



blupura



Use & Maintenance Manual

160786 0520 EN



HYDRAZON



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

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



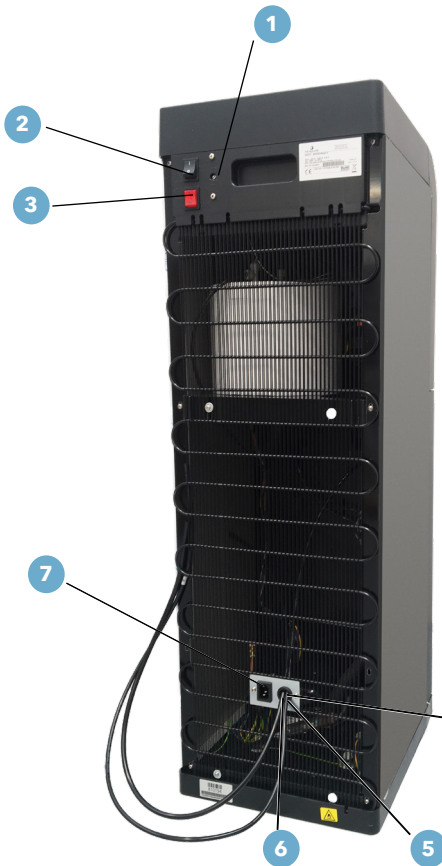
1 Dispensing buttons with led

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)

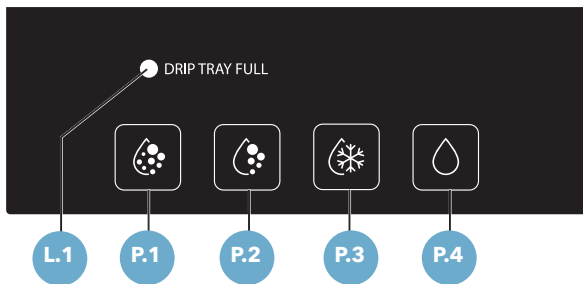
4 INLET water joint Ø8mm (5/16")

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

6 RO drain hose Ø 1/4" (mod. Osmo)

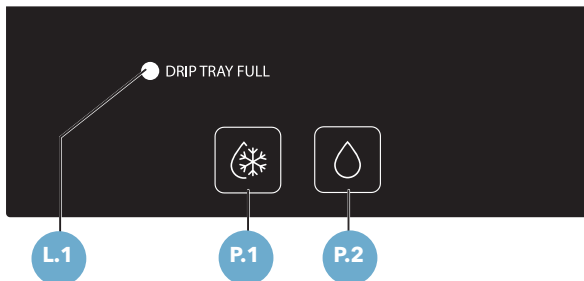
7 IEC power cord plug

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



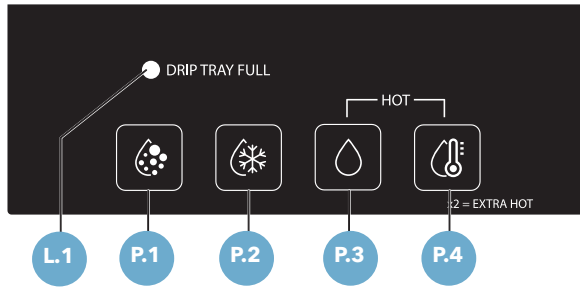
- P.1** Cold sparkling water button
- P.2** Cold mix semi-sparkling water button
- P.3** Cold water button
- P.4** Ambient water button
- L.1** Drip tray alarm

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



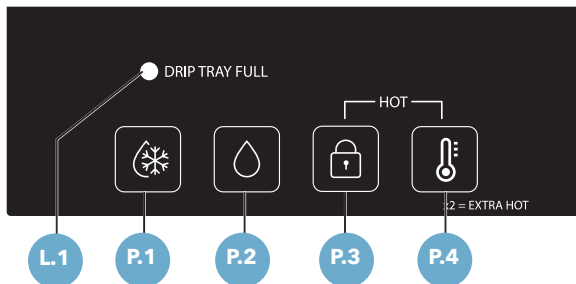
- P.1** Cold water button
- P.2** Ambient water button
- L.1** Drip tray alarm

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



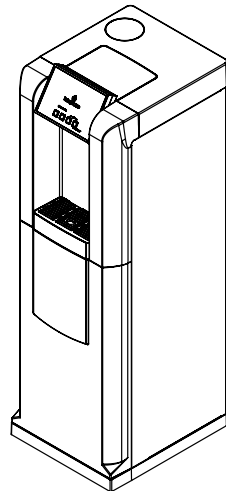
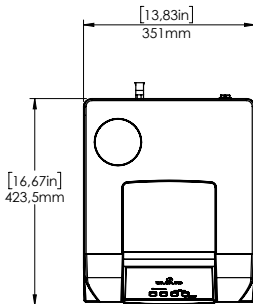
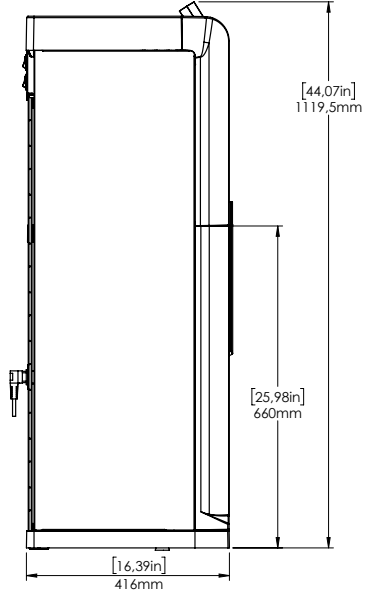
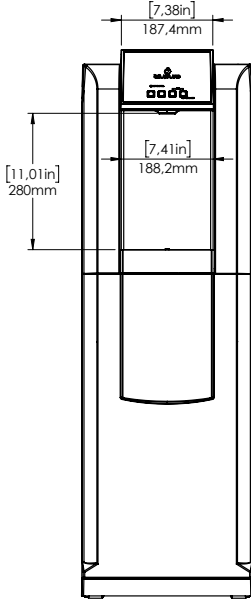
[mod. Hydrazon]

	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 $\varnothing 8\text{mm}$ (5/16") (1) to the drinking-water main, ideally with a tap upstream of the unit.

Connect the RO drain $\varnothing 1/4"$ (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 $\varnothing 10$ (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

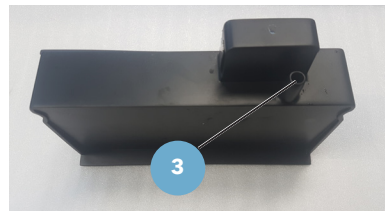


Fig. 21.2

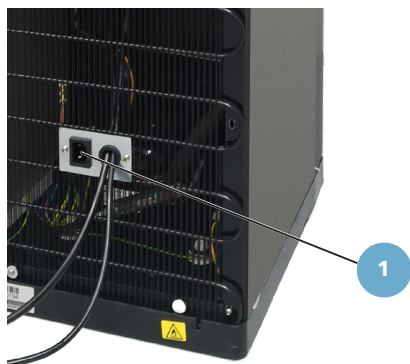


Fig. 22.1 - Mod. HYDRAZON 15

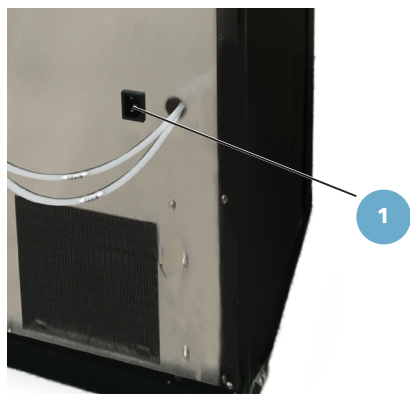


Fig. 22.2 - Mod. HYDRAZON 45

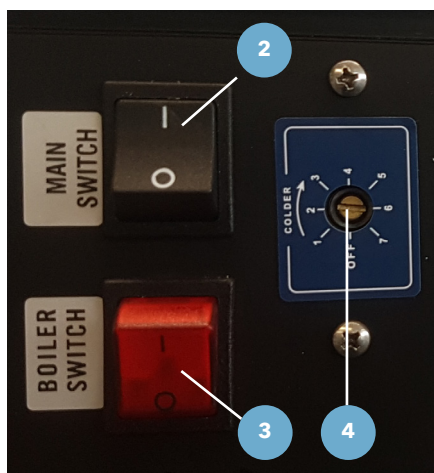


Fig. 22.3

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.

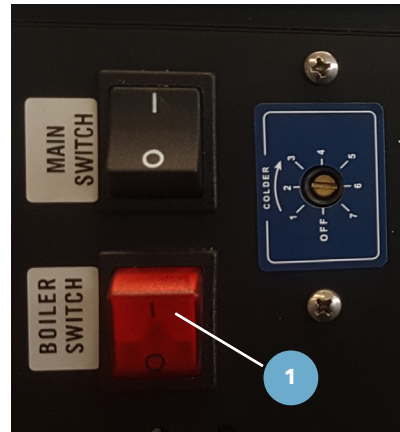


Fig. 23.1

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

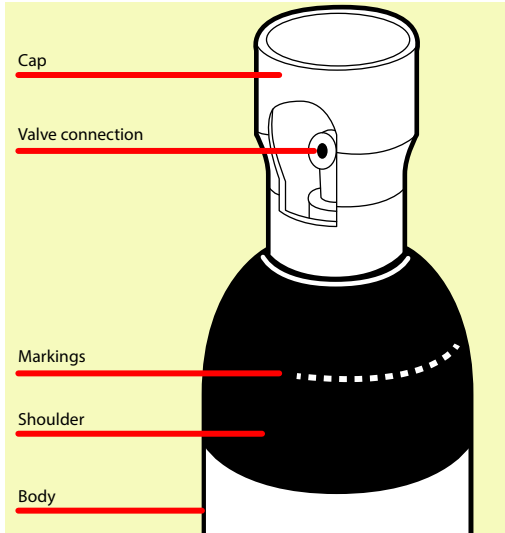
All of the cylinders must be fitted with a valve protector cap, which must be on tight at all times when the cylinder is not in use.

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.***