a new appliance of an equivalent type. For the management of the recovery/disposal of its electrical and electronic equipment BWT adheres to a collective system in the form of a consortium according to articles 2602 et seq. of the civil code.

15. APPENDIX 1 INTERVENTION LOG

CUSTOMER:

APPLIANCES:

Date	Service Sheet	Type of intervention	Technical Assistance Centre Specialised
Intervention type: SU= start-up - MA= maintenance - WA= warranty - SB= subscription - RE= repair			

