

CERTIFIED

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EQUIPMENT

ODIRECT
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MANUAL

REVERSE OSMOSIS
EQUIPMENT

ODIRECT

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INDEX	P
1	User manual 4
2	Technical manual 8
3	Sanitization procedure 14
4	Data sheet 18

USER MANUAL

MAIN FEATURES



**CLICK
QUICK CONNECTIONS
AND MAXIMUM SECURITY**



**FILTER CONTROL
AUTOMATIC
MAINTENANCE WARNINGS**



**SOLENOID VALVE
IMMEDIATE CONTROL**



**DIRECT FLOW
DIRECT PRODUCTION
OSMOTIC WATER**



**STATUS LED
STATUS INDICATIONS**



**HIGH PERFORMANCE PUMP
HIGH MOTOR PERFORMANCE**



**SECURITY LOCK
SECURITY LOCK**



**ELECTRONIC ADAPTER
GREATER SECURITY AND
EFFICIENCY**



**DOUBLE FLOW
GREATER FLOW
DISPENSED WATER**



**DIRECT ACCESS
EASY ACCESS
AND MAINTENANCE**



**AUDIO WARNINGS
SOUND WARNINGS**



**HIGH EFFICIENCY
HIGH RECOVERY**



**CAPSULATED
MEMBRANE**



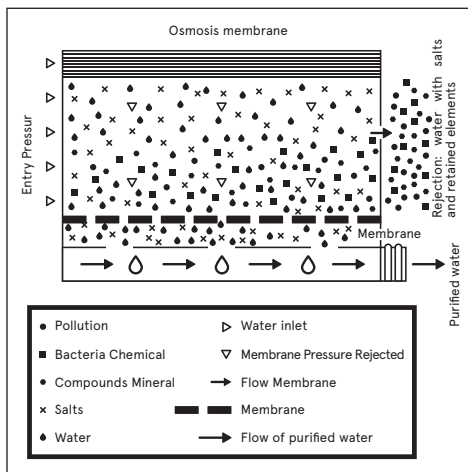
Please keep this manual, which includes the service book and warranty sections, in order to provide you with better after-sales service.

1. INTRODUCTION

Congratulations. You have acquired an excellent domestic water treatment equipment. This equipment will help you improve the characteristics of the water.

2. WHAT IS OSMOSIS?

Natural or direct osmosis is the most common in nature, since semipermeable 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 concentrations of salts are separated by a membrane semipermeable, naturally, a flow of water occurs from the solution of lower concentration to that of higher concentration. This flow continues until the concentrations on both sides of the membrane become equal. When it comes to reversing this process and achieving a water flow with a lower concentration of salts from of one with a higher concentration, sufficient pressure must be applied, from the part with the highest concentration on the membrane, to overcome the natural tendency and flow of the system. This process is what we call reverse osmosis. Currently, reverse osmosis is one of the best methods to improve the characteristics of water, through a physical-chemical system (without the use of added chemicals). The water to be purified puts pressure on the semipermeable membrane, so that part of it will be able to pass through the pores of the membrane (osmotized water), while the rest of the water (rejected and with a higher concentration of salts) will be diverted towards the drain (Fig. 1).



3. PREVIOUS WARNINGS

! **ATTENTION:** Carefully read the warnings described in the corresponding section of the Technical Manual.

! **ATTENTION:** These devices **THEY ARE NOT WATER PURIFIERS**. 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 purification by applying the techniques and equipment - appropriate to each need, PRIOR TO THE INSTALLATION of the equipment. Contact your distributor in order to advise you on the most appropriate treatment for your case. Water treatment equipment requires periodic maintenance carried out by qualified technical personnel, in order to guarantee the quality of the water produced and supplied. Except maintenance technicians, no one else is authorized to disassemble and repair, to avoid fire and electric shock.

3.1. USE OF EQUIPMENT

- When you are going to be away for more than a week, close the water inlet valve to the equipment, empty it and disconnect it from the power supply. When you return, open the inlet valve and the faucet, connect the power supply and let the water run for at least 5 minutes before consuming water.

! **ATTENTION:** After a prolonged period (more than a month) in which the equipment has not worked or produced water, contact your distributor in order to carry out sanitize and maintenance.

- Dispense entire jugs or bottles and avoid occasional dispensing of glasses to improve equipment performance.

! **ATTENTION:** If You must pay special attention to the cleaning and hygiene of the osmosis faucet, on a regular basis and especially at the time of installation. Carrying out periodic maintenance and sanitization. To do this, use the sanitizing spray and single-use disposable kitchen paper. Under no circumstances should the cloth be used to dry hands or the multipurpose cloth used for cleaning the kitchen.

This appliance can be used by children aged 8 years and older 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 dangers involved. Children should not play with the device. Cleaning and user maintenance should not be carried out by children without supervision.

3.2. 3.2. RECOMMENDATIONS FOR THE CORRECT USE OF OSMOTIC WATER

· If you wish to supply osmotized water to any other point of consumption (such as refrigerators, coffee makers, ice machines, water dispensing machines, another tap, etc.), the tubing must be made only with a plastic tube that meets the requirements. laws established for human consumption. If you use other materials, you could give bad tastes to the water and generate oxidation.

! **ATTENTION:** *The water provided by domestic osmosis equipment has LOW MINERALIZATION. The mineral salts that the human body needs are mainly provided by food, especially dairy products and in to a lesser extent by drinking water.*

· It is recommended not to use aluminum utensils to cook with osmosis water.

3.3 CONDITIONS FOR THE CORRECT OPERATION OF THE EQUIPMENT

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

In the event that the water to be treated contains::

1. Hardness greater than 15°F.
2. Free chlorine concentrations > 1.2 mg/l.
3. High iron or manganese concentrations (greater than 1 mg/l, measured in equipment rejection).
4. Turbidity greater than 3 NTU.
5. Nitrate concentrations > 100 mg/l.
6. Sulfate concentrations > 250 mg/l.

4. BASIC OPERATION

The steps are described in the Technical Sheet section of system operation (pp. 18-23).

5. INTERFACE WITH USER

! **ATTENTION:** *This equipment incorporates an electronic controller that will efficiently manage the functionality and status indications in the that is found, 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.

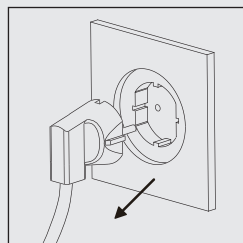
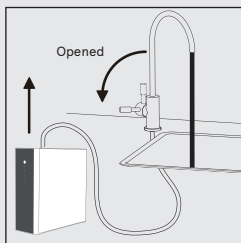
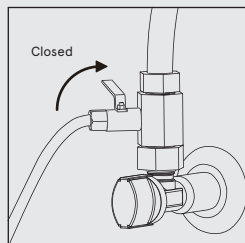
6. MAINTENANCE

In order to guarantee the quality of the water supplied by your equipment, periodic maintenance must be carried out.

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

7. PROBLEM IDENTIFICATION AND RESOLUTION

PROBLEM	POSSIBLE CAUSE	SOLUTION
1. Leak at the outside the equipment.	<ul style="list-style-type: none"> • Breackage of some internal part of the equipment. • Bad connection of the installation. • Deterioration of some plastic tube. • Poor connection of the filter or membrane. • Has not been depressurized correctly the equip-ment before changing the membrane or filter. 	<ul style="list-style-type: none"> • Check all installation connections. • Let the machine depressurize correctly, and reinstall the filter or membrane. • If you have to disassemble the equipment, call technical service first.
2. Zero production.	<ul style="list-style-type: none"> • There is no water supply. • There is no electricity supply. • Blocked membrane. • Transformer voltage less than 24 VDC. • Blocked inlet filter. 	<ul style="list-style-type: none"> • Wait for the supply to return. • Check the electrical supply to the home. • Check the transformer voltage. • Check the membrane and the inlet filter.
3. Low production.	<ul style="list-style-type: none"> • Partially closed inlet valve. • Filters/membrane in poor condition or exhausted. • Rejection valve blocked, flow rate less than 1 litre per minute. • Pump blocked or with air inside (cavitations) • Low temperature of the water supplied to the equipment. 	<ul style="list-style-type: none"> • Open it completely. • Replace the filter or membrane. • Change rejection valve. • Change pump in case of blockage. • Unplug and plug the machine back in to perform a flushing cycle and eliminate 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 liter 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 taste and smell.	<ul style="list-style-type: none"> • Membrane in poor condition. • The equipment has been stopped for a long time. • No sanitation has been carried out. • Not purged correctly the sanitizing product. 	<ul style="list-style-type: none"> • Replace membrane. • Perform disinfection. • Properly purge the device.
6. Whitish cloudy water.	<ul style="list-style-type: none"> • Air in the system. Air microbubbles that disappear after a few seconds. 	<ul style="list-style-type: none"> • It's not a problem. The appearance will disappear as the air inside the equipment is eliminated.
7. Continuous dripping noise in drain.	<ul style="list-style-type: none"> • Device depressurization after production. • Dirty inlet valve, or in poor condition. • Diaphragm non-return valve (production) dirty, blocked or in poor condition. 	<ul style="list-style-type: none"> • Wait a few minutes, and check if the dripping stops. • Cleaning or changing the inlet valve. • Check membrane non-return valve.
8. The equipment does not start.	<ul style="list-style-type: none"> • There is no water supply. • There is no electricity supply. • Inlet filter blocked. • Machine locked by alarm. • Faulty high pressure switch. 	<ul style="list-style-type: none"> • Check the status of the inlet valve and the equipment. • Check the general power supply. • Change the inlet filter. • If there is power supply, but the lights do not turn on, contact technical service. • Change the high pressure switch.
9. The equipment stops and starts constantly.	<ul style="list-style-type: none"> • Leak at production outlet. • Closures of electric valves of external devices do not function correctly or have internal leaks. • Production check-valve does not close correctly. 	<ul style="list-style-type: none"> • Check osmosis water installation, in case there are leaks and repair. • Check the closing mechanisms of the devices connected to the equipment and ensure correct functioning. • In the case of installing dispensing faucets, check for abnormal dripping and repair. • Review anti-return valve.
10. The unit never stops reject- ing water towards the drain.	<ol style="list-style-type: none"> 1. Inlet solenoid valve deteriorated. 2. Faulty check-valve. 	<ol style="list-style-type: none"> 1. 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. EQUIPMENT INSTALLATION

· If the installation has to be conditioned to be able to install the equipment in the planned location, it must be carried out following national standards for interior installations of water and electrical supplies.

· These devices require an electrical outlet less than 1 metre away (1).

· It is recommended not to install the equipment lying down or inclined. (2).

The equipment filled with water weighs more, the distribution of weights in an unforeseen position could cause some connection element to be forced, which could cause malfunction, damage to equipment components or loss of water.

· The place planned for its installation must have sufficient space for the device itself, its accessories, connections and for carrying out convenient maintenance (3).

· Under no circumstances will the equipment be installed outdoors (4).

· The environment and environment where the equipment is installed and its subsequent connections must comply with certain adequate hygienic-sanitary conditions.

· Do not expose flammable, explosive, volatile or strongly magnetic substances close to the water purifier.

· The appliance should only be used with the power supply supplied with the appliance.

· The device should only be powered at a voltage between 100 and 240 VAC 50/60Hz.

· The adapter should be installed vertically on the wall or cabinet. Do not place the adapter flat on the bottom of the cabinet.

· Do not use damaged power supplies or plugs, nor extensions.

· If the power cord is damaged, to avoid danger, it must be replaced by a designated professional after-sales maintenance technician.

· Do not touch the power plug with wet hands.

· Do not use under high water pressure conditions.

· Avoid external drips on the equipment, coming from pipes, drains, etc.

! **ATTENTION:** *The equipment should not be installed next to a heat source or receive directly a flow of hot air on it.*

· The new tubes supplied with the appliance must be used and the old tubes must be discarded appropriately.

2.1. COMMISSIONING AND MAINTENANCE

! **ATTENTION:** *Maintenance must be carried out by qualified technical personnel, with adequate hygienic attitude and conditions, in order to reduce the risk of internal contamination of the device and its hydraulic system. (For more information contact your distributor's technical service).*

· Consumable elements must be replaced with the frequency indicated by the manufacturer.

· The equipment must be sanitized periodically and at its commissioning.

· During the first 30 minutes, after starting it up, or after changing the filter and/or membrane, the quality of the water may vary up to its optimal operating performance.

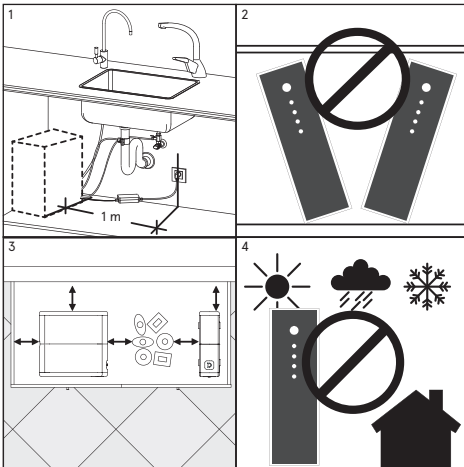
3. UNPACKING

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

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


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

! **ATTENTION:** *Dispose of properly and keep plastic bags out of the reach of children. plastic, as they can be a danger for 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 recycling containers, selective solution or at the specific local center for the recovery of waste materials.

This product cannot be thrown away with the usual urban refuse. 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 specific recycling point or local centre for recovery.

 of materials, indicating that it has electrical and electronic components. The correct collection and treatment of useless devices contributes to preserving natural resources and also to avoiding potential risks for public health.

4. INSTALACIÓN

It is not recommended that end customers perform the installation themselves. Be sure to contact customer service to make an appointment for professional on-site installation. Users shall bear any related accidents and losses caused by the user's self-installation.

! ATTENTION: *Since the device that is going to be installed improves the quality of the water that is going to be consumed, all the tools that are going to be used*

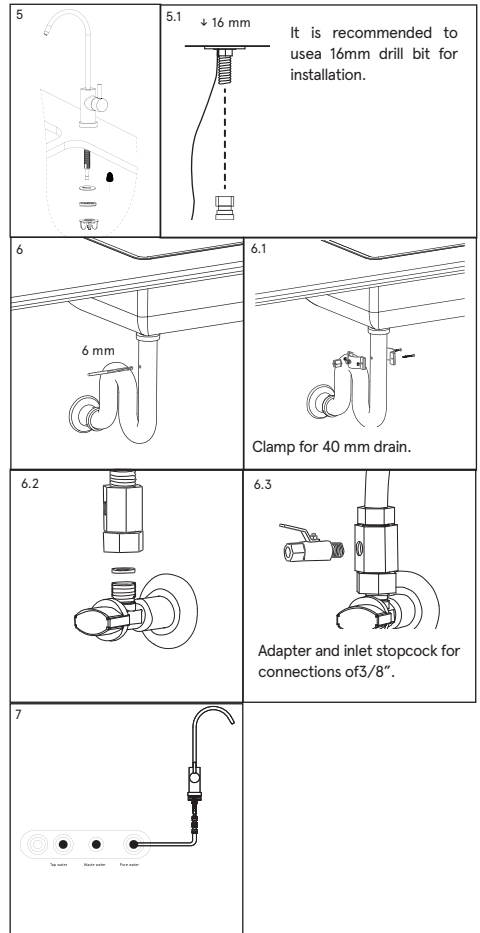
For assembly and installation, must be clean and in no case may they be contaminated or impregnated with grease, oil or oxides. Use tools exclusively for cutting tubes, handling the membrane, etc. Keep them clean and disinfect them periodically.

! ATTENTION: *The work must be carried out with an attitude and adequate hygienic conditions, taking extreme precautions in everything related to materials and components that will be found in contact with the water to be treated or consume.*

(For more information, contact your distributor).

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

The most common place to install the unit is usually under the kitchen counter or in an adjacent cabinet. Install the faucet, the drain collar kit and the inlet adapter and connect them to the respective connectors on the kit (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

- If you wish to increase the pH, and/or the conductivity and/or the chlorine concentration at the outlet, you must carry out the installation according to the following diagram and using the corresponding components included in the mixing kit (consult with your distributor).

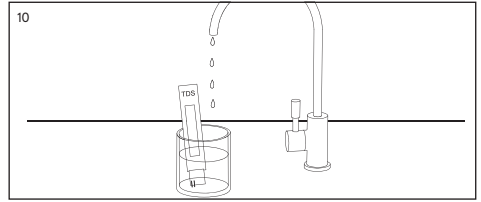
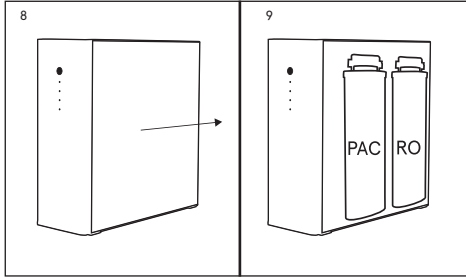
- After start-up, open the dispenser tap and with the corresponding meter of the parameter of interest, measure the water dispensed and open slowly and progressively the mixing valve until the desired parameter is achieved.

- The water dispensed must meet the requirements of potability established by European Directive 98/83 or corresponding national legislation that transposes it.

See hydraulic diagram on page 13.

4.2. INSTALLING THE FILTERS

- Open the side cover, sliding it backwards (8).
- Lift the safety tab and insert the filters into their respective location.
- PAC prefilter (left) RO membrane (right) (9).



! ATTENTION: if you detect that the water dispensed does not comply with current national legislation, perform the measurement again. If the deviation persists, close the equipment inlet valve, empty it through the tap, disconnect it electrically and contact your technical service.

5. START UP

5.1. FILLING AND PURGING THE EQUIPMENT

- Once the filters are installed, the dispensing tap must be opened. Next, we will open the water tap to the equipment and finally, we will connect the power outlet to the socket. The unit will begin to carry out an internal flushing of the 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 will be reduced by the filter flushing flow. In the event that it appears that the drain rejection flow takes a few minutes to come out, it is advisable to repeat the start-up steps, because the pump could have an air bubble, causing it to cavitate, without being able to give water flow to the rest of the components.

Please note that the time programmed for this washing is 5 seconds.

5.2. EQUIPMENT SANITATION

- Clean the equipment, depending on the model and procedure indicated by the manufacturer (see Sanitation Procedure). If you have any questions, consult your distributor.

5.3. SYSTEM SEALING, STOP AND START

- Close the dispensing tap of the equipment on the countertop and keep the equipment hydraulically or electrically powered by visually checking the system to ensure that there are no leaks (for approximately 5 minutes).

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

5.4. RINSE AND CLEAN

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

6. MAINTENANCE

! *ATTENTION: Some components of your equipment, such as the prefilter and the membrane, are consumables that have a limited duration.*

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

PAC prefilter: at least every 12 months.

RO osmosis membrane: Approximately every 3 years (for soft waters to be treated (hardness <15°HF).

Maintenance must be carried out by trained personnel, who must handle the equipment appropriately, as well as use original spare parts to maintain the characteristics, warranty, certifications and performance of the equipment and thus preserve the quality of the water dispensed.

! *ATTENTION: The use of non-original spare parts, installation outside the limits of operation and start-up, maintenance or improper use may lead to the loss of the warranty, as well as the invalidation of the certifications to which the equipment has been submitted.*

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.

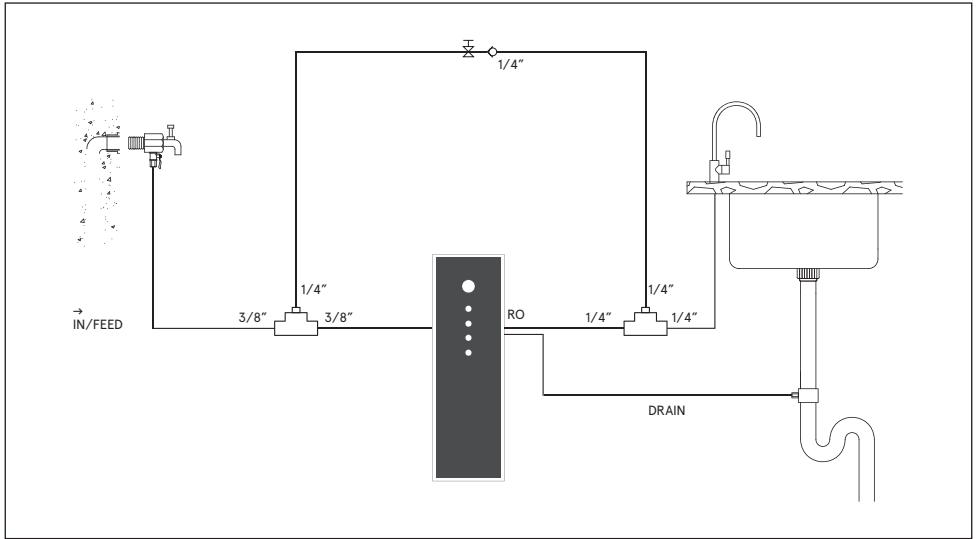
Your distributor will predict the life of the consumables depending on the characteristics of the water to be treated and the expected consumption in each case.

! *ATTENTION: All consumables are supplied with individual packaging specially designed to guarantee hygienic storage and transportation conditions. Take extreme hygiene precautions after removing the consumables from their packaging and during handling the different connectors and components.*

! *ATTENTION: Before disassembling the equipment, prepare all the material that will need to carry out maintenance operations and space necessary for it. Work in a properly lit place, in adequate hygienic conditions and with enough space to carry out the operations comfortably.*

- Change the filter and/or membrane appropriately. Ensure the tightness of the joints and the original hydraulic configuration of the system as recommended by the manufacturer.
- Sanitize the equipment following the instructions described in the Sanitation Procedure.
- For more information, consult the equipment technical sheet. If you have any other questions, consult your distributor.

Hydraulic diagram.



SANITIZATION PROCEDURE

1. SANITIZATION

Necessary material:

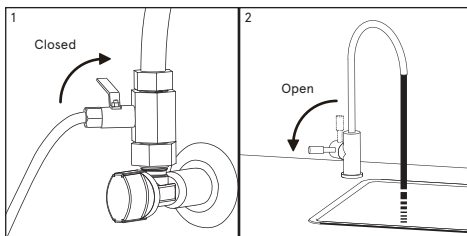
- Manual valve.
- Measuring housing and connectors.
- Hydrogen peroxide 3% (0.5 l).
- Brush.
- Single-use latex gloves.
- Easy-rinse soap or detergent.
- Food base lubricant.
- Hydrogen peroxide detector strips.
- Sanitizing spray.
- Kitchen paper towel.

Sanitization:

- At start-up.
- At least every 12 months depending on use.
- Every time components in contact with water are accessed or water has not been consumed for more than a month.

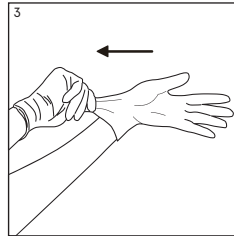
! *ATTENTION: The water used during sanitation must be potable water (from the public distribution network, complying with the corresponding potability requirements of RD 140/2003, directive European 98 / 83 or current local legislation).*

- Open the dispenser tap and let 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.

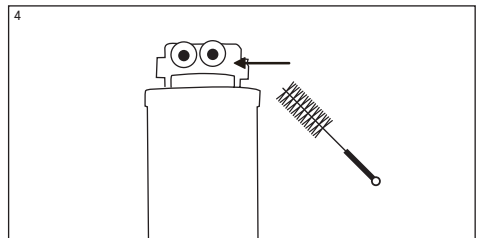


- Change the filters and/or membrane as indicated in the corresponding section of the Technical Manual.
- Sanitization must be carried out with the cartridges installed in their housings.
- Use single (3) use latex gloves to handle sanitizing products.

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



- In case of replacing 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 appropriate disinfectant product.



2. PREFILTER TREATMENT AND MEMBRANE

- Disconnect the inlet tube to the equipment marked "Input-Tap water", and insert the dosing housing between the inlet valve and the water inlet of the equipment (6). For greater comfort and ease of access during sanitization and the opening and closing operations of the inlet valve, you can insert, together with the sanitizing dosing cup, a manual valve in the closed position, which will perform the same functions as the manual shut-off valve at the entrance 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 (5). The dosing housing must be empty.

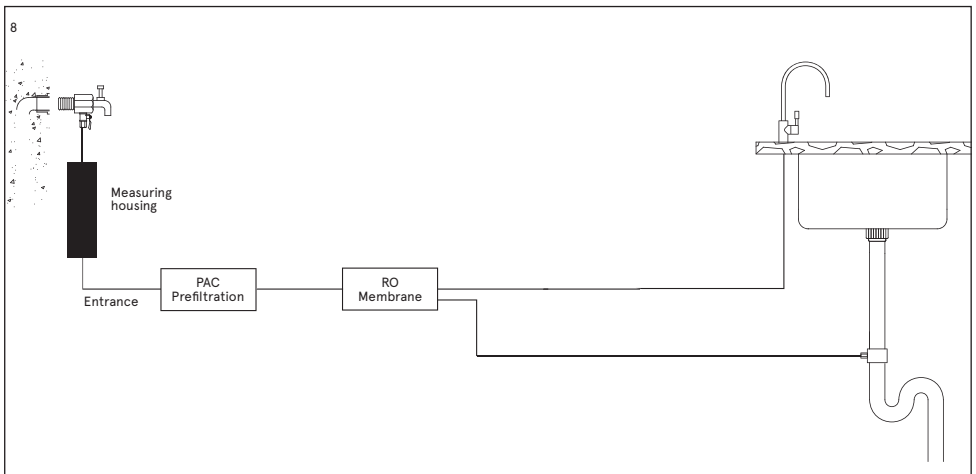
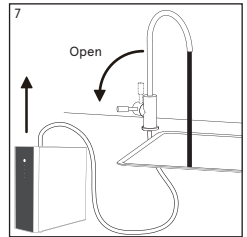
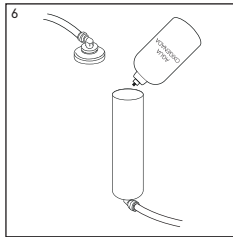
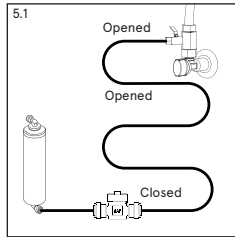
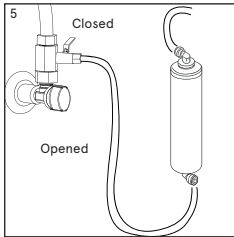
- Pour 0.25 liters of Hydrogen Peroxide into the dosing housing inserted in the inlet of the equipment (6). Screw the body correctly to its head.

- The manual inlet valve and the tap must be closed. Connect the equipment to the electrical power.

- Open the water inlet valve to the equipment and the dispensing tap, connect the device to the power outlet and allow it to start operating and letting it suck the Hydrogen Peroxide into it. Fill a 1L jug with water from the dispenser tap. Before closing the dispensing tap, close the inlet valve again to lower the pressure. Fill the dispenser again with 0.25l of hydrogen peroxide and repeat the previous steps and finish by closing the dispenser tap. At this moment the entire circuit contains sanitizing liquid.

- After 10 mins. Open the dispenser tap (7) and let the tap water circulate for 5 minutes.

- Empty the measuring housing. Before opening it, have a container within reach where you can empty it, as it may be full of water.



- Pay special attention to sanitizing existing consumption points (dispensers, taps, etc...). Use the sanitizing spray (or failing that, hydrogen peroxide, dosing it in such a way that it penetrates the tap spout) and single-use drying paper. Spray the product on the tap nozzle, rub the spout and tap nozzle with the disposable paper and do not touch it directly with your hands.

3. RINSE

Once sanitation has been carried out, you must:

- If the machine has just been installed, the system will be flushed by letting the water run through the tap for 5 minutes.

If the filter or membrane has been changed, the changed cartridge must be reset, perform a manual flush for 1 minute and let the water run through the tap for 5 minutes.

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

- When finished, take a piece of kitchen paper and dry all the parts that may have gotten wet, especially the Aquastop leak detection probe (if the equipment includes it).

DATA SHEET

1. TECHNICAL CHARACTERISTICS

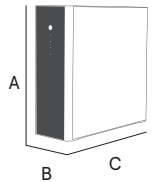
APPLICATION

OPERATING LIMITS

	EQUIPMENT WITH PUMP*
Pressure (max/min):	4 bar - 1 bar (400kPa-100kPa).
TDS (max):	1500ppm**.
Temperature (max/min):	38 °C - 5 °C.
Hardness (max.):	15 °HF. ****

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

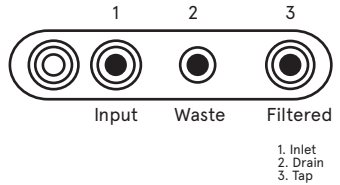
Security system: Notice of maintenance.
Security lock



Dimensions (A x B x C en mm): 390 x 145 x 390.

Weight (in kg, including all accessories): 12.45.

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



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

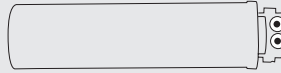
** For salinities greater than 1500ppm, consult your distributor.

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

**** You may vary depending on the model.

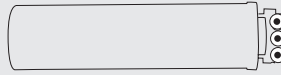
PAC Prefilter

1 x combined sediment/carbon.



RO

1 x 800 GPD Membrane.



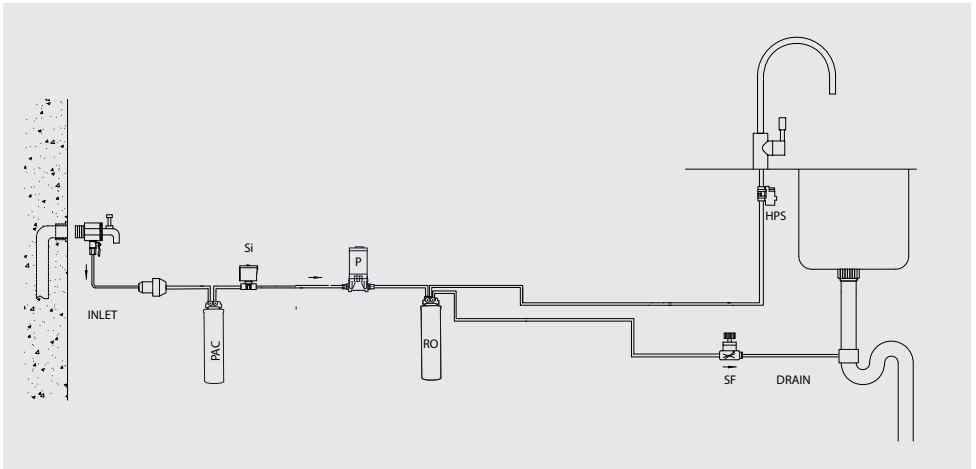
Power supply:
Power Adapter:
Production:

24 VDC 4 A.
100-240 Vac 50/60 Hz: 24 Vdc.
2 bpm. (inlet water conditions: 450 µS, 15 °HF, 17 °C and 3 bar)

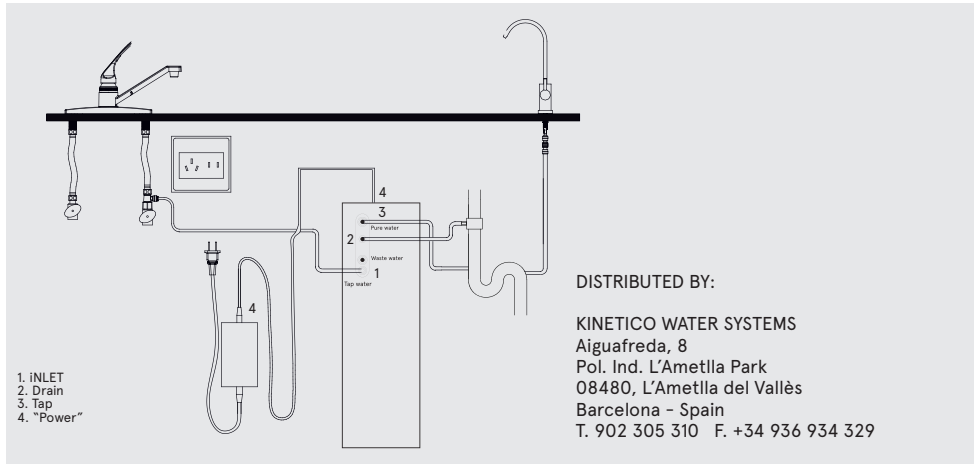
Membrane cleaning system:

Automatic car washes (see section 3.2)

HYDRAULIC DIAGRAM



HYDRAULIC CONNECTION DIAGRAM



2. TEAM'S FUNCTIONING

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

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

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

- The rejected water or water with excess salts and other dissolved substances is directed towards the drain for elimination.

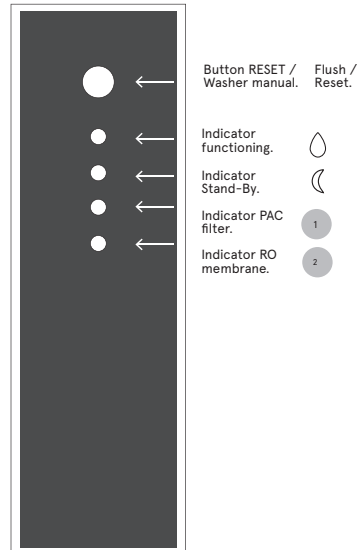
- Direct flow equipment controls start and stop using a pressure switch (HPS)

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

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

3. INTERFACE. STATE IN WHICH THE SYSTEM IS FOUND

Display:



3.1. FUNCTIONALITIES

FUNCTION	ACTIONS	STATUS OF THE EQUIPMENT LIGHTS
1. Power-on Flushing cycle	Whenever it is electrically connected the system will flush the RO membrane for 6 seconds.	When flushing is in progress, the operation light flashes WHITE.
2. Manual flush.	Press the RESET/FLUSH button, the system will perform a 60 second flush.	When flushing is in progress, the operation light flashes WHITE.
3. Daily flush.	Every time the accumulated working time reaches 2 hours, the system will flush the membrane for 20 seconds.	When flushing is in progress, the operation light flashes WHITE.
4. Flushing after changing filters.	When changing the PAC prefilter and/or RO membrane and resetting its usage counter, you will need to perform a manual flush (see point 2), by pressing the Reset/Flush button.	When flushing is in progress, the operation light flashes WHITE.
5. Tap opening.	The system starts operating normally.	When the machine is running, the operation light is on.
6. Tap closure.	The system stops producing water and goes on standby.	The operation light turns off and the Stand-By light turns on

3.2. FAULT IDENTIFICATION AND RESOLUTION

FUNCTION	ACTIONS	STATUS OF THE EQUIPMENT LIGHTS
1. Protection by continuous operating time of the pump.	The pump has been working +60 minutes followed. Disconnect and reconnect the electrical connection.	All lights flash WHITE.
2. Security lock change of filters.	After 3 months of the end of life of the filters without performing maintenance, it will be blocked to guarantee the quality and characteristics of the water dispensed by the machine. Call technical service to carry out maintenance.	Operation and stand-by LED in fixed WHITE.

*When you detect that the equipment is in any of the states described, contact the maintenance service to make the appointment to carry out the required repair or maintenance.
See the corresponding section in the technical manual.*

3.3. FILTER LIFE TIME DISPLAY

PERIOD OF LIFE	REMAINING LIFE TIME (DAYS)	LITRES CAPACITY REMAINING	DISPLAY
Normal.	> 30	> 300	led filter fixed white.
Advance notice.	$0 < X \leq 30$	$0 < Y \leq 300$	White filter LED flashing.
Exhausted.	≤ 0	≤ 0	Led filter off.
Security Block.	≤ 0	≤ 0	Displays off.

! *To guarantee the quality and characteristics of the water dispensed by the equipment, it is important to carry out adequate maintenance periodically and/or when indicated by the equipment's own electrical controller. If you do not do it within 3 months from the maintenance notice, the equipment will stop its operation for safety, stopping dispensing water and warning you. Informing the user of the reason for this stoppage.*

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	
<input type="text"/>	<input type="radio"/> START UP		
<input type="text"/>	<input type="radio"/> COMPLETE MAINTENANCE	TECHNICAL <input type="text"/>	<input type="radio"/> ORDINARY
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