



EAU VATION[®]

Service Instructions

Acqua 80 Water Dispenser



Service Instructions

Acqua 80 Water Dispenser

Contents

1	About this manual	2
2	Safety notes	2
2.1	General safety notes	2
2.2	Carbonic acid bottle	2
2.3	Maintenance and repair work	3
3	Device overview / main components	3
4	Setup and connection	5
4.1	Requirements	5
4.2	Water connection	5
4.3	Waste water	6
4.4	Gas connection	7
4.5	Electrical connection	8
5	Commissioning	9
5.1	Prerequisites	9
5.2	Fill the ice-bank water bath	9
5.3	Installing the dummy plug	9
5.4	Adding tablets to prevent the formation of algae into the ice-bank water bath	10
5.5	Setting the water pressure	10
5.6	Setting the gas pressure reducer	10
5.7	Venting the carbonator tank	10
5.8	Removing the pressure gauge	10
5.9	Perform hygiene maintenance	11
6	Hygiene maintenance	11
7	Setting the water dispenser	15
7.1	Setting the flow regulator for carbonated water	15
7.2	Setting the portion sizes	16
7.3	Setting the refrigeration	17
8	Maintenance work	17
9	Descaling the water outlet pipe	18
9.1	Removing the water outlet pipe	18
9.2	Descaling the water outlet pipe	18
9.3	Installing the water outlet pipe	18
10	Replacing the water outlet pipe with UVC lamp	19
11	Renew water bath	19
12	Water clock	20
12.1	Inserting the batteries	20
12.2	Setting the capacity	20
12.3	Displaying the remaining capacity	20
12.4	Reset	20
12.5	Changing the batteries	20
13	Decommissioning the water dispenser	21
14	Malfunctions	22
15	Safety inspection	23
15.1	Check relief valve	23
15.2	Check for leaks	23
16	Technical data	24
17	Circuit diagram	25
18	Flow schema	26

1 About this manual

This manual is intended exclusively for the use by service technicians authorised by EauVation.

The following symbols are used in these instructions:

Symbol	Meaning
 Danger	Warning of potentially serious or fatal injuries to persons if the described precautionary measures are not taken.
 Warning	Warning of potentially minor injuries to persons or potential material damage if the described precautionary measures are not taken.
 Caution	Warnings of possible defects or damage to the product if the described precautionary measures are not followed.
IMPORTANT	Important information is provided here.
INFO	Useful information is given here.
➤	This symbol indicates instructions.
⇒	This symbol indicates results of actions.
–	This symbol indicates itemisations.
▶	This symbol refers to a chapter with more detailed information.

2 Safety notes

2.1 General safety notes



Warning

Risk of injury from sharp-edged plates and chemicals

- Wear protective gloves for all maintenance and repair work.
- Wear protective clothing, protective gloves and protective goggles when dealing with chemicals.

- Never insert or pull out the plug with wet hands.
- Never remove the plug from the socket using the cord.
- Do not look directly into the water outlet and the UVC lamp behind it.

2.2 Carbonic acid bottle



Danger

Danger of suffocation by carbon dioxide

Carbon dioxide (CO₂) is a colourless and odourless gas and, at high concentrations in the air, leads to suffocation.

Outflowing carbon dioxide is heavier than air. A risk of suffocation occurs in the case of a high accumulation in closed rooms.

- Only use the supplied gas hose for the gas connection. For other hoses with the same outside diameter, the wall thickness may be too low.
- The carbonic acid bottles may only be used in combination with a suitable gas pressure reducer (max. 5 bar operating pressure).
- Please follow all the instructions in the water dispenser operating instructions for the operation and storage of the carbonic acid bottle.

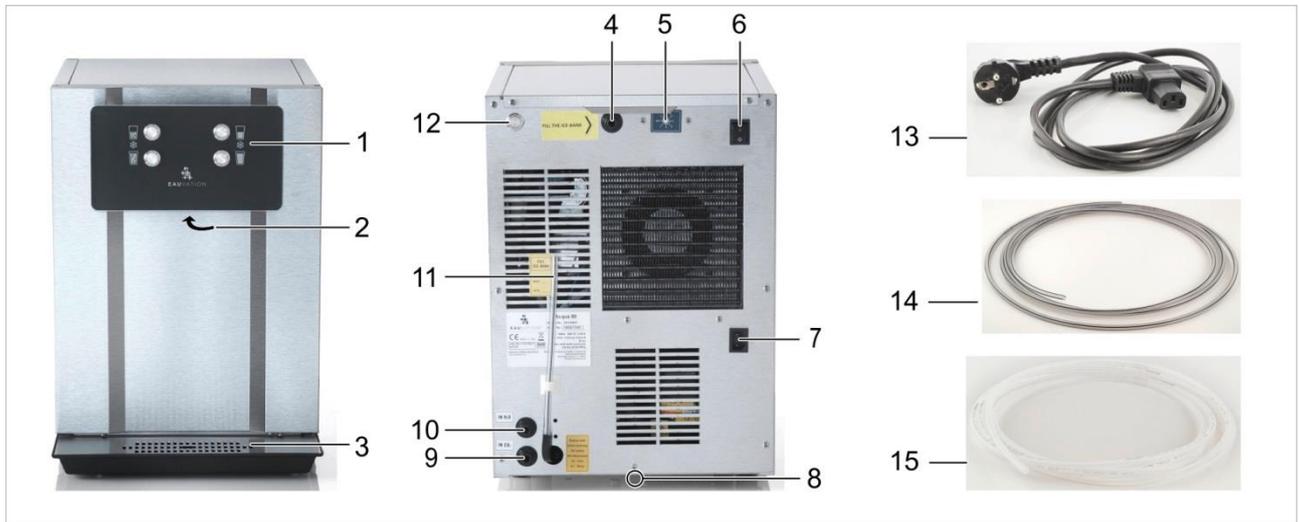
2.3 Maintenance and repair work

- The plug must be pulled from the power supply for all installation and maintenance work.
- Maintenance and repair work may only be performed by service technicians authorised by EauVation. Inappropriate maintenance or repair work can result in serious risks for the user, for which EauVation shall not accept liability.
- Original spare parts must be used for repairs or to replace consumable parts. If original spare parts are not used, the warranty is invalidated.

 **Possible leakage from improperly cut hoses**
Use the hose cutter to ensure the hose cross section remains round and that the hose is cut straight.

 **Possible leakage from damaged hoses**
Check the hose. If there are any scores on the hose, shorten the hose or replace it to ensure a tight plug connection.

3 Device overview / main components

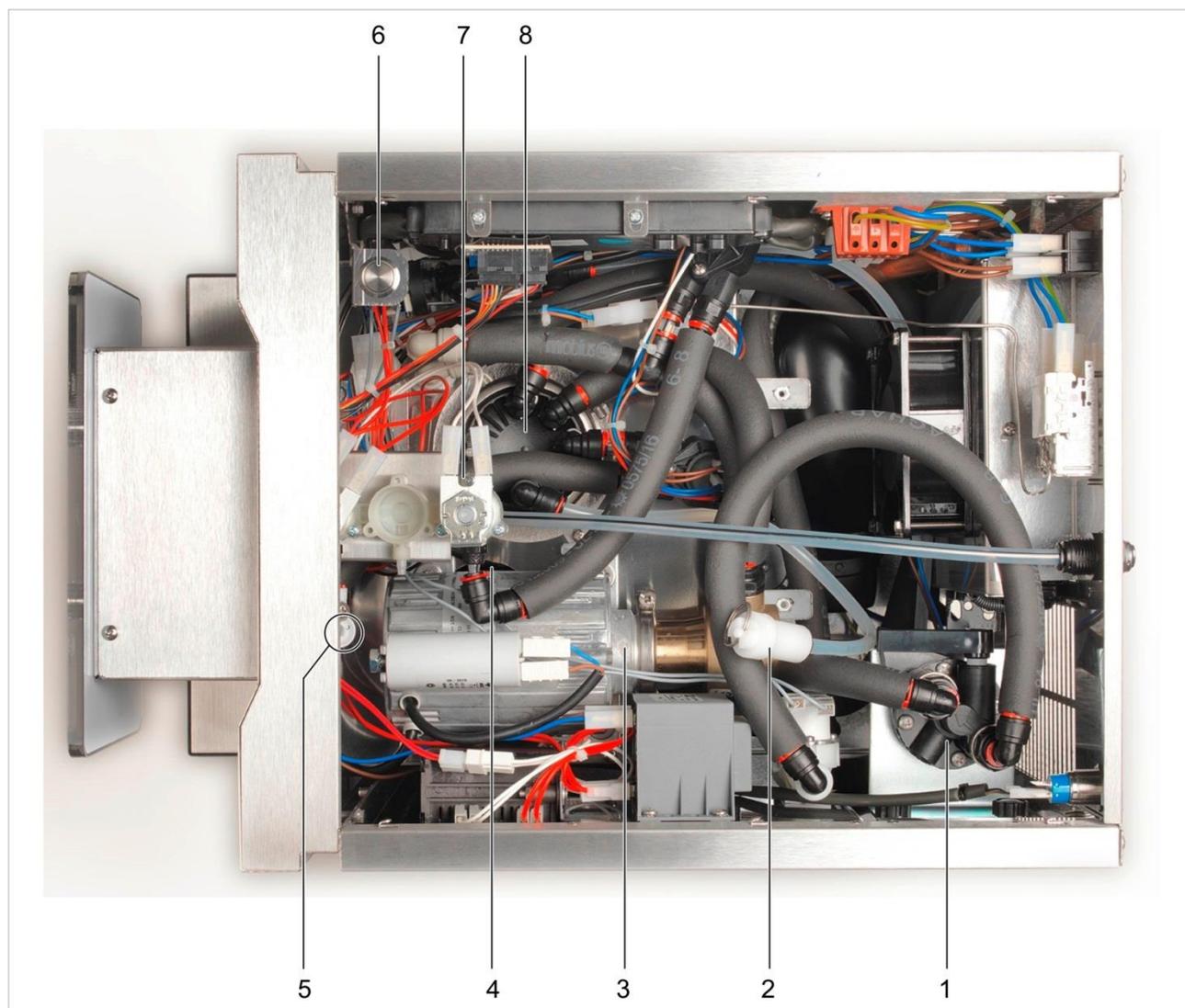


Front view

Rear view

Item	Description
1	Operating panel
2	Water outlet
3	Drip tray with mesh

Item	Description
4	Ice-bank water supply
5	Thermostat (adjustable)
6	Main switch
7	Electrical supply
8	Hose connection for the drip tray
9	Connection for carbonic acid
10	Water connection
11	Ice-bank level indicator
12	Programming button (setting the portioning)
13	Mains cable with plug
14	Water hose / Waste water hose for drip tray
15	Carbonic acid hose



View from the top

Item	Description
1	Filter head for hygiene filter
2	Vent valve
3	Pump
4	Water bath (under the pump)
5	Flow regulator
6	Button for advanced hygiene maintenance (not implemented yet)
7	Solenoid valve for still and carbonated water
8	Carbonator tank



Hygiene maintenance cleaner
EAUUVATION N° 1



Hygiene spray
EAUUVATION N° 2



Acid spray cleaner
EAUUVATION N° 3



Cleaning tablets for water
bottles and carafes
EAUUVATION N° 4

4 Setup and connection

4.1 Requirements

Raw water requirements

The quality of the water at the inlet must fulfil the valid drinking water regulations applicable to the specific country. In addition, the following threshold limits must be adhered to (► 16).

Installation site requirements

- Frost free
- Well ventilated, clean, dry
- Firm, level surface for the water dispenser
- No sources of heat next to the water dispenser
- See Chapter ► 16 for space requirements and minimum clearance from the wall.
- The water shut-off valve and the water dispenser must not be more than 3 m distance from one another. Stagnant water in long hoses can lead to contamination.
- Minimum room size to prevent a hazardous concentration of carbon dioxide (please see table).

Carbonic acid bottle	Minimum room size (with approx. 10 % furniture) Room height: min. 2.5 m
2 kg	15 m ²
3 kg	22.5 m ²
5 kg	37.5 m ²
6 kg	45 m ²
10 kg	75 m ²

IMPORTANT A gas alarm device must be installed if the room is less than the minimum room size. Alternative: 2-fold air exchange within 24 hours (continuous exchange of air). If the water dispenser and the carbonic acid bottle are located in different rooms, the minimum room size shall apply to both rooms.

4.2 Water connection



Warning

Possible contamination

- The water stop cock and the water dispenser must not be more than 3 m distance from one another. Stagnant water in long hoses can lead to contamination.
- Only use the supplied water hose for the water connection.



Caution

Possible leakage from improperly cut hoses

Use the hose cutter to ensure the hose cross section remains round and that the hose is cut straight.

Required materials



Reduction 3/4" or 3/8"



Pressure reducer



Water clock



Water hose



Pressure gauge



Dummy plug



Locking clip



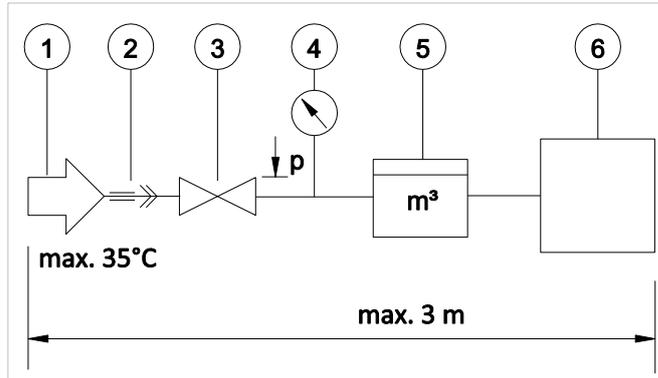
Hygiene spray
EAUVAATION N° 2



Hose cutter

Installation diagram

- Install the pressure reducer (3) and water clock (5) easily accessible to a wall or in kitchen cabinet. Do not yet plug in any hoses between the components.



Item	Description
1	Water supply (max. 35 °C)
2	Reduction 3/4" or 3/8"
3	Pressure reducer
4	Pressure gauge with T-piece (installed temporarily)
5	Water clock
6	Acqua 80 IMPORTANT: Do not insert the hygiene filter yet.

- Wash hands, put on protective gloves and spray with EAUUVATION N° 2.
- Connect hoses to all the components. Before inserting the hoses, spray the end of the hoses with EAUUVATION N° 2. Do the same for the hose connections of the components. The pressure gauge is removed again later. Therefore, the hose between the pressure gauge and the water clock must be sufficiently long.



- Insert the water connection hose into the "FILL THE ICE-BANK" connection.

- All connectors must be secured with locking clips.

Setting the water clock

- Set 8000 l water volume (▶12).

4.3 Waste water

The drip tray can be connected to the waste water.

Waste water connection requirements:

- Trap
- Level lower than the drip tray
- Hose to the waste water connection has a steady gradient to ensure no backlog of water

4.4 Gas connection



Caution

Possible discharge of carbonic acid

- The gas connection must always be performed by an instructed service technician. National guidelines must be observed.
- Secure the carbonic acid bottles to prevent them from falling over by using the supplied securing strap.
- Only use the supplied gas hose for the gas connection. For other hoses with the same outside diameter, the wall thickness may be too low.



Caution

Possible leakage from improperly cut hoses

Use the hose cutter to ensure the hose cross section remains round and that the hose is cut straight.

Required materials



Strap for carbonic acid bottle



Gas pressure reducer with safety valve and pressure gauges



Shut-off valve



Gas hose



Locking clip

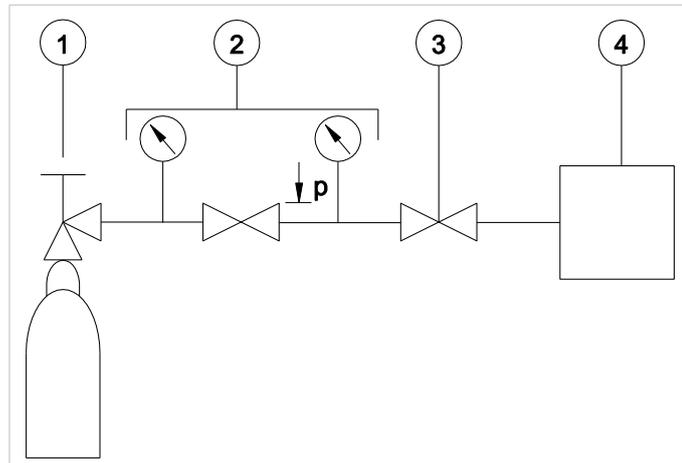


Hose cutter

Before installation

- Check whether the following conditions are met:
 - Carbonic acid bottle available and sealed tightly.
 - Carbonic acid is of food quality grade (E290 marking).
 - Size of the room matches the size of the carbonic acid bottle (► 4.1).
 - Gas pressure reducer is approved up to 5 bar: see red marking on the operating pressure gauge.
 - Seal is present and undamaged in the union nut of the gas pressure reducer.

Installation diagram



Item	Description
1	Carbonic acid bottle
2	Gas pressure reducer
3	Shut-off valve
4	Acqua 80

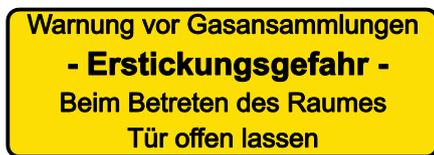
- Place the carbonic acid bottles in an upright position.
- Secure the carbonic acid bottles to prevent them from falling over by using the supplied securing strap.

Setup and connection

- Open the valve of the carbonic acid bottle and check whether carbonic acid leaks as gas (not in liquid form).
 - Close the valve of the carbonic acid bottle.
 - Screw the gas pressure reducer tightly to the valve of the carbonic acid bottle using a suitable open-end spanner.
 - Connect a shut-off valve to the gas pressure reducer with a short hose (approx. 100 mm).
 - Close the shut-off valve.
 - Connect the water dispenser and the water shut-off valve with a hose.
 - All connectors must be secured with locking clips.
 - Do not yet open the valve of the carbonic acid bottle.
- Point out to the operator that he/she is responsible for the following:
- The room in which the water dispenser and the carbonic acid bottle are placed must be sufficiently large (► 4.1). If the room is too small: ensure adequate ventilation or have a gas detector installed.
 - Access to this room must be marked with the warning signs W18 with additional text and W029.
 - Create a safety risk assessment.
 - Place a sign where the carbonic acid bottle is placed about the maximum size of the bottle.
 - Keep a logbook.



W18



Additional text



W029

4.5 Electrical connection



Danger

Connection only to alternating current via correctly installed earthed socket.
Maximum fuse protection: 16 A
Installation must be in accordance with the rating plate.
Install a residual current circuit breaker with a release current of 30 mA in the electrical feeder.



Caution

The device must remain switched on permanently.

- Plug the mains cable into the device and the on-site socket.

5 Commissioning

IMPORTANT The hygiene filter may be installed only after the hygiene maintenance (► 6) to avoid destroying it.



Caution

Damage as the result of leaking water

Adhere to the following sequential order during commissioning:

- Fill the water bath of the ice-bank (► 5.2)
- Install the dummy plug (► 5.3)

5.1 Prerequisites

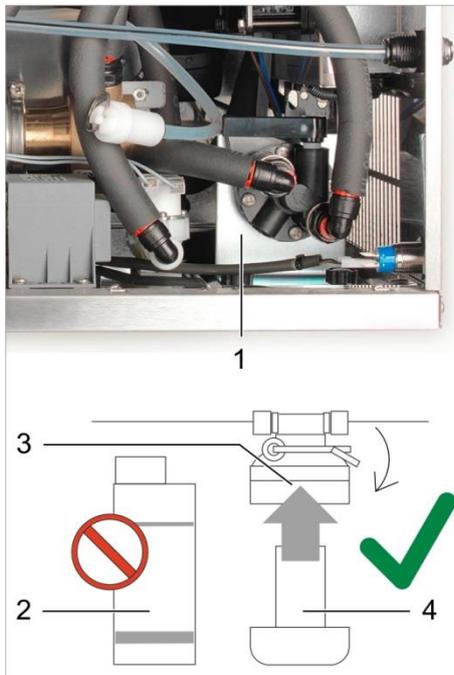
- Gas and water connection in accordance with chapter 4.
- Electrical connection in accordance with chapter 4.
- The water stop cock is closed.
- The valve on the carbonic acid bottle is closed.
- The shut-off valve after the gas pressure reducer is closed.
- The water dispenser is switched off.

5.2 Fill the ice-bank water bath



- Open the water stop cock.
- Fill the water bath to a level between MIN and MAX.
- Use a cable tie to fix the level indicator hose in place.
- Close the water stop cock.
- Insert the water connection hose into the "IN H₂O" connection. Before inserting the hose, spray the end of the hose with EAUUVATION N° 2.

5.3 Installing the dummy plug



- Pull out the mains plug.
- Unscrew the upper cover plate and remove it.
- Remove the bracket (1).
- Spray the inside of the filter head (3) with EAUUVATION N° 2.
- Spray the dummy plug (4) with EAUUVATION N° 2 and screw into the filter head (3).
- Close the lever at the filter head (turn to the right).
- Install the bracket (1).

5.4 Adding tablets to prevent the formation of algae into the ice-bank water bath

- Using curved needle-nose pliers, add one tablet to prevent the formation of algae to the water bath.
- Screw the upper panel tight.
- Plug in the mains plug.

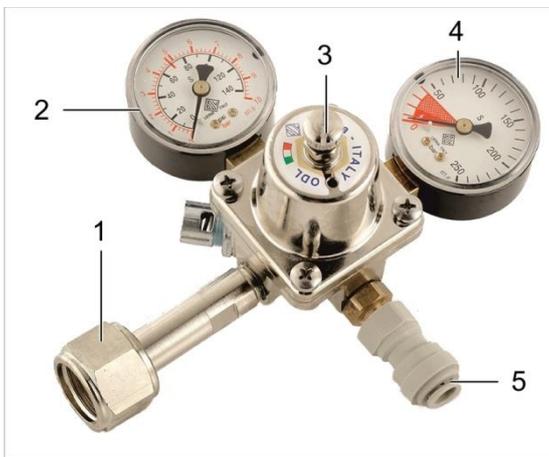
5.5 Setting the water pressure

- Open the water stop cock.
- Set the static pressure to maximum 3 bar at the pressure regulator.

Consequences of too high water pressure

- Overfilling of the carbonator tank.
- Water supply valve will not open, the pump runs dry and stops after 4 minutes.
Restarting the pump: Pull the plug and plug back in after 3 seconds.

5.6 Setting the gas pressure reducer



Item	Description
1	High pressure side (carbonic acid bottle)
2	Manometer (operating pressure = pressure after the pressure reducer)
3	Adjusting screw Clockwise rotation increases the pressure
4	Manometer (pressure in the carbonic acid bottle)
5	Low-pressure side (connection for the carbon dioxide hose)

Gas pressure reducer

- Close the shut-off valve after the gas pressure reducer.
- Open the set screw (3) by turning it anti-clockwise.
 - ⇒ The spring inside will release.
- Slowly open the valve on the carbonic acid bottle.
 - ⇒ The pressure gauge (2) shows 0 bar.
- Turn the set screw (3) in clockwise direction until the pressure gauge (2) indicates 3.5 - 3.8 bar. The pressure must be at least 0.5 bar higher than the static water pressure.

5.7 Venting the carbonator tank

- Fully open the valve on the carbonic acid bottle.
- Pull the mains plug.
- Unscrew the upper cover plate and remove it.
- Hold the vent valve out of the water dispenser.
- Slowly open the shut-off valve on the gas pressure reducer.
- Pull 3-4 times on the vent valve to let the air escape from the carbonator tank.
- Place the valve vent back into the water dispenser.
Note: The hose and the vent valve may not touch the ventilator.
- Screw the upper cover tight.

5.8 Removing the pressure gauge

- Plug in the mains plug. Turn on the water dispenser.
- Draw approx. 1000 ml of still water and dispose of it.
- Read the pressure gauge: the flow pressure should be at least 1.5 bar.
- Remove the pressure gauge.
- Before plugging in, spray the hose end with EAUATION N° 2.

5.9 Perform hygiene maintenance

(▶ 6)

6 Hygiene maintenance



Warning

Danger of chemical burn

Cleaning agents can cause severe chemical burns.

Wear protective clothing, protective gloves and protective goggles.

- Set up a warning sign during hygiene maintenance, warning of the water release.
- Do not use drinking glasses / cups for the hygiene maintenance.
- Dispose of drawn water when it is no longer required for the measurement.

Observe the following during hygiene maintenance:

- Clean working clothes
- Wash your hands
- Keep spraying hands / protective gloves with EAUATION N° 2

Required materials

Protective gloves
Protective goggles
EAUATION N° 1
EAUATION N° 2
EAUATION N° 3
EAUATION N° 4
Sterile hygiene filter
Maintenance cartridge
Dummy plug
Chlorine test strip
Hose cutter
Water hose (approx. 300 mm long)
Flat-blade screwdriver
Phillips head screwdriver
0.2 l and 1.0 l measuring cup
Bucket (10 l)

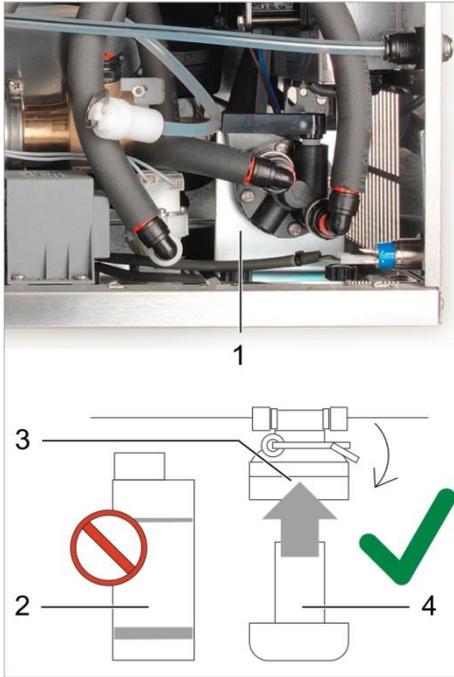
Preparation

- Wash hands.
- Put on protective clothing.
- Put on protective gloves and spray with EAUATION N° 2.
- Put on protective goggles.
- Draw a sterile water sample. Label water sample and refrigerate. Water sample must reach laboratory within 24 hours.
Note: Only draw water sample if agreed upon with customer.
- Check the water clock: How much water has been drawn since the last maintenance?
The hygiene filter has a capacity of 8300 litres or a service life of six months. Hygiene maintenance should be performed earlier if more than 8300 litres of water have been drawn during the last six months.
- Close the water stop cock.
- Depressurise the water pipe by pressing the button for still water.
- Turn off the water dispenser.
- Pull the mains plug.
- Unscrew the upper cover plate and remove it.
- Set flow regulator to “Maximum” (▶7.1).

Checking the water outlet pipe

- Check whether the water outlet pipe is calcified. If required, descale (▶9).

Replacing the hygiene filter with dummy plug (not for first commissioning)

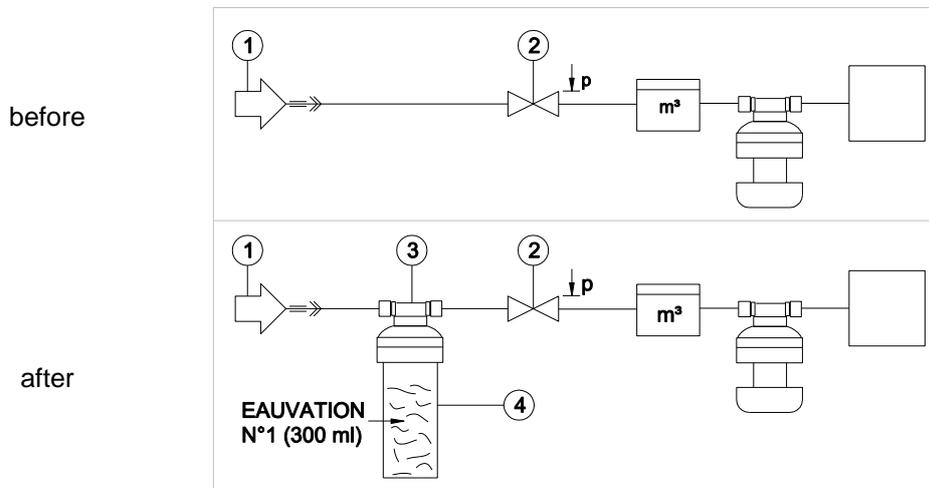


- Remove the bracket (1) with hygiene filter (2).
- Remove the hygiene filter (2).

- Spray the inside of the filter head (3) with EAUVATION N° 2.
- Spray the dummy plug (4) with EAUVATION N° 2 and screw into the filter head (3).
- Close the lever at the filter head (turn to the right).
- Install the bracket (1).
- Screw the upper panel tight.
- Plug in the mains plug.

Installing the maintenance cartridge

For the hygiene maintenance, the entire system is flooded with the maintenance cleaner EAUVATION N° 1. For a thorough cleaning, it is important that the cleaning agent enters the cycle as early as possible. Therefore, the maintenance cartridge must be installed directly after the water stop cock.



- Insert the cartridge head (3) between the water stop cock (1) and the pressure reducer (2).
- Before inserting the hoses, spray the end of the hoses with EAUVATION N° 2. Also spray the hose connections at the cartridge head (3).
- Fill 300 ml of maintenance cleaner EAUVATION N° 1 into the maintenance cartridge (4).

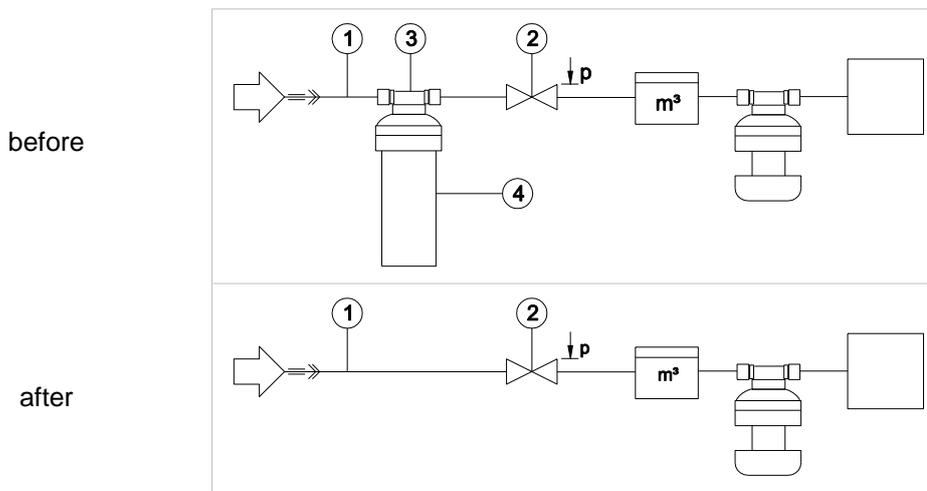
Let the maintenance cleaner act

- Turn on the water dispenser.
- Open the water stop cock.
- Draw still water until a pressure shock occurs.
- Dispose of water.
- Draw approx. 100 ml of still water. When drawing the water, hold a chlorine test strip into the water. As soon as the colour changes from white to purple, the maintenance cleaning agent has come through.
- Dispose of water.
- Draw carbonated water. When drawing the water, hold a chlorine test strip into the water. As soon as the colour changes from white to purple, the maintenance cleaning agent has come through.
- Dispose of water.
- Let the cleaning agent act for approx. 5 minutes. Draw approx. 50 ml of each water type in between.

Rinse the maintenance cleaning agent

- Draw approx. 10 l of each water type and dispose of it. When drawing, alternate between the two water types.
- Draw approx. 200 ml of each water type.
- Using the chlorine test strip, check whether the water still contains maintenance cleaner (colour changes white -> purple).
- Dispose of water.
- Keep drawing water from both water types until the colour no longer changes.
- Close the water stop cock.
- Depressurise the water pipe by pressing the button for still water.
- Turn off the water dispenser.
- Pull the mains plug.

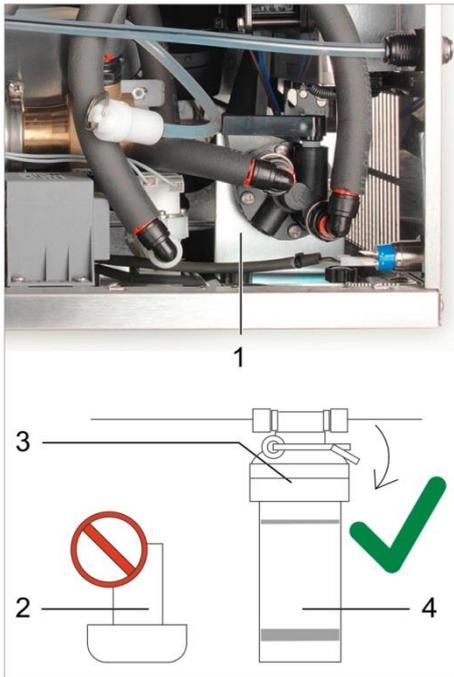
Removing the maintenance cartridge



- Removing the maintenance cartridge (3+4).
- Spray the hose end (1) with EAU VATION N° 2. Also spray the hose connection at the pressure reducer (2).
- Plug the hose (1) into the pressure reducer (2).

IMPORTANT Check the end of the hose. If there are any scores on the hose, shorten the hose or replace it to ensure a tight plug connection.

Installing the hygiene filter



- Turn off the water dispenser.
- Pull out the mains plug.
- Unscrew the upper cover plate and remove it.
- Remove the bracket (1) with hygiene filter (2).
- Remove the dummy plug (2).
- Spray the inside of the filter head (3) with EAUVATION N° 2.
- Insert a new sterile hygiene filter (1) into the filter head (2).
Before inserting the filter, spray the plug connection of the hygiene filter with EAUVATION N° 2.
- IMPORTANT** Do not touch the plug connection of the hygiene filter (hygiene).
- Close the lever at the filter head (turn to the right).
- Install the bracket (1).

- Set the flow meter (► 7.1).
- Screw the upper cover tight.
- Plug in the mains plug.
- Turn on the water dispenser.
- Open the water stop cock.
- Draw approx. 2 litres of still water and dispose of it.
- Draw approx. 2 litres of carbonated water and dispose of it.
⇒ This will wet the hygiene filter.

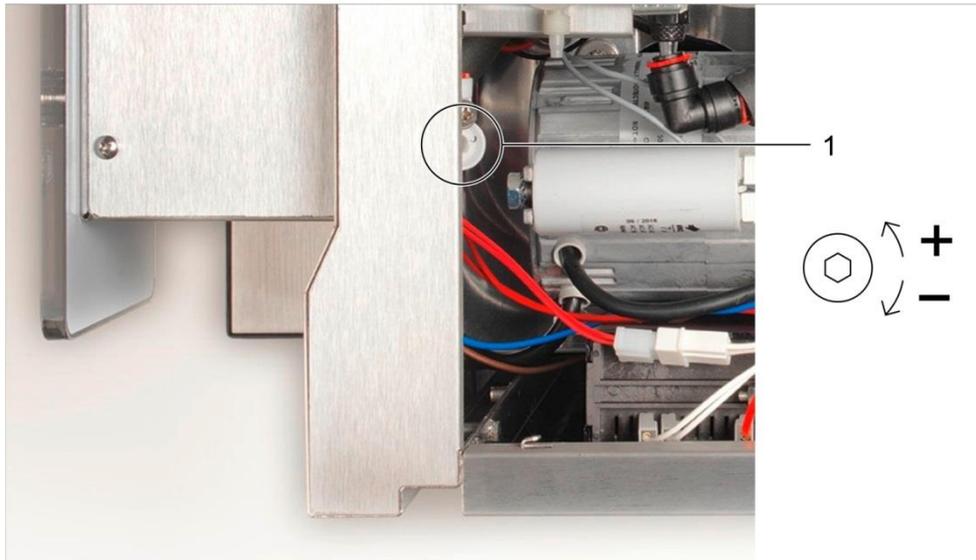
Finalisation

- Spray protective gloves with EAUVATION N° 2.
- Draw a sterile water sample. Label water sample and refrigerate. Water sample must reach laboratory within 24 hours.
Note: Only draw water sample if agreed upon with customer.
- Clean the drip tray.
- Clean the outside of the water dispenser with EAUVATION N° 3.

IMPORTANT Do not wipe the water outlet as this may cause germ contamination.

7 Setting the water dispenser

7.1 Setting the flow regulator for carbonated water



The amount of water which is drawn per unit of time is set on the flow regulator (1).

- Factory setting: 200 ml in 8 seconds (1.5 l/min = 150 ml/6 s)
- Clockwise rotation: Flow rate is reduced
- Anti-clockwise rotation: Flow rate is increased

IMPORTANT After each hygiene maintenance, the flow rate must be reset correctly. If the flow rate is too high, the carbonator tank will run empty. The pump will stop after 4 minutes to prevent it from running dry. Restarting the pump: Pull the plug and plug back in after 3 seconds.

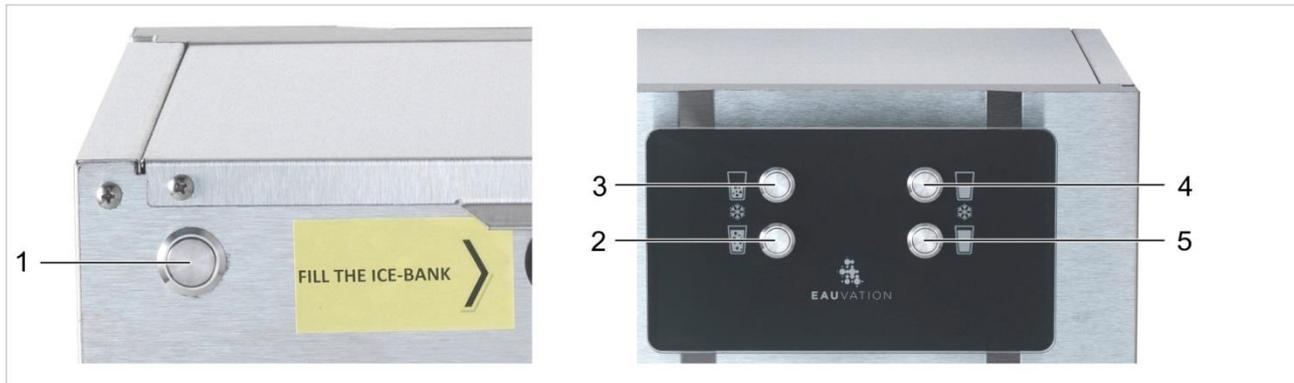
- Completely close the flow regulator (1) (clockwise rotation).
- Open the flow regulator (1) with 2 rotations.
- Draw carbonated water and test it:
 - Does approx. 200 ml of water flow out in 8 seconds?
 - Is the carbonation of the water correct?

7.2 Setting the portion sizes

Each button can be set to how much water should flow when pressing the button.

Factory setting:

- Button 3 and 4: 0.2 l
- Button 2 and 5: 0.7 l



Setting the programming mode

- Press buttons (1), (4) and (5) at the same time until the background lighting flashes and a beeping sound can be heard.
- Release all buttons.

Setting the portion sizes

Still water, small portion

- Briefly press button (4).
- Press button (4) again as soon as the portion size is correct.

Still water, large portion

- Briefly press button (5) and release it as soon as the water comes.
- Press button (5) again as soon as the portion size is correct.

Carbonated water, small portion

- Briefly press button (3).
- Press button (3) again as soon as the portion size is correct.

Carbonated water, large portion

- Briefly press button (2) and release it as soon as the water comes.
- Press button (2) again as soon as the portion size is correct.

Exiting programming mode

- Press buttons (1), (4) and button (5) at the same time until the background lighting no longer flashes and a beeping sound can be heard.
- Release all buttons.

7.3 Setting the refrigeration



(1): Thermostat

- Clockwise rotation: Temperature is lowered
- Anti-clockwise rotation: Temperature is increased

If larger volumes of cooled water are regularly drawn:

- Set the thermostat to 6 so that an ice-bank can form.

8 Maintenance work

Scope of work	Interval
Hygiene maintenance (▶ 6)	every 6 months
Replacing the hygiene filter (▶ 6).	every 6 months
Checking the water outlet pipe for scaling. If required, descale (▶ 9).	every 6 months
Replacing the water outlet pipe with UVC lamp (▶ 10).	every 12 months
Add tablet to the ice-bank water bath to prevent the formation of algae (▶ 5.3).	every 12 months
Check the fill level of the water bath; refill if required (▶ 11).	every 12 months
Drain the water bath and refill.	every two years
Safety inspection (▶ 15)	every 2 years

9 Descaling the water outlet pipe



Water outlet pipe

Item	Description
1	Metal pipe
2	Glass sheet
3	UVC lamp

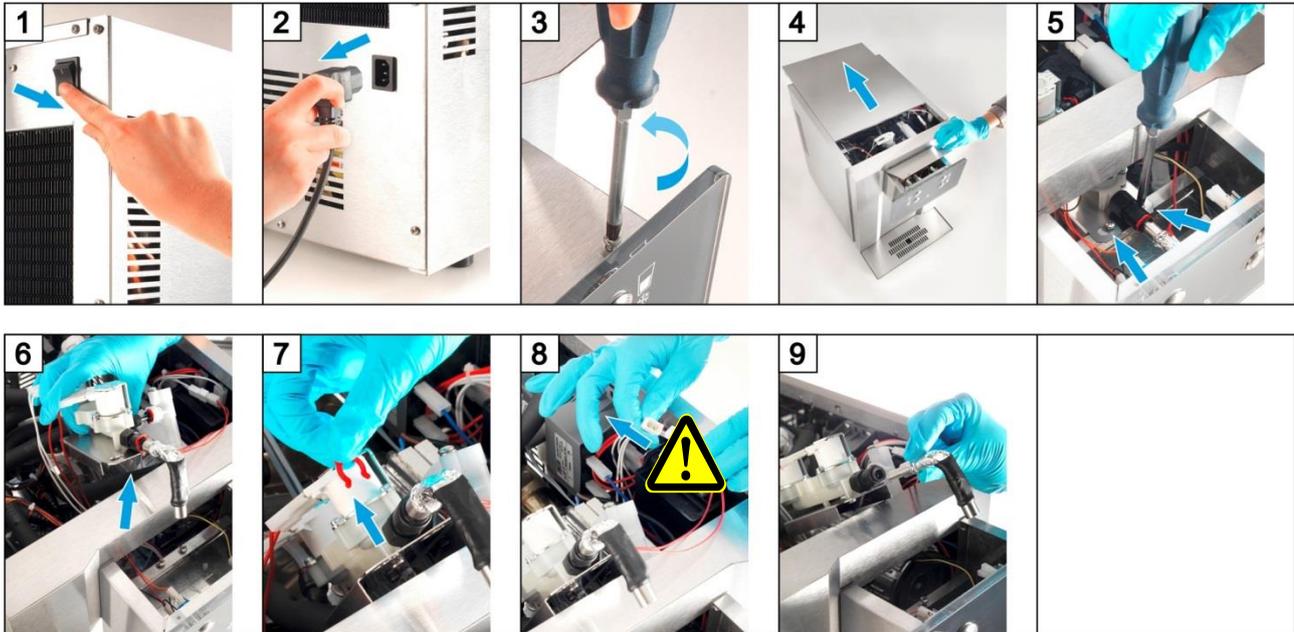
9.1 Removing the water outlet pipe



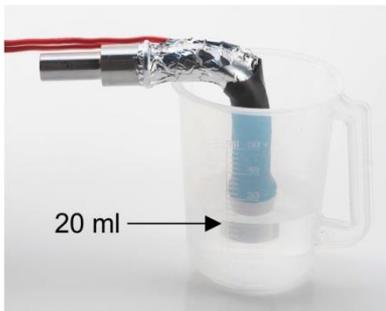
Warning

Risk of injury from broken glass in the water

Part of the water outlet pipe is made of glass. During removal or installation, only pull or press the metal pipe. Make sure the glass pipe is not damaged before installation.



9.2 Descaling the water outlet pipe



- Dissolve one tablet of EAU VATION N° 4 in 20 ml of water in a small measuring cup.
- Hold the calcified end of the pipe into the solution.

IMPORTANT

Do not fully immerse the water outlet pipe in the solution. The descaler will attack the UVC lamp and aluminium.

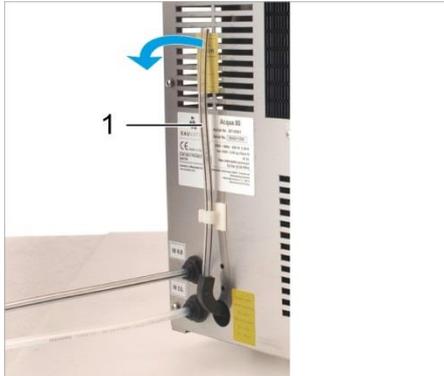
9.3 Installing the water outlet pipe

- Installation in reverse order.
- Check whether the water jet comes out straight. If necessary, correct.

10 Replacing the water outlet pipe with UVC lamp

For installation and removal see chapter 9.

11 Renewing the water bath



- Close the water stop cock.
- Depressurise the water pipe by pressing the button for still water.
- Turn off the water dispenser.
- Pull out the mains plug.
- Hold the level indicator hose (1) in a bucket.
- Completely empty the water bath.
- Position the level indicator hose (1) upright and use a cable tie to fix in place.



- Insert the water connection hose into the "FILL THE ICE-BANK" connection.
- Open the water stop cock.
- Fill the water bath to a level between MIN and MAX.
- Close the water stop cock.
- Insert the water connection hose into the "IN H₂O" connection. Before inserting the hoses, spray the end of the hose with EAUVAATION N° 2.
- Unscrew the upper cover plate and remove it.
- Using curved needle-nose pliers, add one tablet to prevent the formation of algae to the water bath.
- Screw the upper panel tight.
- Plug in the mains plug.

12 Water clock



12.1 Inserting the batteries

- Open the battery compartment (1).
- Insert two batteries (type AAA). Pay attention to correct polarity of the batteries.
- Close the battery compartment (1).

12.2 Setting the capacity

- Press and hold down button (2).
- Press button (3) with a ballpoint pen tip.
- Release both buttons as soon as "FLI1" flashes in the display.
- Press button (2) repeatedly until 8000 litres is shown on the display.
- Press button (3) with a ballpoint pen tip to store the value.
 - ⇒ "FLI 2" flashes. Shortly thereafter "OFF".
- Press button (3) with a ballpoint pen tip to turn off "FLI 2".
- Proceed the same way for "FLI3" to "FLI5".

As soon as the set water volume is exceeded, an acoustic signal is triggered.

- Confirm with button (3) to reset the alarm.
- Replace the hygiene filter.

12.3 Displaying the remaining capacity

- Press button (2).
 - ⇒ The remaining water volume is displayed.
- Press button (2) again.
 - ⇒ "FLI 1" flashes twice.
 - ⇒ The remaining capacity is displayed.

12.4 Reset

After replacing the hygiene filter, the consumed amount of water must be reset.

- Press and hold down button (3) for 8 seconds.
 - ⇒ An acoustic signal sounds.
 - ⇒ The consumed water is reset.

12.5 Changing the batteries

Weakening batteries are indicated by an acoustic signal.

- Open the battery compartment (1).
- Insert two batteries (type AAA). Pay attention to correct polarity of the batteries.
- Close the battery compartment (1).

13 Decommissioning the water dispenser

For a period of disuse under 3 weeks, the water dispenser can be decommissioned without the need for preservation. To do this, perform the following steps:

- Close the water stop cock.
- Shut off the gas supply.
- Leave the water dispenser plugged in and turned on.

Re-commissioning

- Open the water stop cock.
- Open the gas supply.
- Draw approx. 5 litres of each water type and dispose of it.

14 Malfunctions

Errors		Possible cause	Remedy
Still water	Water jet is too weak	Water pressure is too low	Adjust the water pressure (minimum water pressure = 1.5 bar).
	Water jet is too strong	Water pressure is too high	Set the pressure reducer (▶ 5.2). Max. 3.0 bar
Carbonated water	Water jet is too weak	Flow rate is set too low	Set the flow meter (▶ 7.1).
	Water jet sprays too much	Flow rate is set too high	Set the flow meter (▶ 7.1).
	Water does not contain enough carbonic acid	Air in the carbonator tank	Vent the carbonator tank (▶ 5.7).
		Gas pressure too low	Increase gas pressure (▶ 5.6).
		Water hardness is not optimal	Soften the water. Optimal: 5-20 °dH
		Inlet water temperature is too high (max. 35°C)	Connect water dispenser too cold water.
		Refrigeration not set	Set the refrigeration (▶ 7.3).
		Withdrawal quantity too high	Draw a maximum of 20 l per hour.
		Flow rate is set too high	Set the flow meter (▶ 7.1).
LED blinks <u>slowly</u>	Carbonic acid supply is closed	Open the valve on the carbonic acid bottle.	
	Gas pressure too low	Increase gas pressure (▶ 5.6).	
LED blinks <u>quickly</u>	Water stop cock is closed	Open the water stop cock.	
	Water flow pressure is too low	Set the pressure reducer (▶ 5.2). Max. 3.0 bar	
	Hygiene filter is exhausted	Replace the hygiene filter.	
Carbonic acid bottle empties too quickly	Leaking gas system	Check gas system for leakages (▶ 15.2).	
UVC lamp does not light up	Ignition failure	Spatially separate the lamp from the cable.	
	Inverter defective	Check inverter function, if necessary, replace.	
	Lamp defective	Replace lamp.	
Discoloured water hoses	Iron concentration in water is too high	Measure the iron concentration. Replace the hose.	
	Microbiological cause	Draw a sterile water sample and analyse. Water sample must reach laboratory within 24 hours.	

15 Safety inspection

The following safety checks must be performed on the water dispenser every 2 years.

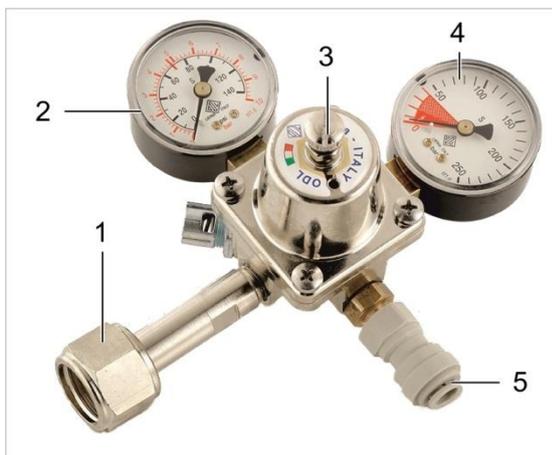
15.1 Check relief valve



Warning

**Possible discharge of carbonic acid
Splashes cause cold burns.**

– Wear protective gloves and protective goggles.



Item	Description
1	High pressure side (carbonic acid bottle)
2	Manometer (operating pressure = pressure after the pressure reducer)
3	Adjusting screw Clockwise rotation increases the pressure
4	Manometer (pressure in the carbonic acid bottle)
5	Low-pressure side (connection for the carbon dioxide hose)

Gas pressure reducer

- Close the shut-off valve after the gas pressure reducer.
- Fully open the valve on the carbonic acid bottle.
- Turn the set screw (3) in clockwise direction until the safety valve opens. This should happen at approx. 5.5 bar.
- Reset the previous operating pressure.
- Open the shut-off valve after the gas pressure reducer.

15.2 Check for leaks

- Fully connect the valve to the carbonic acid bottle.
- Watch the pressure gauge of the high pressure side for 3 - 5 minutes. In this period, the pressure may not drop.
- In necessary, locate leaks with leak detection spray.

16 Technical data

Height	510 mm
Width	360 mm
Depth	562 mm
Weight	34 kg
Cooling output	80 l / h
Dispensing water temperature	5–12 °C
Setting the CO ₂ pressure	Max. 4 bar
Sound pressure level during normal operation	Max. 55 dB(A)
Refrigerant	R290
Splash guard	IP X1

Threshold values for the raw water

Maximum inlet water temperature	35 °C
Minimum flow rate	3.5 l/min
Minimum flow pressure	1.5 bar
Maximum inlet pressure	3.0 bar
Chlorine	< 0.2 mg/l

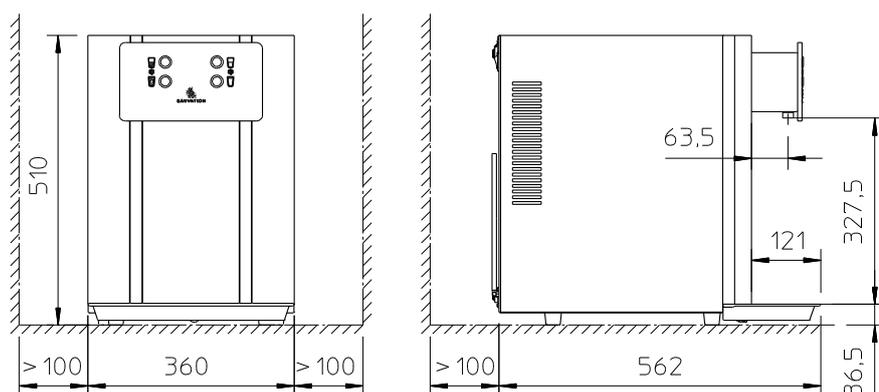
Operating conditions

Operating temperature	0–32 °C
Relative air humidity	< 95 %
Storage temperature in preserved condition	> 0 °C

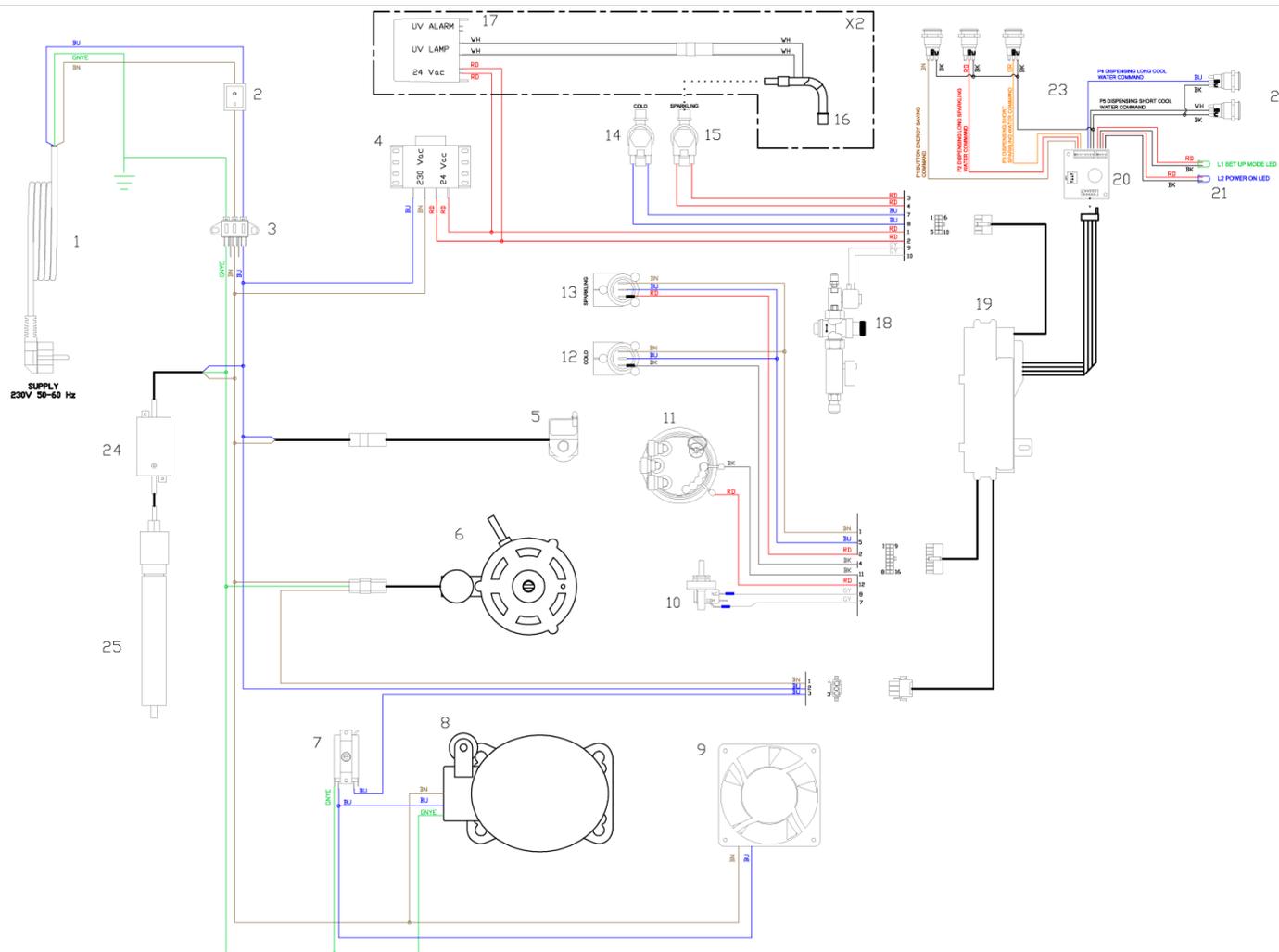
Power supply

Voltage	230 V
Frequency	50 Hz
Power consumption	1.15 A
Fuse protection	Max. 16 A

Dimensions



17 Circuit diagram



No.	Component
1	Mains cable
2	On / off switch
3	Terminal block
4	Transformer
5	not available
6	Pump
7	Thermostat
8	Compressor
9	Ventilator
10	CO ₂ pressure switch
11	Carbonator tank
12	Flow meter for still water
13	Flow meter for carbonated water
14	Solenoid valve for still water
15	Solenoid valve for carbonated water
16	UVC lamp
17	UVC lamp inverter
18	Inlet valve
19	Control unit
20	PCB
21	Indicator light
22	Button
23	Button
24	not available
25	not available

Code	Colour
OR	orange
GN YE	green-yellow
YE	yellow
BU	blue
BN	brown
WH	white
RD	red
BK	black
GY	grey

EauVation

A Winterhalter Brand
Winterhalter Gastronom GmbH
Commercial Warewashing Systems

Winterhalterstraße 2–12
88074 Meckenbeuren
Germany

EauVation

A Winterhalter Brand
Winterhalter Gastronom GmbH
Commercial Dishwashing Systems

Winterhalterstraße 2–12
88074 Meckenbeuren
Germany