BWT
BEST WATER TECHNOLOGY

WATER DISPENSER

AQA drink
PRO Commercial



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1-COMMISSIONING

Check that the device and its packaging have not been damaged during transport.
The commissioning of this device must be carried out by a skilled technician.

1-1 Recommendations

This device is only for indoor locations, in dry areas, sheltered from freezing conditions.

Avoid the installation in a location where temperature is high or in a room directly exposed to sunlight (for instance behind south-facing glazing).
Avoid the installation in wet conditions, in dusty rooms or exposed to direct projections such as sink, stove, dishwasher, and so on.
Water dispensers shall not be cleaned or disinfected with corrosive chemicals, especially stainless steel and metal parts (e.g. : Chlorine). Rinse well and follow the recommendations on the products used.

If the device is transported during installation

It must be held and not drawn. The product shall be transported upright to avoid any damage to the compressor. When protective packagings are removed, please take care not to scratch the device with a cutter for example.

Do not recessed the device

Keep a distance of minimum 10 cm at the back of this device for a good performance of the cooling system.

Electrical connections

Before any electrical connection, check imperatively that the mains voltage is single phase 230V.
This electrical connection must be done on 2P+E electrical outlet supplied with 3 x 2.5mm^2, equipped with appropriate protection. Cable is not supplied, rigid or stranded cable are possible.

Activation of the activated carbon filter (if necessary in case of inline filter)

To activate the filter, this operation must be carried out outside the device. Allow at least 5 liters of water to flow, until the water is clear.

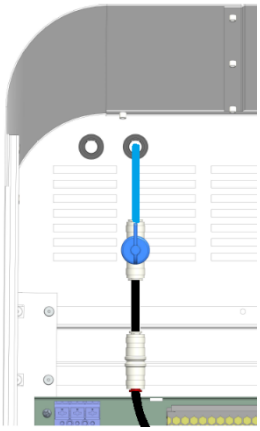
For any installation, it is recommended to

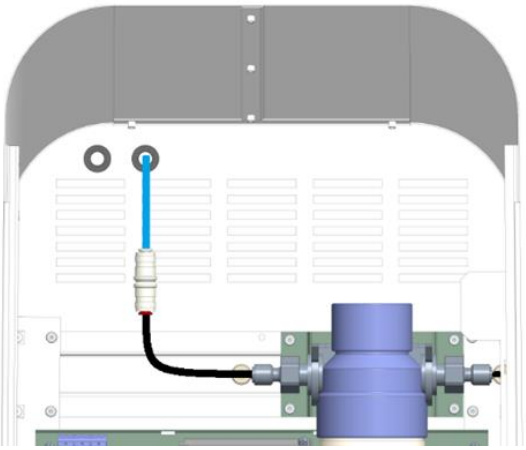
- choose the closest point for water supply to its location to limit the length of the connection pipe (recommendation: limitation to 5 meters of pipe).
- check the compatibility of the water pressure of the network with that of the maximum of the device and to install a pressure reducer if necessary.
- Systematically install a shut-off valve to isolate the appliance from the network for any technical intervention or during water supply problems.
- Systematically install a "Waterblock" type anti-leakage system to prevent any major leaks. (Adjustable between 5 and 50 liters)

1-2 Water inlet connection : Warning !

The device shall be connected only on the cold drinking water supply network, with new flexible pipes, in accordance with the legislation in force.
Before any connection, purge the water installation. Our devices are designed for a maximum pressure of 4.5 Bar.

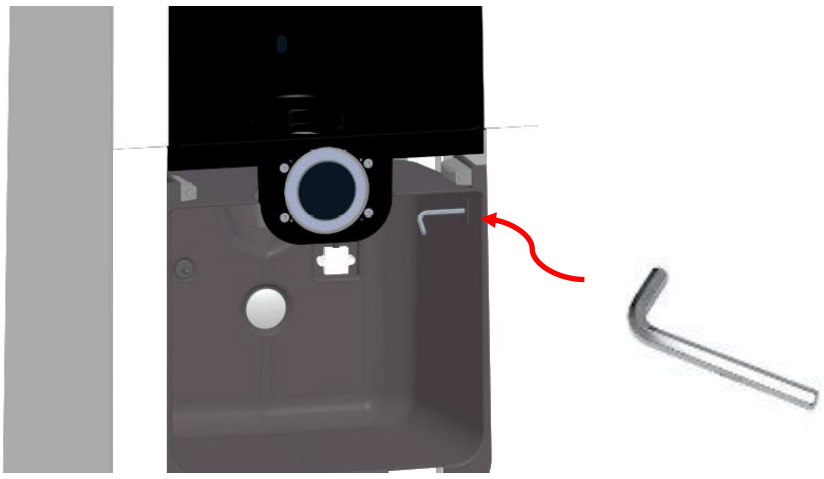
The water supply is via a flexible hose Ø1/4'' with a length of 1.5m.
This tube is to be passed through the cable gland and connected to the quick connector (in-line filter) or directly to the inlet of the BWT filter head. The tube is not supplied, consult us if necessary.



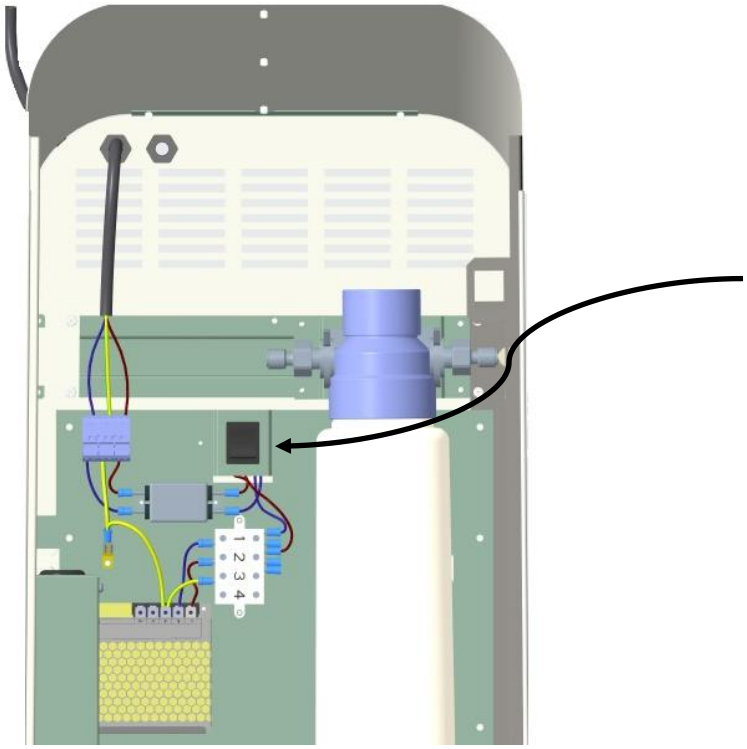


Please before any electrical connection, double check the ice bank water level.
Open the water tap of the installation.

Electrical connection: open the door of the machine, unlocking the front door requires an Allen key of 4mm. Open the small tank's door and remove the water tank, a small hole on right position of the plastic holder enables to reach the key. Turn counter clockwise. When unlocked, draw the door (hinges on the left).



The cable gland located at the rear side of the machine shall be used. The connection is made on the WAGO 3P terminal with 3G2.5mm2 maximum cable (flexible or rigid). Tight the cable to prevent it to move.



A switch is located at the top of the plate in OFF position; it shall be placed in ON position. Close the door. *Let the machine disconnected from the main, let the cable without electrical supply until "initialization «phase is ready*

After the commissioning, the waiting time to get cold water is approximately between 1 hour and 1 hour 30

Depending on ambient temperature conditions, this time is necessary to get an ice stock into the ice bank. For a good performance, please check regularly the water filling of the ice bank.

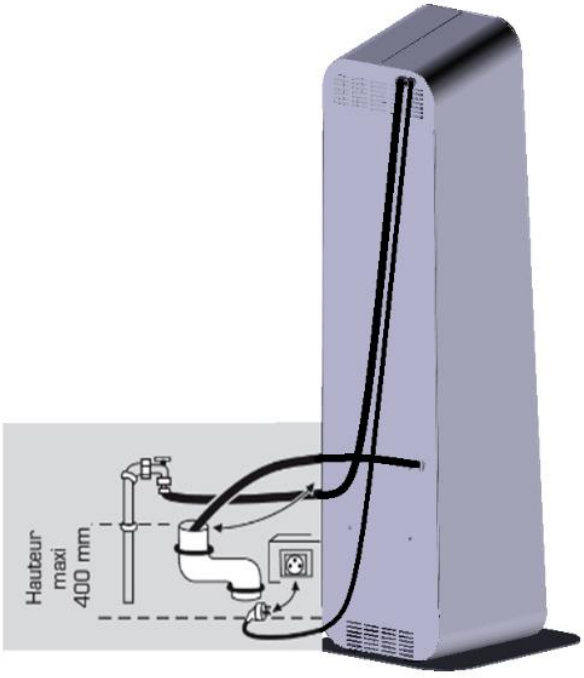
Filtration :

● Access to in line filter and BWT filter is direct from front side

Water drain : two solutions

● The basin is directly connected to the waste water by a Ø20 x 26 flexible pipe. Provide a Ø28 x 32 PVC with siphon. Maximum height of the evacuation is 400 mm. Please short circuit the tank detection with the connector at the back of the tank holder.

● The basin is not connected, the 5L tank will have to be emptied frequently.



2- CONTACTLESS COMMANDS

2-1 infrared service interface

This water dispenser is equipped on its front side of infrared sensors to enable the water dispensing. A luminous ring indicates the machine statuts.

2-2 Stand-By mode

The luminious ring is lit with a purple or blue breath. The purple color indicates that an optional disinfection module is in use on the machine.

2-3 The dispensing :

The dispensing is only possible if a container is present on service area. The container is automatically detected by the first infrared sensor. The luminous ring changes its colour that becomes fixed, meaning the container is seen by the machine (cup, bottle...). The service is possible in approaching a hand close to the ring (contact is not required). Water dispensing starts and the ring changes again its colour and immediately turns like a light chaser. If the container or the hand are withdrawn from the sensors, then the service is stopped automatically.

2-4 Colour coding

Each working mode and errors are indicated by the luminous ring. A colour and a different behaviour of the light are visible (breathing, fixed, chasing lights). Red and orange colours indicate faulty situations for the containers (cup, bottle not detected or water tank full or missing). These errors prevent the water to be delivered. The service will be restored as soon as the faulty reason is corrected on the machine.

Water Dispenser State	Behaviour	Colour	Remark
Working without disinfection module			
Working, ready to be used	*Breathing*	*Blue*	*Light lighing*
Container detected, ready to serve	*Fixed*	*Blue*	*Luminous*
Water service is in progress	*Chasing*	*Blue light to dark*	
Disinfection module installed			
Working, ready to be used	*Breathing*	*Purple*	*Light lighing*
Container detected, ready to serve	*Fixed*	*Purple*	*Luminous*
Water service is in progress	*Chasing*	*Purple*	
Faulty modes			
Water drain tank full	*Flashing*	*Red*	
Water tank is missing	*Fixed*	*Red*	
Disinfection module in error	*Breathing*	*Orange*	
Disinfection module in error + container	*Fixed*	*Orange*	
Disinfection module in error + service	*Chasing*	*Orange to purple*	
Hand is detected but not the container	*Fixed*	*Green*	*Luminous*
Initialisation			
Motherboard booting	*Flashing*	*Purple*	

3- OPERATING MODE DESCRIPTION

3-1 « Initialisation » Mode

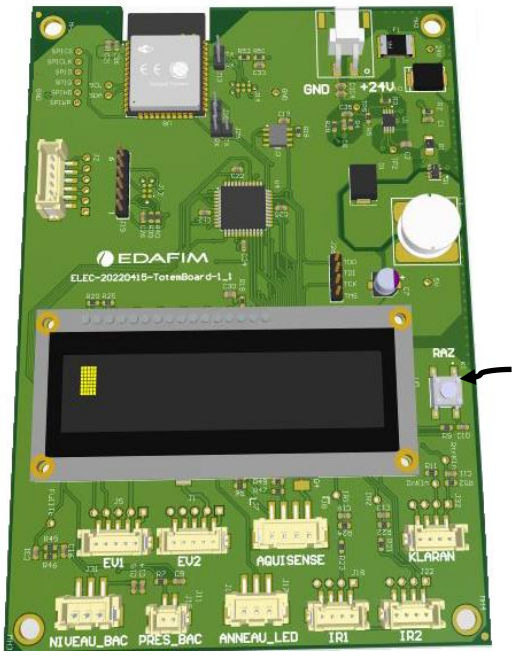
Place a large container of 1 or 2L into the service area. Check that the switch of the dispenser is ON and close the door. ***The power supply of the machine and its cable shall be now on.*** Immediately the ring flashes and water will be drained for few seconds. 500ml of water will fill the container to rince the system. This drain enables the water to fill the pipes and to control water flowmeters and possibly the disinfection module (optional). ***Let this initialization ending without stopping the machine.*** The water dispenser automatically comes back to the service mode.

3-2 « Stand-by » Mode

When the machine is not used, it goes into a stand-by mode, the luminous ring emits blue or purple light with breathing and slow speed (purple if WD equipped with UV-C disinfection).
To enable permanently a safe and good quality of the water, versions equipped with disinfection automatically achieve UV-C flashes, preventing any proliferation of micro-organisms into the machine.
If the machine is equipped with UV-C aerator, this one also achieves regular flashes to prevent any retro-contamination of the outlet.

3-3 « Service » Mode

The water dispenser goes into « service » mode as soon as a container is detected on the service. Une plate in Corian® shows the optimal position for the cup or the bottle to be placed under the water service aerator. The luminous ring becomes fixed and luminous indicating that the container is seen by the machine. The service becomes active as soon as a hand is placed at less than 100mm from the second sensor located in the middle of the ring. The service starts and will continue as long as both sensors will detect presence .



3-4 Volumetric metering

In versions equipped with flowmeter, it is possible to read the volume of water that was delivered by the water dispenser from the commissioning date or from the last counter reset (vol. in liters). The reading is made directly on the digital display mounted at the back of the electronic card. The access is possible in opening the door (See 1.2). A reset of the volume is possible with a press on the small push button RAZ.

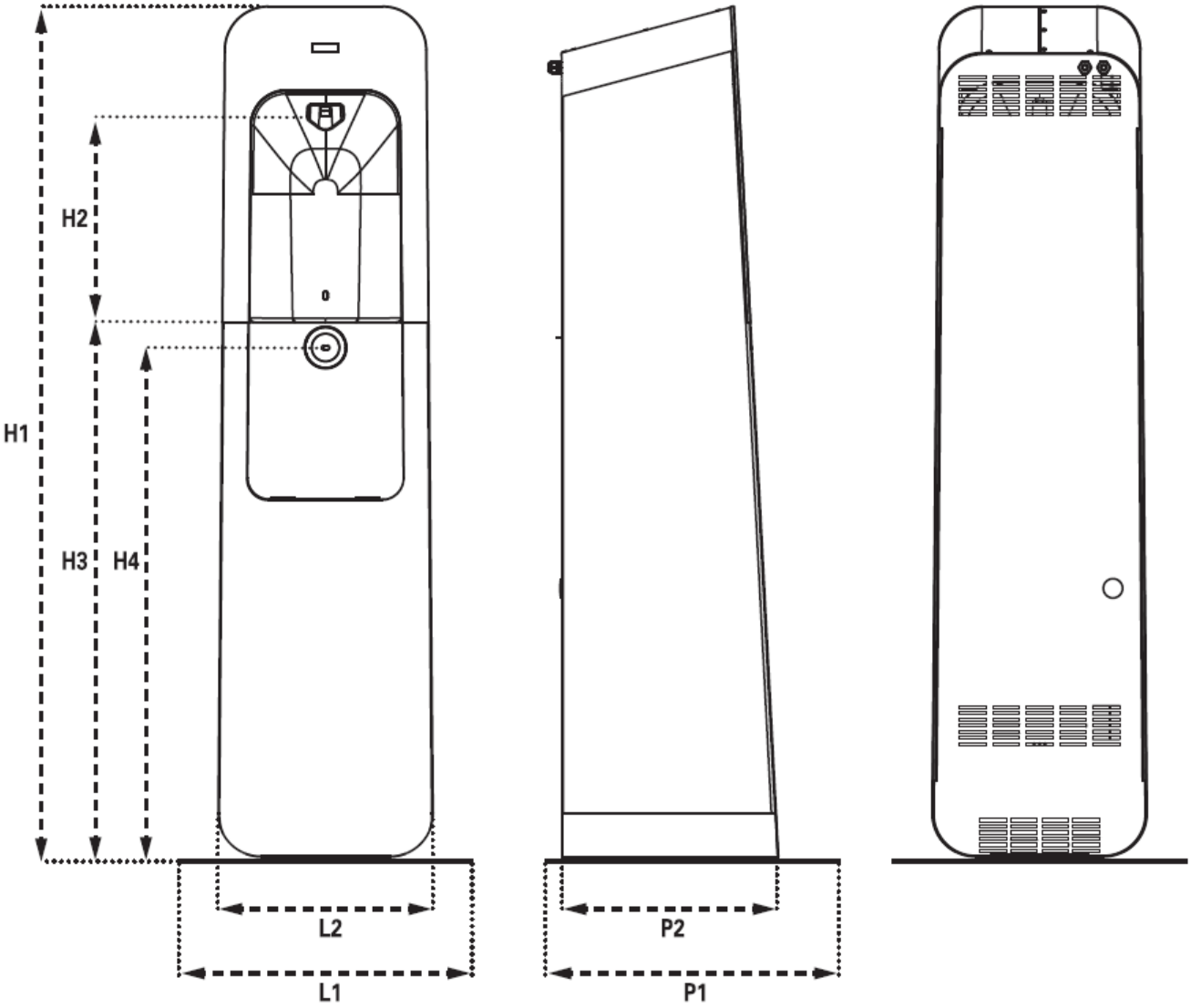
3-5 Winter Mode (ECO): The water dispenser has a second switch on the bottom part of the machine. This switch shall be ON to enable the compressor to operate and to get cold water.

During wintertime, it is possible to stop cold water and switch off the compressor. The machine only delivers ambient water.

Compressor ON

4- TECHNICAL PARAMETERS

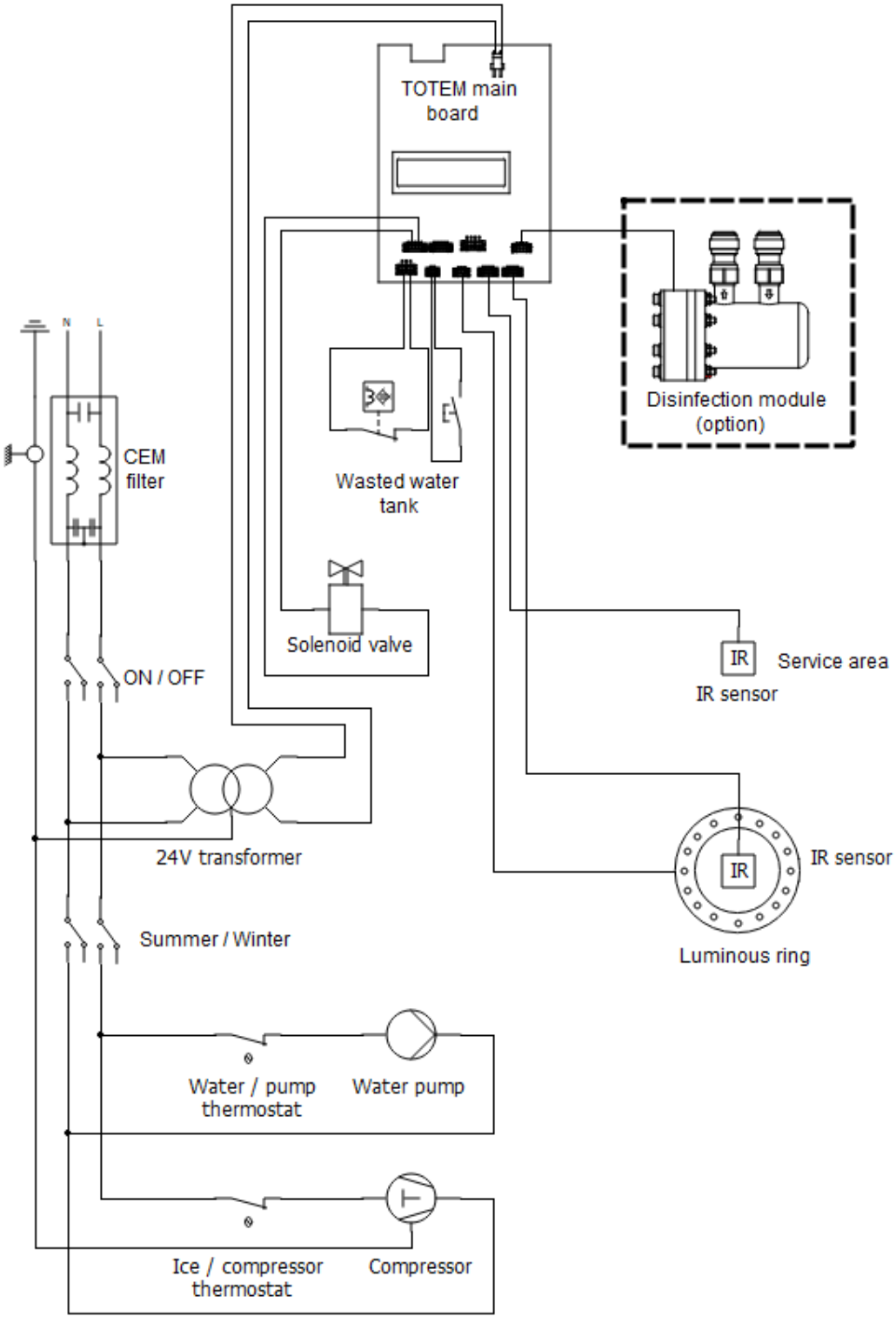
Dimensions of the device :



Dimensions		
H1 : Total Height	1602	mm
H2 : Bottle max. height	390	mm
H3 : Service area height	1005	mm
H4 : Ring height	960	mm
L1 : Basement width	550	mm
P1 : Basement depth	550	mm
L2 : L2 width	403	mm
P2 : P2 depth	406	mm

Datasheet : See last page.

5- ELECTRICAL DIAGRAM



6- DAILY CLEANING AND PERIODIC SANITARY MAINTENANCE

DAILY SERVICING

● Clean the service area and the casing of the appliance with a non-aggressive detergent. Do not use an abrasive sponge.
● Clean the glass with a washing non-aggressive detergent. Do not use an abrasive sponge. Plastic parts must not be cleaned or disinfected with solvent products (e.g. Acetone). Rinse well and follow the recommendations on the products used.
● Clean the water outlet with a single-use wipe. Depending on the hardness of the water, plan to descale the aerator and the drip tray (see descaling product in our catalogue). The aerator and the Corian® shall be descaled if needed. (See descaling chemicals from our catalog.)
● Empty the drain tank, open the tank cover in pushing or pulling the door (Push-Pull). Take care to replace and push the empty tank to the bottom of its holder. ***It must be in contact to the holder to enable the water level sensor to operate properly.***

PERIODIC SANITARY MAINTENANCE

To keep this device in good working condition and guarantee the quality and safety of the water distributed, a minimum annual maintenance is mandatory. It requires the intervention of a skilled technician. The customer can define a more frequent maintenance of the fountain. Filter replacement is recommended every 6 months or when capacity is reached or before 6 months.

For descaling and disinfection of parts in contact with water, please contact us.

6-1 Descaling and disinfection of the water circuit (in-line filter):

First close the water inlet valve. Depressurize the water system by pressing a water draft control button. Switch off the mains. Then, before carrying out any operation inside the device, it must be disconnected from its power source.
Open the back plate of the backsplash and the front door of the unit.
Do the descaling agent dosage (do not exceed 10%).
Remove the filter.
Connect the unit to the water supply of the device.
Insert the disinfection pump inlet tube into the descaling solution.
Switch on the unit and purge by pressing the control button.
Check that the descaling solution comes out of the water outlet.
Leave the descaling solution to act for about 10 minutes.
Repeat the operation if necessary.
Reconnect the water supply and rinse.
Repeat the operation with the disinfectant solution.

6-2 In line filter change

Activate the new filter: it is mandatory to achieve this operation outside the appliance by connecting directly to the water inlet tube. Run at least 5 liters of water until the water is clear. Replace the water inlet and outlet connections respecting the direction of water flow. It is recommended to wear disposable gloves when handling the new filter.

6-3 Disinfection of the water circuit, BWT filter

Turn off the water first. Depressurize the water system by pressing any water control button. Switch off the machine.
Unscrew the filter at the back side of the dispenser 1.
Get the EasyCare Tab 2 disinfection kit.
Follow the kit instructions to put in place the disinfecting kit and the plug into the filter's head 3. et 4.



Purge by activating both cells simultaneously. Use a large container on the serving area. Rinse with 5L.
Leave the solution to act for another 15 minutes.
Turn off the water and remove the sanitizing cartridge from the filter head 6. and replace the filter cartridge. Put back in water.
Rinse by emptying the container and draining approximately 10L.
Dispose of the EasyCare 7 treatment tablet (ordinary waste). And keep cap 8.



6-4 BWT filter change

The filter cartridge must be replaced according to its filtration capacity and the water flow. At the latest, it must be replaced after 12 months following its commissioning or an interruption of more than 4 weeks.

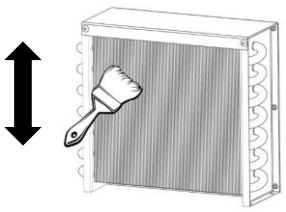
- Open the front door, please see Chapter 1.2
- Turn the water tap to cut water in the machine.
- Unscrew the filter clockwise. Replace a new filter equivalent to the one removed from the machine. Screw it back in the opposite direction.
- It is recommended to wear disposable gloves when handling the new filter.
- Put the machine back in water
- BWT Activated Carbon filters must be rinsed and purged. Use a large container in the service area and activate a water outlet to drain approximately 10L
- Turn on the water tap.
- Close the front door of the machine.
- Dispose of the filter cartridge according to local disposal regulations.

6-5 Disinfection module change

Open the front door.
First close the water tap. Depressurize the water system by dispensing some water.
Switch off the main or switch off the machine from the main switch.
Disconnect the electrical connector connected to the treatment system (see page 11)
Disconnect the water pipes from the module.
Unclip the treatment system from the device.
Mount the new system supplied and reconnect the electrical connector.
Reconnect the pipes connecting the solenoid valve to the treatment system, respecting the direction of water flow.
Let the initialization happens with a container on the service area. Re-energize the appliance and restore the water circuit before pressing the water service button to check that it is working properly.
Close the door.
The used module is a WEEE to be disposed of as such.

6-6- Condensor Dusting

- Switch off the device. Before carrying out any operation inside the device, it must be disconnected from its power source.
- Open the water dispenser's door to have access to the ventilation part at the bottom of the device (condenser)
  Clean the condenser using a brush (see example).
- After cleaning, switch on the device and press the service button to check that it is working correctly.



7- TROUBLESHOOTING

SYMPTOM	SOLUTION
WATER DO NOT STOP FLOWING	1- Cut off the power supply. If water is leaking, turn off the water supply. 2- Solenoid valve is blocked in open position. 3- Switch the solenoid valve several times with the sensors. If the leakage is still there, check, clean or replace the solenoid valve. To do it cut off the mains, cut off the water supply. 4- If the water stop flowing without electrical supply, the faulty part is either the sensors or the motherboard that shall be replaced.
WATER ON THE FLOOR	1-Immediately turn off the electricity and then the water supply. 2- Remove the front door of the unit. 3- Check all the hydraulic connections as well as the drain pipe or the position of the tank and the level sensor.
NOT ENOUGH COLD WATER	1 – Check if the water connection has been made properly. 2 – Check the cleanliness of the condenser and that it is hot. 3 – Make sure that there has not been a large draft beforehand (>3L). 4 – Check that the water level in the icebank is correct (window). 5 – Check the correct positioning of the thermostat sensor (compressor). Otherwise replace it.
NOT ENOUGH WATER FLOW	1 – Check the good condition of the water supply pipe. 2 – Check the pressure and flow upstream of the fountain. 3 – Presence of an anti-leakage system (water block): Check that the system is properly engaged. 4- Check by shunting the filter that it is not clogged. 5 – Check that the fountain is not iced up if the cold water service is concerned (check that the temperate water flows normally). Unplug the fountain for a few hours and try again.
THE RING IS NOT LIGHTING AT ALL	1- Check the electrical connection and voltage. 2- Check 24V voltage on the electronic mainboard. The green LED on the power supply is the visible sign. 3- Double check that all connectors are put in the right place. 4- If the 24V voltage is not correct, please, replace the electronic power supply. 5- At last, replace the electronic mainboard and/or the RGB LED ring.
DRIP TRAY OVERFLOW	1- Check that the drain pipe is not clogged. Check that the drain below the Corian® is not clogged. Check that the tank is not full or not in the right place.

8- SPARE PARTS

For maintenance, and to replace some parts, this list is not complete please ask us.

Reference	*Description*
11700001	*Sub assembly TOTEM glass to be screwed*
35000105	*Single solenoid valve 24VDC with flowmeter ¼''*
39020017	*Programmed electronic mainboard TOTEM*
33500017	*77W 230V-24V Power Supply*
33500116	*16 LEDs Totem Ring*
61010202	*UVC LED disinfection module + wiring*
41101060	*Aerator Φ16 + holder*
33700014	*TOTEM hand Infrared sensor*
33700015	*TOTEM container Infrared sensor*
33502001	*Contactless water level sensor*
11250002	*Corian® insert for Totem service area*
11360000	*5L water tank*
11000044	*Ice Thermostat / Standard Group*
11000056	*Water Thermostat /Standard Pump*
11001277	*Water pump*
61000030	*In-line filter*
	Filtre cartouche BestTaste
42002022	*Water Tubing ¼ '' (ml)*
46012010	*Polyuréthane Φ20 insulation tube (ml)*
125297204	*BWT EasyCare Adaptator (x24)*
125297205	*BWT EasyCare Tablet (x20)*

9- LEGAL INFORMATION AND WARRANTIES

9-1 Symbols :

 This logo on the product means an electrical hazard. It is not allowed to open any part of the machine covered by this logo. Contact a skilled and authorized person to do it.

 This logo means an hazard that shall be taken into account to avoid damage to equipment or personal injury.

 This symbol means that the product is end of life electrical and electronic waste and must therefore be treated as such, it contains components that can be harmful to the environment and health. This product also contains components that can be reused or can be recycled. Please consult the information of your local authorities concerning the collection of electrical and electronic waste. National rules for waste collection must be observed according to the WEEE Directive (2002/96/EC)

9-2 Compliance declaration :

AQA Drink Pro TOTEM complies with the European directives applicable in the context of CE marking, and in particular directives 2014/35/EU and 2014/30/EU. It also complies with the provisions of European regulations 1935/2004 and 10/2011 relating to drinking water and materials in contact. Compliance certificates are available on request.

9-3 Warranties :

AQA Drink Pro TOTEM comes with a 1 year warranty. The instructions in this manual must be followed to benefit from the guarantee. This warranty will be excluded in particular if:

- The instructions were obviously not followed
- The instructions were not executed in the required order
- The recommendations were not taken into account
- Components have been replaced or modified without our validation
- Conditions of use do not comply with this notice
- Insufficiently qualified and trained personnel have worked on the equipment
- A use of the product that does not comply with its intended purpose has occurred

Some parts are excluded from the warranty, in particular all parts relating to filtration or disinfection and whose regular replacement is part of the normal maintenance of the machine.

10- DATASHEET

Dimensions and weights			
Dimensions (PxLxH)	mm	550x550x1610	
Net weight net I Raw	Kg	65 I 67	
Connections			
Voltage I Frequency	V I Hz	230 I 50	
Maximal Power	W	320	
Annual Energy Consumption(Std-by)	kWh	124	
Electrical connection	Type	3G2,5mm^2	
Hydraulic connection	Inch	1/4"	
Conditions de fonctionnement			
Ambient Water Flow	l/h	120	(selon réseau)
Cold Water Flow (ΔT 10°C)	l/h	80	
Water flow	l/mn	2	(selon réseau)
Water pressure	bar	2 I 4	
Water temperature	°C	+5 I +25	
Ambient temperature	°C	+10 I +30	
Thermal exchanger		Banc de glace	
Refrigerant	gr	R134a I 115	
UV LED reduction rate performance	log	4	(Option)

BWT
BEST WATER TECHNOLOGY

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FOR YOU AND PLANET BLUE.