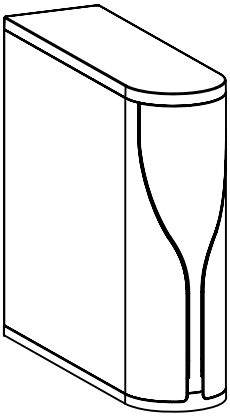
ATOM



UM

User manual

UM

INDEX

1. FEATURES MAIN

	**Inline treatment. Adaptability and hygiene**
	**Hydrogen cell monitoring**
	**Automatic maintenance notice**
	**PEM membrane**
	**Ozone neutralizing filter**
	**ECO standby mode**

2. INTRODUCTION

Congratulations.

You have acquired an excellent unit to treat water for human consumption, which increases the concentration of dissolved hydrogen in the water, thus reducing the ORP level.

What is Hydrogen?

Hydrogen is the chemical element with atomic number 1. It is the lightest of the elements and the most abundant in the universe, although not on Earth. Hydrogen is quite common in nature in combination with others such as oxygen, carbon, or nitrogen (it is part of water, the human body, animal, and plant organisms, etc...).

What is the Oxide Reduction Potential (ORP) of water?

The ORP measures the tendency of water and its compounds in solution, to produce oxidation (positive potential) and / or reduce (negative potential).

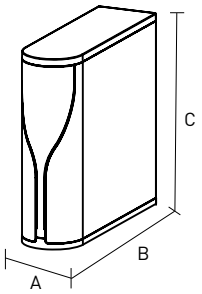
What is hydrogen water?

Hydrogenated water or water enriched with hydrogen, is a water in which the concentration of Hydrogen gas has been increased, acquiring an antioxidant (or reducing) character, reducing its original ORP.

3. TECHNICAL CHARACTERISTICS

Dimensions (A x B x C):	225 x 405 x 395 mm
Power supply: Water to be treated:	DC 24 V / 5 A Chlorine-free water, osmotized or equivalent.
ENTRADA	
Presión de entrada (mín. – máx.):	1 bar – 3 bar
Temperatura de entrada (mín. – máx):	5ºC – 35 ºC
Salinidad de entrada (mín. – máx):	10 ppm - 150 ppm
Dureza de entrada (máx):	10º HF
SALIDA	
ORP:	-500 mV - 700 mV^*
[H2]:	800 ppb - 1300 ppb*

* Depending on the characteristics and conditions of the inlet water.



DISTRIBUTED BY:
WLG
Pol. Ind. L'Ametlla Park. C. Aiguafreda, 8.
08480 L'Ametlla del Vallès. Barcelona (Spain)
T. 902 305 310 / +34 936 934 300 F. +34 936 934 329

4. 4.UNPACKING AND VERIFICATION OF CONTENTS

It is important that before installation and start-up you check the packaging and the condition of the equipment, to guarantee that it has not suffered damage during transport.

Claims for damage during transport: They must be presented together with the delivery note or purchase invoice to your distributor, attaching the name of the carrier, within a maximum period of 24 hours after receipt of the equipment.

Unpack the equipment and its accessories from their packaging, removing the corresponding protections.
The materials used in the packaging are recyclable. and must be disposed of in the appropriate separate collection containers or in the specific local centre for the recovery of waste material.

This product cannot be disposed of with the usual urban waste. When it is desired to discard the equipment, it must be delivered to the company or centre where it was purchased or to the specific local centre for the recovery of materials, indicating that it has electrical and electronic components.

The correct collection and treatment of useless appliances contributes to preserving natural resources and also to avoid potential risks to public health.

! Caution: remove or keep out of the reach of children plastic bags and small items, which could be a danger to them

5. PRIOR WARNINGS

! Attention: Read this manual carefully before installing and using your equipment.

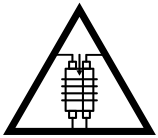
! Attention: These units ARE NOT WATER POTABALIZERS. They should not be used with water of unknown origin and / or that does not comply with the potability requirements demanded by the European directive 98/83 and / or RD 140/2003.

! Attention: these water treatment systems require periodic maintenance, carried out by qualified technical personnel, in order to to guarantee the quality of produced and supplied water.

5.1. APPLICATION, INSTALLATION AND START-UP WARNINGS

• Its application as post-treatment of a domestic water treatment system is recommended. through reverse osmosis with pressurized tank (max. accumulation pressure in the tank 2.5 bar).

! Attention. In case of treating water from a unit through reverse osmosis, with a pressurized accumulation tank and a mechanical shut-off valve control system, the water accumulated in its tank may be pressurized at a pressure greater than 3 bars (depending on the pressure of the installation). Then a pressure limiter set at 3 bars must be installed at the entrance of the hydrogenator equipment.



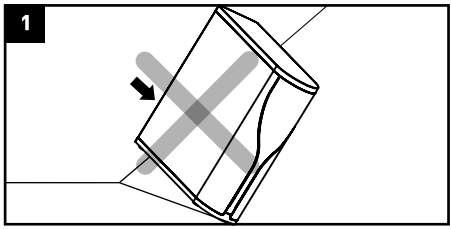
• The equipment must be fed with osmotized water or similar characteristics, between 10 and 150 ppm, dechlorinated and decalcified.

• If the equipment is supplied with hard or not softened water, it may lead to a substantial reduction in the service life of certain components of the equipment, which may cause premature failure.

! Attention: The maximum inlet water pressure to the equipment is 3 bar. Install at the equipment inlet a pressure regulator set at less 3 bar, if necessary.

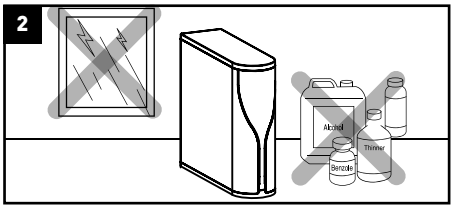
• The Equipment needs a power outlet less than 1 meter away.

! Attention: Do not install the equipment lying down, or in inclined or unstable places. Doing so may cause the unit to malfunction or fall. (1)



• The place planned for its installation must have enough space for the appliance itself, its accessories, connections and for convenient maintenance.

• Under no circumstances should the equipment be installed outdoors, or in places where they receive direct sunlight. Do not install the equipment in humid places or near flammable products (2).



• The equipment should not be installed next to a heat source or receiving a flow of hot air directly over it (dryer, dishwasher, refrigerator, heater, boiler, etc).

• The equipment should not be installed in front of a refrigeration or air conditioning system.

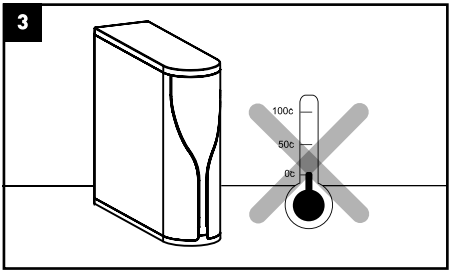
• The equipment should not be installed near a heater or boiler that works with a flame.

• The environment where the equipment and tap are installed must meet adequate hygienic-sanitary conditions.

• Avoid external dripping on the equipment from pipes, drains, etc.

• For the first use, open the equipment with the water to be treated before powering the equipment.

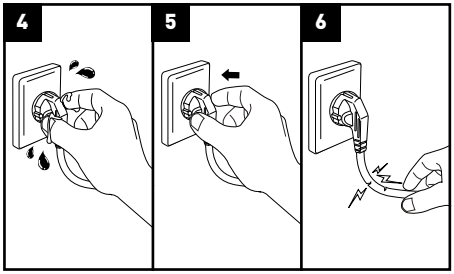
• The equipment must not be installed in places where the ambient temperature can drop below 5ºC, as the water contained could freeze and cause damage to the product (3).



• Do not handle the electrical connectors of the equipment with wet hands. There could be a risk of electric shock (4).

• Insert the plug firmly. An unsafe connection made improperly could cause a fire (5).

• Do not pull the power cord to disconnect it from the plug, as this may cause fire or electric shock (6).



5.2. USE WARNINGS

• When you are going to be away for more than a week, drain the equipment and isolate it.
To do it, turn off the hydraulic water supply to the equipment, open the dispenser tap and when water stops coming out of it, turn off the power supply to the unit (turn off the switch on the back of the equipment).

• When you return, connect hydraulically and electrically and the equipment discard 5 litres of water before consumption.

! Attention: after a prolonged period (more than a month), in which the equipment has been found not working or dispensing water, contact your dealer or Technical Assistance Service in order to carry out proper cleaning and maintenance.

• Remove full jugs or bottles, thus avoiding the occasional extraction of small quantities, in order to optimize the performance of the equipment.

• After several hours of standing and depending on the distance between the equipment and the tap, the first glass of water dispensed could contain a lower dissolved hydrogen concentration than that provided by the equipment in its normal way of functioning. Throw away the first glass of water after a few hours of being stopped.

! Attention: Special attention must be paid to the cleanliness and hygiene of the dispenser tap, regularly and especially at the moment of carrying out periodic maintenance. In no case should you use a cloth to dry your hands or multipurpose cloth used for cleaning in the kitchen.

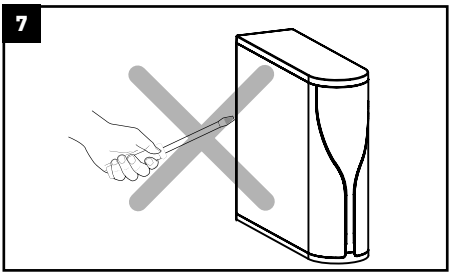
• Do not drink directly from the dispensing tap or rest the bottle or container on the tap or dispenser.

• After start up, drain 5 litres before consuming the water.

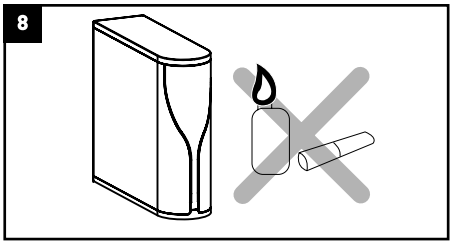
• Do not use continuously for more than 30 minutes, as certain components could overheat.

• The equipment should not be fed with hot water.

• Do not attempt to disassemble, repair, or modify the equipment after any equipment failure. Maintenance and repair must be carried out by trained personnel (7).



• Do not leave cigarettes or flaming products on the equipment, as they could cause a fire (8).



• Before moving the equipment, empty it. To do this, open the tap, disconnect it from the power supply and cut off the input water to be treated. When the equipment stops and no water comes out of the tap, close the tap, disconnect the electrical plug and tubes from the back. Put a plug in the corresponding connectors to prevent leaks during transport.

5.3. WARNINGS OF MAINTENANCE

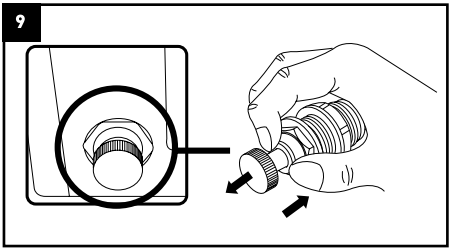
• Consumable items must be replaced with the frequency indicated according to the characteristics of the water and expected frequency of use. See the corresponding section of this manual.

• The equipment must be sanitized periodically and at the start-up of the equipment.

• Maintenance must be carried out by qualified personnel, with adequate hygienic conditions and knowledge, in order to reduce the risk of internal contamination of the appliance and its hydraulic system. (For more information contact your Technical Assistance Service).

6. INSTALLATION UNDER SINK AND START-UP

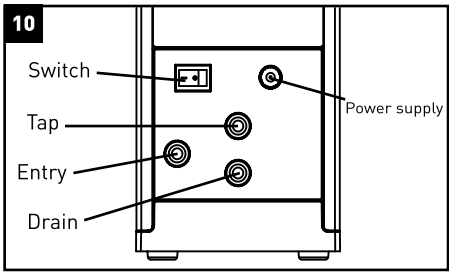
! Attention: To remove the plug from the rear connectors, push the retaining ring in the direction indicated by the arrow (towards the inside of the connector). and at the same time, remove the cap by pulling the same (9).



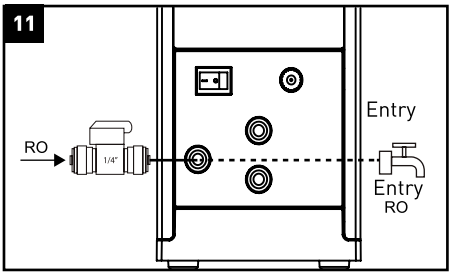
• Make sure to connect the system with water of adequate characteristics to those required by the equipment (See the technical data on the equipment label or at SECTION 3 TECHNICAL CHARACTERISTICS of this manual).

! Attention: The system has been designed to be powered by a water treatment equipment through reverse osmosis, therefore, this hydrogenator equipment will be installed as a complement to a water treatment osmosis equipment that has been previously installed.

• Remove the plugs from the connectors at the rear.



! Attention: It is recommended to install a manual shut-off valve at the water inlet of the equipment to facilitate its isolation and maintenance operations.

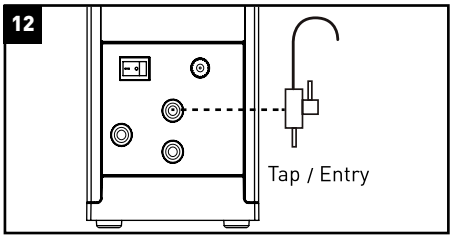


• The water input must come from a Domestic osmosis with pressurized accumulation tank (max 2.5 bar). Use the ¼" tube supplied together with the accessories to carry out the corresponding procedures and connections (11).

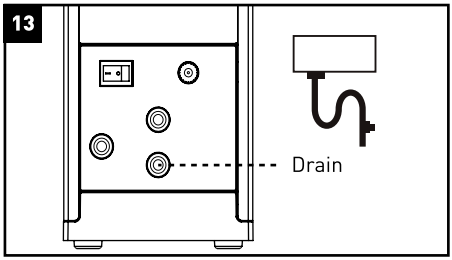
! If the reverse osmosis water treatment equipment is direct flow, the internal flow restrictor of the equipment (component no. 9. page 14) must be removed and replaced with a ¼" section tube of the appropriate length.

In the event that the reverse osmosis water treatment equipment is direct flow and performs unexpected stops and starts when hydrogen water is dispensed, to avoid them: The flow restrictor (component no. 9 page 14 should not be removed from the equipment) and must be insert a pressurized tank with a carbon filter in the osmotic water line entering the hydrogenation equipment.

• Using the ¼" tube, connect the rear outlet connector to the unit tap, with the corresponding tap already installed on the countertop. See the following diagrams, depending on whether the installed tap is one or two-way. (12)



• Connect the rear drain connector to the salt rejection tube of the osmosis equipment already connected and installed to the drain. Use a T-piece connector ¼" for this (supplied together with the equipment accessories) (13).

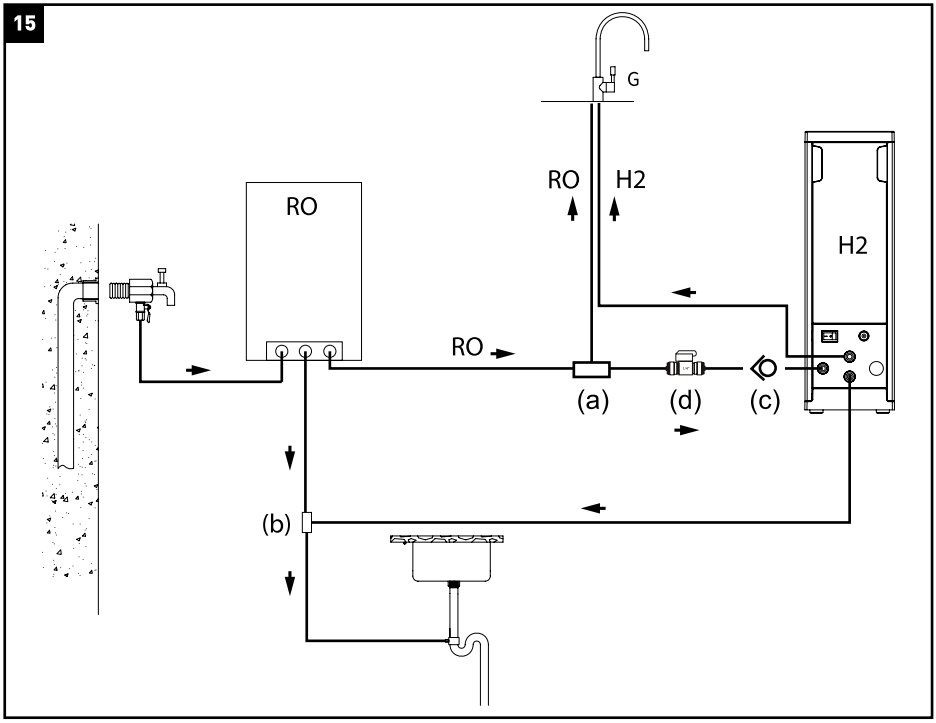


Connection diagram from direct flow osmosis equipment with 2-way faucet.

In the case of installing a 2-way faucet, you must use type T connectors, (a) and (b) of appropriate section according to that used by the osmosis equipment.

The hydrogenation equipment and two-way faucet have ¼" section connections.

It is recommended to install a stopcock (d) to carry out maintenance work on the hydrogenator comfortably and a non-return valve (c) to prevent pressure variations at the hydrogener inlet from generating false alarms in the equipment.



7. START UP

Before connecting the electrical supply to the equipment, the internal hydraulic circuit must be filled with water, evacuating the maximum amount of air from the interior. To do this, carry out the following actions:

Keep the hydrogenator equipment disconnected from the power (operate the electrical switch on the rear if necessary).

The purging of the air inside the equipment will be facilitated if the ozone neutralizing filter is filled prior to powering the equipment. To do this, before supplying the equipment hydraulically, disconnect and direct the hydraulic outlet of the neutralizing filter towards a container or sink, making a curve or siphon that exceeds the top of the filter to ensure its complete filling. When full, cut off the hydraulic power and reconnect the filter outlet to its original connectors.

Carry out a flushing of the hydraulic system of the equipment with water from the main chlorinated distribution network.

Hydraulically connect the hydrogenator, allowing the water from of an osmosis equipment, previously installed and put into operation to fill the hydrogenating equipment, keeping the dispenser tap of the same open. (The accumulation tank of the osmosis equipment should contain between 3 and 4 litres of water.

After extracting 1 litre of water and observing that the flow remains stable, connect the power to the hydrogenating equipment. (turn on the electrical switch at the rear).

After checking that the indicator LEDs on the front of the equipment light up, and that the equipment pump starts operating, check after a few moments that water begins to flow from the connector directed to the drain.

Due to the fact that small air pockets may remain inside the equipment, during the first minutes of operation, the system could emit intermittent acoustic signals, indicating that some of these air bubbles are inside the hydrogenator cell.

Open and close the system tap at 10 second intervals to facilitate the evacuation of the air inside, for a few minutes until the alarm disappears.

! Attention: During the first few uses, this alarm may appear, but should disappear progressively, as the equipment is used and the air is removed that initially remained inside.

8. RECOMMENDED USE

• The flow of water dispensed by the hydrogenation equipment depends on the pressure and flow of water with which it is fed. As the accumulation tank of the previous osmosis equipment empties, the flow rate of the equipment will gradually decrease.

In the event that several litres of water have been extracted or the previously osmotized water tank emptied, a significant reduction in flow could be perceived. Wait for the osmosis equipment to refill your accumulation tank.

• In case there is a two-way tap to dispense osmotized or hydrogenated water, do not open them at the same time, so that the hydrogenating equipment has sufficient pressure in its supply so assuring that it can function properly.

• After a few hours of rest, the concentration of hydrogen in the water inside the equipment and even at the tap, will have decreased. Discard the first glass of water dispensed before drinking to bring it to expected operating concentrations.

• It is recommended to consume the hydrogenated water in less than an hour after it has been dispensed, because similar to what happens to carbonated beverages, hydrogen gas is released from the water as time passes. Water can be consumed, but the hydrogen concentration in it will have been significantly reduced.

• If you want to conserve hydrogen water for consumption for few hours later, use metal containers and fill them to the brim without leaving air space inside. Once you open it, consume the water within an hour.

• Hydrogenated water can be used to cook or make infusions, but all gases, and hydrogen in particular, are released more easily, as the temperature of the water increases.

• When you plan to be absent for several weeks, isolate electrically the equipment and cut off the water supply to the hydrogenator, drain it through the dispenser tap and cut off the electrical supply to the hydrogenator. Upon return, power it hydraulically and electrically, and discard at least 3 litres of water before consumption.

• The equipment requires periodic maintenance to guarantee its correct operation and characteristics of the water dispensed. See the corresponding section of this manual to see the actions to be carried out and their frequency for this purpose.

9. FUNCTIONING

9.1 DESCRIPTION

The water to be treated is directed towards the hydrogenating cell (2). The hydrogen-enriched water (H2) is driven by a pump (3) and directed towards a mixer (4), whose function is to promote the dissolution of the hydrogen gas in the water before dispensing it through the tap (6).

The by-products (Oxygen and Ozone) from the hydrogenating cell (2) are discarded and directed towards the drain. The hydrogenating cell (2) incorporates a membrane (PEM) that prevents these oxidizing elements from mixing and incorporating into the water to be dispensed. Before evacuating them to the drain, they are neutralized by a carbon filter (7), which must be replaced periodically (See the corresponding section of this manual). This flow directed towards the drain is controlled by means of a solenoid valve (8) and flow limiter (9).

The operation of the equipment is automatically controlled by a microprocessor circuit that it efficiently manages the different states the system is in, informing the user about their status through the front panel lights.

The flow sensor (5) detects the passage of water when the user opens the tap (6). Then, the system activates the hydrogenating cell (2), the pump (3) and opens the solenoid valve (8).

The electronic system incorporates the following control and security featuras:

• The pressure switch (1) informs the system if there is enough water pressure to be treated at the equipment inlet. In case of detecting that there is not enough pressure, the operation of the equipment will stop automatically.

• The flow sensor (6), in case of detecting a low flow of water to be treated, will stop the operation of the equipment automatically.

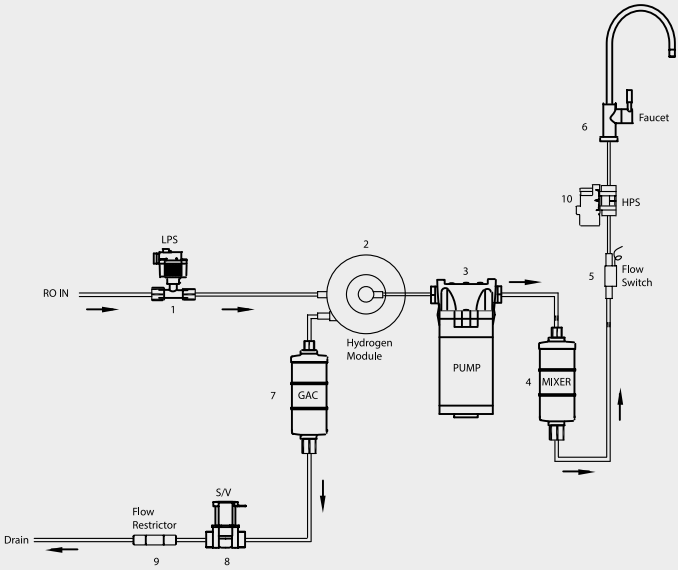
• The safety pressure switch (10) will disconnect the equipment in case of detecting an abnormal higher pressure in it.

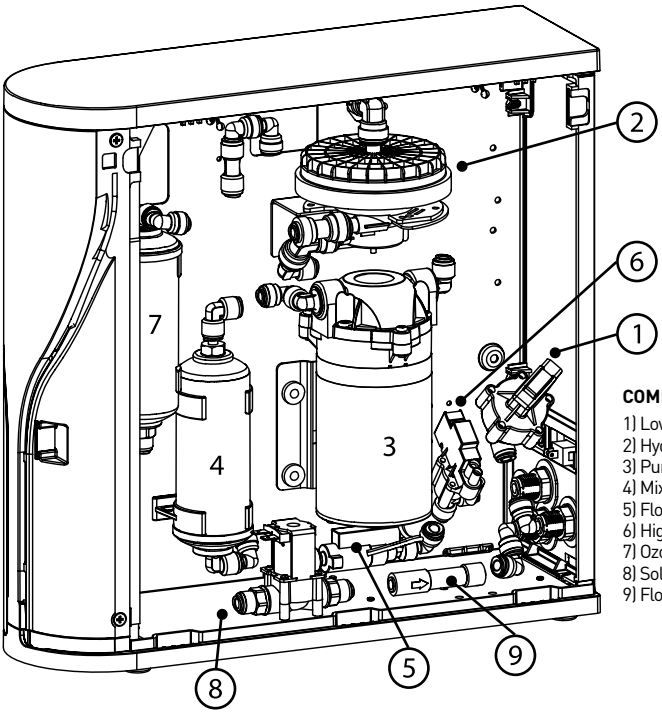
In both cases, the user will observe that when opening the tap, a small stream of non-hydrogenated water will come out. The solenoid valve (8) will remain closed as well as the hydrogenating cell (2) and pump (3) will be stopped.

The system also controls, in real time, the status of the hydrogenating cell, notifying its status in case of detecting a malfunction.

The equipment requires periodic maintenance and / or sanitation actions, in order to guarantee the characteristics of the water dispensed. The system will automatically inform the user about the need for maintenance.

Hydraulic diagram

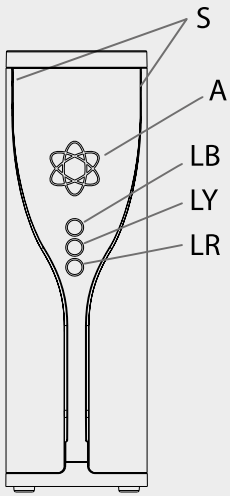




COMPONENTS

1) Low pressure inlet pressure switch
2) Hydrogen cell
3) Pump
4) Mixer
5) Flow switch
6) High pressure safety pressure switch
7) Ozone neutralizing filter
8) Solenoid valve
9) Flow restrictor

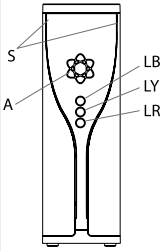
VISUAL INDICATION OF THE EQUIPMENT (Table 9.2)



9.2. INTERFACEWITH THE USER

The lights on the front panel show the status of the system.

INDICATION VISUAL	INDICATION ACOUSTICS	DESCRIPTION	MEANING
A - S - LB - LY - LR -		**ON STANDBY** WITHOUT AMBIENT LIGHT	The unit is on standby. Installed under the countertop. With the door closed and / or there is no visual light.
A - S - CYCLICAL LB - BLUE LY - LR -		**ON STANDBY** WITH AMBIENT LIGHT	The unit is on standby. Installed under the countertop. With the door open and there is visual light.
A - BLUE, MOVEMENT S - BLUE LB - BLUE LY - LR -		**HYDROGENATING**	Working. The unit is hydrogenating water.
A - S - YELLOW LB - BLUE Ly - YELLOW LR -	**BUZZER**	**ALARM. INSUFFICIENT PRESSURE OR FLOW**	The system has insufficient pressure or flow.
A - S - YELLOW FLASHING LB - BLUE LY - LR -	**BUZZER** FOR 10 SEC. AFTER OPENING THE TAP	**NOTICE: MAINTENANCE REQUIRED SOON**	The system informs that the corresponding maintenance actions must be carried out shortly. Contact your Technical Service to program them.
A - S - FLASHING RED LB - BLUE LY - LR -	**BUZZER** FOR 10 SEC. AFTER OPEN THE TAP	**IMMEDIATE MAINTENANCE REQUIRED**	The system informs that the corresponding maintenance actions must be carried out. Contact your Technical Service to program them.
A - MOVEMENT S - BLUE LB - BLUE LY - LR - RED FLASHING	**BUZZER** WHILE THE OPEN TAP	**ALARM FAILURE IN HYDROGENATING CELL**	In the event that the system indicates this continuously while dispensing water, contact your Technical Service to program them.



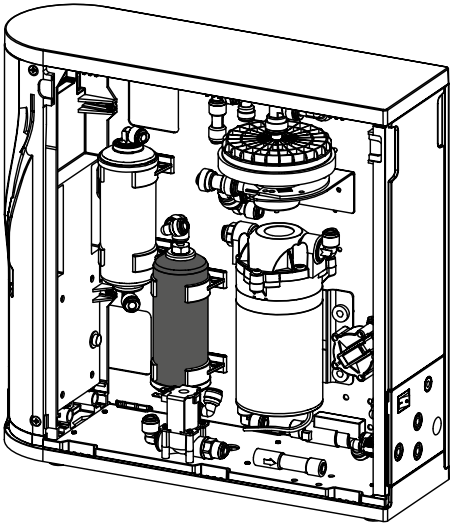
S - Side light strips to indicate the status of the equipment.
A - Activated hydrogen cell indicator
LB - Led indicating equipment working
LY - Led indicating a slight incident
LR - Led indicating a serious incident

10. MAINTENANCE

! Attention: the equipment is not a water purifier. Some components of your equipment are consumables that have a limited life and must be replaced periodically.
Likewise, the units need to be cleaned and / or sanitized periodically.

REPLACING THE OZONE NEUTRALIZING FILTER

Open the dispensing tap, turn off the hydraulic supply to the equipment. When the water stops coming out of the tap, turn off the power supply
Replace the ozone neutralizing filter with a new one.



Note: It is recommended to first rinse the new neutralizing filter with chlorinated tap water. Installing the filter filled with water will facilitate initial start-up and air purging.

! Attention: It is recommended that every two years, the connectors and tube that connect the cell to the ozone neutralizing filter be replaced.

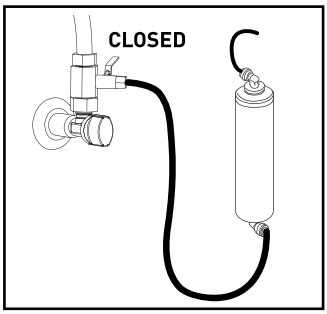
! Attention: Please install it by following the orientation and direction of flow indicated on the label. Clean any drops that may have fallen to the base of the equipment. Connect hydraulically and electrically the equipment. Follow the steps indicated in section 7. START-UP of this manual.

HYGIENIZATION

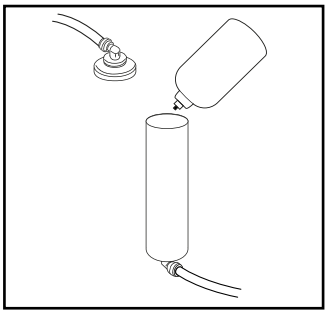
The equipment must be sanitized periodically. The operations must be carried out by trained personnel who must have an adequate hygienic knowledge and materials.

Confirm that the mains water in the home is distributed with chlorine.

In this case: Disconnect the hydrogenator from the



electrical supply, and feed it hydraulically with mains water instead of osmosis water (use a pressure limiter if the mains pressure is greater than 3 bar). Open the dispensing faucet and drain the water for 5 minutes. (keep the equipment disconnected from the power su-



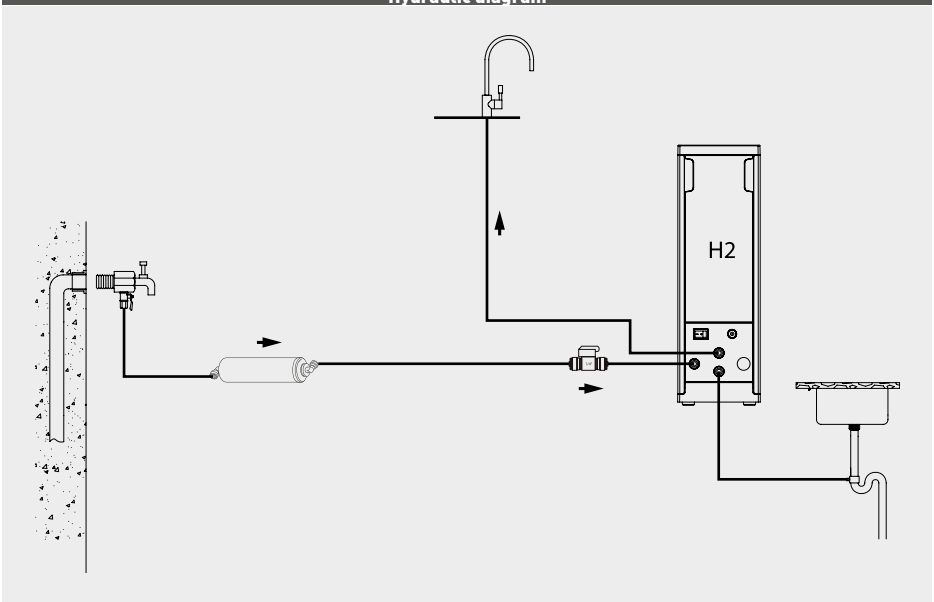
pply to prevent the hydrogenation cell from starting up with water of unknown mineralization).
After this time, reconnect the hydrogenator to the osmosis equipment, keep it disconnected from the power supply and rinse the hydrogenator hydraulic system with osmosis water by opening the dispensing tap for 1 minute. After that time, connect it to the power supply and after extracting 1 liter, check that the ORP and/or hydrogen concentration values are as expected.

If the tap water does not contain chlorine, you must carry out the following operations:
Insert an empty and refillable filter holder container with a volume of approximately 0.5 liters between the public distribution network water inlet and the equipment inlet (use a pressure limiter if the network pressure is greater than 3 bar).

Pour 1 drop of 3%-4% sodium hypochlorite-based cleaner suitable for treating water for human consumption.

Attention: A higher dose could damage equipment or components.

Hydraulic diagram



Keep the equipment disconnected from electrical power.

Open the dispenser tap and open the inlet valve, allowing water to flow through the equipment.

After extracting half a litre of water, close the dispenser tap and allow the cleaning product to act for 20 minutes.

Then rinse the equipment with tap water allowing at least 5 litres of water to pass through it (whilst maintaining the power supply disconnected).

After rinsing, remove the filter holder and accessories used for cleaning and reconnect the equipment to the original reverse osmosis water treatment system. Connect it electrically.

Before consuming the water dispensed by the equipment, discard the first 5 litres, at least.

Note: Chlorine is an oxidizing element that raises the ORP of the water in which it is dissolved. The equipment should be adequately rinsed until it delivers the expected ORP values.

FREQUENCY OF RECOMMENDED MAINTENANCE

The equipment requires appropriate periodic maintenance depending on its use, how it is installed and used.

	FREQUENCY
Ozone neutralizing filter	Every 12 months
Cleaning / sanitizing	• After completing the installation and start-up • Every 6 ... 12 months, depending on the intended use. • Every time components in contact with water in the equipment are accessed or no water has been consumed for more than a month.

11. DETECTION AND IDENTIFICATION OF PROBLEMS

PROBLEM	CAUSE	SOLUTION
FRONT PANEL DOES NOT LIGHT UP	Power supply failure. Illumination sensor failure	Check electrical voltage in the plug. Check if the rear switch and / or trans former are connected correctly. Contact and inform your SAT. Check power supply. Check light sensor.
	Safety disconnection due to high pressure	Check operation of the high pressure safety switch. Open the tap slowly and check the pressure between the equipment and the tap, when it is closed, by installing a pressure gauge. After closing the tap, the equipment should stop working after a few seconds, with the forward display remaining lit. In case of not stopping or detecting an increase of pressure at the outlet of the equipment which exceeds 7 bars, the flow switch and / or solenoid valve could be defective. Check their operation. In any other case, contact and in- train your SAT.
NOTICE. INSUFFICIENT PRESSURE OR FLOW *	The system detects that there is insufficient pressure or flow of water to be treated.	Open the osmosis water dispensing tap. Check that the osmosis equipment supplies sufficient pressure and flow. Check if the storage tank for the same is full. Wait for the pre-osmosis equipment to treat and accumulate enough water. Contact us and inform your SAT. Check: Inlet pressure switch or flow sensor fault. Check Excessive pressure loss between the pre-osmosis equipment and inlet to the hydrogenating equipment.

PROBLEM	CAUSE	SOLUTION
ALARM: HYDROGENATING CELL FAILURE *	System detects hydrogen cell error.	If the equipment is new or has recently been maintained, any air accumulated inside should be purged. Open and close the dispenser tap in 10 second intervals until the alarm clears. Contact and inform your SAT. After a period of operation or if the equipment has been continuously fed with mains water, the cell may have calcified. Check the voltage between the two electrodes of the cell whilst in operation. If it is close to or above 9 Vdc, the cell will need to replaced.
POSITIVE ORP IN DISPENSED WATER	The hydrogen cell does not work correctly.	Discard 2 glasses of water before measuring and that the water flow does not exceed 1 lpm. Make sure that it measures the ORP value in the water dispensed correctly and is calibrated. Contact and inform your SAT. Check the voltage between the two electrodes of the cell during its operation. If it is close to or above 9 Vdc, the cell will need to be replaced.
WATER LEAK	Some component or connector is leaking water.	Isolate the equipment by cutting the electrical and hydraulic supply of the same. Contact and inform your SAT. The loss of water must be remedied by replacing the defective component.
MAINTENANCE NOTICE SOON *	The system will need periodic maintenance and / or cleaning actions shortly.	Contact and inform your SAT.
MAINTENANCE NOTICE RIGHT NOW *	The system requires the performance of periodic maintenance and / or cleaning actions.	Contact and inform your SAT.

PROBLEM	CAUSE	SOLUTION
LOW CONCENTRATION OF HYDROGEN IN DISPENSED WATER.	The pump does not apply sufficient pressure. Excessive flow of water dispensed. The Hydrogen cell does not work correctly. The Hydrogen mixer has a problem.	Discard 2 glasses of water before measuring and that the water flow does not exceed 1 lpm. Make sure you measure the Hydrogen concentration value in the dispensed water correctly. Remember that the amount of bubbles observed in the dispensed glass of water are not symptomatic of a good or bad functioning. Contact and inform your SAT. Check the operation and pressure of the pump. The pump must work when water is requested from the tap and the pressure at its outlet must be around 2 - 2.5 bars, dispensing 1 litre per minute. Check the voltage between the two electrodes of the cell during its operation. It must be between 5 and 9 Vdc. Check the Mixer. At the outlet, the water must not have large bubbles present. If in doubt, replace it with a new one.

Note *: see section 9.2 INTERFACE WITH THE USER of this manual.

4. WARRANTY

The distributor guarantees the equipment for a period of two years in the event of any non-compliance detected in the equipment, in accordance with Royal Decree 1/2007 of 16 November (revised text of the General Law for the Defence of Consumers and Users).
- The guarantee includes the repair and replacement of faulty parts by personnel authorised by the distributor or by the official technical assistance service (S.A.T.) at the place of installation or in its workshops. Included in the warranty is labor and shipping costs that may be generated.
- The distributor is exonerated from providing a guarantee in the case of parts subject to natural wear, lack of maintenance, blows or other nonconformities resulting from improper use of the equipment or inadequate according to the conditions and operating limits indicated by the manufacturer of the same. Likewise, the warranty becomes ineffective in cases of improper handling and use of the equipment or in those cases in which they have been modified or repaired by personnel outside the distribution company or official S.A.T..
- The parts replaced under warranty will remain the property of the distributor.
- The distributor is responsible for the lack of conformity of the equipment when it refers to the origin, identity or suitability of the products, according to their nature and purpose. Bearing in mind the characteristics of the equipment it is essential for the warranty to cover the lack of conformity, the fulfillment of the technical conditions of installation and operation. Failure to comply with these conditions may result in the absence of a warranty, taking into account the relevance of the destination of the equipment and the conditions and operating limits in which it must operate.
- The distributor must ensure that the installed equipment is suitable for improving the quality of the water to be treated in particular, according to the characteristics of the equipment and the regulations in force.
- The distributor must ensure the correct installation and start-up of the equipment as indicated by the manufacturer and current regulations and will also be liable for any lack of conformity resulting from incorrect application, installation or start-up of the equipment.
- For any warranty claim it is necessary to present the purchase invoice. The period of two years is calculated from the purchase of the equipment from the distributor.
- If there is a problem with your equipment during the warranty period, please contact your dealer.

The equipment is installed and operating to the customer's satisfaction and for the record:

* Pre-treatment of the equipment:

* Hardness of entry to the equipment (ºF):

* TDS input to the equipment (ppm):

* TDS produced water (ppm):

* Pressure of entry to the equipment (bar):

*Result of the installation and commissioning sheet:

Correct:

Others:

The owner of the equipment has been properly and clearly informed of the use, handling and maintenance that the equipment requires to ensure its proper functioning and the quality of the water produced. A maintenance contract is offered for this purpose.

*Ref: Maintenance contract:

ACCEPTS the maintenance contract ○

DOES NOT ACCEPT the maintenance contract ○

If you need information, report a malfunction or malfunction, request for maintenance or intervention by a technician, please read the operation, troubleshooting and troubleshooting sections of this manual beforehand and contact the distributor or company that sold you your equipment.

COMPANY AND/OR AUTHORIZED INSTALLER, DATE AND SIGNATURE:

SERIAL NUMBER:

NOTE TO THE COMPANY AND/OR AUTHORIZED TECHNICIAN/INSTALLER: the data marked with the * symbol must be filled in by the installer and transcribed by him/herself from the INSTALLATION REGISTRATION sheet.

5. INSTALLATION REGISTER SHEET

NOTES TO THE TECHNICIAN/INSTALLER: read this manual carefully. If in doubt, contact your dealer's Technical Support Service (T.A.S.). The data marked with the symbol * must be filled in by the technician/installer and transcribed by him/herself to the WARRANTY page. This sheet must be kept by the installer and may be requested by the distributor in order to improve after-sales service and customer service. The technician who performs the installation and commissioning of the equipment must have adequate technical training.

INFORMATION ON THE USE OF THE EQUIPMENT:

Origin of the water to be treated:

○ PUBLIC SUPPLY NETWORK

○ OTHER

* Pre-treatment of the equipment:

* Hardness of entry to the equipment (ºF):

* TDS of entry to the equipment (ppm):

* TDS produced water (ppm):

Inlet pressure to the equipment (bar):

INSTALLATION STEP CONTROL:

Pre-filter assembly:		Installation of isolation by-pass:	
Overflow installation:		Correct drainage installation:	
Start-up according to protocol:		Brine suction test/tank filling:	
Checking of fittings:		Leakage of the pressurised system:	
Measurement of inlet hardness:		Programming of the equipment:	
Output hardness measurement:		Adjustment of residual hardness:	

COMMENTS

* Result of installation and commissioning:

○ CORRECT (equipment installed and working correctly. Produced water suitable for the application).

○ OTHER:

IDENTIFICATION OF THE AUTHORISED TECHNICIAN/INSTALLER:

COMPANY AND/OR AUTHORIZED INSTALLER, DATE AND SIGNATURE:

CONFORMITY OF THE OWNER OF THE EQUIPMENT:

I have been clearly informed of the use, operation and maintenance required by the installed equipment, having been offered a maintenance contract and informed of how to contact a customer service in the event of a request for information, communication of a breakdown or malfunction, request for maintenance or intervention by a technician.

Remarks:

*Ref: Maintenance contract:

ACCEPTS the maintenance contract ○

DOES NOT ACCEPT the maintenance contract ○

Model/Ref:

Owner:

Street

Telephone:

City:

Province: C.P.:

SERIAL NUMBER

EQUIPMENT WARRANTY DIRECTED TO THE DISTRIBUTOR:
The distributor will only be responsible for the replacement of parts in the event of non-conformity. The repair of the equipment and the costs involved (labour, shipping costs, travel, etc.) will be borne by the distributor, in accordance with the general conditions of contract and sale, so it can not be passed on later to the manufacturer.

6. MAINTENANCE SERVICE

DATE	TYPE OF SERVICE	NAME, SIGNATURE AND STAMP OF TECHNICIAN	
	◯ START-UP		
	◯ COMPLETE MAINTENANCE ◯ PREPARATION ◯ SANITIZATION ◯ OTHERS	TECHNICIAN STAMP	ORDINARY EXTRAORDINARY WARRANTY
	◯ COMPLETE MAINTENANCE ◯ PREPARATION ◯ SANITIZATION ◯ OTHERS	TECHNICIAN STAMP	ORDINARY EXTRAORDINARY WARRANTY
	◯ COMPLETE MAINTENANCE ◯ PREPARATION ◯ SANITIZATION ◯ OTHERS	TECHNICIAN STAMP	ORDINARY EXTRAORDINARY WARRANTY
	◯ COMPLETE MAINTENANCE ◯ PREPARATION ◯ SANITIZATION ◯ OTHERS	TECHNICIAN STAMP	ORDINARY EXTRAORDINARY WARRANTY
	◯ COMPLETE MAINTENANCE ◯ PREPARATION ◯ SANITIZATION ◯ OTHERS	TECHNICIAN STAMP	ORDINARY EXTRAORDINARY WARRANTY

6. MAINTENANCE SERVICE

DATE	TYPE OF SERVICE	NAME, SIGNATURE AND STAMP OF TECHNICIAN	
	◯ START-UP		
	◯ COMPLETE MAINTENANCE ◯ PREPARATION ◯ SANITIZATION ◯ OTHERS	TECHNICIAN STAMP	ORDINARY EXTRAORDINARY WARRANTY
	◯ COMPLETE MAINTENANCE ◯ PREPARATION ◯ SANITIZATION ◯ OTHERS	TECHNICIAN STAMP	ORDINARY EXTRAORDINARY WARRANTY
	◯ COMPLETE MAINTENANCE ◯ PREPARATION ◯ SANITIZATION ◯ OTHERS	TECHNICIAN STAMP	ORDINARY EXTRAORDINARY WARRANTY
	◯ COMPLETE MAINTENANCE ◯ PREPARATION ◯ SANITIZATION ◯ OTHERS	TECHNICIAN STAMP	ORDINARY EXTRAORDINARY WARRANTY
	◯ COMPLETE MAINTENANCE ◯ PREPARATION ◯ SANITIZATION ◯ OTHERS	TECHNICIAN STAMP	ORDINARY EXTRAORDINARY WARRANTY

UM

MUATOMH2