CB ULTRA

Bottled Water Dispenser

User Manual

Rev. 02 – 04/2025

Warnings

Description of the user

Before using this machine, please read this manual. Please follow the instructions for proper operation and to prevent risk and damage. This manual is part of the product. It contains important information on safety as well as the installation, use and disposal of the product. Please familiarise yourself with all the included information before using the product. The product may only be used as described in this manual.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by the person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

Safety Warnings

This manual contains sections regarding safety conditions, preceded by specific words:

NOTE: *this word is used to indicate information deemed important regarding installation, operation and maintenance of the system.*

ATTENTION: *this word is used to indicate a hazard which, if ignored, could cause injury, or damage to the premises and people.*

Instructions to take into account

Read and understand this manual and its safety instructions before using this product. Failure to do so can result in serious injury or death.

Follow all the instructions. This will avoid fire, explosions, electric shocks or other hazards that may result in damage to property and/or severe or fatal injuries.

The product shall only be used by persons who have fully read and understand the contents of this user manual. Keep all safety information and instructions for future reference and pass them on to subsequent users of the product.

Obtaining Documentation and Information

The latest version of the User Manual and Technical Manual can be accessed and downloaded by scanning the QR code below, or visiting our support website: **technical.culligan.eu**

If you are reading product documentation on the internet, any comments can be sent to Culligan customer service. Contact details are available on the support website.

Contents

Introduction

Before installing the product

Congratulations for choosing a Culligan product. We have designed and manufactured this product with great care to ensure that it will dispense ambient, cold & sparkling or hot, cold & sparkling water of the highest quality. In order to get the most out of your water cooler, please read the instructions in this manual and retain the manual for future reference.

Intended Use and reasonably foreseeable misuse

The product shall only be used according to the instructions as described in this manual. All use other than described in this manual is seen as unintended use.
The product shall be used with original accessories and original components.
This dispenser is intended for water dispensing only. Do NOT use other liquids. Never use any liquid in the dispenser other than known and microbiologically safe bottled water.

The product can be installed in indoor use in domestic, commercial & industrial locations. such as:

- Kitchen areas, shops, offices and other work environments.
- Rural homes, hotels, motels and other residential buildings.
- B&Bs and guest houses.
- The appliance is not suitable for use in open places.

Description of Product

Cooling System

The BU1PVECHS Series coolers uses a Pressure Vessel Direct Chill (PVDC) cooling tank system. The cooling tank is manufactured from 304 Stainless Steel which is non-corrosive and inert.
The cold water temperature is preset at the factory at approximately 7°C (45°F) – the water temperature is controlled by a thermostat that is located on the back of the unit. Cold water temperatures may be adjusted via a slotted screw on the body of the control (can be accessed through wires on the condenser). Turning this screw in the clockwise direction will make the water colder (and vice versa).

Hot Water System

The hot water temperature is preset at the factory at approximately 86°C (187°F) – the water temperature is controlled by a thermostat that is located on the hot tank. Hot water temperatures may be adjusted depending on the hot tank model.

Carbonated Water Circuit

The carbonation level of the water is based on coldness of the water and pressure of the CO_2 bottle. The carbonation level in the water can be increased by either raising the CO_2 pressure (max 60psi/15 l per min) or reducing the temperature of the cold water used for carbonation.
The pre carbonated cooled water is taken from the cold tank, pressurised through a pump and mixed with CO_2 gas within a carbonator tank inside the Pressure Vessel Direct Chill (PVDC) cooling tank system. The tank is made from food grade plastics and 304 Stainless Steel
Carbonated water temperatures are controlled by the temperature of the cold water inside the Pressure Vessel Direct Chill (PVDC) cooling tank system. Adjusting the cold water temperature also adjusts the carbonated water temperatures.
The carbonator tank is a pressurised system and protected with expansion tank.
Purging of the CO_2 circuit is necessary at initial start-up, after sanitization and after the water is completely drained in the reservoir.

Water Pipe and Fittings

The entire internal water circuit and all the components which come in contact with water are made from food grade approved material.

Mounting Feet

The unit is supplied with 4 mounting feet which can be used to level the cooler on uneven surfaces.

Water Valves

Control of water dispensing is achieved by means of electrical solenoid valves (3x 24V).

Panels

All external moulded panels are made from ABS plastic. The material used is UV resistant and meets all CE and UL requirements for fire safety. All metal panels are made from galvanized steel which is then painted. The galvanized coating provides increased resistance to rust and corrosion.

Compressor

Only for R600a refrigerant

WARNING: flammable material

This appliance contains the flammable refrigerant R600a. This hydrocarbon refrigerant has a global warming potential of 4. This refrigerant is flammable – please follow these precautions to ensure safe operation of the appliance:

WARNING: keep ventilation openings in the appliance clear of obstructions

WARNING: do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacture.

WARNING: do not damage the refrigerating circuit.

During transportation and installation, care should be taken to avoid damage to the refrigeration circuit. If refrigerant damage occurs, then avoid any open flames or potential sources of ignition and ventilate the room where the appliance is located for thirty minutes.

CO_2 bottle location

CO_2 bottle can be located in the filter compartment. To gain access to filter compartment see relevant section in this manual. A base and reusable cable tie or Velcro strap (depends on model) are supplied to secure the bottle at the installation site. Do not transport cooler with the CO_2 bottle inside the filter compartment as this could damage the cooler. The total max height of CO_2 bottle that can be fitted inside the compartment is 420mm The max diameter of the CO_2 bottle is 160mm.

Larger CO_2 bottles must be installed away from the cooler.

CO_2 bottle regulator

A CO_2 regulator may be supplied with the cooler depending on model. This is located inside the filter compartment.

CO_2 regulators may be adjustable depending on model.

CO_2 regulators may differ depending on region.

It is available in the following versions:

- Ambient/Cold/Sparkling
- Hot/Cold./Sparkling

Technical characteristics

(dispenser without bottle)

Total height	1130 mm
Width	325 mm
Depth	425 mm
Dispensing point height	740 mm
Dispenser weight	29 kg (ambient/cold/sparkling) 29.6 kg (hot/cold/sparkling)
Power supply	220-240V 50-60Hz
Refrigerant gas	R600a/23g

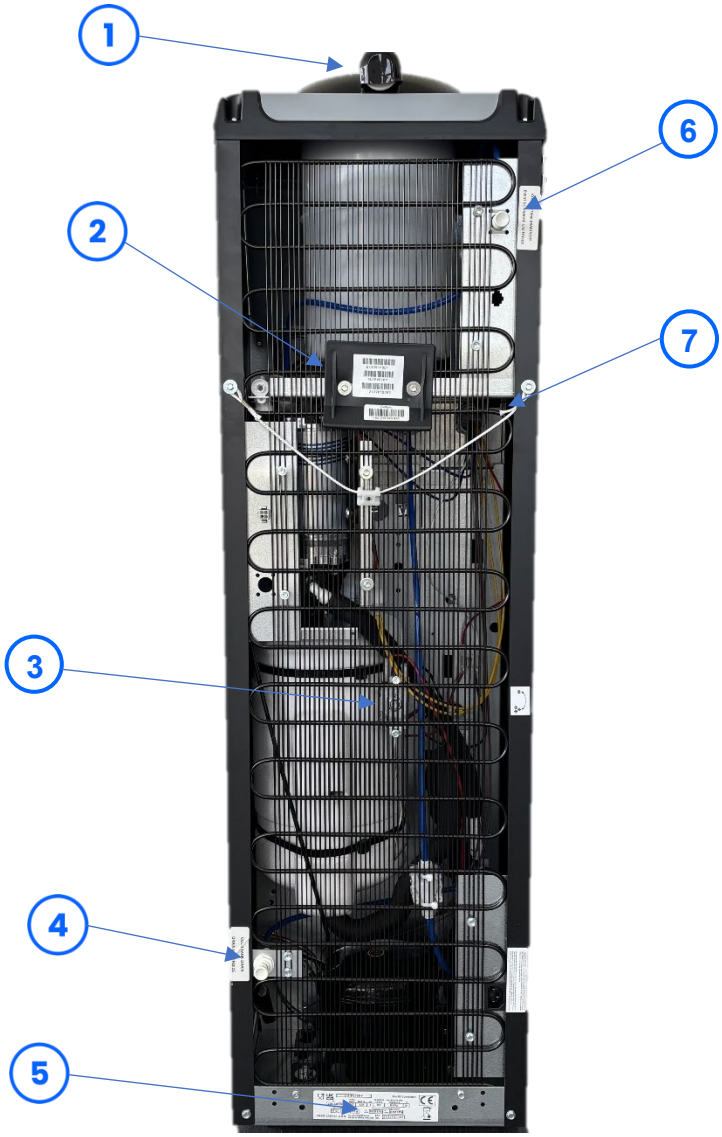
CB Ultra

Front view

1	Water bottle
2	Dispensing buttons
3	Removable drip tray, with grid
4	Cup holder (Optional)
5	Individual Dispensing spout
6	CO_2 cylinder
7	CO_2 Pressure Regulator
8	CO_2 Cylinder bracket
9	CO_2 Pressure Regulator box
10	PRV valve with ring pull

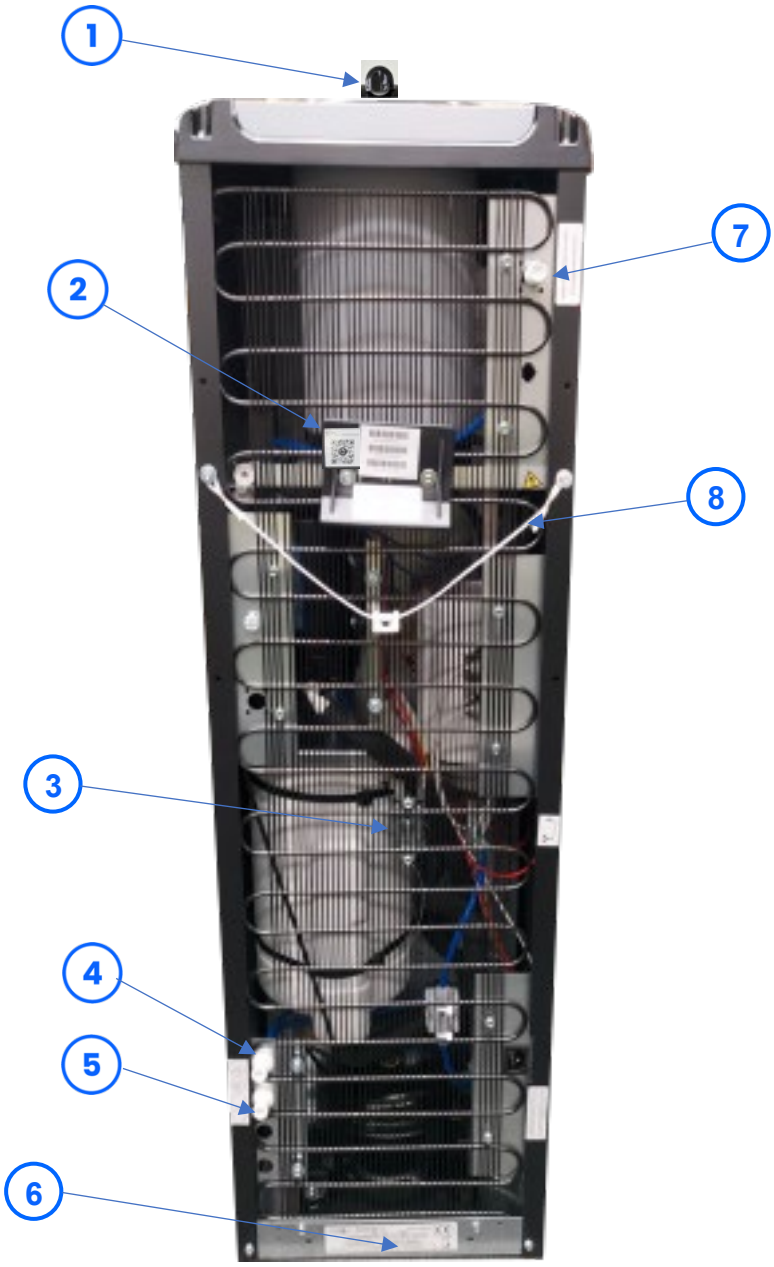
Back view Ambient & Cold

1	Air filter
2	End User Manual QR Code
3	Cold control
4	Cold water drain
5	Rear plate
6	Cold tank drain vent
7	Stability cord



Back view Hot & Cold

1	Air filter
2	End User Manual QR Code
3	Cold control
4	Cold water drain
5	Hot water drain
6	Rear plate
7	Cold tank drain vent
8	Stability cord



Safety Instructions

Never leave the product unattended when children and/or animals are around. The product may be put out of balance and may fall, hurt or in worst case even cause fatal injuries. Mount the product on a floor stand that meets the minimum requirements for stability. Use grounded power socket with correct voltage.

ON MODELS WITH HOT TANKS, FAILURE TO FILL THE HOT TANK WITH WATER BEFORE TURNING ON THE HOT TANK HEATER SWITCH CAN CAUSE PHYSICAL DAMAGE TO THE UNIT - (Refer to the Technical manual for the location of the hot tank switch).

ATTENTION: *the end user is prohibited from accessing the internal service areas of the machine. This operation is reserved for technical personnel only.*

Information on the natural, eco-friendly refrigerant gas used in this dispenser. This product contains no CFCs or HFCs, which contribute to global warming. The refrigerating system is filled with HC R600a – Isobutane: a natural gas that does not contribute to global warming and that, thanks to its specific characteristics, allows for substantial energy savings to be made.

ATTENTION: *R600a is flammable gas, do not damage the refrigeration circuit. If damage occurs, keep away from sources of ignition, ventilate area and call service provider.*

Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.
WARNING: keep ventilations openings, in the appliance enclosure or in the built-in structure, clear of obstruction.
WARNING: do not use mechanical devices or the other means to accelerate the defrosting process, other than those recommended by the manufacturer.
WARNING: do not damage the refrigerant circuit.
A-weighted emission sound pressure level is below 70dB(A).
Do not use if plug or cable are damaged.
The dispenser complies with the safety regulations in force in the European Union and therefore bears the CE marking.
Never unplug by pulling power cable, always hold the plug.
To protect against electric shock, do not immerse plug or cable in water or any other liquid.
Do not operate with wet hands.

The unit should be operated with the stability cord at the rear of the unit fixed to the wall at all times. The stability cord wall fixing should be mounted securely to the wall at a height of 660 mm from the floor. The unit should be located approximately 140 mm from the wall. Ensure that the cord is taut.

Installation

How to install the product

Make sure that installation and electrical connection are carried out by a qualified technician according to the manufacturer's instructions and in compliance with local safety regulations.

Recommended ambient temperatures for correct operation of the unit are between 10ºC and 32ºC.

Operation and use

How to use the product

Do not place objects on the water dispenser.

ATTENTION: *hot water reaches high temperatures. Keep out of reach of children. Boiling hot water and steam may scald if spilled on skin. Do not touch the dispensing taps to avoid burns.*

Dispensing Water

Depending on the model of cooler, it will have one, two or three buttons located on the front panel Cook/ Hot button, Sparkling button, Cold button

- Water will continue to be dispensed while you keep the relevant button depressed.
- Water is dispensed as follows:
  - White button: ambient water
  - Blue button: cold water
  - Red button: hot water
  - Green button: sparkling water

NOTE*: as a safety feature, you must press the red button for 3 seconds until light begins to flash. Release the button to unlock & then press the button again within 5 second to dispense hot water.*

Temporary shutdown

The machine can remain unused or turned off for an extended period. In such cases, when intending to use it again, proceed as follows:

- If the dispenser has remained off for more than 24 hours, dispense at least 5 liters of water (according to needs and the water quality);
- If water has not been dispensed for more than 24 hours, dispense at least 2 liters of water before consuming water;
- Sanitize the dispenser as required;
- The dispenser must be managed in full compliance with the hygiene regulations, to ensure the quality of the dispensed product.

Maintenance

How to clean the product

Before cleaning the cooler, you should ensure that the unit is unplugged from the power supply.

Cleaning the cooler:

- Before cleaning the cooler you should ensure that the unit is unplugged from the power supply
- Under no circumstances use abrasive cleaning products or chlorine based cleaners – they will damage the finish surface of the cooler
- Use mild soap to clean the panels
- It is recommended that you use an anti-bacterial wipes to clean the water outlet on a weekly basis

Emptying the Drip Tray:

- The drip tray comes with an optional self-drain facility. Check with your service provider if this option has been installed – if you have a self-drain drip tray then you do not need to remove it for emptying.
- To remove the drip tray, you need to lift it up by about 30mm before you pull it forward.
- The easiest way to lift up the drip tray is to place your thumb on the front face of the drip tray, and then hook your forefinger through the hole in the centre of the grille.

Preventative maintenance operations/actions

In case of malfunction, do not manipulate or tamper with the internal parts of the distributor. Contact the Culligan Service Centre. In case of a fault, disconnect the power and contact the Culligan Service Centre. Interventions not specified in this manual must only be carried out by specialized personnel or Culligan Service Centres. Lack of maintenance can result in breakage or deterioration of the pipes, even causing bacterial growth.

How to replace consumables

Changing the Water Bottle

Ensure that when bottle is empty, replace immediately to prevent potential damage to water systems when the units is powered on. On models with Hot Tanks, turn off the hot tank switch. Take a bottle, remove sticker from cap, carefully lift the bottle and place the water bottle on top of the water dispenser, applying slight pressure if required. Air bubbles will rise in the bottle as the reservoirs are filled with water. Refer to the section "Dispensing Water", and dispense water from all water types until water flows freely. If there is a problem with sparkling water dispensing after the water bottle has been replaced, ensure the CO_2 regulator is switched off, purge air from the carbonator by pulling the ring on the safety valve together with CO_2 water button until the water comes out of the valve. Turn on the CO_2 regulator. On models with Hot Tanks, turn back on the hot tank switch.

Precautions Before Installation of CO_2 gas Bottle

WARNING: *only competently trained people who fully understand the safety precautions associated with handling gas bottles should attempt to handle, connect or replace CO_2 gas bottles. Always ensure the CO_2 gas bottle is 'Food Grade'.*

WARNING: *the CO_2 gas bottle must have a strap or chain to secure the CO_2 gas bottle in position and fitted on a flat surface.*

WARNING: *due to calibration reasons, it is advised that the CO_2 regulator is changed every 5 years. The storage facilities must be dry, cool and well-ventilated, and must not contain any sources of heat such as steam pipes, radiators, etc. Make sure that the correct size of cylinder is installed for the room size.*

WARNING: *if the room where you install the CO_2 cylinder is smaller than the specified volume below, or you do not have available smaller CO_2 cylinder you must not install it till you have the correct size.*

- The cylinders must not be placed in direct sunlight, or kept close to sources of heat or in any case in environments where the temperature may reach or exceed 50°C.
- Do not put or leave cylinders near service elevators, under walkways or in places where heavy objects subject to handling may collide with them and cause them to fall.
- When handling large cylinders (> 4kg) indoors, use suitable carts fitted with safety chains to reduce the risk of accidents resulting from muscular injuries. Always ensure that the safety cap is fitted and securely in place.
- Store full cylinders in different areas from empty cylinders.
- Do not pour the contents into other recipients.
- Do not cancel any markings or render them illegible; do not remove labels or tags applied by suppliers.
- Do not carry out repairs on the containers or tamper with them in any way.
- Since the specific weight of carbon dioxide is higher than that of air, the concentration of carbon dioxide is higher at the lowest levels of rooms that do not have sufficient air flow (especially in trenches, tunnels, etc.).

WARNING: *in storage facilities, the cylinders must be stored vertically and attached to the walls using chains or other appropriate harnesses, to prevent them from overturning. The CO_2 cylinders must be protected against heat, since the pressure level increases very rapidly when the temperature rises.*

Replacing CO_2 Bottle

NOTE: *before starting the installation of the CO_2 gas bottle make sure you have read and follow the instructions defined on the Precautions before installation of CO_2 gas bottle.*

The unit is equipped with a Tie cable or Velcro strap for the safety fixing of the CO_2 gas bottle.
1) Lift out and remove the drip tray.
2) Depress the clip visible through the slot in the alcove and lean the top of the door forward
3) Remove the door from the cooler.
4) Close the tap on the CO_2 gas bottle currently fitted.
5) Release any pressure in pipework by either dispensing or pulling the pressure relief valve in the compartment.
6) Disconnect the CO_2 pipework from the cooler.
7) Remove CO_2 gas bottle from strap or Tie Cable.
8) Remove the regulator using a spanner.
9) Give the customer their empty gas bottle to store in a safe location.
10) Check the new gas bottle is 'food grade' CO_2.
11) Remove the dust cap (where fitted) from the CO_2 outlet on the bottle.
12) Direct the outlet into a safe location, open the tap on the gas bottle for a second and close again, this will purge the gas which will clear any dust from the outlet.
13) Connect the supplied CO_2 regulator to the CO_2 cylinder and then tighten it with the correct spanner.
14) Connect CO_2 blue tube to the quick-fit connector on the CO_2 pressure regulator.
15) Place the cylinder in the compartment and secure it with the Tie Cable.
16) Open the tap on the gas bottle and set the pressure as required for that model.
17) Check for leaks using Leak Detection Fluid (LDF).

NOTE: *In the case of leakage, close the valve on the CO_2 gas bottle and vent the residual pressure in the line by pulling the pressure relief valve. Repair the leak, then reapply pressure.*

18) Replace the door and drip tray.

Adjusting the carbonation

Refer to the manufacturer's instructions for the adjustment of the specific regulator.

Troubleshooting and Repairs

How to identify and solve problems

Issue	Possible Cause	Solution
1 - The cooler does not dispense water.	A – Water bottle is empty	Replace bottle with fresh bottle
	B – Valves not opening	Contact the technical assistance service
	C – Frozen cold tank	Turn the unit off to defrost and contact the technical assistance service
	D - Pump is not running	Contact the technical assistance service
2 - The cooler is supplying too little water.	A – Water bottle is empty	Replace bottle with fresh bottle
	B – Blockage/Restriction	Contact the technical assistance service
3 - The water is not cold enough .	A - Check the temperature set on the thermostat	Lower the temperature by turning the lever on the thermostat
	B - The ventilation grill could be blocked by dust	Clean the grill with a brush or compressed air
	C - Lack of space for correct ventilation around the back of the unit	Make sure that the unit is not resting against the wall but that there is sufficient space for ventilation
4 - The water is not hot enough.	A – Scale in the hot tank	Contact the technical assistance service
5 - The water is not sparkling.	A – Co2 Gas bottle is empty	Replace with a full bottle
	A – Co2 Gas bottle valve is closed	Check that the Valve is open

How to repair the product

For reasons of safety and compliance with the regulations, repairs and maintenance must only be carried out by a qualified technician or at a Culligan Service Centre.
Don't repair the product by yourself.

No responsibility is assumed for interventions not covered by this manual. In case of such interventions, the warranty may be revoked. Interventions that may be necessary and not specifically indicated in the manual can only be carried out by the Culligan Service Centre.

WARNING: *the warranty and CE certification for this machine are automatically void if any alteration, modification, or combination with any other machine or device is deemed to be the source of any claim. The CE certification may be void as the result of any alteration or modification. The manufacturer accepts no liability resulting from any alteration, modification, or combination with any other machine or device.*

Disposal, Waste and Recyclability

Information to manage electric and electronic equipment waste.

Crossed out wheelie bin denotes that waste electrical and electronic equipment and batteries must not be disposed of as unsorted municipal waste but collected separately. This symbol appearing on the product, batteries, accumulators or package or documentation indicates that the product and batteries or accumulators must not be collected, recovered or disposed of together with household waste at the end of its life cycle.

This unit is marked in compliance with European Directive 2012/19/UE on Waste Electrical and Electronic Equipment (WEEE). By ensuring that the product is scrapped correctly, you are helping to prevent potential negative consequences for the environment and for health. The symbol on the unit indicates that the product should not be treated as domestic waste but should be taken to a dedicated recycling centre for electrical and electronic equipment.

For more information on the treatment, recovery and recycling of this product, please contact the appropriate local office, the waste disposal service or the reseller from which the product was purchased.

Packaging materials

The packaging materials are 100% recyclable. Please recycle each material at the proper bin. Please follow the local guidelines on waste disposal. For safety reasons keep the packaging material out of the reach and sight of children.

Packaging is made of environmentally friendly materials, which may be disposed of through your local recycling facilities. By disposing of the packaging and packaging waste in the proper manner, you help to avoid possible hazards for the environment and public health.

Maintenance Table

Date	Intervention	Signature

NOTE: *to keep your water dispenser in good operating condition it is necessary to periodically check the system.*