

CERTIFIED

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EQUIPMENT

LÄTT
BLUE ∞

MANUAL

**REVERSE OSMOSIS
EQUIPMENT**

LÄTT

BLUE 800

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USER MANUAL

MAIN FEATURES



**CLICK
QUICK CONNECTIONS
AND MAXIMUM SECURITY**



**ELECTRONIC ADAPTER
GREATER SECURITY AND
EFFICIENCY**



**FILTER CONTROL
AUTOMATIC
MAINTENANCE WARNINGS**



**DOUBLEFLOW
GREATER FLOW
DISPENSED WATER**



**SOLENOID VALVE
IMMEDIATE CONTROL**



**DIRECT ACCESS
EASY ACCESS
AND MAINTENANCE**



**AQUASTOP
AUTOMATIC LEAK
DETECTION**



**QUALITY CONTROL
CONDUCTIVITY
CONTROL**



**DIRECTFLOW
DIRECT PRODUCTION
OSMOTIC WATER**



**AUDIO WARNINGS
SOUND WARNINGS**



**STATUS LED
STATUS INDICATIONS**



**PRESSURE CONTROL
PROTECTION AGAINST
PRESSURE DROPS**



**HIGH PERFORMANCE PUMP
HIGH MOTOR PERFORMANCE**



**HIGH EFFICIENCY
HIGH RECOVERY**



**SMART
FAUCET**



**CAPSULATED
MEMBRANE**



**TDS CREEP
REDUCTION
INTELLIGENT WASHES
PROGRAMMABLE**



**SECURITY LOCK
SECURITY LOCK**



Please keep this manual, which includes the service book and warranty sections, in order to provide you with better after-sales service.

1. INTRODUCTION

Congratulations. You have purchased an excellent domestic water treatment equipment. This unit will help you to improve the properties of your water.

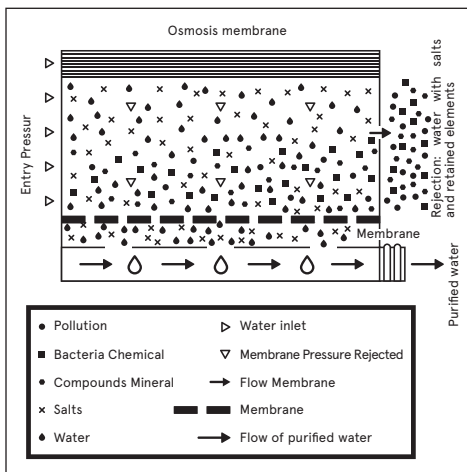
2. WHAT IS OSMOSIS?

The natural or direct osmosis is the most common in nature, given that semi-permeable membranes are part of the vast majority of organisms (for example plant roots, organs of our own body, cell membranes, etc ...).

When two solutions of different salt concentrations are separated by a semi-permeable membrane, in a natural way, a flow of water is produced from the solution with the lowest concentration to the one with the highest concentration. This flow continues until concentrations on both sides of the membrane are equal.

When this process is reversed to achieve a flow of water with a lower salt concentration from a higher concentration, sufficient pressure must be applied to the water with the highest concentration on the membrane to overcome the tendency and natural flow of the system. This process is what we call reverse osmosis. Nowadays, reverse osmosis is among the best methods to improve the properties of water by means of a physical system (without the use of chemical products).

The water to be treated exerts pressure on the semi-permeable membrane, so that part of it will be able to pass through the pores of the membrane (osmosis water), while the rest of the water (rejected or with a high concentration of salts) will be diverted to the drain (Fig. 1).



3. PRECAUTIONS

! ATTENTION: Read carefully the warnings described in the corresponding section of the Technical Manual.

! ATTENTION: This equipment is not a water purifier. If the water to be treated comes from a public supply (and therefore complies with current legislation), this equipment will substantially improve the quality of the water.

If the water to be treated does not come from a public supply network or is of unknown origin, it will be necessary to carry out a physical-chemical and bacteriological analysis of the water to ensure its correct potabilisation by applying the techniques and equipment suitable for each need, PRIOR TO INSTALLATION of the equipment. Please contact your distributor for advice on the most suitable treatment for your case.

The water treatment plants require periodic maintenance by qualified technical personnel in order to guarantee the quality of the water produced and supplied.

Except for service technicians, no one else is authorised to dismantle and repair, in order to avoid fire and electric shock.

3.1. USAGE OF EQUIPMENT

When you will be gone for more than a week, close the water inlet tap to the equipment, empty it and disconnect it from the power supply (PUM Model). When you return, connect the power supply, open the inlet tap and the faucet. Let the water flow for at least 5 minutes before consuming water.

! ATTENTION: After an extended period (more than one month) in which the equipment has been found to be inoperative or not producing water, contact your dealer for proper sanitation and maintenance.

Remove large amounts or full bottles and avoid occasional dispensing for better performance of the equipment.

! ATTENTION: Special attention should be devoted to the cleanliness and hygiene of the osmosis tap, at all times and especially at the time of periodic maintenance and sanitization. To do this, use a disposable single-use sanitizing spray and kitchen towel. Under no circumstances should a dish cloth or multi-purpose cloth used for cleaning the kitchen be used.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children should not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

3.2. RECOMMENDATIONS FOR THE APPROPRIATE USE OF OSMOSIS WATER

· If you wish to feed any other consumption point with osmosed water (such as a fridge with an ice dispenser, another tap, etc...), the connection should not be carried out with a metal tube, as this would give the water a bad taste. Always use plastic tube.

! **ATTENTION:** *The water provided by the domestic osmosis equipment is LOW MINERALIZATION. The mineral salts needed by the human body are provided mainly by food, especially dairy products and to a less extent by drinking water.*

· We recommend not to use aluminium utensils to cook with osmosed water.

3.3 CONDITIONS FOR THE CORRECT USE AND FUNCTIONING OF THE EQUIPMENT

- The equipment must not be supplied with water at temperatures higher than 38°C, nor lower than 5°C.
- The ambient temperature must be between 4° and 45°C.
- For water with salinity higher than 1500 ppm, consult your distributor..

In the event that the water to be treated contains:

1. hardness greater than 15°F.
2. Concentrations of free chlorine > 1,2 mg/l.
3. High iron or manganese concentrations (greater than 1 mg/l measured at equipment rejection).
4. Turbidity greater than 3 NTU.
5. Nitrate concentrations > 100 mg/l.
6. Sulphate concentrations > 250 mg/l.

4. BASIC OPERATION

The operating steps of the system are described in the Technical Data Sheet section (page 18).

5. USER INTERFACE

! **ATTENTION:** *This equipment comes with an electronic controller that will manage in an efficient way, the functionality and indications of the state in which it is in, as well as the different security systems.*

The technical data sheet of the equipment describes the states in which the system can be found and the information provided by it (pages 18-22 of this manual).

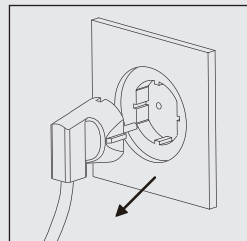
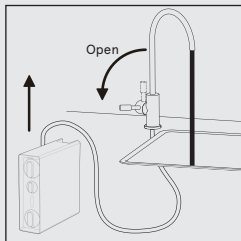
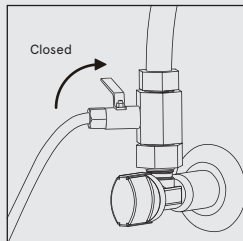
6. MAINTENANCE

In order to ensure the quality of the water supplied by your equipment, it should be regularly maintained.

Read the corresponding section of the Technical Manual to see the maintenance frequency recommended (page 12 of this manual).

7. IDENTIFICATION AND RESOLUTION OF PROBLEMS

PROBLEM	POSSIBLE CAUSE	SOLUTION
1. External leakage of equipment.	<ul style="list-style-type: none"> - Breakage of some internal part of the equipment. - Bad connection of the installation. - Deterioration of a plastic tube. - Bad connection of the filter or membrane. - The equipment has not been correctly depressurized before changing the membrane or filter. 	<ul style="list-style-type: none"> - Check all installation connections. - Let the machine depressurise correctly and reinstall the filter or membrane. - If the equipment has to be dismantled, call the technical service first.
2. No production.	<ul style="list-style-type: none"> - No water supply. - No power supply. - Sensor de fugas activado. - Membrane blocked. - Transformer voltage less than 24 VDC. - Inlet filter blocked. - Low temperature of the water supply to the equipment. 	<ul style="list-style-type: none"> - Wait for the power supply to return. - Check the power supply to the house. - If the leak is not detected, dry the bottom of the unit together with the leak sensor. If repeated, call Service. - Check the voltage of the transformer. - Check the membrane and the inlet filter. - If the temperature is below 3°C, the equipment will automatically lock.
3. Low production.	<ul style="list-style-type: none"> - Partially closed feed tap. - Filters / membrane in bad condition or exhausted. - Reject valve blocked, flow rate less than 1 litre per minute. - Pump blocked or with air trapped inside (cavitations). - Low temperature of the water supply to the equipment. 	<ul style="list-style-type: none"> - Open it completely. - Replace the filter or membrane . - Replace reject valve. - Change pump in case of blockage. - Unplug and re-plug the equipment to perform a flushing and remove the air contained in the pump.
4. Excessive production.	<ul style="list-style-type: none"> - Excessive chlorine entry into the membrane. - Rejection valve blocked, flow rate less than 1 litre per minute. - Excessively high feed water temperature >38°C. 	<ul style="list-style-type: none"> - Replace membrane. - Change of rejection valve. - The water temperature must be reduced below the limits. - Check the general installation of the enclosure, to eliminate heat sources.
5. Unpleasant smell/taste.	<ul style="list-style-type: none"> - Membrane in bad condition. - The equipment has been stopped for a long time. - No sanitization has been carried out. - The sanitizing product has not been correctly purged. 	<ul style="list-style-type: none"> - Replace membrane. - Perform disinfection. - Properly purge the device.
6. White water color.	<ul style="list-style-type: none"> - Air in the system. - Microbubbles of air that disappear after a few seconds. 	<ul style="list-style-type: none"> - This is not a problem. The appearance will disappear as the air is eliminated inside the equipment.
7. Continuous dripping noise in drain.	<ul style="list-style-type: none"> - Depressurisation of the device after production. - Inlet valve dirty, or in bad condition. - Membrane non-return valve (production) dirty, blocked or in bad condition. 	<ul style="list-style-type: none"> - Wait a few minutes, and check if dripping stops. - Clean or replace inlet valve. - Check diaphragm check valve.
8. The equipment does not start.	<ul style="list-style-type: none"> - There is no water supply. - There is no power supply. - Leaking sensor activated. - Machine blocked by alarm. - High pressure switch defective. - External programmer cable short-circuited. - Leakage sensor activated. 	<ul style="list-style-type: none"> - Check the condition of the general key and the equipment inlet. - Check the general power supply. - Replace the inlet filter. - If there is power supply, but the lights do not come on, contact the technical service. - If the leak is not detected, dry the bottom of the equipment together with the leak sensor. If repeated, call for service. - Replace the high pressure switch. - Check the external controller cable and replace the controller if damage is detected.
9. The equipment stops and starts constantly.	<ul style="list-style-type: none"> - Leakage at production outlet. - Electric valve seals on external devices do not cut correctly and leak internally. - Production backflow preventer does not close correctly. 	<ul style="list-style-type: none"> - Check osmosis water installation for leaks and repair. - Check the shut-off mechanisms of the devices connected to the equipment, and ensure correct shut-off. - If dispenser taps are installed, check for abnormal dripping and repair. - Check backflow preventers.
10. The equipment never stops rejecting water to the drain.	<ul style="list-style-type: none"> - Inlet solenoid valve damaged. - Deteriorated production check-valve. 	<ul style="list-style-type: none"> - Check and replace.



Read the section INTERFACE of the Technical Sheet. In case of anomaly, contact the SAT and proceed as indicated: Close the inlet valve. Open the tap to depressurize the system and unplug the plug.

TECHNICAL MANUAL

1. MAIN FEATURES

APPLICATION

Water treatment

Reverse osmosis for domestic use.

Use

Improvement of the characteristics of drinking water (that meets the requirements of the European Directive on water for human consumption 98/83 or its national transpositions in the different member states of the European Community).

Modifications due to reduction or contribution

· Water treatment using reverse osmosis is capable of reducing concentrations of salts and other substances in high percentages.

· Minimum reduction* of certain compounds and parameters:

Sodium: 85%.

Calcium: 90%.

Sulfate: 90%.

Chloride: 90%.

Total hardness: 90%.

Conductivity: 90%.

* Depending on the characteristics of the water to be treated (at the membrane outlet). These values may vary in depending on the type of post-filter that the equipment incorporates and/or regulation of the mixing valve (if it incorporates).

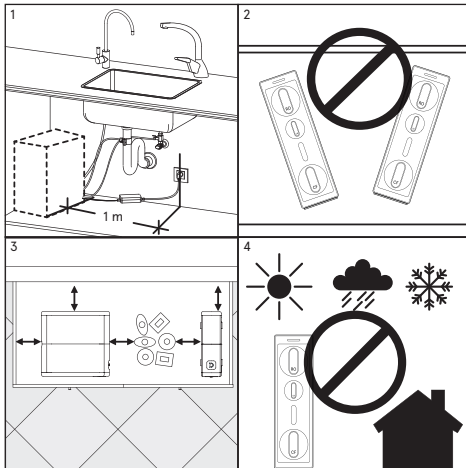
2. INSTALLATION

· In the event that the domestic installation has to be conditioned in order to install the equipment in the planned place, it must be carried out in accordance with the national regulations for indoor installations of water and electrical supplies.

- These equipments need an electrical outlet at a distance of less than 1 metre (1).
- It is recommended not to install the equipment lying down or inclined (2). This would disable the leakage sensor.
- The equipment full of water weighs more, the distribution of weights in a not foreseen position could provoke that some connection element could be forced, being able to generate a bad operation, damages in components of the equipment or water leakage.
- The installation site must have sufficient space for the equipment itself, its accessories, connections and for convenient maintenance (3).
- Under no circumstances shall the equipment be installed outdoors (4).
- The surroundings and environment where the equipment is installed and its subsequent connections must meet adequate hygienic and sanitary conditions.
- Do not bring flammable, explosive, volatile or strongly magnetic substances near the water purifier.
- The appliance must only be used with the power supply

The appliance must only be operated with the power supply supplied with the appliance.

- The appliance must only be supplied with a voltage between 100 and 240 VAC 50/60Hz.
- The adapter must be installed vertically on the wall or in the cabinet. Do not place the adapter flat on the bottom of the cabinet.
- Do not use damaged power supplies or plugs, or loose sockets.
- If the power cord is damaged, it must be replaced by a designated professional after-sales service technician in order to avoid hazards.
- Do not touch the power plug with wet hands.
- Do not use in conditions of high water pressure.



-Avoid external dripping onto the equipment from pipes, drains, etc.

! ATTENTION: The equipment must not be installed next to a heat source or directly receiving a flow of hot air over it (dryer, refrigerator, etc.). The new tube sets supplied with the appliance are to be used and that old tubes should not be reused.

· The new hose sets supplied with the appliance must be used and the old hose sets must be removed accordingly.

2.1. COMMISSIONING AND MAINTENANCE

! ATTENTION: The water treatment equipment requires periodic maintenance carried out by qualified technical personnel, in order to guarantee the quality of the water produced and supplied.

- The consumable elements must be replaced as often as indicated by the manufacturer.

- The equipment must be sanitised periodically and before it is put into service.

- During the first 30 minutes after start-up, filter and/or membrane change, the quality of the water may vary up to its optimum operating performance.

3. UNPACKING

It is important that before installation and start-up, you check the box and the condition of the equipment, in order to guarantee that it has not been damaged during transport.

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

Remove the equipment and accessories from their box, removing the corresponding packaging.

! ATTENTION: Dispose of plastic bags properly and keep them out of the reach of children, as they can be a danger to them.

Inside you will find: Water treatment equipment, installation accessories and documentation. 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 materials.



This product cannot be disposed of together with normal municipal waste. When the useful life of the equipment has ended, it must be delivered to the company or centre where the device was purchased, or to a Recycling Point or 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 avoiding potential risks to public health.

4. INSTALLATION

- The installation of your osmosis equipment must be carried out by personnel sufficiently qualified to do so. Read this manual first and consult your dealer in case of doubt.

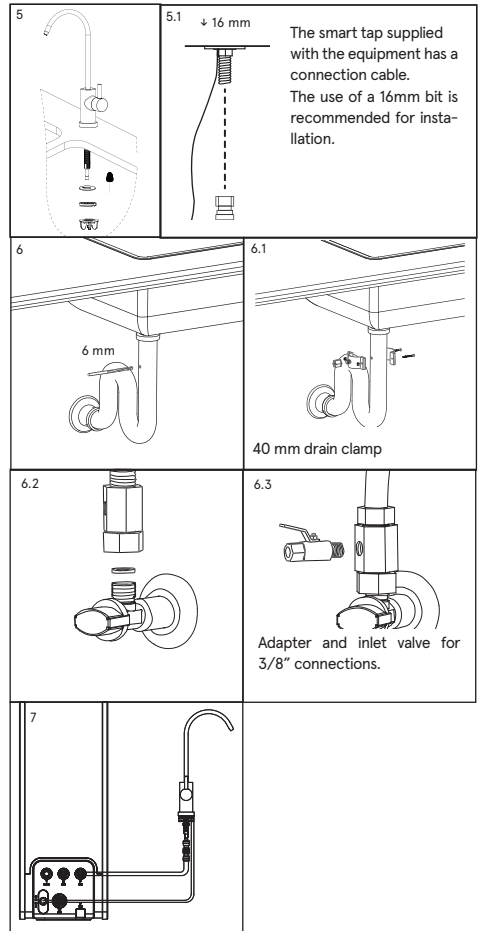
! *Since the appliance to be installed improves the quality of the water to be consumed, all the tools to be used for assembly and installation must be clean and in no case may they be contaminated or impregnated of grease, oils or oxides. Use dedicated tools for tube cutting, membrane handling, etc. Keep them clean and disinfect them periodically.*

! *ATTENTION: The work must be carried out with a suitable hygienic attitude and conditions, taking extreme precautions in everything related to materials and components that are going to be in contact with the water to be treated or consumed.*

(For more information contact your dealer).

! *ATTENTION: Avoid the risks of external contamination of the equipment due to improper handling, using gloves, hand sanitizing gel or washing hands as many times as necessary throughout the installation, start-up and maintenance of the equipment.*

The most common place for installation of the unit is usually under the kitchen worktop or in an adjoining cabinet. Install the tap, drain collar and inlet adaptor and connect them to the respective connectors on the unit (5, 6 and 7).



! *ATTENTION: Some of the installation accessories may vary depending on the model and the region in which the equipment is distributed.*

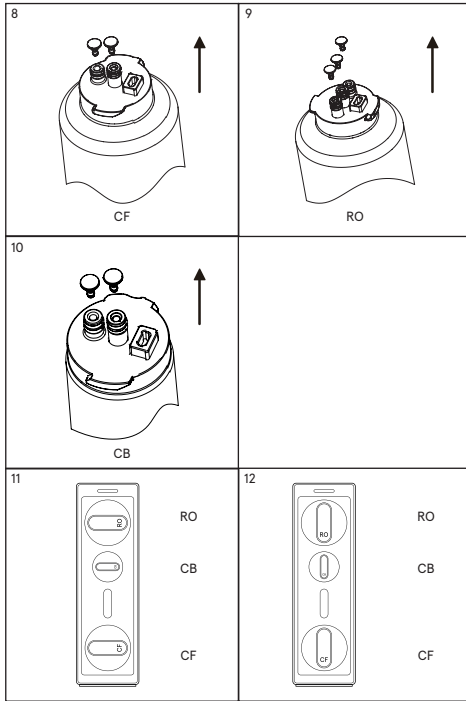
4.1. MIXING KIT

- In case you want to increase the pH, conductivity and chlorine concentration at the outlet, you must carry out the installation according to the following scheme and using the corresponding components included in the mixing kit (consult your distributor).
- After start-up, open the tap and with the corresponding meter for the parameter of interest, measure in the water dispensed from the tap and slowly and progressively open the mixing valve until the desired parameter is achieved.
- The water dispensed must comply with the drinkability requirements, established by European Directive 98/83 or the corresponding national legislation that transposes it.

See hydraulic scheme on page 13.

4.2. INSTALLATION OF THE FILTERS

- Remove the rubber plugs on the water inlets of the pre-filter (CF), membrane (RO) and post-filter (CB) as shown in figures 8, 9 and 10.
- Install the CF filter in the first stage of the LATT machine (bottom position), the RO membrane in the second stage of the LATT machine (top position) and the CB postfilter in the third stage of the LATT machine (middle position).
- To install the filters, present each filter in its respective housing with the handle in horizontal position as shown in figure 11.
- Insert firmly all the way in and turn the handle 90 degrees clockwise. After installation, the three filters should be as shown in figure 12.



5. START UP

5.1. FILTER RINSING

- Once the filters are installed, the dispenser tap must be opened. Next, we will open the water inlet tap to the equipment and to finish, we will connect the power plug to the socket. The equipment will start to perform an internal flushing of filters and membrane, with the purpose of eliminating air bubbles, membrane protection products and cleaning the filters of possible residues. During this time, the production flow rate will be diminished by the flow of flushing the filters. In the case that the rejection flow to the drain takes a few minutes to come out, it is advisable to repeat the start-up steps, because the pump could have an air bubble, making it cavitate, without being able to give water flow to the rest of the components.

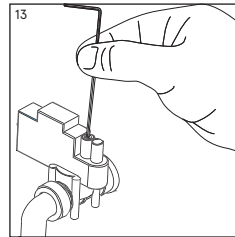
Keep in mind that the programmed time for this flushing is 30 seconds.

Please note that the programmed time for this wash is 5 minutes.

5.2. EQUIPMENT SANITISATION

- Sanitise the equipment according to the model and procedure indicated by the manufacturer (see Sanitisation Procedure). If in doubt, consult your distributor.

5.3. SYSTEM TIGHTNESS, SHUTDOWN AND START-UP



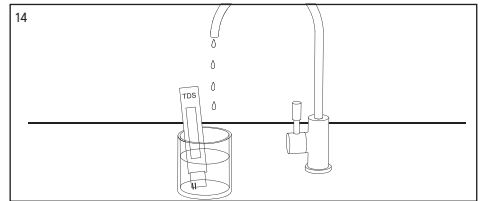
- Close the dispensing tap and keep the equipment hydraulically and electrically powered by carrying out an ocular check of the system to ensure that there are no leaks (for approx. 5 minutes).

- In case the pump of the unit does not stop, adjust the tare of the maximum pressure switch with a 2" Allen key until the pump stops (13).

Open the dispensing tap. The equipment should activate and dispense water. Close the tap again and check that the equipment stops.

5.4. RINSING AND CLEANING

- Open the dispenser tap and measure the quality of the water being produced. Using a conductivity or TDS meter, check that the salt reduction obtained is adequate with respect to the water to be treated (14).



! ATTENTION: if it is detected that the water dispensed does not comply with the national legislation in force, repeat the measurement. If the deviation persists, close the inlet tap of the equipment, empty it through the tap, disconnect it electrically and contact your technical service.

- In the event that, at the time of installation and commissioning, the leakage sensor has become wet, at the time of electrical connection, this warning will be activated, blocking the equipment. In order for the equipment to go into service, the system must be checked to ensure that there are no leaks and then the leakage sensor must be dried. Once the sensor is dry, the equipment will be automatically activated.

6. MAINTENANCE

! *ATTENTION: Some components of your equipment, such as the pre-filters and the membrane, are consumables that have a limited life.*

The duration will depend on the quality of the local water, consumption, type of use and specific aspects of the water to be treated such as extreme turbidity, high chlorination, excess iron, etc

RECOMMENDED MAINTENANCE

CF Prefilter: At least every 12 months .
RO osmosis membrane: Cada 5 años aprox (for soft waters to be treated. (hardness <15 °HF).
CB Postfilter: At least every 12 months.

Maintenance must be carried out by trained personnel, who must handle the equipment properly, as well as use original spare parts to maintain the characteristics, guarantee, certifications and performance of the equipment

! *ATTENTION: The use of non-original spare parts, or the installation outside the operating limits and improper commissioning, maintenance or use, may lead to the loss of the guarantee, as well as the invalidation of the certifications to which submitted from the unit.*

An excess of any compound (total chlorine, turbidity, hardness, etc...) can cause a reduction in the life of filters and certain components. These maintenances are indicative.

Your distributor will anticipate the duration of the consumables depending on the characteristics of the water to be treated and the expected consumption in each case.

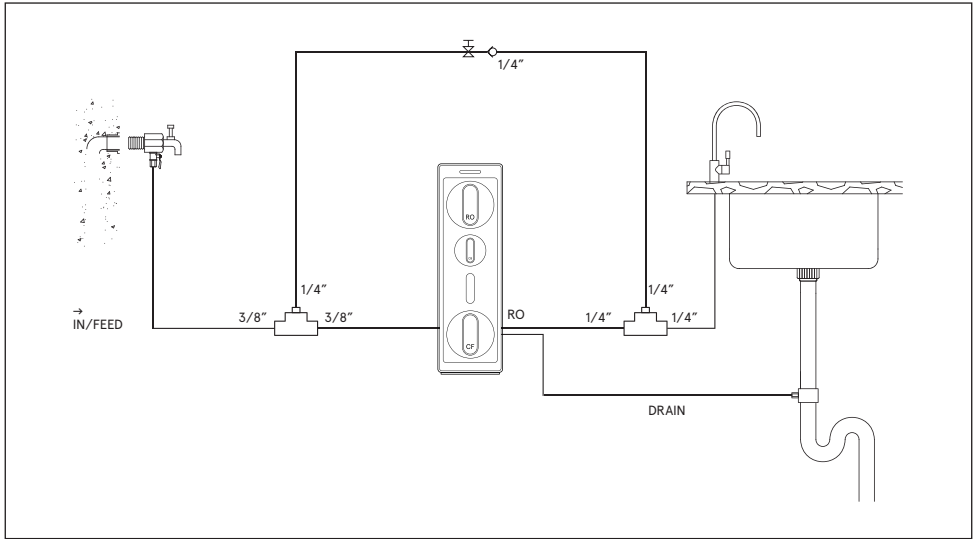
! *ATTENTION: All consumables are supplied in individual packaging specially designed to guarantee hygienic conditions for storage and transport. Exercise extreme hygiene precautions after removing the consumables from their packaging and when handling the various connectors and components.*

! *ATTENTION: Before dismantling the equipment, provide all the material you will need to carry out maintenance operations (read section 5 Installation) and the space necessary for this. Work in a well-lit place, in adequate hygienic conditions and with enough space to carry out operations comfortably.*

Carry out the filter change properly. Ensure the tightness of the joints and the original hydraulic configuration of the system as recommended by the manufacturer.

- Sanitize the equipment following the indications described in the Sanitation Procedure.
 - For more information, see the data sheet of the team.
- If you have any other questions, consult your dealer.

Hydraulic diagram.



SANITIZATION PROCEDURE

1. SANITIZING

Necessary material:

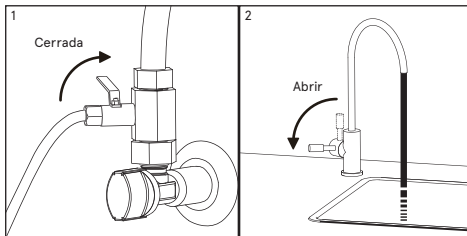
- Manual valve.
- Dosing housing and connectors.
- Oxibac (0.5 l).
- Brush.
- Single-use latex gloves.
- Easy-rinse soap or detergent.
- Food grade lubricant.
- Hydrogen peroxide detector strips.
- Sanitizing spray.
- Paper towel.

Sanitization:

- During start-up.
- At least every 12 months.
- Whenever we handle components in contact with water.

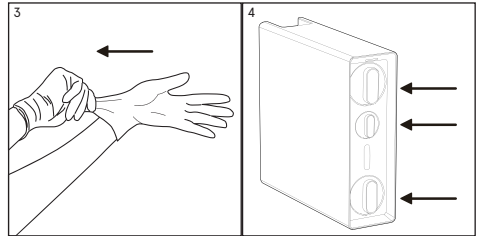
! ATTENTION: *The water used during sanitation must be drinking water (from the public distribution network complying with the corresponding potability requirements of RD 140/2003, European directive 98/83 or current local legislation).*

- Open the dispensing tap and let the water recirculate in order to renew the water inside the equipment.
- Close the inlet valve (1) and keep the dispensing tap open to reduce the pressure in the equipment.



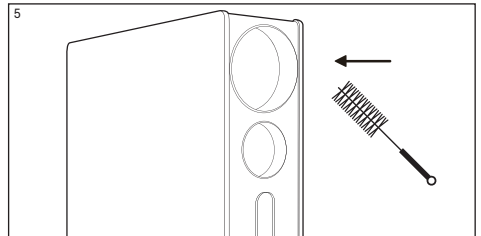
- Change the filters and/or membrane as indicated in the corresponding section of the Technical Manual.
- Sanitisation must be carried out with the cartridges installed in their housings.
- Use single (3) use vinyl gloves to handle the sanitising products.

! ATTENTION: *Extreme hygienic measures must be taken when handling filters, membrane and equipment components in contact with water. Use disposable gloves or wash your hands as often as necessary to avoid risk of contamination of the equipment.*



- In case of replacement of any of the cartridges for disposal, clean and dry the inside of the housing.

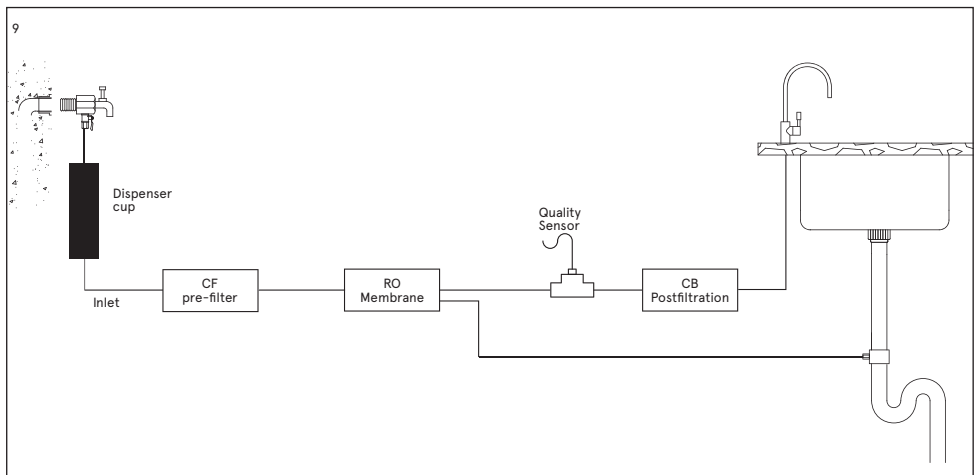
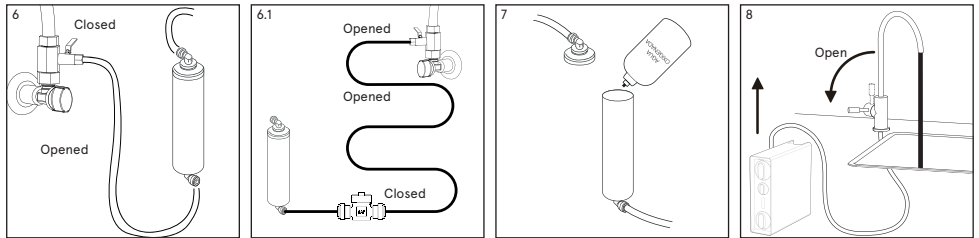
- Disinfect the cartridge connections with a brush (which must be kept clean and disinfected) and a suitable disinfectant.



2. PRE-FILTER AND MEMBRANE TREATMENT

- Disconnect the inlet pipe to the equipment marked as "feed-inlet", and insert the dosing cup between the stopcock and the water inlet of the equipment (6). For greater convenience and ease of access during sanitising and the opening and closing operations of the inlet valve, a manual valve in the closed position can be inserted together with the sanitising dosing cup, which will perform the same functions as the manual shut-off valve at the inlet to the equipment.
- Once the assembly is installed, keep the new manual inlet valve closed and open the inlet valve connected to the wall adapter (6). The dosing cup must be empty.

- Pour 0.25 litres of Hydrogen Peroxide into the dosing cup inserted in the inlet of the unit (7). Screw the cup correctly to its head.
- The manual inlet valve and the tap must be closed. Connect the equipment to the power supply.
- Open the water inlet tap to the equipment and the dispenser tap, connect the appliance to the mains socket and allow it to start working, letting it suck the Hydrogen Peroxide into the appliance. Fill a 1L jug with the water from the dispenser tap. Before closing the dispenser tap, close the inlet tap again to lower the pressure. Fill the dispenser again with 0.25l of hydrogen peroxide and repeat the above steps and finish by closing the dispenser tap. At this point, the entire circuit contains sanitising liquid.
- After 10 minutes, open the dispenser tap (8) and let the mains water circulate for 5 minutes.
- Empty the dosing cup. Before opening the dosing cup, have a container within easy reach to empty it, as it may be full of water.



- Pay special attention to sanitizing the tap spout. Use the sanitizing spray (or, failing that, hydrogen peroxide, dosing it in such a way that it penetrates the tap) and single-use kitchen paper. Spray the spray on the tap nozzle (10), clean the spout and tap nozzle with the disposable paper and do not touch it directly with your hands (11).

3. RINSE

- Once the sanitisation has been carried out, it shall be carried out:

- If the machine has just been installed, the system shall be flushed by letting the water flow out of the tap for 5 minutes.

- If the filter or membrane has been changed, reset the changed cartridge and let the water flow out of the tap for at least 5 minutes.

- Rinse with plenty of water that complies with the applicable local regulations regarding the parameters of water potability.

- At the end of the rinse, take a kitchen towel and dry all the parts that may have got wet, especially the Aquas-top leak detection probe (if the unit is equipped with one).

DATA SHEET

1. TECHNICAL CHARACTERISTICS

FUNCTIONING LIMITS

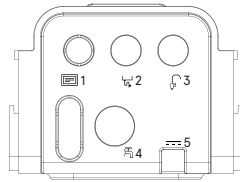
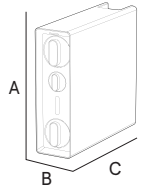
	PUMP SYSTEM*
Presión (máx./mín.):	4 bar - 1 bar (400kPa-100kPa).
TDS (máx.):	1500ppm**.
Temperatura (máx./mín.):	38 °C - 5 °C.
Dureza (máx.):	15 °HF. ***

Control type: 1. Maximum pressure switch.
2. Inlet control solenoid valve.
3. Flushing solenoid valve.
4. Flushing solenoid valve.

Security system: Minimum pressure switch.
Electronic leakage sensor.
Water quality control.
Maintenance warning.

Dimensions (A x B x C in mm): 437 x 137 x 462.
Weight (in kg, including all accessories): 12,45.

Inlet connection: 3/8".
Drain connection: 1/4".
Faucet connection: 1/4".
Wall adapter: 3/8" M-F. ****
Drain Collar: Clamp
for 40 mm drain pipe.



1. Data interface
2. Drain
3. Faucet
4. Inlet
5. "Power"

* Flow rates may vary by 20% depending on the temperature, pressure and specific composition of the water to be treated.

** For salinity higher than 1500ppm, please consult your distributor.

*** Higher hardness may reduce the life and performance of certain components.

**** May vary depending on the model.

CF Prefilter

1 x combined sediment/carbon.



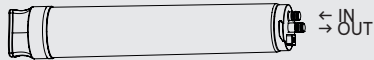
RO Membrane

1 x 800 GPD Membrane.



CB Postfilter

1 x Carbon postfilter.



Power supply:

24 VDC 5 A.

Power Adapter:

100-240 Vac 50 / 60 Hz: 24 Vdc.

Faucet:

Smart faucet.

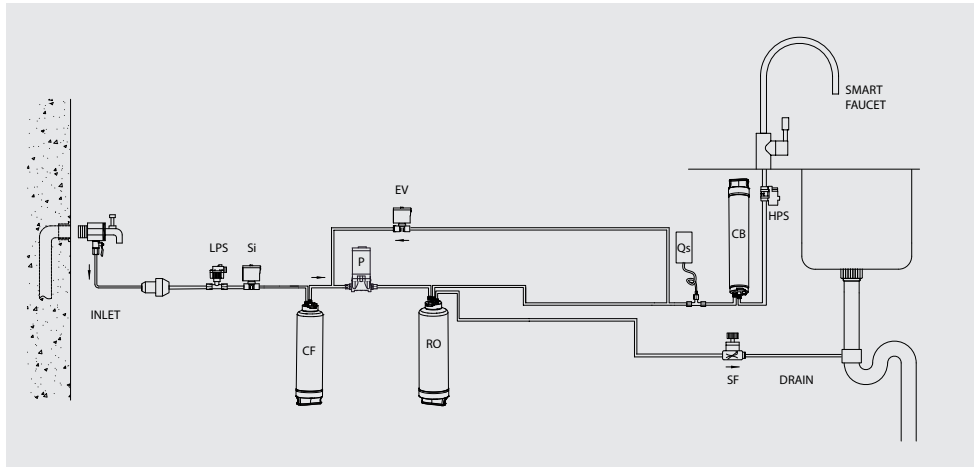
Production:

2 lpm. (inlet water conditions: 450 µS, 15 °HF, 17 °C and 3 bar)

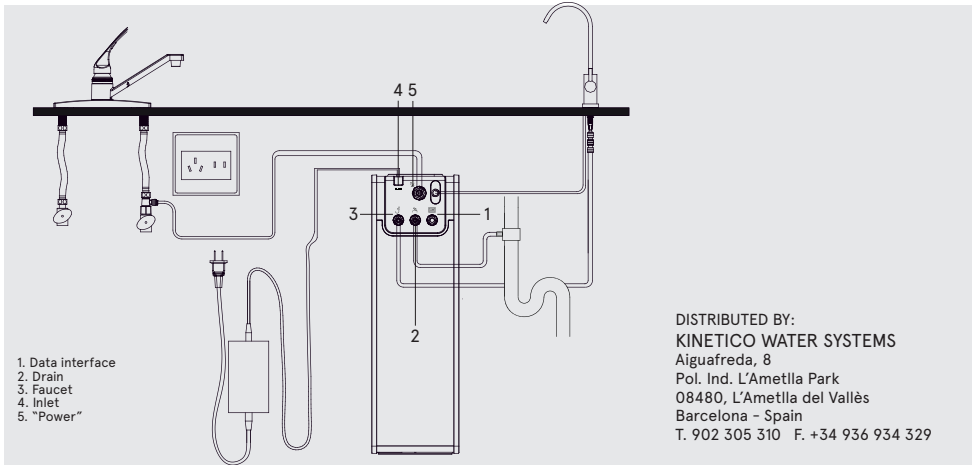
Membrane cleaning system:

Automatic car washes (see section 3.2)

HYDRAULIC DIAGRAM:



HYDRAULIC CONNECTION DIAGRAM



2. WORKING OF THE EQUIPMENT

- The mains water to be treated enters the equipment through the pre-filtration stage, which incorporates a turbidity filter and a CF carbon filter. In this filtration stage, suspended particles, chlorine, its derivatives and other organic substances are retained.

- The equipment incorporates a minimum pressure switch to protect the pump against pressure drops in the network (LPS).

- The passage of water into the equipment is controlled by a solenoid valve (Si).

- The water, after being treated in the filtration stage, is driven towards the reverse osmosis membrane (RO). The equipment incorporates a pump (P) to increase the pressure. The pressure of the water on the membrane makes the reverse osmosis process possible.

- Before leaving the dispensing tap, the water passes through the carbon post-filter, which improves the taste.

- Reject water or water with excess salts and other dissolved substances is directed to the drain for disposal.

- The direct flow equipment controls the start and stop by means of a pressure switch (HPS).

- The equipment incorporates various functional and/or safety systems, managed by a state-of-the-art electronic module:

- Electronic leak detection system (L). When the system detects this situation, it blocks the equipment, emitting an acoustic and light signal to inform about it. The equipment will remain blocked until the detection probe is dry.

- Probe for estimating the conductivity of the produced water to evaluate the state of the membrane and

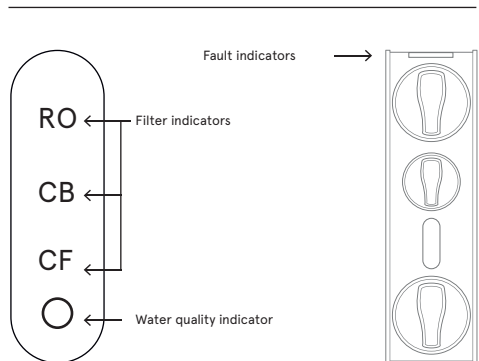
components (Q). When dispensing water from the tap, the system will measure the conductivity of the water produced.

- Automatic filter change warning, in order to inform the user that the appropriate maintenance must be carried out to guarantee the quality of the water dispensed.

- Standby water recirculation solenoid valve, to maintain the quality of the water dispensed (see section 3.3).

3. INTERFACE SYSTEM STATUS

Display:



3.1 WATER QUALITY INDICATOR COLOURS

- Blue: TDS ≤ 200ppm

- Purple: 200ppm < TDS ≤ 300ppm

- Orange: TDS > 300ppm

3.2. FILTER AND STATUS INDICATORS

FUNCTION	ACTION	LIGHT S TATUS
1. Functional flushing for first use.	When the system is turned ON the RO will flush the membrane for 5 minutes. After that, we must open the faucet for 30 minutes.	During flushing, the water quality light is shown flashing red at 1Hz. After 6 minutes, the water quality light will return to the live measurement status.
2. Flushing at start-up electrical ignition of the appliance.	Whenever the system is started, it will flush the RO membrane for 20 seconds. If the user opens the tap, the machine will stop washing and go into normal mode.	When flushing is in progress, the water quality light is shown flashing RED at 1Hz.
3. Flushing when accumulating operating time.	Every time the accumulated working time reaches 2 hours, the system will flush the membrane for 20 seconds. If the user opens the dispenser tap, the machine will stop washing and go into normal mode.	When the wash is in progress, the water quality light shows the previous wash status.
4. Daily washing.	When the machine has been idle for 24 hours, the system will flush the membrane for 20 seconds. If the user opens the tap, the machine will stop washing and go into normal mode.	When the wash is in progress, the water quality light shows the previous wash status.
5. Washing after filter change.	<p>CF: When changing the CF prefilter and resetting its usage counter, the system will initiate a flush of the CF filter and RO membrane for 5 minutes.</p> <p>RO: When changing the RO membrane and restarting its usage counter, it must be flushed by running the tap for 30 minutes.</p> <p>CB: When changing the CB afterfilter and resetting its usage counter, the filter should be flushed by running the tap for 15 minutes.</p> <p>If all filters are changed and reset at the same time, the system will flush the CF filter and RO membrane for 5 minutes. Then open the tap for 30 minutes to wash the CB postfilter</p>	<p>When the CF filter is being washed, the water quality light is shown in red and will flash at 1Hz.</p> <p>When any other filter is being washed, the water quality light displays real time water quality data and flashes at 1Hz.</p>
6. Faucet opening.	The system is put into normal operation.	<p>During the first 30 seconds, the water quality light shows the latest water quality status.</p> <p>For the next 30 seconds, the water quality light displays the real time water quality data.</p>
7. Tap closure.	The system stops producing water and goes into standby.	The water quality light turns off.
8. Switching on the system.	The system starts.	<p>After the power is turned on, a beep sounds and all lights turn on and flash at the same time, changing from blue to purple to red. Each colour is displayed for 1 second.</p>
9. TDS Stand-By reduction system *(4 programming modes) see section 3.3	<p>30 minutes after the last water dispensing, the TDS reduction system will be activated to eliminate most of the salinity generated by direct osmosis.</p> <p>If the tap is opened again, the timer is reset and water will be dispensed under normal conditions.</p>	When the TDS reduction system is activated, the water quality light flashes the same colour as the previous operating status.

3.3. PROGRAMMING OPTIONS FOR THE TDS REDUCTION SYSTEM.

Guidelines for programme selection:

2 hour programme: it is recommended to select this programme when the water quality is tds > 750 ppm and inlet hardnesses > 20°f.

4 hour programme: it is recommended to select this programme when the water quality is tds > 500 ppm and inlet hardness < 20°f.

8 hour programme: it is recommended to select this programme when the water quality is tds > 250 ppm and inlet hardness < 20°f.

12 hour programme: it is recommended to select this programme when the water quality is tds > 100 ppm and inlet hardness < 20°f.

To access the tds reduction system selection mode, the following steps must be followed:

1. Switch on the system electrically.
2. Press the cb-filter button 5 times in succession and always within the first 10 seconds.

To switch from programme mode, the reset cycle must be restarted by following the steps below:

1. Switch on the system electrically.
2. Press the cb-filter button 5 times in succession and always within the first 10 seconds.

LOGIC	RO LED filter	CB LED filter	CF LED filter	Quality/fail LED indicator
Program 2h - 2 beeps	Blue LED	OFF	OFF	OFF
Program 4h - 3 beeps	OFF	Blue LED	OFF	OFF
Program 8h - 4 beeps	OFF	OFF	Blue LED	OFF
Program 12h - 5 beeps	OFF	OFF	OFF	Blue LED

*it should be taken into account that, in areas where the water temperature is warmer (> 18°C), this effect will be generated more quickly than in cold water areas and it is therefore recommended to reduce the time of the programmes.

**In the case of decalcified water < 8 °f, only the salinity of the water at the inlet of the appliance should be taken into account.

***in the case of unwanted contaminants in the inlet water, it is recommended to use the 2 or 4 hour programmes, depending on the general characteristics of the inlet water.

**** lowering the programming times will result in higher water consumption, due to the fact that the inside of the appliance will be washed (internal noise can be heard in the appliance).

In case of doubt, please contact your specialist supplier. specialist.

3.4. FAULT IDENTIFICATION AND RESOLUTION

TYPE	WARN		SOLUTION
	DISPLAY	ACOUSTIC	
1. Lack of water pressure at the inlet.	RO/CB and CF indicator blinking BLUE. Fault indicator steady RED.	3 beeps.	When the inlet pressure returns, the alarm is deactivated and returns to the normal state.
2. Leakage inside the machine.	RO/CB/CF and Quality indicator blinking RED. Fault indicator steady RED.	Beeps for 3 minutes.	When the leak is eliminated, the alarm is deactivated and returns to the normal state.
3. Continuous pump run-time protection (30-33 minutes)	RO/CB and CF indicator flashing RED. Fault indicator in steady RED	4 beeps.	Pump has been running for more than 33 minutes continuously. Disconnect and reconnect the electrical connection.
4. Pump start/stop protection	Indicator RO/CB and CF blinking PURPLE. Fault indicator in steady RED.	5 beeps.	Disconnect and reconnect the electrical electrical connection.
5. Low temperature protection.	Quality indicator flashes RED. Fault indicator in steady RED.	5 beeps.	Disconnect and reconnect the electrical electrical connection.
6. Security Security locking*	All indicators off.	0 beeps.	Perform maintenance. Call for service.

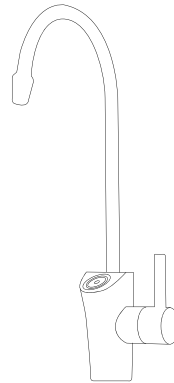
*When you detect that the equipment is in one of the in one of the described states, please contact contact the maintenance service to make an appointment to perform the required the required maintenance.
See the corresponding section in the technical manual. technical manual.*




3.5. FILTER LIFETIME DISPLAY

LIFE SPAN	REMAINING LIFESPAN (DAYS)	LITRES OF REMAINING CAPACITY	DISPLAY	WARN	ACOUSTIC
Normal.	> 30	> 300	Fixed blue LED.		No alarm.
Pre-notice.	$0 < X \leq 30$	$0 < Y \leq 300$	Blinking purple LED.		Double beep when water is dispensed and filter life is short.
Exhausted.	≤ 0	≤ 0	Fixed red LED.		Beeeping when dispensing water.
Security lock*.	≤ 0	≤ 0	Displays OFF.		No beeping.

*To guarantee the quality and characteristics of the water dispensed, 3 months after the filters have reached the end of their life without maintenance, the equipment will be blocked. Contact the technical service for maintenance.

3.6. ELECTRONIC DISPENSER FAUCET



QUALITY OF DISPENSER WATER	 BLUE / PURPLE / RED	BLUE: adequate dispensed conductivity. LILA: moderately high dispensed conductivity. RED: high dispensed conductivity.
FLUSHING	 BLINKING BLUE	The indicator flashes while the equipment is performing a self-cleaning flushing.
FILTER STATUS NEAR TO END LIFE	 BLUE / PURPLE / RED	BLUE: good condition. LILA: maintenance required in the near future. RED: end of life of a filter.

4. WARRANTY

The distributor guarantees the equipment for a period of three years against any lack of conformity detected in the equipment, as stipulated in Royal Decree-Law 7/2021, of 27 April, on the transposition of European Union directives in the areas of competition, prevention of money laundering, credit institutions, telecommunications, tax measures, prevention and repair of environmental damage, posting of workers in the provision of transnational services and consumer protection.

- The guarantee includes the repair and replacement of defective 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. The warranty includes labour and shipping costs that may be incurred.

- The distributor is exonerated from providing warranty in cases of parts subject to natural wear and tear, lack of maintenance, knocks or other non-conformities resulting from improper use of the equipment or inadequate use according to the operating conditions and limits indicated by the manufacturer of the equipment. Likewise, the guarantee loses effectiveness 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 liable for the lack of conformity of the equipment when this refers to the origin, identity or suitability of the products, in accordance with their nature and purpose. Taking into account the characteristics of the equipment, it is essential for the guarantee to cover the lack of conformity, the fulfilment of the technical conditions of installation and operation. Failure to comply with these conditions may result in the absence of warranty, taking into account the relevance of the purpose of the equipment and the operating conditions and limits under which it must operate.

- The distributor must guarantee that the equipment installed 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 guarantee the correct installation and commissioning of the equipment as indicated by the manufacturer and current regulations and will also be responsible for any lack of conformity derived from incorrect application, installation or commissioning of the equipment.

- For any warranty claim, it is necessary to present the purchase invoice. The two-year period is calculated from the purchase of the equipment from the distributor.

- If during the warranty period your equipment presents any problem, please contact your distributor.

The equipment is installed and operating satisfactorily for the client and for the record:

* Treatment prior to equipment:

* Hardness of entrance to the equipment(°F):

* Input TDS to the equipment (ppm):

* TDS produced water (ppm):

* Equipment inlet pressure(bar):

* Result of the installation and commissioning sheet:

Correct:

Other:

The owner of the equipment has been adequately and clearly informed of the use, handling and maintenance that the equipment requires to guarantee its correct operation and the quality of the water produced. A maintenance contract is offered for this purpose.

*Ref. Contract of maintenance:

ACCEPT the maintenance contract

DO NOT ACCEPT the maintenance contract

In case you need information, report a breakdown or malfunction, request maintenance or intervention by a technician, first read the sections on operation, detection and resolution of problems in this manual and contact the dealer or company that sold you your equipment.

COMPANY AND/OR AUTHORIZED INSTALLER, DATE AND SIGNATURE: NÚMERO DE SERIE:



NOTE FOR THE COMPANY AND/OR TECHNICIAN/INSTALLER AUTHORIZED: the data marked with the symbol * must be filled in by the installer technician and transcribe it himself from the INSTALLATION RECORD sheet.



5. INSTALLATION RECORD SHEET



NOTES FOR THE TECHNICIAN/INSTALLER: read this carefully Handbook. In case of any doubt, contact the Technical Assistance Service (SAT) of your distributor. The data marked with the symbol * must be filled in by the technician/installer and transcribed by him/her on the WARRANTY sheet. This sheet must be kept by the installer and may be required by the distributor in order to improve after-sales service and customer service to the client. The technician who performs the installation and commissioning of the equipment must have the training proper technique.

DATA ON THE APPLICATION OF THE EQUIPMENT:

Origin of water to treat:

PUBLIC SUPPLY

OTHERS

* Treatment prior to equipment:

* Hardness of entrance to the equipment(°F):

* Input TDS to the equipment (ppm):

* TDS produced water (ppm):

* Equipment inlet pressure(bar):

* Equipment inlet chlorine concentration (ppm):

CONTROL OF THE INSTALLATION STEPS:

Sanitization according to protocol described
Maximum pressure switch setting
Review and fittings
Pressurized system tightness

Produced water TDS (countertop tap) (ppm)
Clearly report the use, handling and maintenance that the equipment required to guarantee its proper functioning and the quality of the water produced.

COMMENTS

* Result of installation and commissioning:

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

OTHERS :

IDENTIFICATION OF THE TECHNICIAN/INSTALLER AUTHORIZED:

COMPANY AND/OR AUTHORIZED INSTALLER, DATE AND SIGNATURE:

CONFORMITY FROM THE EQUIPMENT OWNER:

I have been clearly informed of the use, handling and maintenance required by the installed equipment, having been offered a maintenance contract and informed of how to contact a Customer Service in case of requesting information, communication of failure or malfunction, request for maintenance or intervention of a technician.

Comments:

*Ref. Contract of maintenance:

ACCEPT the maintenance contract

DOES NOT ACCEPT the maintenance contract

Model/Ref.:

Owner:

Street:

Telephone:

Population:

Province:

ZIP:

SERIAL NUMBER:

EQUIPMENT WARRANTY ADDRESSED TO THE DISTRIBUTOR:

The distributor will only be responsible for the substitutions of parts in case of non-conformity. The repair of equipment and the expenses that it entails (labor, shipping costs, travel, etc.) will be assumed by the distributor, in accordance with what was agreed in the general conditions of contracting and sale, for which reason may be subsequently passed on to the manufacturer.



6. MAINTENANCE SERVICE

DATE	TYPE OF SERVICE	NAME, SIGNATURE AND STAMP OF THE AUTHORIZED TECHNICIAN	
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