



blupura



Use & Maintenance Manual

160786 0520 EN



HYDRAZON



Before installing or using the product read the precautions and general recommendations inside.

Precautions and general recommendations

This appliance is intended to be used in domestic and similar applications, such as:

- the kitchen area for the staff of shops, offices and other working environments;
- farms and by customers in hotels, motels and other residential-type environments;
- bed and breakfasts;
- catering services and similar non-retail applications;
- public places in a supervised environment.



Appliance for internal use only. Place the unit away from water jets.

Always connect the water cooler to a water main that supplies drinking water only.

Before each installation, the unit must be sanitized by an authorized technician.

After installation, ensure that the unit is not resting on the power cable.

Check that the unit is level and that it is resting on a floor with sufficient load-bearing capacity, in an environment that is suitable for its dimensions and its use.

Before any maintenance or cleaning operation is carried out, remove the plug from the socket or disconnect the power supply.

Ensure that the product is not sited close to sources of heat.

To guarantee adequate ventilation, leave at least 10 cm of space around the unit.

Install the product in a clean, dry, well-ventilated environment. The product is designed to function in environments with a temperature range of between 16°C and 32°C - Climate Class N.

Take care not to damage the cooling fluid circuit: it is filled with R600/R290, which is a highly flammable gas. It is essential to ensure that the tubes of the refrigerant circuit are not damaged.

Ensure that it is possible to disconnect the power supply either by removing the plug or via a two-pole circuit-breaker, with an opening distance of the contacts that allows complete disconnection in the conditions of overvoltage category III, placed upstream of the plug.

Check that the voltage shown on the serial number plate corresponds to the voltage being supplied at the installation site.

The unit must not be cleaned with a water jet. Do not position other electrical equipment in the immediate vicinity of the water cooler.

Turn off the main water inlet tap if the unit is not to be used for a long period.

Keep the areas surrounding the unit dry to avoid the risk of people slipping.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified person in order to avoid a hazard. Do not use extension leads or adapters.








This appliance is intended to be used by persons (including children aged from 8 years) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, provided that they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance. The appliance is only to be installed in locations where it can be overseen by trained personnel.

The Appliance shall be protected by a ground-fault circuit interrupter.

This equipment is to be installed in compliance with the local plumbing codes. Water pipe connections and fixtures directly connected to a potable water supply shall be sized, installed, and maintained in accordance with federal, state, and local codes.

In connection with the performance of work activities and the task of installation and maintenance of equipment, personal protective equipment shall be used according to the directions and obligations according to the current local regulations on safety in the workplace.

By way of example and not limited to:

TASK/ACTIVITY/AREA:	INDIVIDUAL PROTECTIVE EQUIPMENT:	SAMPLE IMAGE
FOR ALL OPERATIONS	Safety shoes	
USE OF CUTTERS OR OTHER CUTTING TOOLS	Cut-resistant protective gloves Safety glasses	 
MANUAL HANDLING OF LOADS	Shockproof and cut-resistant protective gloves	
HANDLING CHEMICALS:	Nitrile gloves Activated carbon filtering face mask Safety glasses	  

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Before installing the water cooler

Congratulations for choosing a BLUPURA product.

We have designed and manufactured this product with great care to ensure that it will dispense 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.

This publication is based on information available when approved for printing. Continuing design refinements could cause changes that may not be included in this publication.

The original text of this publication, written in Italian, is the only reference for settling any interpretative disputes regarding the translations of EU languages.

Blupura reserves the right to change or modify the stated features without prior notice.

Safety conditions

This manual contains paragraphs on security conditions, preceded by titles to draw ones' attention:



NOTE: *These titles are used to highlight important information regarding installation, operation and maintenance.*



ATTENTION: *These titles are used to indicate a hazard that may, if ignored, result in damage to premises and equipment or people.*



ATTENTION: *These titles are used to indicate the presence of flammable materials.*

Recommendations for safeguarding the environment

Packaging materials

The packaging materials are 100% recyclable.

Please follow the local guidelines on waste disposal. For safety reasons keep the packaging material out of the reach and sight of children.



Scrappage

The water cooler is made using recyclable material.



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. Immediately prior to scrapping, cut off the power cable.

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.

Information on the natural, eco-friendly refrigerant gas used in this cooler

This product contains no CFCs or HFCs, which contribute to global warming.

Indeed, it is the first water cooler on the market to use natural refrigerant.

The refrigerating system is filled with HC R600 - Butane (mod. 15): 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.

The refrigerating system is filled with HC R290 - Propane (mod. 45): 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.



Certified

For the list of product and company certifications contact Blupura Srl.

Materials compliant for contact with drinking water

This unit is intended for the dispensing of drinking water, and so the materials that enter into direct contact with water meet the criteria for food-grade components pursuant to the current legislation. In addition, the unit is manufactured in compliance with Italian Ministerial Decrees 174 of 06/04/2004 and 25 of 07/02/2012.

Electrical safety

This water cooler is designed, manufactured and marketed in compliance with:

- the safety objectives of the Machinery Directive 2006/42/CE;
- the protection requirements of the Electromagnetic Compatibility Directive 2014/30/EU.

The electrical safety of the product is ensured only when it is properly connected to an efficient, legally compliant grounding circuit.

Associations



International Awards

BEST MARKETING CAMPAIGN
BEST ENVIRONMENTAL PRACTICE
BEST PROMOTION OF HEALTH AND HYDRATION
BEST SERVICE PERSON
EUROPEAN AQUA AWARDS 2019, BERLIN

BEST WEBSITE
EUROPEAN AQUA AWARDS 2018, DUBLIN

BEST MARKETING CAMPAIGN
EUROPEAN AQUA AWARDS 2017, KRAKOW

BEST ENVIRONMENTAL PRACTICE/GREEN INITIATIVE
BEST PROMOTION OF HEALTH AND HYDRATION
EUROPEAN AQUA AWARDS 2015, ROME

BEST PROMOTION OF HEALTH AND HYDRATION
EUROPEAN AQUA AWARDS 2014, BUDAPEST

BEST PRODUCT INNOVATION
EUROPEAN AQUA AWARDS 2013, BERLIN

BEST ENVIRONMENTALLY FRIENDLY PRACTICE
EUROPEAN AQUA AWARDS 2012, ISTANBUL

Description of the unit

HYDRAZON - A new, high-quality product with state-of-the-art technology and cutting-edge design.



The main features of the unit are as follows:

- **Available in the following versions:**

Cold, ambient, sparkling and hot water (mod. Hydrazon Hot 15 Fizz);

Cold, ambient and hot water (mod. Hydrazon Hot 15);

Cold, ambient, mix semi-sparkling and sparkling water (mod. Hydrazon 15/45 Fizz);

Cold and ambient water (mod. Hydrazon 15/45).

- **DRY COOLING technology:** a noiseless, low maintenance and innovative system, allowing you to get great performances in a small size (Hydrazon 45)

- **Modern and compact design**

- No water and leakage alarm

- Energy Saving function available on models with hot water.

- Suitable to fill sport bottles, bottles and carafes

- Illuminated dispensing area.

- UV OUT system (optional)

Front view



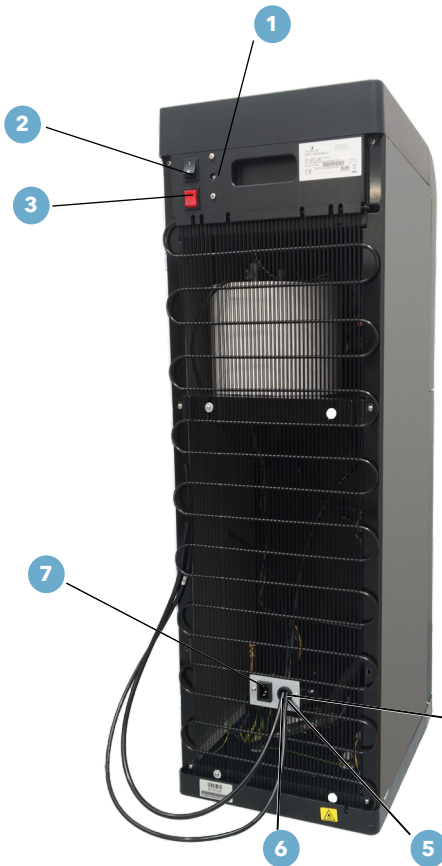
1 Dispensing buttons with led

3 Drip tray

2 Dispensing spout with lit area

4 Adjustable feet

Rear view



Mod. HYDRAZON 15



Mod. HYDRAZON 45

1 Adjustable chiller thermostat

2 General switch

3 Boiler switch (mod. Hot and Hot Fizz)

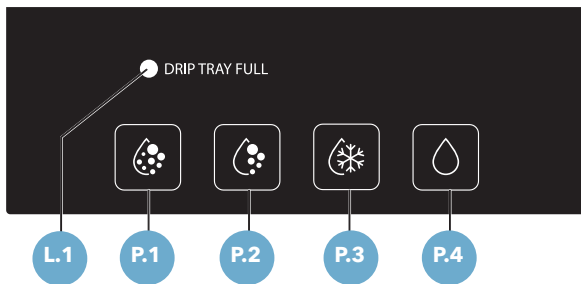
4 INLET water joint Ø8mm (5/16")

5 INLET CO₂ joint Ø8mm (5/16") (mod. Fizz and Hot Fizz)

6 RO drain hose Ø 1/4" (mod. Osmo)

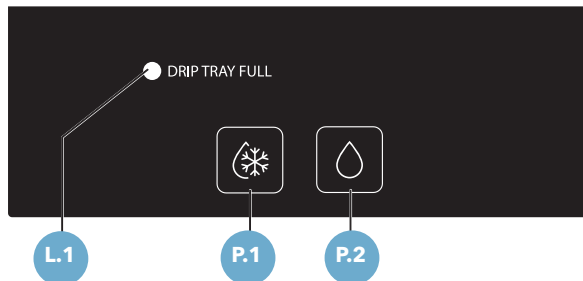
7 IEC power cord plug

Description of the keypad - Mod. Hydrazon 15/45 Fizz



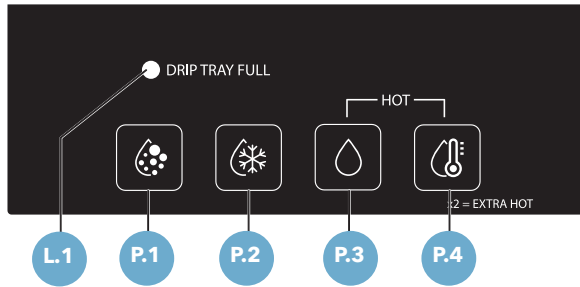
- P.1** Cold sparkling water button
- P.2** Cold mix semi-sparkling water button
- P.3** Cold water button
- P.4** Ambient water button
- L.1** Drip tray alarm

Description of the keypad - Mod. Hydrazon 15/45/Osmo



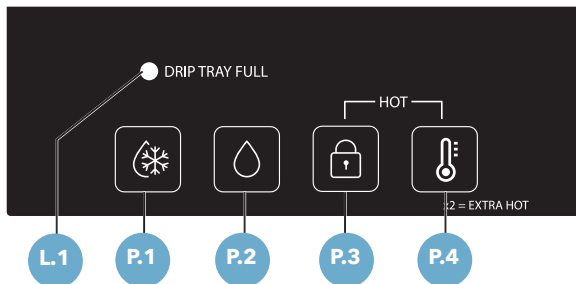
- P.1** Cold water button
- P.2** Ambient water button
- L.1** Drip tray alarm

Description of the keypad - Mod. Hydrazon Hot 15 Fizz



- P.1** Cold sparkling water button
- P.2** Cold water button
- P.3** Ambient water button
- P.4** Hot water button
- L.1** Drip tray alarm

Description of the keypad - Mod. Hydrazon Hot 15/Osmo



- P.1** Cold water button
- P.2** Ambient water button
- P.3** Hot water security button
- P.4** Hot water button
- L.1** Drip tray alarm

Water supply

Press the button for the desired type of water.



NOTE: When first turned on, press the dispensing buttons for a long time until you see the water come out to allow the complete filling of the 3 Lt cooling tank.

For safety reasons, to dispense hot water or extra hot water press button P4 (Hot water) and then button P3 (Ambient water - mod. FH or Hot Safety - mod. H), holding down both buttons at the same time. If only P4 button is pressed, P3 starts to flash to remind to press this button as well.



NOTE: Default set point for Hot Water is 85°C (185°F). The P4 button flashes slowly until the set point is reached and it remains on steady once the set point is reached. In Extra Hot mode the set point for the boiler is increased. Do not dispense hot water intermittently, but keep the buttons pressed until the glass is full.

Press twice the HOT button (P4) to enter in Extra Hot mode. The P4 button flashes quickly until the extra heating is complete. When the Extra Hot temperature is reached, buttons P4 and P3 start to flash at the same time.

After the delivery of extra hot water, the boiler set point automatically returns to the default value of 85°C. The unit returns to normal working mode even if hot water is not supplied within 60 seconds from reaching of Extra Hot temperature.

Functionality with alarms activated

Drip tray full

If the drip-tray is full, the tray-full light (P1) comes on and all of the buttons flash simultaneously. All dispensing operations are blocked. To re-set the alarm, empty the drip-tray and re-start the unit. For the model with 2 buttons, if the drip-tray is full the tray-full light (P1) comes on and all of the buttons are turned off. All dispensing operations are blocked. To re-set the alarm, empty the drip-tray without re-starting the unit.

Boiler temperature probe fault

If the temperature probe is disconnected or faulty, buttons P4 and P3 start to flash alternately, the boiler is switched off and the hot water supply is interrupted. To reset the alarm, reboot the unit after repairing the fault.

Boiler Fault

If the water in the boiler does not reach the set temperature, the HOT (P4) button is turned off and boiler functionality is blocked. All dispensing operations remain enabled. To re-set the alarm, re-start the unit after checking that the boiler switch is on (see page 24) and that there are no other boiler malfunctions.

Overheating of the boiler

If the temperature increases too rapidly, the boiler is turned off, the HOT (P4) button is turned off and button P3 flashes. No dispensing operations are blocked. For safety reasons, the alarm stays on until the boiler temperature falls below 30°C. To re-set the alarm, re-start the unit once the temperature has decreased sufficiently. Always check that the boiler is full of water.

Energy saving (mod. Hot and Hot Fizz)

The Hydrazon Hot models are equipped with an Energy Saving function that reduces energy consumption during periods of non-use.

By default, functionality turned off. To activate the function, press and hold buttons P3 and P4 for 5 seconds while switching on the machine. All keypad LEDs flash twice in succession. When the buttons are released, a further two flashes confirm the activation of Energy Saving. The selection is retained in memory even at the next machine restart.

To deactivate the function, press and hold buttons P3 and P4 for 5 seconds while switching on the machine. All keypad LEDs flash twice in succession. When the buttons are released, the LEDs remain lit.

With Energy saving active, after 3 hours of no water supply the boiler water is kept warm at a lower temperature and all keypad LEDs are off. By pressing a dispensing button, the buttons light up again and the boiler returns to normal operation at 85°C.

When the unit is in Energy Saving mode, all of the buttons are turned off, but if any alarm has been triggered, the electronic control system re-starts the unit and enables the relevant alarm to flash. To re-set the alarms, see the preceding sections.

Technical Features - Technical Data Plate



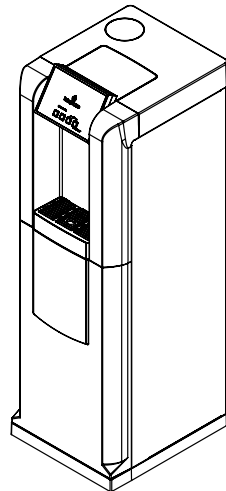
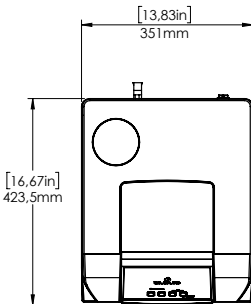
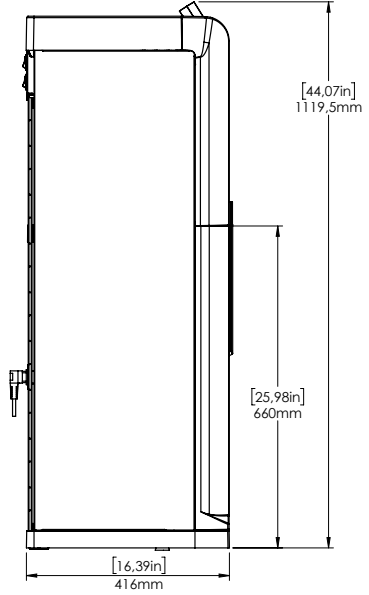
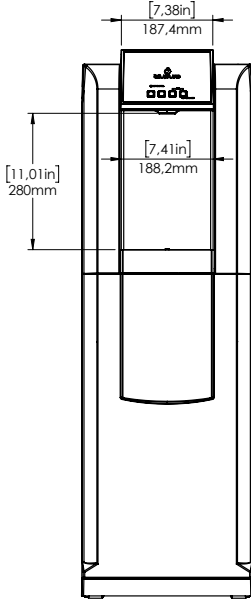
[mod. Hydrazon]

	Cadriano di granarolo dell'emilia (BO) Italy www.blupura.com
900736 HYDRAZON	CAT. 2105872
230V ~ 50 Hz 104 W 0,45 A Gas R600 : 40,000 g	
Max inlet water pressure 0,35 MPa (3,5 bar)	Class N
S/N 1804003025 	Made in Italy
 USE ONLY POTABLE WATER	 

18 Year of manufacture
04 Month of manufacture
003025 Serial number

Technical Features - dimensions (mm)

[mod. Hydrazon]



Technical Data Sheet	Hydrazon 15	Hydrazon 45	Hydrazon Hot
Cooling capacity	15 lt/h	45 lt/h	15 lt/h
Continuous supply	2 lt	12 lt	2 lt
Cold water temperature	5 - 12°C *		
Pump	Professional membrane carbonation pump		
Cooling system	Ventilated condensation		
Adjustable Thermostat	Yes		
Refrigerant gas	R600	R290	R600
Hot water tank capacity	-	-	1,5 Lt
Hot water temperature	-	-	85°C
Heater Power consumption	-	-	1000 W
Supply	230 V - 50 Hz		
Power	1/10 HP	1/5 HP	1/10 HP
Power consumption	180W - 1 A	300W - 1,3 A	1160W - 4,95 A
Inlet water joint	Ø8mm (5/16")		
Inlet CO ₂ joint	Ø8mm (5/16")		
Working room temperature	Min 16°C - Max 32°C		
Dispensing area height	280 mm		
Dimensions LxDxH (mm)	351 x 416 x 1120		
Packaging dimensions LxDxH (mm)	400 x 435 x 1157		
Net weight (kg)	24 Kg**	36 kg	29,7 Kg
Gross weight (kg)	26 Kg**	38 kg	32,4 Kg

* rated at a room temp. of 25°C and inlet water temp. of 20°C

** in models with optional RO, 1,9 kg must be added to the indicated weight.

For the technical data sheet of other models, examine the technical data plate attached in the unit

Installation

Unpacking

Cut the packing tab and pull up the cardboard box and the inner caps.

Once you have unpacked the unit, ensure that it is not damaged. You must inform the reseller about any damages as soon as possible after delivery.

If the unit has been shipped horizontally or at an angle, it will be necessary to wait at least 8 hours before setting it up, in order to allow the cooling circuit to reset itself.

Ensure that the unit is installed and connected to the main supply by a qualified technician in compliance with the manufacturer's instructions and the local safety guidelines..

The end user is not permitted to access the internal service parts of the unit. Only technical personnel should carry out operations of this nature.

Siting the unit

Wear safety gloves when handling the unit. The unit must be handled by two people. Site the unit away from sources of heat.

Do not place on inclined surfaces. Leave at least 10 cm around the unit to allow for aeration and check that the forced ventilation grid (1) is not obstructed.

SANITIZE the machine as described in the paragraph on page 35.



ATTENTION: *When positioning the appliance, make sure the power cord is not trapped or damaged.*



ATTENTION: *flammable material. The appliance contains flammable refrigerant gas.*

To open the front compartment, push the door down and pull the upper part of the door towards you.



Fig. 20.1



Fig. 20.2

Connection to the mains water supply

CAUTION!

To connect the water cooler to the mains water supply, you will need to use a new set of connectors (joints, gaskets and pipes).

Do not use a set of connectors that has already been used elsewhere.

The water pressure entering the unit must be between a minimum of 2,0 bar (0.20 MPa) and a maximum of 3,5 bar (0.35 MPa).

In Fizz models, to ensure proper operation and avoid damage to the pump, proceed to a periodic decalcification. It is recommended to decalcify the pump at least once a year or more frequently, based on the hardness of the inlet water or after a long period of inactivity, with a specific product suitable for plastic materials and light alloys and rinse thoroughly.

Check that the mains pressure is between 2 bar and 3,5 bar. To enhance the quality of the sparkling water dispensed, an incoming flow rate in excess of 3.5 l/min is recommended.

Connect incoming water joint Ø8mm (5/16") (1) to the drinking-water main, ideally with a tap upstream of the unit.

Connect the RO drain Ø1/4" (2) to a waste water manifold (only mod. with RO optional).

On HYDRAZON, you can connect the drip tray, provided closed, to a drainage pipe, by plunging it with a drill with a max. 7mm tip and inserting a pipe on the drain connection Ø10 (3) located behind the drip tray.

HYDRAZON is equipped with a safety valve.

Once the pipes are attached, turn on the tap. Ensure there are no leaks.

Before drinking the water from the system, perform a thorough rinse of the circuit by dispensing water from each product line.



Fig. 21.1

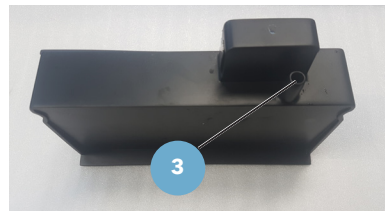


Fig. 21.2

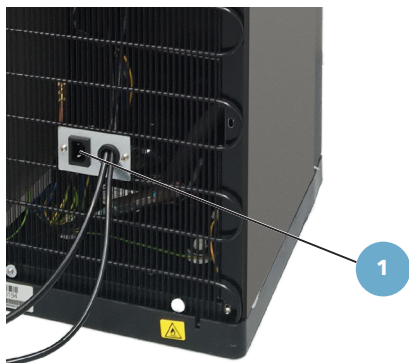


Fig. 22.1 - Mod. HYDRAZON 15

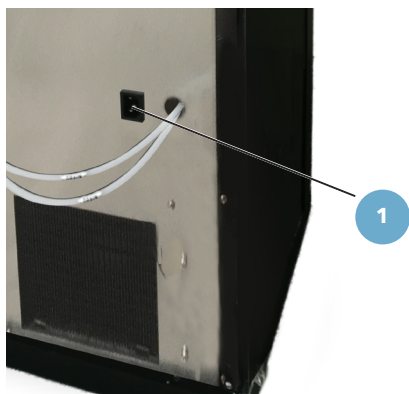


Fig. 22.2 - Mod. HYDRAZON 45

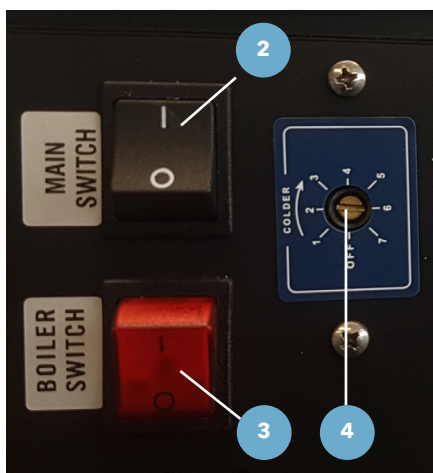


Fig. 22.3

Electrical connection

The connections must comply with local regulations.

The grounding of the unit is a legal requirement.

Connect the power cord to the IEC inlet (1) and to a socket. Position the electrical socket so that the appliance can be disconnected from the mains after installation.

Turn the unit on by selecting the "I" position on the main on/off rocker switch (2), making sure that the boiler switch is off (3, mod. Hot and Hot Fizz).

Press the "Sparkling Water" button (mod. Fizz and Hot Fizz) in order to release any air in the circuit and to allow the pump to fill the carbonator with water.

After around 1-2 minutes, the sparkling water pump stops.

The appliance is to be supplied through a residential current device (RCD) having a rated residual operating current not exceeding 30 mA.

Thermostat

To adjust the cold water temperature, act on the rear thermostat (4).

Turn clockwise to lower the water temperature. Turn counterclockwise to increase it.

In case of freezing of the hydraulic circuit, turn off the unit and keep it off for at least 12 hours.

Lower the thermostat at the next restart.

Turning on the boiler (mod. Hot and Hot Fizz)

Never turn on the boiler unless you have filled the machine with water.

Never turn on the boiler when the inlet water is disconnected.

At the first installation, dispense water from all the outlets to let the air out of the circuit and fill it with water. The operation may take several minutes. Turn on the boiler switch (1) only when you see water come out after you press buttons P4 and P3.



CAUTION!

Hot water reaches 85°C. Keep children away. Hot, boiling water and steam will scald if spilled on skin.

Do not touch the dispensing nozzle to avoid burns.

WARNINGS: The hot water set point is factory set at 85°C. As the evaporation point of hot water can vary based on the altitude at which the machine is installed, if steam is seen coming out of the spout, without hot water being supplied, it is necessary to lower the set point of the hot water thermostat. For this type of intervention and to receive operating instructions, contact the Blupura Customer Service.

To ensure proper operation and avoid damage to the installation, proceed to a periodic decalcification of the machine. It is recommended to decalcify the hot water system at least 2 times a year with a specific product suitable for plastic materials and light alloys and rinse thoroughly. More guidance on how to perform the descaling procedure will be provided in the **Descaling** section on page 37.

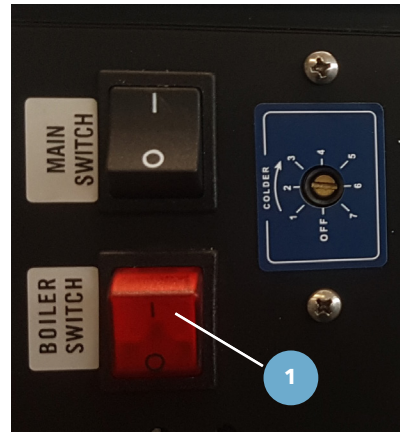


Fig. 23.1

Installation of the CO₂ cylinder (mod. Fizz and Hot Fizz)



Fig. 24.1



Fig. 24.2

Once the unit is connected to the mains water and electricity, you can install the E290 food-grade carbon dioxide (CO₂) cylinder.

Connect the CO₂ inlet tube (1) to the cylinder.

At the first installation, dispense water from all the outlets to let the air out of the circuit and fill it with water. The operation may take several minutes. The bottle can be opened only when you see the water come out of the dispensing nozzles.

To be sure to remove any air in the hydraulic circuit and to achieve a good level of carbonation, before opening the tap on the CO₂ cylinder pull the ring of the remote safety valve until water comes out of it.

Do not tamper with or unscrew the safety valve during the emptying operation. Once the ring is released, check that the valve has closed properly and that there are no leaks.

It is possible to insert a CO₂ bottle in the front compartment with MAX dimensions Ø 10x40 cm (2). To open the front compartment, push the door down and pull the upper part of the door towards you.

On request, a CO₂ pressure reducer with its cylinder to assemble outside the machine can be supplied.

When the cylinder is open, to increase or decrease the level of carbonation of the water, you need to adjust the screw on the pressure reducer. Turning it clockwise increases the level of carbonation. It is recommended that you do not exceed 4 bar of pressure.

To achieve a good level of carbonation, you need to wait until the water is sufficiently cold - i.e. at least one hour after installation.

CAUTION!

The CO₂ inlet pressure to the machine must be set at 3.5-4 bar and to obtain optimal carbonation it must be 1 bar higher than the water inlet pressure to the system.

Handling the gas cylinders

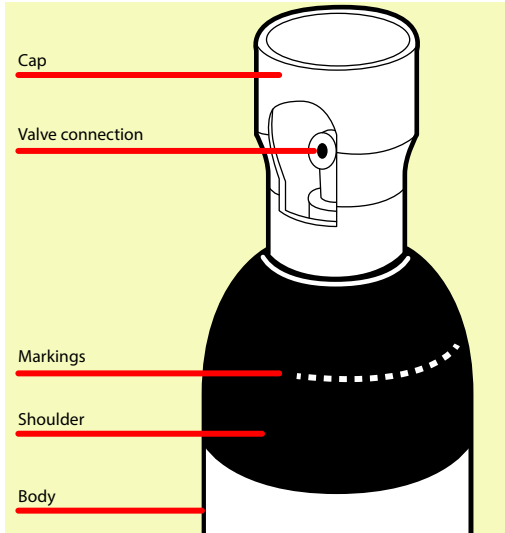
All of the cylinders must be fitted with a valve protector cap, which must be on tight at all times when the cylinder is not in use.

The cylinders must be handled with care. It is essential to avoid: clashes with other cylinders or surfaces; dropping the cylinders; or subjecting them to mechanical stress. All of the above may compromise their integrity and resistance.

The cylinders must not be lifted by the cap, or dragged, rolled or slid along the floor. Even if only being moved for short distances, an appropriate hand cart or other suitable means of transport should be used.

Do not use magnetic lifters or slings with ropes or chains to lift the cylinders. If the cylinders are to be lifted with cranes, hoists or fork-lift trucks, ensure that appropriate cages, metal baskets or pallets are used.

The cylinders must not be moved or handled with greasy hands or gloves. This is particularly important in relation to cylinders containing oxidising gases.



**** Replacement of the CO₂ cylinder. All of the operations must be carried out exclusively by qualified technical personnel. To view the video tutorial, scan the QR code.***



**** Suggestions for optimal carbonation. All of the operations must be carried out exclusively by qualified technical personnel. To view the video tutorial, scan the QR code.***

Filtration (optional)

Blutron Filters

Upon request, the machine can be equipped with a Blutron filter.

Blupura presents its line of high-performance made in Italy filter cartridges.

Five types of filtration to satisfy every specific need related to mains water:

- Shield
- Ultra
- Ionic
- Micro
- Block



The nominal filtration capacity goes from a minimum of 5 micron up to 0.1 micron, reaching the ultra-filtration level.

The Blupura CarbonBlock is the fundamental component of every filter. It is made with the best plant-based activated carbons of European origin, which are selected and extruded creating a unique and compact filtration "block". The production process is controlled, from the incoming charcoal to the final organoleptic and microscopic tests, to guarantee a high quality product with consistent performance.

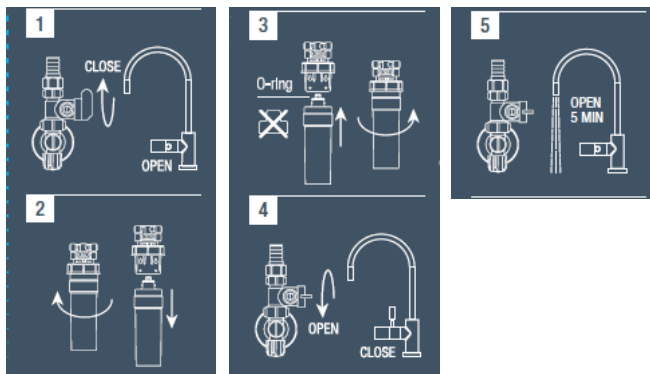
The Blutron Filters reduce the content of chlorine, organic compounds and any unpleasant odours and flavours from drinking water.

When dealing with Hot water, Blupura water dispenser can be equipped with Blutron Ionic, that, through the use of buffered weak cationic resin, reduce the water temporary hardness and preserves the boiler from limescale.



CAUTION: When first installing, follow the instructions on the filter label. It is advisable to replace the filter cartridge either at the end of its nominal autonomy or in case of reduced water outlet flow, and in any case within 1 year of installation.

Cartridge replacement instructions



Sterilization (optional)



Sterilizing UV LED OUT

Alongside the carbon filter, it is also possible to have your water cooler fitted with a UV-C Led Out 4W ($\lambda=254$ nm) sterilizing filter on the dispensing point to avoid backflow contamination.

The LED turns on cyclically every 5 minutes and stays on for 1 minute.

The UV-C light emitted by the special 4W led is lethal for all microorganisms (bacteria, viruses, mould, algae, etc.); for this reason, water treated with the UV-C sterilizer will be microbiologically pure.

TECHNICAL PROFILE

- Material AISI 304 and quartz tube
- Power rating 24vac
- Power consumption 4Wh
- Maximum capacity of the lamp 8000 h.

Installation procedure

1. Disconnect the unit from the power supply.
2. Remove the cover of the unit.
3. Disconnect the power connector of the UV OUT lamp.
4. Unscrew the 2 screws of the solenoid valve bracket.
5. Remove the UV OUT lamp by pressing the quick coupling.
6. Insert the new lamp, being careful not to damage it.
7. Restore the connections and the parts removed.



CAUTION: *This appliance contains a UV ray emitter. Do not stare into the light source. The light emitted by the lamp may cause serious burns to the eyes and skin. Do not operate UV-C emitter outside the appliance. Do not operate the UV-C emitter when it is removed from the appliance enclosure. The replacement can only be performed by qualified personnel.*

Replacement

For information on replacing the lamp, contact Blupura Customer Service.



Important safety instructions

Unintended use of the appliance or damage to the housing may result in the escape of dangerous UV-C radiation. UV-C radiation may, even in little doses cause harm to the eyes and skin. Appliances that are obviously damaged must not be operated.

Disposal of used UV OUT lamps

The UV lamps are subject to WEEE Directive 2012/19/UE. This allows the disposal of the lamps at a local waste management site. This way of disposing is completely identical to the disposal of neon lamps or energy-savings lamps. These lamps are nevertheless registered under the same conditions as the disinfection lamps.

Reverse osmosis water treatment (optional)

Hydrazon 15 can be equipped with a reverse osmosis water treatment system (optional).

DESCRIPTION OF THE COMPONENTS

Turbidity (cloudiness) filter

The turbidity filter is used to trap substances such as sediments, rust, incrustations, dirt, extra-fine sand, which could damage the other components of the system.

The regularity of substitution depends on the quality of the water; please refer to the operating limits and properties of the water to be treated, and to the chapter on the maintenance of the system.

Active carbon filter

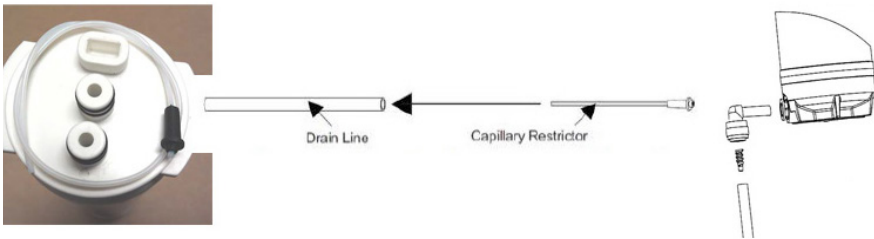
The active carbon filter reduces unpleasant odours and flavours, along with chlorine, which could damage the osmotic membrane. It must be replaced regularly to prevent the osmotic membrane from perishing. Duration of the filter: 18900 litres. The regularity of substitution depends on the quality of the water; please refer to the operating limits and properties of the water to be treated, and to the chapter on the maintenance of the system.

Osmotic Membrane

The osmotic membrane reduces the TDS level and removes unwanted substances. The material used to make the membrane is very sensitive to chlorine attack. The active carbon filter must be regularly replaced to avoid the premature ageing of the membrane. The osmotic membrane must not be exposed to frost, as this would damage it.

Outlet flow control

The outlet flow control regulates the outlet flow. It is positioned at the base of the R.O. membrane.



Shut-off valve

The shut-off valve automatically stops the flow of water through the R.O. system when the tank for the water produced by the system is full.

Storage tank

The storage tank collects the water produced by the R.O. system. A compressed-air diaphragm forces the water towards the dispensing tap. The optimum pre-loaded air pressure is 0.5 bar.

ASSEMBLY PREPARATIONS

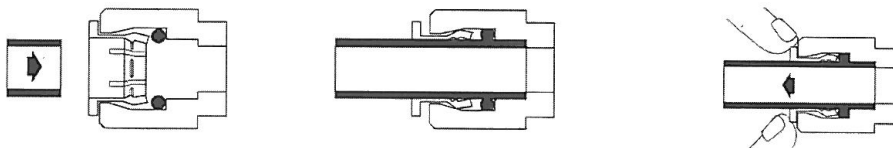
To facilitate a rapid, hassle-free installation, it is important to ensure that the technician carries out a preliminary check on the components. Cleaning is essential when preparing to assemble the unit. Wash your hands prior to handling the filters. Rubber gloves should be used.

Connecting the tubes

The system allows tubes to be connected simply by applying pressure. The tubes can be connected and disconnected easily by complying with the following instructions:

Connection:

- Cut the tube using tube-cutting pliers. Take care not to squash the tube. To avoid leakage, ensure that the end of the tube is smooth and free from flaws and abrasions.
- Lubricate the end of the tube with water or liquid soap, then push the tube forcefully into the connector. Avoid bending the tube excessively.



Disconnection:

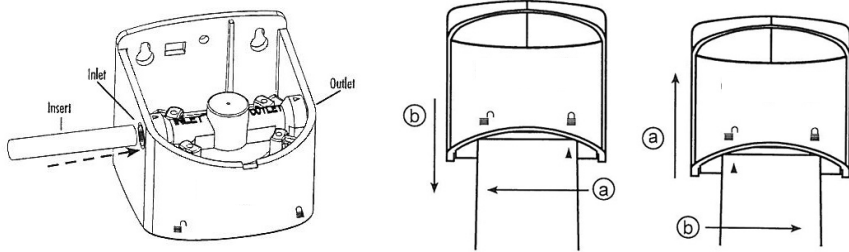
- Hold the collar against the body of the connector and pull the tube. If the connector is leaking, remove and cut the tube again. Check that the connector is free from foreign bodies and that the O-Ring is not damaged.
- Reconnect the tube. The pressure connectors attach to the external diameter of the tube.

PREPARATION OF THE FILTERING SET

Turbidity filter

The filter for the removal of turbidity must be rinsed carefully to remove any dust that has remained in the fibre of the wound wire, which could block the carbon filter and the osmotic membrane. For this procedure, it is necessary to use the single-head collection unit to wash the filtering cartridges, supplied with the system.

1. Install the filtering element in the single collection unit for the washing of the filters.
Turn the cartridge anti-clockwise to lock it into its housing.



2. Connect the inlet (IN) of the service container to a source of clean, filtered water.
3. Connect the outlet (OUT) of the service container to an appropriate outlet.
4. Open the filter slowly and wash it for 2 minutes. Turn the water supply on and off several times to facilitate rinsing.
5. Remove the filtering cartridge from the service collector, turning the cartridge clockwise, and remove it from its housing. Position it in the collector, and after inserting it into its housing, turn the cartridge anti-clockwise to lock it in position.

Active carbon filter

The active carbon filter must be rinsed carefully. For this procedure, repeat the operations carried out for the washing of the turbidity filter. At the end of the operation, remove the active carbon filter from the service collector and put it back in the system, positioning it immediately after the turbidity filter. Having placed it in its housing, turn the cartridge anti-clockwise to lock it in position.

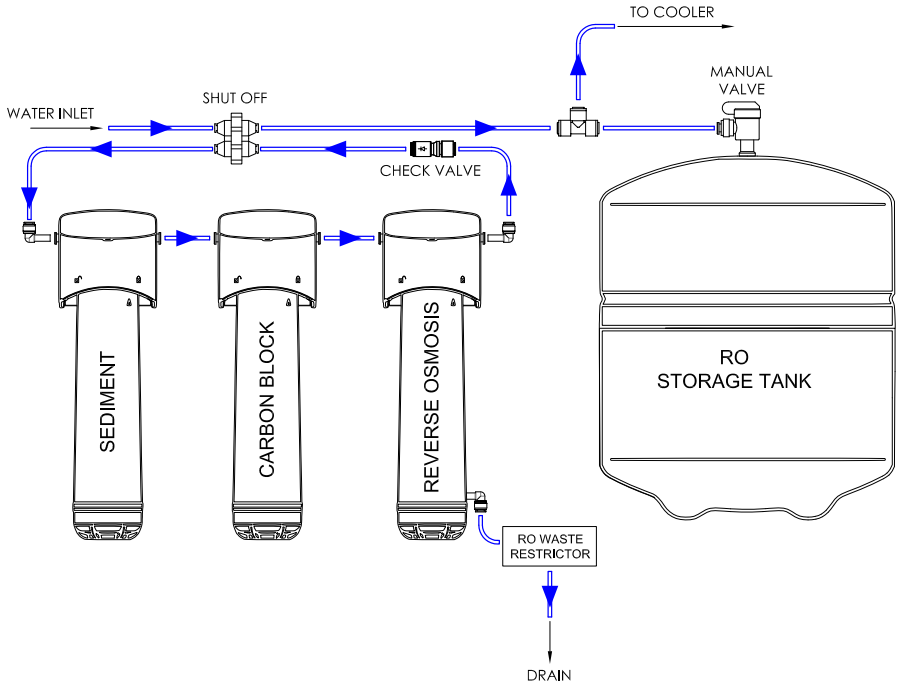
Osmotic membrane

The osmotic membrane must be positioned immediately after the active carbon filter. After having placed it in its housing, turn the cartridge anti-clockwise to lock it in position. Check that the connector that connects to the outlet is not obstructed. Before connecting the outlet tube, mount an appropriate flow control for the adjustment of the flow.

Storage tank

Check the air pre-loading of the storage tank, the recommended loading pressure is between 0.5 and 0.7 bar. The capacity of the storage tank decreases as the pressure increases. Adjusting the air-loading pressure of the storage tank changes the quantity of water stored: reducing the air pressure increases the amount of water that can be stored in the tank, reducing in that case the outlet pressure of the water at the dispensing tap; conversely, increasing the air pressure reduces the amount of water that can be stored in the tank, thus increasing the outlet pressure of the water at the dispensing tap.

Installation diagram



LIMITS OF USE

The system has been conceived for use with drinking water that falls within the limits set out in the following table:

Properties of the water to be treated:	
Pressure	3 - 6.0 bar
Temperature	1-38 °C
TDS	<1000 ppm
pH	6,5 - 9,5
Chlorine (1)	0-1 ppm
Chloramine	0-3 ppm
Turbidity	0-5 NTU
Iron	0-0,2 ppm
Bacteriological properties	potable

The system must be installed on the cold-water mains. If the system is equipped with the Osmosis feature, the reject water mains must be connected to an outlet.

The installation must be carried out by qualified personnel, in compliance with best practice and with Italian Ministerial Decree No. 37/08.

(1) The osmotic membrane used in the system is damaged by chlorine. For this reason, the system includes an active carbon filter that protects this component, eliminating chlorine. The chlorine in the water to be treated must not, in any case, exceed 1 ppm.

Bluprotection (optional)

DESCRIPTION

Bluprotection is a registered trademark of Blupura Srl.

This procedure has been developed to ensure that the unit retains an appropriate quantity of micro-organisms during the phases when it is no longer under the direct control of the manufacturer (i.e. transport and storage).

The procedure envisages the use of a registered substance - compliant with EU BPR biocides regulation 528/2012/EC on drinking water - as a preservative during storage. The unit's hydraulic system is refilled using this solution at the end of the manufacturing process to ensure that it retains the appropriate characteristics for use.

Before using the unit to dispense drinking water, it is essential to carry out the following procedure directly at the installation site.

The person who carries out this operation must have access to this procedure and must be fully trained on the risks relating to electrical devices and on personal protection equipment, insulating equipment and devices for protection against electric arcs.

PHASES OF THE PROCEDURE

1. Ensure that the mains water is suitable in hygienic/sanitary terms.
2. Attach the unit to the mains, plug it in and turn it on.
3. Remove the safety sticker that states "ATTENTION: BEFORE THE FIRST DISPENSING, RINSE ACCORDING TO THE PROCEDURE DESCRIBED IN THE MANUAL".
4. If the unit is equipped with a filter and an internal filter head, insert an empty filter cartridge or bypass the head.
5. Run water through all of the dispensing outlets for a sufficient length of time to dispense 50-60 litres per outlet. The solution dispensed must be disposed of in accordance with applicable local legislation.
6. In the case of internal filtration, install the filter cartridges and, if carried out at point 4, reconnect the head. Check that the parameters of the water at the inlet and outlet are suitable for drinking water.
7. Run another 10 litres of water through each outlet.

Until the aforementioned procedure has been completed, the unit is not ready for the intended use for which it has been designed and manufactured.

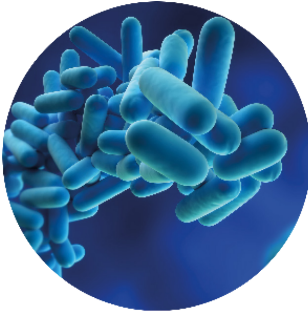


ATTENTION!

Although the preservative solution utilised in the unit is suitable for use with drinking water, it should not be consumed. Please adhere fully to the instructions set out in the procedure above and take care not to drink any water dispensed prior to the completion of the stated operations. The unit is considered ready for its intended use only after successful completion of this rinsing procedure.



Sanitization - Notes





The unit should be sanitized at first installation, or when the hydraulic components are being replaced, or when the filter is being changed, or in any case at least once a year.

This operation must be carried out by the BLUPURA Reseller or by qualified technical personnel who have completed specific training courses on hygiene and sanitization.

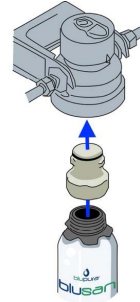
Cleaning- and disinfection cartridge for water dispenser

- perfect hygiene, developed for water dispenser
- pH-neutral and gentle on materials
- simple and safe unit cleaning

<p>1</p>	<p>DISMOUNT FILTER</p> <p>Loosen the lock of the filter head and remove the filter.</p>	
<p>2</p>	<p>DISINFECT HANDS</p> <p>Place the enclosed spray head on the can and disinfect your hands or wear disposable gloves.</p>	

MOUNT CARTRIDGE

- 3 Snap the adapter into the QL2B/QL3B Everpure filter head, then screw in the blupura®blusan cartridge.



CLEANING AND DISINFECTION

- 4 Dispense one after the other:
- Room temperature water: approx. 2 sec.
 - Cold still water: approx. 10 sec.
 - Sparkling water: approx. 30 sec.



Always check with the chlorine test strip. Contact time: 30 min.

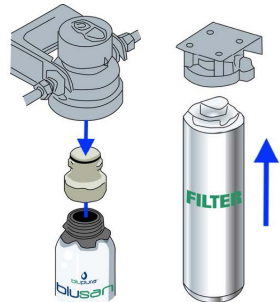


REMOUNT FILTER

- 5 Loosen the blupura®blusan cartridge, remove the adapter, then insert a new filter.







Spray the filter head.



RINSING

- 6 Rinse one after the other:
- Room temperature water: approx. 1 min.
 - Cold still water: approx. 3 min.
 - Sparkling water: approx. 6 min.



<p>7</p>	<p>DISPENSING AREA CLEANSING</p> <p>Spray the nozzles, back wall and drip tray with blupura®blusan.</p> <p> Don't wipe again the nozzles. Dry the surfaces with a disposable cloth.</p>	
<p>8</p>	<p>RECOMMISSIONING</p> <p>Function control: Draw small amount of water from each tap and check the taste.</p> <p> Document the cleaning.</p>	

* Photos for illustration purposes only.

Descaling

It is mandatory to install a descaling system to protect the boiler (SOFTENER OR LIMESCALE INHIBITOR) and to carry out periodic replacement at the end of the filtration capacity, taking into consideration the quality of the incoming water and the manufacturer's instructions.

It is mandatory to decalcify the hot system at least 2 times a year to guarantee the operation of the boiler.

Routine maintenance operations

Customer Service & Technical Dept.

All the operations must be carried out exclusively by qualified technical personnel.



It is recommended to use suitable gloves to perform mechanical operations.



It is advisable to use hygienic gloves to perform interventions on the hydraulic system.

Following maintenance operation must be done by qualified technical personnel

WHAT	WHEN	HOW
Sanitization of the system	1) At first installation 2) Any time a hydraulic component is replaced 3) Any time a filter cartridge is changed 4) At least once per year	Sanitization of the complete hydraulic circuit following the Blupura BLUSAN procedure
Replacement of consumables	Depending on the filtration capacity and once per year at least	After the sanitation, replace the cartridge following the instruction manual provided by the water filter supplier
Cleaning and control of internal parts	Every 6 months	Control and eventually remove accumulation of dust, sand or similar, with a disposable cloth or a vacuum.
Cleaning of Refrigeration condenser	Every 6 months	Remove dust from the refrigeration condenser with a plastic brush
Water analysis	Every year	Check the bacteriological parameters to verify that the water's quality complies with current regulations
Hot water system descaling	Depending on the hardness of inlet water and at least twice per year.	Provide the descaling of the hot water system.

Following maintenance operation must be done by trained personnel



It is recommended to use hygienic gloves to perform cleaning operations

WHAT	WHEN	HOW
Cleaning of the external shell	Every Day	Clean by hand with a disposable towel and a product suitable for the stainless steel (e.g., anti-limescale)
Exit nozzle sanitation	Every Day	Use the BLUSAN (or equivalent) spray bottle to spray the disinfectant solution directly into the spout. Let the solution react for 1 minute, then rinse with potable water.
Flushing	In case of non-use of the system for over 48 hours	The End User shall flush at least half a liter of cold and half a liter of ambient water before getting drinking water.
Flushing	In case of non-use of the system for whatever reason for a period of less than two weeks	The End User shall flush at least 5 liters of cold and 5 liters of ambient water before getting drinking water.
Flushing	In case of non-use of the system for whatever reason for a period of over two weeks	The End User shall contact Blupura in order to arrange a sanitization as soon as possible before getting drinking water.
Stop the system	In case of lack of potable water	The End User shall immediately switch off the hot water switch button (red push button). Before switching back on the hot water switch button (red push button), the End User shall verify - only using the cold or ambient water line - that the water is restored to the System by flushing it.

Warranty conditions

This unit is guaranteed by BLUPURA for a period of two years from the date of purchase.

The warranty entitles the owner to the free-of-charge repair of the unit by our company or the free-of-charge replacement of any parts that have been shown to have manufacturing defects.

The warranty does not include normal wear-and-tear to the components, or any damage caused to the components due to negligent or improper use, or due to a non-standard installation.

The warranty shall not be applicable if the unit has been tampered with or if repairs have been carried out by unauthorized persons.

For the conditions not specified here, please refer to the Blupura Srl WARRANTY CONDITIONS.

For any returns or repairs, please contact CUSTOMER SERVICE and request the RMA for returning the goods.



Cool, yes we are.

Blupura srl

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