EQUIPO
UNE 149101
CERTIFICADO

RIBA REVERSE OSMOSIS + DETOX H_2

INSTRUCTION MANUAL

RIBA REVERSE OSMOSIS + DETOX H_2

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USER MANUAL
FOR REVERSE OSMOSIS EQUIPMENT WITH ORP-WATER

0. MAIN FEATURES

CLICK
QUICK CONNECTIONS
AND MAXIMUM SECURITY

FILTER CONTROL
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SOLENOID VALVE
IMMEDIATE CONTROL

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ORP-WATER

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EXCLUSIVE MEMBRANE
MEMBRANE
ORIGINAL

AUTO FLUSHING
AUTOMATIC SWEEPING
MEMBRANE

QUALITY CONTROL
CONTROL
OF CONDUCTIVITY

Please retain this manual, which includes the service and warranty book sections, so we can provide you with better after-sales service.

1. INTRODUCTION

Congratulations, you have purchased an excellent piece of domestic water treatment equipment.

This equipment will help you improve the characteristics of your water.

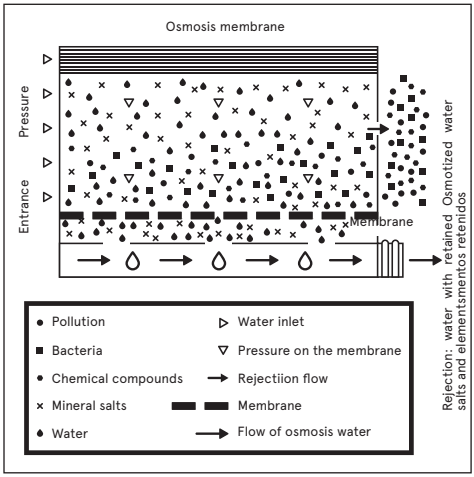
2. WHAT IS OSMOSIS?

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

When two solutions with different salt concentrations are separated by a semipermeable membrane, water naturally flows from the solution with the lower concentration to the one with the higher concentration. This flow continues until the concentrations on both sides of the membrane are equal.

When reversing this process and achieving a flow of water with a lower salt concentration from one with a higher concentration, sufficient pressure must be applied from the part with the highest concentration to the membrane to overcome the system's natural tendency and flow. This process is what we call reverse osmosis. Currently, reverse osmosis is one of the best methods for improving water characteristics through a physical-chemical system (without the use of added chemicals).

The water to be treated exerts pressure on the semipermeable membrane, so that part of it will 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. PRIOR WARNINGS

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

ATTENTION: These devices are NOT water purifiers. If the water to be treated comes from a public supply (and therefore complies with current legislation), these devices will substantially improve water quality.

If the water to be treated does not come from a public supply network or is of unknown origin, a physical-chemical and bacteriological analysis of the water will be necessary to ensure proper purification using the appropriate techniques and equipment for each need, PRIOR TO INSTALLATION. Contact your distributor for advice on the most appropriate treatment for your situation.

Water treatment equipment requires periodic maintenance performed by qualified technical personnel to ensure the quality of the water produced and supplied.

Except for maintenance technicians, no one else is authorized to disassemble and repair, to avoid fires and electric shocks.

3.1. USE OF THE EQUIPMENT

· When you will be away for more than a week, turn off the water inlet valve, drain the appliance, and disconnect it from the power supply. When you return, turn on the inlet valve and tap, reconnect the power supply, and let the water flow for at least 5 minutes before consuming water.

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

· Remove full 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 faucet, both regularly and especially during periodic maintenance and cleaning. To do so, use the sanitizing spray and single-use disposable kitchen paper. Under no circumstances should you use the hand-drying cloth or multipurpose cloth used for cleaning the kitchen.

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

3.2. RECOMMENDATIONS FOR THE CORRECT USE OF OSMOTIC WATER

· If you wish to supply reverse osmosis water to any other point of consumption (such as refrigerators, coffee makers, ice machines, water dispensers, other faucets, etc.), the piping must be made solely with plastic tubing that complies with the regulations established for human consumption. Using other materials could impart an unpleasant taste to the water and cause oxidation.

ATTENTION: The water provided by domestic osmosis systems is LOW IN MINERALIZATION. The mineral salts required by the human body are provided mainly by food, especially dairy products, and to a lesser extent by drinking water.

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

3.3 CONDITIONS FOR CORRECT EQUIPMENT OPERATION

· The equipment should not be supplied with water at a temperature higher than 38ºC or lower than 5ºC.

· The room temperature should be between 4º and 45ºC.

· For water with salinity above 1500 ppm, consult your distributor.

In the event that the water to be treated contains:

1. Hardness greater than 15ºF.

2. Free chlorine concentrations > 1.2 mg/l.

3. High concentrations of iron or manganese (greater than 1 mg/l, measured in the equipment reject).

4. Turbidity greater than 3 NTU.

5. Nitrate concentrations > 100 mg/l.

6. Sulfate concentrations > 250 mg/l.

4. BASIC OPERATION

The operating steps of the system are described in the Technical Data Sheet section (page 17).

5. USER INTERFACE

ATTENTION: This equipment incorporates an electronic controller that will efficiently manage the functionality and status indications, as well as the various safety systems.

The system's data sheet describes the states in which the system may be found and the information provided by it (pages 15-19 of this manual).

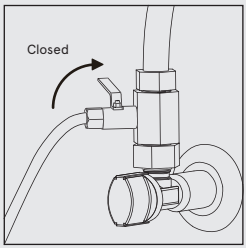
6. MAINTENANCE

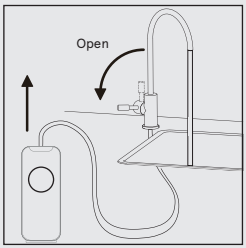
To ensure the quality of the water supplied by your equipment, it must be maintained periodically.

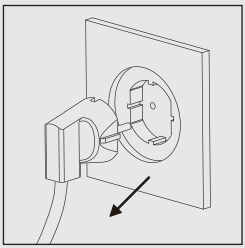
Read the corresponding section of the Technical Manual to see the recommended maintenance frequency (page 11 of this manual).

7. PROBLEM IDENTIFICATION AND RESOLUTION

PROBLEM	POSSIBLE CAUSE	SOLUTION
1. Leak to the outside of the equipment.	· Breakage of any internal part of the equipment. · Poor installation connection. · Deterioration of any plastic tube. · Poor connection of the filter or membrane. · The equipment has not been properly depressurized before changing the membrane or filter.	· Check all installation connections. · Allow the machine to depressurize properly and reinstall the filter or membrane. · If you need to disassemble the equipment, call technical service first.
2. Zero production.	· There is no water supply. · There is no electricity supply. · Blocked membrane. · Transformer voltage less than 24 VDC. · Saturated input filter.	· Wait for the power to return. · Check the home's electrical supply. · Check the transformer voltage. · Check the membrane and inlet filter.
3. Low production.	· Supply valve partially closed. · Filters/membranes in poor condition or exhausted. · Rejection valve blocked, flow rate less than 1 liter per minute. · Pump blocked or with bubbles inside (cavitations) · Low temperature of the water supply to the equipment.	· Open it completely. · Replace the filter or membrane. · Change rejection valve. · Change pump in case of blockage. · Unplug and plug the equipment back in to wash and remove any bubbles contained in the pump.
4. Excessive production.	· Excessive chlorine entering the membrane. · Rejection valve blocked, flow rate less than 1 liter per minute. · Excessively high supply water temperature >38°C.	· Replace membrane. · Replacing the rejection valve. · Water temperature must be reduced below the limits. · Review the general installation of the premises to eliminate heat sources.
5. Unpleasant taste and smell.	· Membrane in poor condition. · The team has been stopped for a long time. · No sanitation has been performed. · The sanitizing product has not been purged correctly.	· Replace membrane. · Perform disinfection. · Purge the appliance properly.
6. Whitish water color.	· Air in the system. Microbubbles of air that disappear after a few seconds.	· This is not a problem. The appearance will disappear as the air inside the equipment is eliminated.
7. Continuous dripping noise from the drain.	· Depressurization of the device after production. · Dirty or damaged inlet valve. · Dirty, blocked or damaged membrane (production) non-return valve.	· Wait a few minutes and check if the dripping stops. Clean or replace the inlet valve. Check the diaphragm check valve.
8. The equipment does not start.	· There is no water supply. · There is no electricity supply. · Blocked inlet filter. · Machine blocked by alarm. · Faulty high pressure switch.	· Check the condition of the main switch and the equipment input. · Check the general power supply. · Change the inlet filter. · If the power is on but the lights do not turn on, contact technical support. · Change the high pressure switch.
9. The equipment stops and starts constantly.	· Leak at production outlet. · Electrical valve closures on external devices do not shut off properly and have internal leaks. · Production backstop does not close properly.	· Check the reverse osmosis water system for leaks and repair them. · Check the closing mechanisms of the devices connected to the equipment and ensure proper closure. · If dispensing taps are installed, check for abnormal dripping and repair. · Check anti-return.
10. The equipment never stops rejecting water towards the drain.	1. Damaged inlet solenoid valve. 2. Anti-return of deteriorated production.	1. Check and replace.







Read the INTERFACE section of theTechnical SheetIf there is a problem, contact your service center and proceed as follows: Close the inlet valve. Open the tap to depressurize the system and unplug the power plug.

TECHNICAL MANUAL

1. MAIN FEATURES

APPLICATION

Water treatment
Reverse osmosis for domestic use.

Use
Improving the characteristics of drinking water (to meet the requirements of the European Directive on water for human consumption 2020/2184 or its national transpositions in the different Member States of the European Community).

Modifications due to reduction or contribution
· Reverse osmosis water treatment is capable of reducing concentrations of salts and other substances by high percentages.
· Minimal 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 being treated (at the membrane outlet). These values may vary depending on the type of postfilter incorporated in the equipment and/or the regulation of the mixing valve (if applicable).*

2. UNPACKING

It is important to check the box and condition of the equipment before installation and commissioning to ensure that it has not been damaged during transport.

ATTENTION: Claims for damage during transport must be submitted along with the delivery note or invoice to your distributor, within a maximum of 24 hours after receiving the goods.

Remove the equipment and accessories from their cardboard packaging, removing any protective coverings.

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

Inside you will find: Water treatment equipment, installation accessories, and documentation. The packaging materials are recyclable and should be disposed of in appropriate separate collection containers or at a local waste recovery center.

This product cannot be disposed of with household waste. urban areas. When the equipment's useful life has ended, it must be returned to the company or center where it was purchased, or to a Clean Point or local center specific for the recovery of materials, indicating that it contains electrical and electronic components. The correct. The collection and treatment of unusable equipment contributes to preserving natural resources and also to avoiding risks potential for public health.

3. EQUIPMENT INSTALLATION

· If the installation needs to be adapted to accommodate the equipment in the planned location, this must be done in accordance with national standards for indoor water and electrical supply installations.

· These devices require an electrical outlet within 1 meter (1).

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

· Equipment filled with water weighs more; distributing weight in an unintended position could cause some connecting element to be forced, which could lead to malfunction, damage to equipment components, or water loss.

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

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

· The environment and setting where the equipment and its subsequent connections are installed must maintain adequate hygienic and sanitary conditions.

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

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

· The appliance must only be supplied with a voltage between 100 - 240VAC 50/60Hz.

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

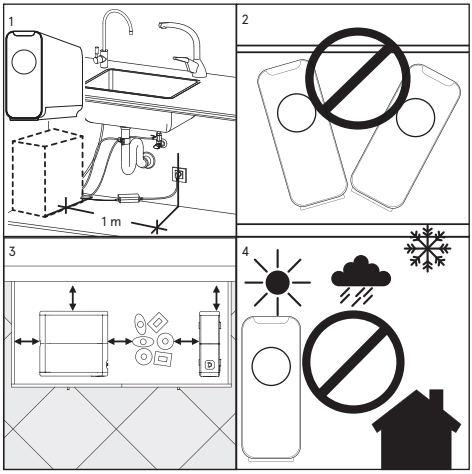
· Do not use damaged power supplies or plugs, or loose sockets.

· If the power cord is damaged, 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 directly receiving a flow of hot air on it.

· New hose sets supplied with the appliance must be used and old hose sets must be disposed of properly.

· It is not recommended that users perform the installation themselves. Be sure to contact customer service to arrange an appointment for professional on- site installation. Users will be responsible for any related accidents and losses caused by the installation. user self-installation.

ATTENTION: Since the device to be installed improves the quality of the water consumed, all tools used for assembly and installation must be clean and must not be contaminated or impregnated with grease, oil, or oxides. Use tools exclusively for cutting pipes, handling the membrane, etc. Keep them clean and disinfect them periodically.

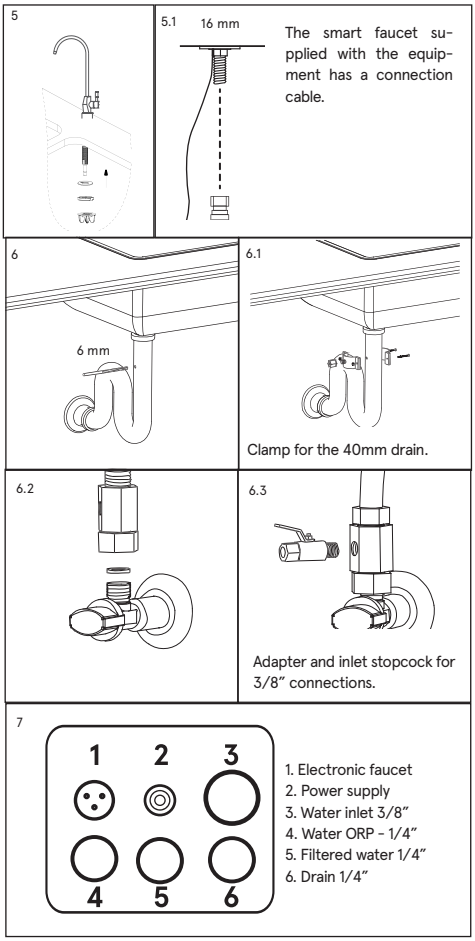
ATTENTION: Work must be carried out with appropriate hygiene and conditions, taking extreme precautions in all matters related to materials and components that will be in contact with the water to be treated or consumed.

(For more information, please contact your dealer.)

ATTENTION: Avoid the risk of external contamination of the equipment due to improper handling by using gloves, hand sanitizing gel, or washing your hands as often as necessary throughout the installation, start-up, and maintenance of the equipment.

The most common location for installing the equipment is under the kitchen counter or in an adjacent cabinet.

Install the faucet, drain collar kit and inlet adapter and connect them to the respective equipment connectors (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.

3.1. MIXING KIT

· If you wish to increase the pH, and/or conductivity and/or 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 your distributor).

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

· The water dispensed must comply with the drinking water requirements established by European Directive 2020/2184 or the corresponding national legislation that transposes it.

See hydraulic diagram on page 12.

4. START-UP

4.1. FILLING AND PURGING THE EQUIPMENT

· SOpen the dispensing tap, then open the water inlet valve to the unit. Finally, plug the power plug into the wall socket. The unit will begin internally washing the filters to remove air bubbles, remove membrane protection products, and clean the filter of any debris. During this time, the production flow will be reduced by the filter wash flow. If it takes a few minutes for the reject flow to reach the drain, it is advisable to repeat the start-up steps, as the pump could have an air bubble, causing it to cavitate, preventing it from supplying water to the rest of the components.

· During the first 30 minutes after start-up, filter and/or membrane change, water quality may vary until it reaches its optimal operating performance.

4.2. SYSTEM TIGHTNESS, STOP AND START

· Close the dispensing tap on the equipment on the countertop and keep the equipment powered hydraulically or electrically by performing a visual inspection of the system to ensure there are no leaks (for approximately 5 minutes).

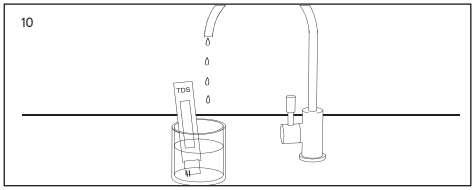
Open the dispenser tap. The unit should activate and dispense water. Close the tap again and check that the unit stops.

4.3. EQUIPMENT SANITIZATION

· Perform a sanitation of the equipment, according to the model and procedure indicated by the manufacturer (see the Sanitation procedure). If you have any questions, please consult your dealer.

4.4. RINSING AND CLEANING

·Open the dispensing tap and measure the quality of the water being produced. Using a conductivity or TDS meter, check that the salt reduction obtained is adequate for the water being treated (10).



ATTENTION: If you detect that the dispensed water does not comply with current national legislation, retake the measurement. If the deviation persists, close the equipment's inlet valve, drain it through the tap, disconnect it from the electrical outlet, and contact your technical service center.

5. MAINTENANCE

ATTENTION: Maintenance must be performed by qualified technical personnel, with appropriate hygiene and standards, to reduce the risk of internal contamination of the appliance and its hydraulic system. (For more information, contact your distributor's technical service.)

· Consumable items must be replaced as frequently as indicated by the manufacturer.
· The equipment must be sanitized periodically and prior to being put into service.

ATTENTION: Some components of your equipment are consumables that have a limited lifespan.

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

INSTALLING THE FILTERS

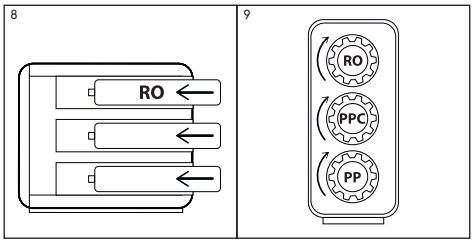
· Remove the protective plastic from the filters.

· Install pre-filter number 1 (PP) in position.

· Insert it into (8) the corresponding cartridge and close the cap by turning it clockwise with the supplied key (9).

· Perform the same procedure with the other filters following the sequence of numbers.

· After completing the installation of the filters, open the inlet valve and the equipment rinse tap for 10 minutes.



RECOMMENDED MAINTENANCE

Prefilter 1 PP = 12 months or 4,000Lts
Prefilter 2 PPC = 12 months or 4,000Lts
RO membrane = 48 months or 16,000Lts
Postfilter T33 = 12 months or 4,000Lts

Maintenance must be performed by trained personnel, who must handle the equipment properly and use original spare parts to maintain the equipment's features, warranty, certifications, and performance, thus preserving the quality of the water dispensed.

ATTENTION: The use of non-original spare parts, installation outside the operating and start-up limits, improper maintenance or use, may lead to the loss of the warranty, as well as the invalidation of any certifications the equipment has undergone.

Excessive amounts of any compound (total chlorine, turbidity, hardness, etc.) can reduce the life of filters and certain components. These maintenance steps are guidelines only

Your distributor will determine the lifespan of consumables based on the characteristics of the water to be treated and the expected consumption in each case.

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

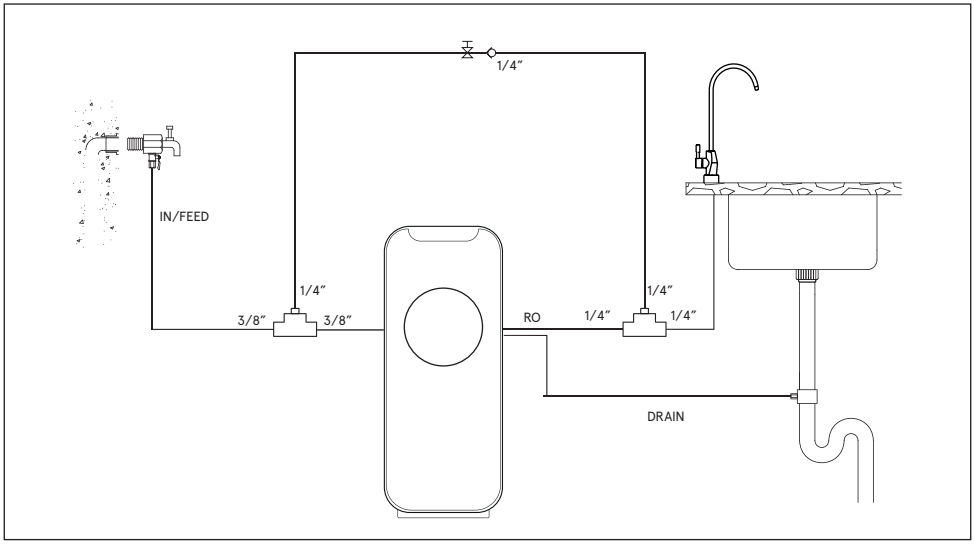
ATTENTION: Before disassembling the equipment, plan all the materials you will need to perform maintenance operations and the space required. Work in a well-lit area, with adequate hygienic conditions and sufficient space to perform operations comfortably..

· Properly replace the filter and/or membrane. Ensure the seals of the joints and the original hydraulic configuration of the system are in accordance with the manufacturer's recommendations.

· Sanitize the equipment following the instructions described in the Sanitization Procedure

· For more information, see thetechnical sheetof the equipment. If you have any further questions, please consult your dealer.

Hydraulic diagram.



SANITIZATION PROCEDURE

1. SANITIZATION

Necessary material:

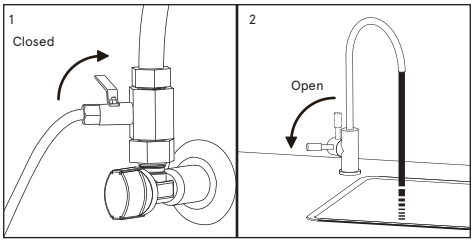
· Manual valve.
· Measuring cup and connectors.
· Hydrogen peroxide 3% (0.5 l).
· Brush.
· Single-use vinyl gloves.
· Easy-rinsing soap or detergent.
· Food lubricant.
· Hydrogen peroxide detector strips.
· Sanitizing spray.
· Paper napkin.

Sanitation:

· At start-up.
· At least every 12 months depending on usage.
· Every time water-intensive components of the equipment are accessed or water has not been consumed for more than a month.

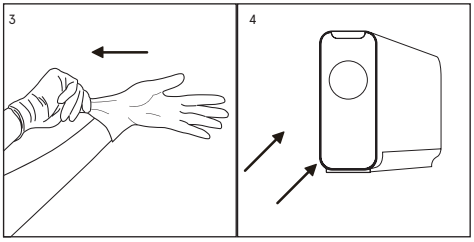
ATTENTION: The water used during sanitation must be drinking water (from the public distribution network complying with the corresponding potability requirements of RD 03/2023, European Directive 2020/2184 or current local legislation).

· Open the dispensing tap and allow water to recirculate 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.



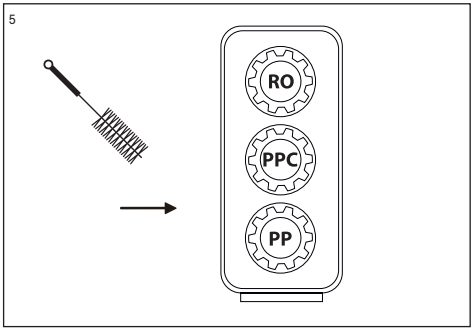
· Change the filters and/or membrane as indicated in the corresponding section of the Technical Manual.
· Sanitation must be carried out with the cartridges installed in their housings.
· Use single-use (3) vinyl gloves to handle sanitizing products.

ATTENTION: Take extreme hygiene measures when handling filters, the membrane, and equipment components that come into contact with water. Wear disposable gloves or wash your hands as often as necessary to avoid the risk of equipment contamination.



· If 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 a suitable disinfectant product.



2. TREATMENT OF FILTER ELEMENTS

· Disconnect the inlet pipe to the equipment marked "Feed - Inlet", and insert the measuring cup between the stopcock and the water inlet of the equipment (6). For greater comfort and ease of access during sanitation and opening and closing operations of the inlet valve, you can insert, together with the sanitizing measuring cup, a manual valve in the closed position, which will perform the same functions as the manual inlet shut-off valve 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 hydrogen peroxide into the measuring cup inserted in the equipment inlet (8). Screw the cup correctly onto the head.

· The manual inlet valve and tap must be closed. Connect the equipment to the power supply.

· Open the water inlet valve and the dispenser tap, connect the appliance to the power outlet, allow it to start operating, letting it draw hydrogen peroxide into the appliance. Fill a 1L jug with water from the dispenser tap. Before closing the dispenser tap, close the inlet valve again to reduce the pressure. Refill the dispenser with 0.25L of hydrogen peroxide and repeat the previous steps, finishing by closing the dispenser tap. The entire circuit now contains sanitizing liquid.

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

· Empty the measuring cup. Before opening it, have at least

· Pay special attention to sanitizing existing drinking water points (dispensers, faucets, etc.). Use sanitizing spray (or, failing that, hydrogen peroxide, dosing it so that it penetrates the faucet spout) and a single-use paper towel. Spray the spray onto the faucet spout, rub the spout and faucet nozzle with the paper towel, and do not touch it directly with your hands.

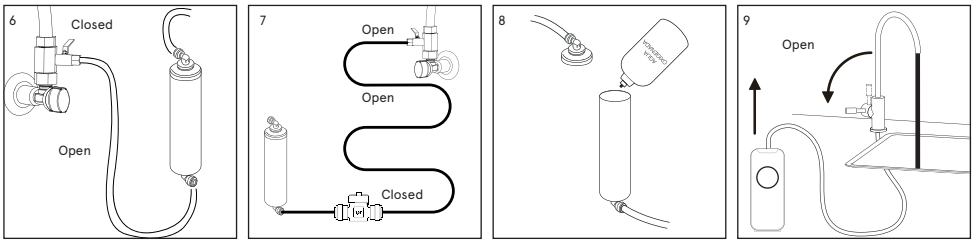
3. RINSE

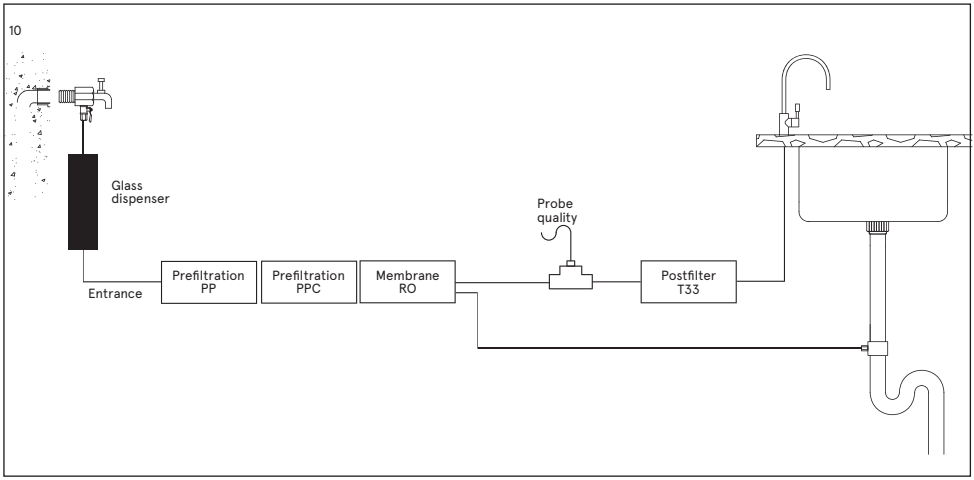
Once the sanitation has been carried out, you must:

· Let water run from the tap for at least 5 minutes.

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

· When finished, take a paper towel to dry all parts that may have gotten wet, especially the Aquastop leak detection probe (if the equipment includes one).





Sanitation procedure

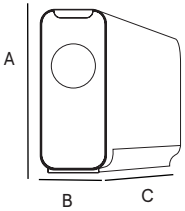
TECHNICAL SHEET

1. TECHNICAL CHARACTERISTICS

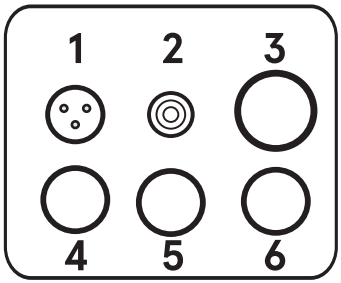
OPERATING LIMITS

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

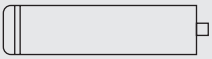
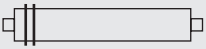
Control type:	1.Maximum pressure switch. 2. Inlet control solenoid valve. 3. Flushing solenoid valve.
Security system:	1.Maintenance notice. 2. Security lock. 3. Water quality control. 4.Electronic leak sensor 5. Minimum pressure switch 6. Pressure relief valve
Dimensions (A x B x C in mm):	385 x 152 x 453
Weight (in kg, including all accessories):	11,9kg.
Input connection:	3/8".
Drain connection:	1/4".
ORP-water connection:	1/4".
Filtered water connection:	1/4".
Wall adapter:	q3/8" MF. ****
Drain collar:	Pipe clamp 40 mm drain.



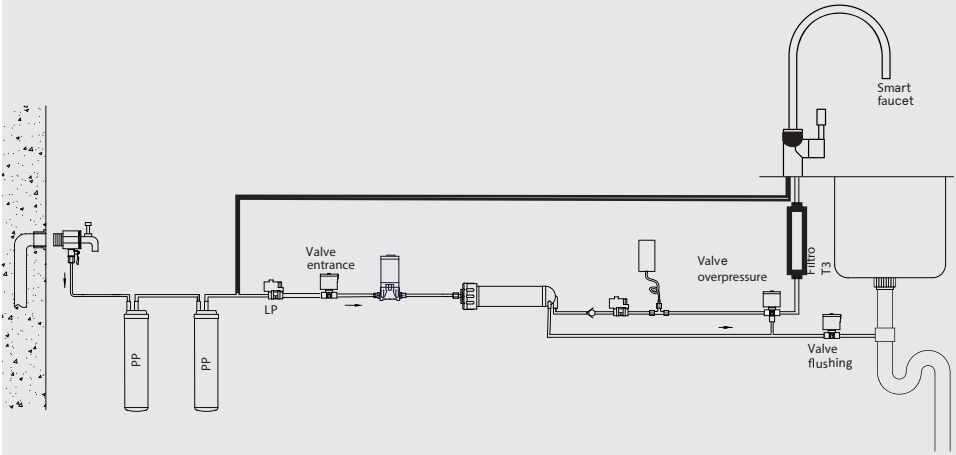
1. Electronic faucet
2. Power supply
3. Water inlet 3/8"
4. ORP water 1/4"
5. Filtered water 1/4"
6. Drain 1/4"



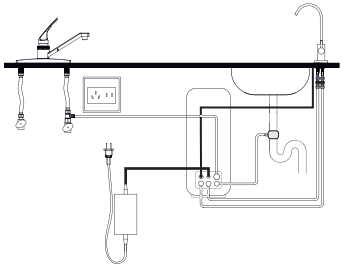
* Flow rates may vary by 20% depending on the temperature, pressure and specific composition of the water to be treated.
* * For salinities above 1500ppm consult your distributor.
* * * Higher hardness may reduce the life and performance of certain components.
* * * * May vary depending on the model.

PP prefilter	1 x 2,5" sediment
	
PPC prefilter	1 x combined sediment + carbon 2'5"
	
RO membrane	800 GPD. Water flow rate: 2 lpm
	
T33 filter	1 x granulated carbon + ORP filter-
	
Power supply:	24 VDC 5 A.
Power adapter:	100-240 Vac 50 / 60 Hz
Faucet type:	2 way electronic faucet.
Production:	2 lpm. (inlet water conditions: 450 µS, 15 ºHF, 17 ºC y 3 bar)

HYDRAULIC DIAGRAM



1. Electronic fauce
2. Power suppl
3. Water inlet 3/8
4. ORP water - 1/4
5. Filtered water 1/
6. Drain 1/4



DISTRIBUTED BY:

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2. EQUIPMENT OPERATION

· The water to be treated enters the system through a pre-filtration stage, which includes a sediment filter and a PP+carbon block filter. During this filtration stage, suspended particles, chlorine, its derivatives, and other organic substances are retained.

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

· After passing through the filtration stage, the water can be dispensed through the dispenser tap.

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

· After being treated in the filtration stage, water is pumped toward the reverse osmosis (RO) membrane. The equipment incorporates a pump (P) to increase pressure. The water pressure on the membrane makes the reverse osmosis process possible.

· Before leaving the tap, the water passes through the carbon post- filter and the ORP- filter.

· Rejected 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-of-the-art electronic module:

· Minimum pressure switch (LPS). When the system detects low inlet water pressure, it will shut off the unit to protect the pump from running dry. This will keep the unit shut off until the power is disconnected and reconnected.

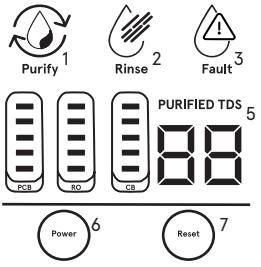
· Electronic leak detection system (L). When the system detects this situation, it locks the device and emits an audible and visual signal informing the user of the situation. The device will remain locked until the detection probe is dry..

· Produced water conductivity estimation probe to assess the condition of the membrane and components (Q). When water is dispensed from the tap, the system will measure the conductivity of the produced water.

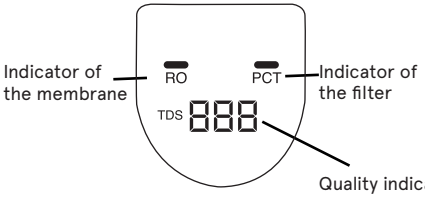
· Automatic filter change notification, to inform the user that proper maintenance is required to ensure the quality of the dispensed water. To ensure the quality of the dispensed water, the equipment must be properly maintained and remain locked until the corresponding actions are taken.

3. INTERFACE. STATE OF THE SYSTEM

3.1 DISPLAY:



1. Operation indicator
2. Washing indicator
3. Fault indicator
4. Filter life
5. Quality indicator
6. Power button
7. Reset/wash button



3.2. FUNCTIONALITIES

FUNCTION	ACTIONS
1. Washing when the machine is turned on.	Whenever the system is electrically connected, it will wash the RO membrane for 20 seconds.
2. Washing after accumulated use.	When the machine has been running for more than 20 minutes, the system will wash the RO membrane 3 times for 3 seconds, with a 2-second interval between washes.
3. Opening the tap.	The system starts up normally.
4. Turn off the tap.	The system stops producing water. If it hasn't run for more than 20 minutes, it performs a 5-second wash and goes into standby.

3.3. TROUBLESHOOTING AND IDENTIFICATION

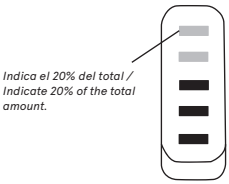
GUY	WARNING	COMMENTS
Excessive continuous operating time	 *The "Fault" light flashes. The tap display shows "E1".*	When the machine is in operation for more than 3 hours continuously, it is locked for safety. Disconnect the machine electrically and reconnect it after a few seconds
Water leak	 *The "RINSE" and "FAULT" light flashes. The tap display shows "E2".*	The machine has detected a water leak. Repair the water leak and dry the sensor thoroughly. The machine resets when the sensor does not detect a water leak.
Lack of pressure at the water inlet	 *All the lights flashes. The tap display shows "E3".*	There is not enough pressure for the RO to function properly. Check that there is pressure in the network. It will only be restored when pressure returns.

When you detect that the equipment is in any of the states described, contact the maintenance service to make an appointment to carry out the required repair or maintenance.

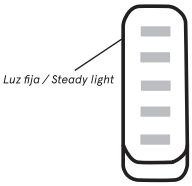
See the corresponding section in the technical manual.

3.4. FILTER LIFETIME DISPLAY

Indicador vida de filtros / Filter life indicator

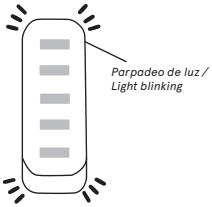


Filtro agotado / Exhausted filter



Máquina bloqueada por falta de mantenimiento / Machine blocked due to lack of maintenance

Pasados 2 meses del fin de vida de los filtros sin hacer el mantenimiento, esta se bloqueará para garantizar la calidad y caracteristicas del agua dispensada por la maquina. Llamar al servicio técnico para realizar el mantenimiento.
After 2 months from the end of life of the filters without maintenance, it will be blocked to guarantee the quality and characteristics of the water dispensed by the machine. Call the technical service to carry out the maintenance.



To ensure the quality and characteristics of the water dispensed by the equipment, it is important to perform proper maintenance periodically and/or when indicated by the equipment's electrical controller. If this maintenance is not performed within two months of the maintenance notice, the equipment will stop operating for safety reason, stop dispensing water, and notify the user of the reason for the stoppage.

4. WARRANTY

The distributor guarantees the equipment for a period of three years against any non-conformity detected in the same, as provided for in Royal Decree- Law 7/2021, of April 27, transposing European Union directives on 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 warranty covers the repair and replacement of defective parts by personnel authorized by the distributor or the official technical assistance service (SAT) at the installation site or in its workshops. Labor and shipping costs are also included in the warranty.
The distributor is exempt from providing a warranty in cases of parts subject to natural wear and tear, lack of maintenance, impacts, or other non- conformities resulting from improper use of the equipment or use that is inadequate according to the operating conditions and limits indicated by the manufacturer. Likewise, the warranty is void in cases of improper handling and use of the equipment or in cases where it has been modified or repaired by personnel other than the distributor or official customer service center.
· Parts replaced under warranty will remain the property of the distributor.
The distributor is responsible for any lack of conformity of the equipment when this relates to the origin, identity, or suitability of the products, in accordance with their nature and purpose. Considering the characteristics of the equipment, compliance with the technical installation and operating conditions is essential for the warranty to cover the lack of conformity. Failure to comply with these conditions may result in the voiding of the warranty, taking into account the relevance of the equipment's purpose and the operating conditions and limits under 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 current regulations.
The distributor must ensure the correct installation and commissioning of the equipment as specified by the manufacturer and current regulations and will also be liable for any lack of conformity resulting from improper application, installation, or commissioning of the equipment.
· For any warranty claim, the purchase invoice must be presented. The three-year period begins from the date of purchase of the equipment from the
distributor.
· If your equipment experiences any problems during the warranty period, contact your dealer.

The equipment is installed and operational in a manner satisfactory to the customer and for the record:

*Pre-equipment treatment:

* Equipment entry hardness (ºF):

* TDS entering the equipment (ppm):

* TDS produced water (ppm):

* Equipment inlet pressure (bar):

***Result of the installation and commissioning sheet:**

Correct:

Others:

The equipment owner has been adequately and clearly informed of the use, handling, and maintenance required to ensure proper operation and the quality of the water produced. A maintenance contract is offered to this end.

***Maintenance contract ref.:**

ACCEPT the maintenance contract

DOES NOT ACCEPT the maintenance contract

If you need information, report a fault or malfunction, request maintenance, or have a technician assist you, please read the operation, troubleshooting, and troubleshooting sections of this manual first and contact the dealer or company that sold you your equipment.

COMPANY AND/OR AUTHORIZED INSTALLER, DATE AND SIGNATURE:

SERIAL NUMBER:

NOTE FOR THE COMPANY AND/OR AUTHORISED TECHNICIAN/INSTALLER: The data marked with the * symbol must be completed by the installing technician and transcribed by the technician himself from the INSTALLATION RECORD sheet.

5. INSTALLATION RECORD SHEET

NOTES FOR THE TECHNICIAN/INSTALLER: Read this manual carefully. If you have any questions, please contact your dealer's Technical Assistance Service (TAS). The information marked with the * symbol must be completed by the technician/installer and transcribed onto the WARRANTY sheet. This sheet must be kept by the installer and may be requested by the dealer to improve after-sales service and support. to the customer. The technician who performs the installation and commissioning of the equipment must have the appropriate technical training.

DATA ON THE APPLICATION OF THE EQUIPMENT:

Origin of the water to be treated:

- ○ PUBLIC SUPPLY NETWORK
- ○ OTHERS

* Pre-equipment treatment:

* Equipment entry hardness (ºF):

* TDS entering the equipment (ppm):

* TDS produced water (ppm):

* Equipment inlet pressure (bar):

* Chlorine concentration in equipment input (ppm):

CONTROL OF THE INSTALLATION STEPS:

Sanitation according to the described protocol ○
Calibration of maximum pressure switch
Inspection and fittings.
Pressurized system tightness

TDS produced water (countertop tap) (ppm) ○
Clearly inform about the use, handling, and maintenance required for the equipment to ensure proper operation and the quality of the water produced.

COMMENTS

* Result of installation and commissioning:

- ○ CORRECT (equipment installed and operating correctly. Produced water appropriate for the application).
- ○ OTHERS:

IDENTIFICATION OF THE AUTHORIZED TECHNICIAN/INSTALLER:

COMPANY AND/OR AUTHORIZED INSTALLER, DATE AND SIGNATURE:

EQUIPMENT OWNER CONFORMITY:

I have been clearly informed of the use, handling, and maintenance required for the installed equipment. I have been offered a maintenance contract and informed how to contact Customer Service if I need information, report a breakdown or malfunction, request maintenance, or require technical assistance..

Comments:

*** Maintenance contract ref.:**

ACCEPT the maintenance contract ○

DOES NOT ACCEPT the maintenance contrac ○

Model/Ref.:

Owner:

Street:

Phone:

Population:

Province C.P.:

SERIAL NUMBER:

EQUIPMENT WARRANTY ADDRESSED TO THE DISTRIBUTOR:

The distributor will be solely responsible for replacing parts in the event of non-conformity. The repair of the equipment and the associated costs (labor, shipping, travel, etc.) will be borne by the distributor, in accordance with the terms and conditions of the contract and sale. Therefore, the costs cannot be subsequently passed on to the manufacturer.

6. MAINTENANCE SERVICE

DATE	TYPE OF SERVICE	NAME, SIGNATURE AND SEAL OF THE AUTHORIZED TECHNICIAN	
	○ START-UP		
	○ COMPLETE MAINTENANCE ○ PREPARATION ○ SANITIZATION ○ OTHERS	TECHNICAL SEAL	ORDINARY EXTRAORDINARY WARRANTY
	○ COMPLETE MAINTENANCE ○ PREPARATION ○ SANITIZATION ○ OTHERS	TECHNICAL SEAL	ORDINARY EXTRAORDINARY WARRANTY
	○ COMPLETE MAINTENANCE ○ PREPARATION ○ SANITIZATION ○ OTHERS	TECHNICAL SEAL	ORDINARY EXTRAORDINARY WARRANTY
	○ COMPLETE MAINTENANCE ○ PREPARATION ○ SANITIZATION ○ OTHERS	TECHNICAL SEAL	ORDINARY EXTRAORDINARY WARRANTY
	○ COMPLETE MAINTENANCE ○ PREPARATION ○ SANITIZATION ○ OTHERS	TECHNICAL SEAL	ORDINARY EXTRAORDINARY WARRANTY

6. MAINTENANCE SERVICE

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

6. MAINTENANCE SERVICE

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

6. MAINTENANCE SERVICE

DATE	TYPE OF SERVICE	NAME, SIGNATURE AND SEAL OF THE AUTHORIZED TECHNICIAN	
	START-UP		
	COMPLETE MAINTENANCE PREPARATION SANITIZATION OTHERS	TECHNICAL SEAL	ORDINARY EXTRAORDINARY WARRANTY
	COMPLETE MAINTENANCE PREPARATION SANITIZATION OTHERS	TECHNICAL SEAL	ORDINARY EXTRAORDINARY WARRANTY
	COMPLETE MAINTENANCE PREPARATION SANITIZATION OTHERS	TECHNICAL SEAL	ORDINARY EXTRAORDINARY WARRANTY
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	COMPLETE MAINTENANCE PREPARATION SANITIZATION OTHERS	TECHNICAL SEAL	ORDINARY EXTRAORDINARY WARRANTY

GRADES

GRADES