



INSTRUCTION MANUAL

REVERSE OSMOSIS EQUIPMENT



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USER MANUAL FOR REVERSE OSMOSIS EQUIPMENT

0. MAIN FEATURES



FILTER CONTROL AUTOMATIC MAINTENANCE NOTICE



SOLENOID VALVE



DIRECT FLOW DIRECT PRODUCTION OF OSMOTIC WATER



LED STATUS STATUS INDICATORS



HIGH PERFORMANCE MOTOR HIGH PERFORMANCE MOTOR

CAPSULATED MEMBRANE ENCAPSULATED MEMBRANE



A SOUND WARNINGS

HIGH EFFICIENCY RECOVERY IN THE PRODUCTION



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

1. INTRODUCTION

Congratulations. You have acquired excellent equipment for domestic water treatment.

This kit will help you improve the characteristics of the water.

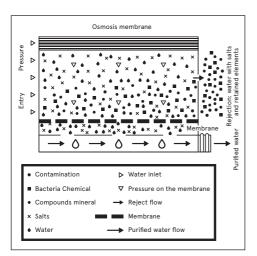
2. WHAT IS OSMOSIS?

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 salt concentrations are separated by a semi-permeable membrane, in a natural way, there is a flow of water from the lower concentration solution to the higher concentration one. This flow continues until the concentrations on both sides of the membrane equalize.

When it comes to reversing this process and achieving a flow of water with a lower concentration of salts from we need to the water with a higher concentration on the membrane, to overcome the tendency and natural flow of the system. This process is what we call reverse osmosis. At present, reverse osmosis is one of the best methods to improve the characteristics of water, through a physical system (without the use of chemical products).

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



3. PREVIOUS WARNINGS

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

ATTENTION: These equipment's ARE NOT POTABILIZING water. In the event that 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.

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

3.1. USE OF THE EQUIPMENT

• When you are going to be absent for more than a week, close the water inlet tap to the equipment, drain it and disconnect it from the power supply (PUMP model). When you return, connect the electrical supply of the same, open the inlet valve and the tap. Let the water run out for at least 5 minutes before consuming the water.

ATTENTION: After a prolonged period (more than a month) in which the equipment has not been working or producing water, contact your distributor in order to carry out proper sanitation and maintenance.

• Remove entire jugs or bottles and avoid occasional removal of glasses to improve equipment performance.

ATTENTION: Special attention must be paid to the cleaning and hygiene of the osmosis tap, on a regular basis and especially at the time of periodic maintenance and sanitization. To do this, use the sanitizing spray and single-use disposable kitchen paper. In no case should you use the cloth to dry your hands or multipurpose cloth used for cleaning the kitchen.

• This appliance can be used by children from 8 years of age and by people with reduced physical, sensory or mental abilities or lack of experience and knowledge if they have received supervision or instructions on how to use the appliance safely and understand the dangers involved. Children must not play with the appliance. Children should not perform cleaning and user maintenance unsupervised.

3.2. RECOMMENDATIONS FOR THE CORRECT USE OF OSMOTIZED WATER

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

ATTENTION: The water provided by the domestic osmosis equipment is LOW MINERALIZATION. The mineral salts that the human body needs are provided mainly by food, especially dairy products and to a lesser extent by drinking water. \cdot It is recommended not to use aluminum utensils for cooking with osmotic water.

4. BASIC OPERATION

The mains water to be treated enters the equipment through the sediment and carbon filter. In this filtration stage, the suspended particles, chlorine, its derivatives and other organic substances are retained.

The passage of water into the equipment is controlled by a cut-off solenoid valve.

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

The osmotized water comes out of the equipment through the tap for consumption. Reject water or water with excess salts and other dissolved substances is directed to the drain for disposal.

When you stop requesting water through the tap, the equipment stops its operation by means of a maximum pressure switch.

5. USER INTERFACE

ATTENTION: This equipment incorporates an electronic controller that will efficiently manage the functionality and status indications 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 20-22 of this manual).

6. MANTENIMIENTO

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

Read the corresponding section of the Technical Manual to see the recommended maintenance frequency (page 11 of this manual).

ISSUE	POSSIBLE CAUSE	SOLUTION
1. Leak to the outside of the equipment.	Several possible causes.	Call for service.
2. Zero production.	 There is no water supply. There is no power supply. 	 Wait for the supply to return. Check the electrical supply of the house. If the problem is not solved, call the technical service.
3. Low production.	 Power tap partially closed. Filters / membrane in poor condition or exhausted. 	 Open it completely. Call for service.
4. Excessive production.	Several possible causes.	Call for service.
5. Unpleasant taste and smell.	Several possible causes.	Call for service.
6. Whitish water color.	Air in the system. Microbubbles of air that disappear after a few seconds.	It is not a problem. The appearance will di- sappear as the air inside the equipment is eliminated.
7. Continuous dripping noise in drain.	Several possible causes.	Call for service.
8. The equipment does not start.	 There is no water supply. There is no power supply. 	 Check the condition of the general key and the input of the equipment. Check the general power supply. If the problem is not solved, call the technical service.

7. PROBLEM IDENTIFICATION AND RESOLUTION

9. The team constantly stops and starts.

Several possible causes.

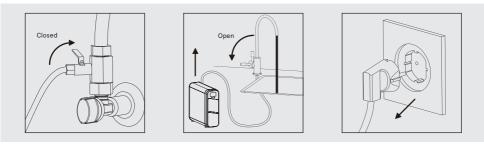
Call for service.

10. The equipment never stops rejecting water down the drain.

 Damaged inlet solenoid valve.
 Deteriorated production anti-return.

1. Check and replace.

2. Check and replace.



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

TECHNICAL MANUAL FOR REVERSE OSMOSIS EQUIPMENT

1. MAIN FEATURES

APPLICATION

Water treatment

Use

Improvement of the characteristics of drinking water (that complies with 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 for reduction or contribution

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

Minimal reduction * of certain compounds and parameters:

Sodium: 90%. 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 depending on the type of post filter that the equipment incorporates and / or regulation of the mixing valve (if it is included).

OPERATING LIMITS

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

ATTENTION: If you have any questions about the installation, use or maintenance of this equipment, contact the technical assistance service (T.A.S) of your distributor.

2. PREVIOUS WARNINGS

ATTENTION: the equipment IS NOT POTABILIZING water. In the event that 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.

ATTENTION: 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 applying the appropriate techniques and equipment to every need, PRIOR TO THE INSTALLATION of the equipment. Contact your dealer for adviceon the most appropriate treatment for you. 2.1 CONDITIONS FOR THE CORRECT OPERATION OF THE EQUIPMENT

 \cdot The equipment should not be fed with hot water (T> 38°C).

 \cdot The ambient temperature must be between 4° and 45°C.

• For waters with salinities higher than 1500 ppm, consult your distributor.

 \cdot It is recommended that the water to be treated be decalcified or with a maximum hardness of 15°HF in or-

Technical manual

der to obtain optimum performance of the equipment.

 \cdot In the event that the water to be treated is of a hardness greater than 15 °HF, a reduction in the life of the membrane and in the performance of the equipment could occur.

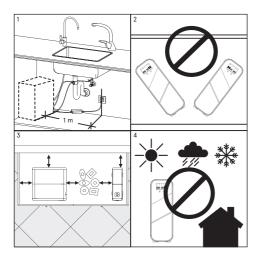
 In the event that the make-up water contains a concentration greater than 1.2 ppm of total chlorine, the installation of an activated carbon dechlorinator filter is recommended to reduce the concentration of chlorine in the water and thus protect and extend the life of the team components.

In case the water to be treated contains:

High concentrations of iron and manganese (Greater than 1ppm measured in the reject of the machine). Prolonged hyperchlorination in time. Sludge or turbidity greater than 3 NTUs. A nitrate concentration greater than 100 ppm.

A sulfate concentration greater than 250 ppm.

 Contact your distributor to recommend the most appropriate pretreatment for your case, thus ensuring the correct operation of the equipment, avoiding damage to components and guaranteeing the quality of the water supplied.



3. EQUIPMENT INSTALLATION

 In the event of having to condition the home installation in order to install the equipment in the intended place, it must be carried out in accordance with the national regulations for indoor installations of water and electrical supplies.

• These equipment's need an electrical outlet less than 1 meter away (1).

• These equipment's must not be installed either lying down or inclined (2), because the leak sensor would be disabled.

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

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

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

• The ambience and environment where equipment and faucet are installed must keep adequate hygienic-sanitary conditions.

• The appliance must only be used with the power supply supplied with the appliance.

 \cdot The appliance should only be powered at a very low safety voltage

 \cdot Avoid external drips on 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.).

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

 \cdot The new hose-sets supplied with the appliance are to be used and that old hose-sets should not be reused.

3.1. COMMISSIONING AND MAINTENANCE

 \cdot Consumable items must be replaced as often as indicated by the manufacturer.

• The equipment must be sanitized periodically and prior to its commissioning.

 \cdot After commissioning, you must discard the water produced during the first 30 minutes of use.

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

4. UNPACKED

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 suffered damage 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 cardboard packaging, removing the corresponding protections

ATTENTION: Dispose of properly and keep plastic bags out of 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 center for the recovery of waste materials.



This product cannot be disposed of with normal municipal waste. When the useful life of the equipment has ended, you must deliver to the company or center where vou purchased the device, or to a specific local clean-up point or center for the 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 to public health.

5. INSTALLATION

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

ATTENTION: 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 with grease, oils or oxides. Use exclusive tools for tube cutting, membrane handling, etc. Keep them clean and disinfect them periodically.

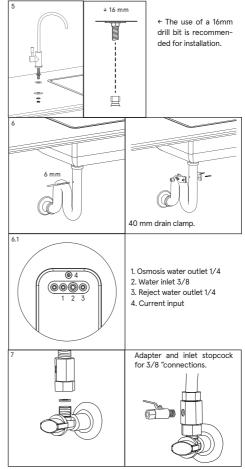
ATTENTION: The work must be carried out with an attitude and adequate hygienic conditions, taking extreme precautions in everything related to materials and components that are going to be in contact with the water to be treated or consumed.

(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 frequent place for the installation of the equipment is usually under the kitchen sink or in an annex furniture.

Install the tap, hydraulically and electrically, to the equipment-drain collar and inlet socket adapter and connect them to the respective connectors of the equipment (5, 6, 6.1 and 7).



See hydraulic diagram on page 13.



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

5.1. MIXING KIT

· In case you want to increase the pH, the conductivity and the 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 commissioning, 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 dispensed water must comply with the drinkability requirements established by European Directive 98/83 or the corresponding national legislation that transposes it.

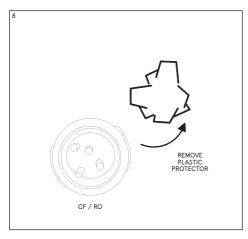
5.2. FILTER INSTALLATION

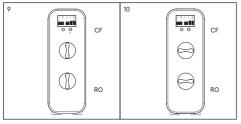
 \cdot Remove the plastic wrap before installing the filters (as shown in figure 8).

 \cdot Install the PCT filter in the first stage of the LYKKE machine (upper position), the RO membrane in the second stage of the LYKKE machine (lower position).

 \cdot To install the filters, present each filter in its respective housing with the handle in a vertical position, as shown in figure 9.

 \cdot Insert firmly all the way and turn the handle 90 degrees clockwise. After installation, the two filters should be as shown in figure 10.





6. START UP

6.1. FILTER RINSING

 It is necessary to eliminate the dust in the filter grain carbon that is generated during the transport and handling of the equipment and corresponding. This dust must be eliminated since it could partially or completely obstruct the membrane as well as cause a malfunction of the equipment. The equipment will automatically perform a wash when replacing the filters.

6.2. EQUIPMENT SANITATION

• Perform a sanitization of the equipment, according to the model and procedure indicated by the manufacturer (see the Sanitization Procedure). If in doubt, consult your dealer.

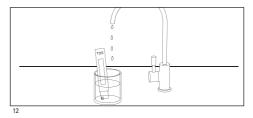
6.3. SYSTEM TIGHTNESS, STOP AND START

• Close the tap of the equipment on the countertop and keep the equipment supplied hydraulically or electrically by performing an visual inspection of the system to ensure that there is no leak (for approx.).

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

6.4. RINSING AND CLEANING

• Open the tap of the equipment and measure the quality of the water that is being produced. With a conductivity or TDS meter, check that the reduction of salts obtained is adequate with respect to the water to be treated (12).



ATTENTION: in case of detecting that the dispensed water does not comply with the current national legislation, carry out the measurement again. If the deviation persists, close the equipment inlet valve, drain it through the tap, disconnect it electrically and contact your technical service.

• Finally, clean the inside and the bottom of the equipment with single-use blotting paper, in order to remove any water that could have fallen into it, as it could cause a false alarm and blockage of the system.

7. 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 chlorinations, excess iron, etc.

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

PCT filter: at least every 12 months. * RO osmosis membrane: Every 2 years approx (for water to be treated soft (hardness <15 °HF)).

Sanitization: At start-up. At least every 12 months depending on use. Every time components in contact with water in the equipment are accessed or no water has been consumed for more than a month.

* Depending on the intended use and characteristics of the water to be treated.

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, 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 operating limits and improper start-up, maintenance or use, may lead to the loss of the guarantee, as well as the invalidation of the certifications to which the equipment has been subjected.

An excess in some 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.

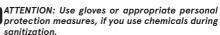
ATTENTION: All consumables are supplied in individual packaging specially designed to guarantee hygienic storage and transport conditions. Exercise hygiene precautions after removing the consumables from their packaging and when handling the various connectors and components.

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

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

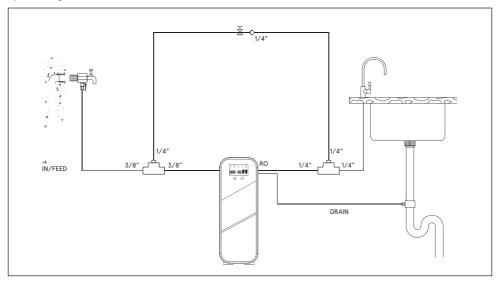
 \cdot Sanitize the equipment following the instructions described in the Sanitation Procedure.

• For more information, see the technical data sheet of the equipment. If you have any other questions, consult your dealer.



Technical manual

Hydraulic diagram.



SANITIZATION PROCEDURE

1. SANITIZATION

Necessary material:

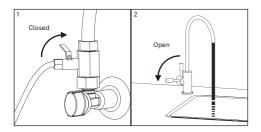
- · Manual valve.
- · Dosing cup and connectors.
- · 3% hydrogen peroxide (0.5 l).
- Brush.
- · Single-use vinyl gloves.
- · Easy-rinse soap or detergent.
- · Food lubricant.
- · Hydrogen peroxide detector strips.
- Sanitizing spray.
- · Paper napkin.

Carry out a sanitization of the equipment during startup, when appropriate (whenever there is a risk of contamination of the equipment by handling components in contact with water) or with the indicated periodicity. To do this, follow the steps below:

ATTENTION: The water used during sanitization 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).

 \cdot Open the tap and let water recirculate in order to renew the water inside the equipment.

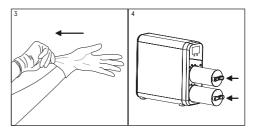
• Close the inlet valve (1) and open the dispenser tap (2) to decrease the pressure in the equipment.



 \cdot Change the filters and wash them as indicated in the corresponding section of the equipment's Technical Manual. The sanitization must be carried out with the new filters installed and previously rinsed in an adequate way (correctly eliminated the carbon dust from them).

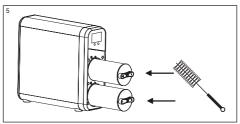
 \cdot Use single (3) use vinyl gloves to handle sanitizing products.

ATTENTION: Be extremely hygienic when handling the filters, the membrane and the equipment components in contact with water. Use disposable gloves or wash your hands as many times as necessary to avoid risks of contamination of the equipment.



• To sanitize the equipment, the filters must be inside their housings (4).

 In case, replace a deteriorated membrane or filter at the end of its useful life, remove the deteriorated one for disposal and clean the interior of the housing and the connections with a brush (which must be kept clean and disinfected) together with soap or detergent easy to rinse (low foaming) and suitable for cleaning surfaces in contact with food (5). Subsequently rinse the housings and connections correctly ensuring that all traces of detergent are removed.



2. TREATMENT OF PREFILTER, MEMBRANE

Disconnect the inlet tube to the equipment marked "feed-in", and insert the measuring cup between the stopcock and the equipment's water inlet (6). For greater comfort and ease of access during sanitization and the inlet valve opening and closing operations, 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 valve of input cut-off 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 (7). The measuring cup must be empty.

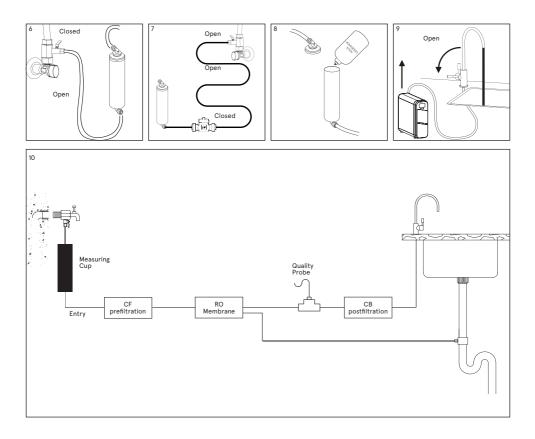
• Pour 0.25 liters of Oxygenated Water into the measuring cup inserted at the inlet of the equipment (8). Screw the glass correctly to its head.

 \cdot The manual inlet valve and the tap must be closed. Connect the equipment to the electrical supply.

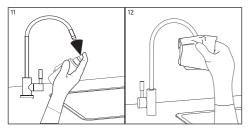
• Open the water inlet stopcock to the equipment and to the tap, allowing its operation to start and allowing the Oxygenated Water to be sucked into it. Fill a 1L jug with tap water. Before closing the tap, close the inlet valve again to lower the pressure. Refill the dispenser with 0.251 of hydrogen peroxide and empty 1 more liter of water. Close the tap. At this time the entire circuit contains sanitizing liquid.

 \cdot After 10 minutes, open the dispenser tap (9) and let the tap water circulate for 5 minutes.

 \cdot Empty the measuring cup. Before opening it, have a container at hand where you can empty it, as it may be full of water.



 \cdot 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 (11), rub the spout and tap nozzle with the disposable paper and do not touch it directly with your hands (12).



3. RINSE

 Since sanitization and rinsing do not ensure the complete removal of carbon dust from new filters or sanitation residues, rinse the osmosis equipment with plenty of water, after each sanitization, circulating mains water of adequate quality for 5 minutes or more. Discard the first 5 liters of water before consuming it.

 \cdot Rinse the pre-filter each time it is replaced and prior to each sanitization of the equipment.

• Rinse the pre-filter, preferably isolated from the rest of the equipment even before its installation.

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

• Fill the pre-filter slowly in order to evacuate the contained air and avoid internal turbulence that alters the different stages of filtration. When the water comes out of the outlet opening progressively increase the flow rate. Extract at least 4L and make sure that this water no longer contains fines from coal.

 \cdot Keep, throughout the process, the filter in the same position that it will occupy once installed in the equipment.

• At the end, take a single-use blotting paper, dry all the parts that may have gotten wet and especially the Aquastop leak detection probe (if the equipment incorporates it).

DATA SHEET FOR REVERSE OSMOSIS EQUIPMENT

1. TECHNICAL CHARACTERISTICS

APPLICATION

Water treatment

Use

Improvement of the characteristics of drinking water (that complies with 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 for reduction or contribution

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

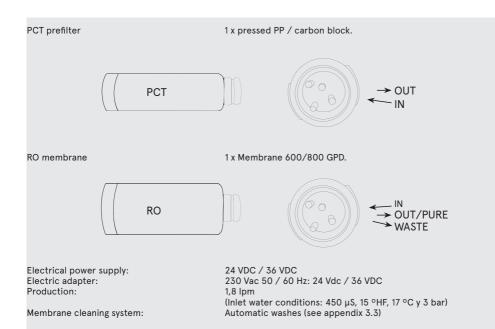
· Minimal reduction * of certain compounds and parameters:

Sodium: 90%. Calcium: 90%. Sulfate: 90%. Chloride: 90%. Total hardness: 90%. Conductivity: 90%.

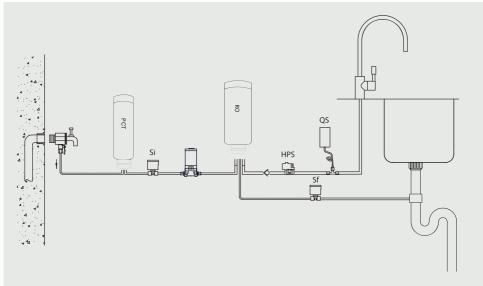
* Depending on the characteristics of the water to be treated (at the membrane outlet). These values may vary depending on the type of post-filter that the equipment incorporates and / or regulation of the mixing valve (if it is included).

OPERATING LIMITS

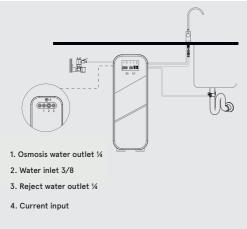
Pressure (max / min): TDS (max.): Temperature (max / min): Hardness (max.):	EQUIPMENT WITH PUMP 4 bar - 1 bar (400kPa-100 1500ppm. 38 °C - 5 °C. 15 °HF. **	JkPa).	
Control type: Security system:	Maximum pressure switch Inlet control bypass solen Flushing solenoid valve Water quality control. Maintenance notice.		
Dimensions (A x B x C in mm): Weight (in kg, including all accessories): Inlet connection: Drain connection:	405 x 135 x 430 mm. 12,5kg. 3/8". 1/4". 1/4".	A	
Tap connection: Wall adapter: Drain collar:	3/8" M-F. ***** Clamp for 40 mm drain pipe.	CB	1. Osmosis water outlet 1/4 2. Water inlet 3/8 3. Reject water outlet ¼ 4. Current input



HYDRAULIC SCHEME



HYDRAULIC CONNECTION DIAGRAM



2. OPERATION OF THE EQUIPMENT

• The mains water to be treated enters the equipment through the pre-filtration stage that incorporates a pressed PP filter + carbon block (PCT). 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 cut-off solenoid valve (Si).

The water, after being treated in the filtration stage, is driven 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.

 \cdot Before leaving through the 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.

• Direct flow equipment controls start and stop by means of a pressure switch (HPS)

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

• 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 produced water.

* For salinities higher than 1500ppm consult your distributor.

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

*** Maximum accumulation as a function of inlet pressure.

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

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

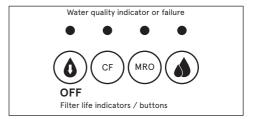
DISTRIBUTED BY:

IONFILTER Aiguafreda, 8 Pol. Ind. L'Ametlla Park 08480, L'Ametlla del Vallès Barcelona - Spain T. 902 305 310 F. +34 936 934 329

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

3. INTERFACE. STATE OF THE SYSTEM

Display:



3.1 OPERATION INDICATOR

It will remain illuminated white while the equipment is dispensing water.

3.2. FEATURES

FUNCTION	ACTIONS	STATUS OF LIGHTS
1. Washing when turning on the machine.	Whenever the system is started it will wash the RO membrane for 60 seconds.	When washing is in progress, the wash light shows white and flashes at 1Hz.
2. Washing when accumulating operating time.	Every time the accumulated working time reaches 6 hours, the system will wash the membrane for 60 seconds.	When washing is in progress, the wash light shows white and flashes at 1Hz.
3. Washing after filter change.	PCT: When changing the PCT filter and resetting its usage counter, the system resets the filter life led. RO: When changing the RO membrane and restarting its usage counter, the system resets the membrane life led. Resetting the filters does not do any washing. You have to press the flushing button and a 1'30 "wash will begin.	When the PCT filter or RO membrane is being washed, the wash light shows white and will flash at 1Hz.
4. Faucet opening.	The system starts up normally.	During the first 5 seconds, the opera- tion light is always on and the TDS dis- play shows the latest quality status. After 5 seconds the operating light is always on and the TDS display shows the data in real time.
5. Faucet closure.	The system stops producing water and goes into standby.	The run light turns off, a 5 "wash is done, and the standby light comes on.
6. Power on the system.	The system starts up.	After connecting the power supply, a beep sounds and all the lights turn on and flash at the same time. Each color is displayed for 1 second.

3.3. IDENTIFICATION AND RESOLUTION OF FAULTS

ТҮРЕ		TIMER		SOLUTION
	DISPLAY		ACOUSTIC	
1. Protection by pump time.	Warning indio flashing red	cator	5 beeps.	The pump has been working + 2 hours. Disconnect and reconnect the electrical connection.
When the equipment is fourn of the states described, cont maintenance service to make appointment to carry out the required maintenance.	act the	production (fil hours of conti without water	ent does not stop ling the tank) after several nuous operation, extraction. acchnical service if	Contact the technical service if after opening the tap the equipment is at rest without dispensing water through the tap or displaying any type of alarm. Contact the technical service
See the corresponding section the technical manual. Contact the technical service		due to lack of	t is repeatedly blocked mains water pressure at to it and there is pressure the home.	to reset the counters after changing the filters.

4. WARRANTY

The distributor guarantees the equipment for a period of two years in the event of any non-compliance detected in the equipment, in accordance with Royal Decree 1/2007 of 16 November (revised text of the General Law for the Defence of Consumers and Users). The guarantee includes the repair and replacement of faulty parts by personnel authorised by the distributor or by the official technical assistance service (S.A.T.) at the place of installation or in its workshops. Included in the warranty is labor and shipping

costs that may be generated. - The distributor is exonerated from providing a guarantee in the case of parts subject to natural wear, lack of maintenance, blows or other nonconformities resulting from improper use of the equipment or inadequate according to the conditions and operating limits indicated by the manufacturer of the same. Likewise, the warranty becomes ineffective in cases of improper handling and use of the equipment or in those cases in which they have been modified or repaired by personnel outside the distribution company or official S.A.T.

- The parts replaced under warranty will remain the property of the distributor.

- The distributor is responsible for the lack of conformity of the equipment when it refers to the origin, identity or suitability of the products, according to their nature and purpose. Bearing in mind the characteristics of the equipment it is essential for the warranty to cover the lack of conformity, the fulfillment of the technical conditions of installation and operation. Failure to comply with these conditions may result in the absence of a warranty, taking into account the relevance of the destination of the equipment and the conditions and operating limits in which it must operate.

- The distributor must ensure that the installed equipment is suitable for improving the quality of the water to be treated in particular, according to the characteristics of the equipment and the regulations in force.

- The distributor must ensure the correct installation and start-up of the equipment as indicated by the manufacturer and current regulations and will also be liable for any lack of conformity resulting from incorrect application, installation or start-up of the equipment.

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

- If there is a problem with your equipment during the warranty period, please contact your dealer.

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

* Pre-treatment of the equipment:

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

* TDS input to the equipment (ppm):

* TDS produced water (ppm):

* Pressure of entry to the equipment (bar):

*Result of the installation and commissioning sheet:

Correct:

Others:

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

*Ref: Maintenance contract:

ACCEPTS the maintenance contract

DOES NOT ACCEPT the maintenance contract

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

COMPANY AND/OR AUTHORIZED INSTALLER, DATE AND SIGNATURE:

SERIAL NUMBER:

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

Data sheet

5. INSTALLATION REGISTER SHEET



∣ ¶°

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

sioning of the equipment must have duequate technical if anning	5.
INFORMATION ON THE USE OF THE EQUIPMENT:	
Origin of the water to be treated:	
PUBLIC SUPPLY NETWORK	
OTHER	
* Pre-treatment of the equipment:	
* Hardness of entry to the equipment (°F):	
* TDS of entry to the equipment (ppm):	
* TDS produced water (ppm):	
Inlet pressure to the equipment (bar):	
INSTALLATION STEP CONTROL:	
Pre-filter assembly: Overflow installation: Start-up according to protocol: Checking of fittings: Measurement of inlet hardness: Output hardness measurement:	Installation of isolation by-pass: Correct drainage installation: Brine suction test/tank filling: Leakage of the pressurised system: Programming of the equipment: Adjustment of residual hardness:
COMMENTS	
* Result of installation and commissioning:	
CORRECT (equipment installed and working correctly. Produ	uced water suitable for the application).
OTHER:	
IDENTIFICATION OF THE AUTHORISED TECHNICIAN/INSTALLER: C COMPANY AND/OR AUTHORIZED INSTALLER, DATE AND SIGNATURE:	CONFORMITY OF THE OWNER OF THE EQUIPMENT: I have been clearly informed of the use, operation and mainte- nance required by the installed equipment, having been offered a maintenance contract and informed of how to contact a cus- tomer service in the event of a request for information, commu- nication of a breakdown or malfunction, request for maintenan- ce or intervention by a technician. Remarks:
*Ref: Maintenance contract:	
ACCEPTS the maintenance contract	SERIAL NUMBER
DOES NOT ACCEPT the maintenance contract	
Model/Ref:	
Owner:	
Street	
	EQUIPMENT WARRANTY DIRECTED TO THE DISTRIBUTOR: The distributor will only be responsible for the replacement of
Telephone:	parts in the event of non-conformity. The repair of the equip- ment and the costs involved (labour, shipping costs, travel, etc.)
City:	will be borne by the distributor, in accordance with the general conditions of contract and sale, so it can not be passed on later
Province: C.P.:	to the manufacturer.

DATE		TYPE OF SERVICE	NAME, SIGNATURE AND STA	MP OF TECHNICIAN
	\bigcirc	START-UP		
	0	COMPLETE MAINTENANCE	TECHNICIAN	
	\bigcirc			
	\bigcirc	PREPARATION	STAMP	ORDINARY
	\bigcirc	SANITIZATION		EXTRAORDINARY
	0	OTHERS		WARRANTY
	0	COMPLETE MAINTENANCE	TECHNICIAN	
	0	PREPARATION	STAMP	ORDINARY
	0	SANITIZATION		EXTRAORDINARY
	\bigcirc	OTHERS		WARRANTY
	0	COMPLETE MAINTENANCE	TECHNICIAN	
	\bigcirc	PREPARATION	STAMP	ORDINARY
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	\bigcirc	OTHERS		WARRANTY
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	\bigcirc	OTHERS		WARRANTY
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	\bigcirc	SANITIZATION		EXTRAORDINARY
	\bigcirc	OTHERS		WARRANTY

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Data sheet

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	SANITIZATION		EXTRAORDINARY
	O OTHERS		WARRANTY
	COMPLETE MAINTENANCE	TECHNICIAN	
	O PREPARATION	STAMP	ORDINARY
	SANITIZATION		EXTRAORDINARY
	O OTHERS		WARRANTY
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	0	OTHERS		WARRANTY
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	0	PREPARATION	STAMP	ORDINARY
	0	SANITIZATION		EXTRAORDINARY
	0	OTHERS		WARRANTY
	0	COMPLETE MAINTENANCE	TECHNICIAN	
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	0	OTHERS		WARRANTY

Data sheet

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	O OTHERS		WARRANTY
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	SANITIZATION		EXTRAORDINARY
	O OTHERS		WARRANTY
	COMPLETE MAINTENANCE	TECHNICIAN	
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	SANITIZATION		EXTRAORDINARY
	OTHERS		WARRANTY
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	COMPLETE MAINTENANCE	TECHNICIAN	
	O PREPARATION	STAMP	ORDINARY
			EXTRAORDINARY
	O OTHERS		WARRANTY

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