

EQUIPO

UNE 149101

CERTIFICADO

BOLT

1000 evo

INSTRUCTION MANUAL

**REVERSE
OSMOSIS EQUIPMENT**

1000 evo

INDEX

P

1	User manual	4
2	Technical manual	8
3	Sanitisation procedure	13
4	Technical data sheet	15

USER MANUAL

FOR REVERSE OSMOSIS SYSTEMS

O. KEY FEATURES



CLICK
FAST CONNECTIONS AND
MAXIMUM SECURITY



FILTER CONTROL
AUTOMATIC MAINTENANCE
NOTIFICATION



**SOLENOID
VALVE**
IMMEDIATE CONTROL



DIRECTFLOW
DIRECT PRODUCTION OF
OSMOTIC WATER



**LED
STATUS**
STATUS INDICATIONS



**HIGH PERFORMANCE
MOTOR**
HIGH-PERFORMANCE ENGINE



**SECURITY
LOCK**



**SMART
FAUCET**



AQUASTOP
AUTOMATIC LEAK
DETECTION SYSTEM



**ANTIFOULING
PEARLS**



**ELECTRONIC
ADAPTER**
GREATER SAFETY
AND EFFICIENCY



DOUBLEFLOW
HIGHER WATER FLOW RATE



DIRECT ACCESS
EASY ACCESS AND
MAINTENANCE



SOUND WARNINGS



**TDS CREEP
REDUCTION**
PROGRAMMABLE
SMART WASHES



HIGH EFFICIENCY



CAPSULATED MEMBRANE



**AUTO
FLUSHING**
AUTOMATIC MEMBRANE
SWEEP



**QUALITY
CONTROL**
CONDUCTIVITY CONTROL



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

1. INTRODUCTION

Congratulations, you have purchased an excellent domestic water treatment system.

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

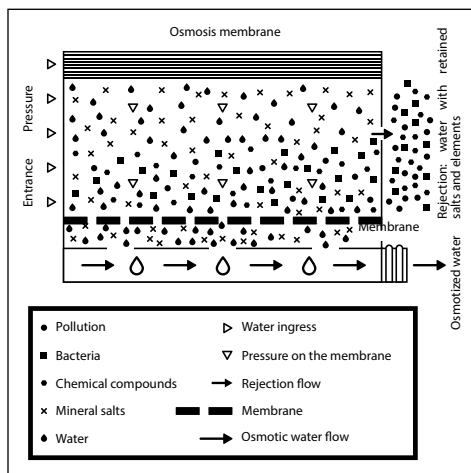
2. ¿WHAT IS OSMOSIS?

Natural or direct osmosis is the most common type in nature, given that semi-permeable membranes form part of the vast majority of organisms (e.g. plant roots, organs in our own bodies, cell membranes, etc.).

When two solutions with different salt concentrations are separated by a semi-permeable 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 it comes to reversing this process and obtaining a flow of water with a lower salt concentration from one with a higher concentration, sufficient pressure must be applied from the side with the higher concentration on the membrane to overcome the natural tendency and flow of the system. This process is what we call reverse osmosis. Currently, reverse osmosis is one of the best methods for improving water characteristics through a physical-chemical system (without the use of added chemicals).

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 (osmotised water), while the rest of the water (rejected and with a higher concentration of salts) will be diverted to 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 the quality of the water.

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 must be carried out to ensure its correct purification, applying the appropriate techniques and equipment for each need, PRIOR TO INSTALLATION of the equipment. Please contact your distributor for advice on the most appropriate treatment for your situation.

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

Except for maintenance technicians, no one else is authorised to dismantle and repair the device, in order to prevent fires and electric shocks.

3.1. USE OF EQUIPMENT

• When you are going to be away for more than a week, turn off the water supply to the appliance, empty it and disconnect it from the power supply. When you return, turn on the water supply and the tap, connect the power supply and let the water run for at least 5 minutes before consuming it.

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

• Remove full jugs or bottles and avoid occasionally removing glasses to improve equipment performance.

! ATTENTION: Special attention must be paid to the cleanliness and hygiene of the osmosis tap, on a regular basis and especially when carrying out periodic maintenance and sanitisation. To do this, use the sanitising spray and disposable kitchen paper. Under no circumstances should you use the cloth used to dry your hands or the multi-purpose cloth used for cleaning the kitchen.

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

3.2. RECOMMENDATIONS FOR THE CORRECT USE OF OSMOTIC WATER

• If you wish to supply osmotic water to any other point of consumption (such as refrigerators, coffee machines, ice machines, water dispensers, other taps, etc.), the piping must be made exclusively of plastic tubing that complies with the laws established for human consumption. If other materials are used, they could impart unpleasant flavours to the water and cause oxidation.

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

• It is recommended not use aluminium utensils for cooking with osmotic water.

3.3. CONDICIONES PARA EL CORRECTO FUNCIONAMIENTO DEL EQUIPO

- The equipment should not be fed with water at temperatures above 38°C or below 5°C.
- The ambient temperature must be between 4° and 45°C.
- For water with salinity levels above 1500 ppm, consult your distributor.

In the event that the water to be treated contains:

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

4. BASIC OPERATION

The Technical Specifications section describes the steps for operating the system (page 17).

5. USER INTERFACE

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

The equipment data sheet describes the states in which the system can be found and the information provided by it (pages 17-19 of this manual).

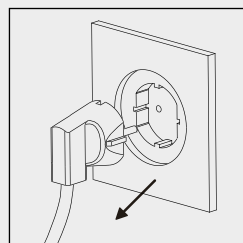
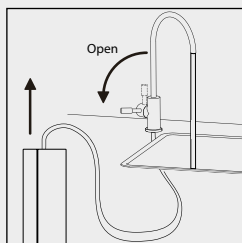
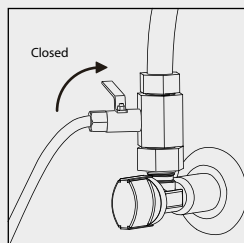
6. MAINTENANCE

To guarantee the quality of the water supplied by your equipment must be serviced periodically.

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

7. IDENTIFYING AND SOLVING PROBLEMS

PROBLEM	POSSIBLE CAUSE	SOLUTION
1. Leak outside the equipment.	<ul style="list-style-type: none"> • Breakage of an internal part of the equipment. • Poor connection of the installation. • Deterioration of a plastic pipe. • Bad connection of filters or membrane. • The equipment is not depressurised. 	<ul style="list-style-type: none"> • Check all connections in the installation. • Allow the machine to depressurize correctly and reinstall the filter or membrane. • If you need to dismantle the equipment, call technical support first.
2. Zero production.	<ul style="list-style-type: none"> • No water supply. • No power supply. • Membrane blocked. • Transformer voltage less than 24 VDC. • Inlet filter saturated. 	<ul style="list-style-type: none"> • Wait for the power to come back on. • Check the electrical supply to the property. • Check the transformer voltage. • Check the membrane and inlet filter.
3. Poor production.	<ul style="list-style-type: none"> • Partially closed supply valve. • Filters/membranes in poor condition or worn out. • Blocked reject valve, flow rate less than 1.5 litres per minute. • Blocked pump or pump with bubbles inside (cavitation) • Low temperature of the water. 	<ul style="list-style-type: none"> • Open it completely. • Replace the filter or membrane. • Change the reject valve. • Change pump in case of block. • Unplug and reconnect the equipment to flush it and remove any air bubbles from the pump.
4. Excessive Production.	<ul style="list-style-type: none"> • Excessive chlorine entering the membrane. • Blocked reject valve, flow rate less than 1.5 litres per minute. • Excessively high feed water temperature >38°C. 	<ul style="list-style-type: none"> • Replace membrane. • Change of the reject valve. • The water temperature must be reduced below the limits. • Check the general installation of the enclosure to eliminate heat sources.
5. Unpleasant taste and smell.	<ul style="list-style-type: none"> • Membrane in bad conditions. • The equipment has been stopped many time. • No cleaning has been carried out. • The sanitising product has not been purged correctly. 	<ul style="list-style-type: none"> • Reemplazar membrana. • Realizar desinfección. • Purgar correctamente el aparato.
6. Whitish water colour.	<ul style="list-style-type: none"> • Air in the system. Microbubbles of air that disappear after a few seconds. 	<ul style="list-style-type: none"> • This is not a problem. The appearance will gradually disappear as the air inside the unit is removed.
7. Constant dripping noise in drain	<ul style="list-style-type: none"> • Depressurisation of the device after production. • Dirty or faulty inlet valve. • Dirty, blocked or faulty membrane non-return valve (production). 	<ul style="list-style-type: none"> • Wait a few minutes and check whether the dripping has stopped. Clean or replace the inlet valve. Check the membrane non-return valve.
8. The equipment does not start up.	<ul style="list-style-type: none"> • No water supply. • No power supply. • Inlet filter blocked. • Machine bloqued by alarm. • Faulty high-pressure switch. 	<ul style="list-style-type: none"> • Check the condition of the main switch and the equipment inlet. • Check the general power supply. • Change the inlet filter. • If there is power supply but the lights do not turn on, contact technical support. • Replace the high-pressure pressure switch.
9. The equipment constantly stops and starts.	<ul style="list-style-type: none"> • Leak in production outlet. • Electric valve closures on external devices do not shut off properly and have internal leaks. • Production non-return valve does not close properly. 	<ul style="list-style-type: none"> • Check the osmosis water installation for leaks and repair if necessary. • Check the shut-off mechanisms on appliances connected to the equipment and ensure they close properly. • If dispenser taps are installed, check for abnormal dripping and repair if necessary. • Check the non-return valve.
10. The equipment never stops discharging water into the drain.	<ol style="list-style-type: none"> 1. Inlet solenoid deteriorated. 2. Damaged production non-return valve. 	<ol style="list-style-type: none"> 1. Check and Replace.



Read the INTERFACE section of the Technical Data Sheet. In the event of a fault, contact the Technical Support Service and proceed as follows: Close the inlet valve. Open the tap to depressurise the system and disconnect the plug.

TECHNICAL MANUAL

1. KEY FEATURES

APPLICATION

Water treatment

Reverse osmosis for domestic use.

Use

Improvement of drinking water characteristics (in compliance with the requirements of European Directive 2020/2184 on water intended for human consumption or its national transpositions in the various Member States of the European Community).

Modifications due to reduction or contribution

- Water treatment by reverse osmosis can reduce concentrations of salts and other substances by high percentages.
- Minimum reduction* of certain compounds and parameters:

- Sodium: 85%.
- Calcium: 90%.
- Sulphate: 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 incorporated in the equipment and/or the regulation of the mixing valve (if incorporated)*

2. UNPACKED

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

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

Remove the equipment and accessories from their cardboard packaging, discarding the corresponding protective packaging.

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

Inside you will find: Water treatment equipment, installation accessories and documentation. The materials used in the packaging are recyclable and should be disposed of in the appropriate recycling bins or at your local waste collection centre.

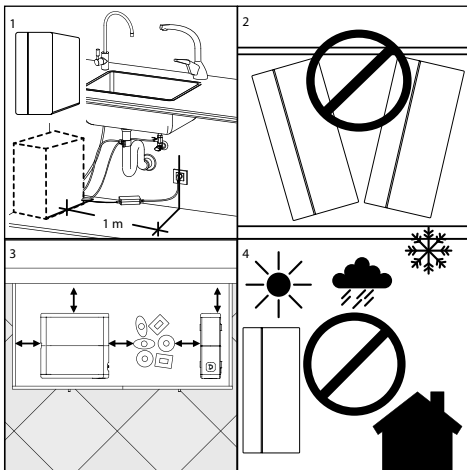
This product cannot be disposed of with normal household waste. When the equipment has reached the end of its useful life, it should be returned to the company or centre where it was purchased, or to a recycling centre or specific local centre for the recovery of materials, indicating that it contains electrical and electronic components. The correct collection and treatment of unusable appliance helps to preserve natural resources and to avoid potential risks to public health



3. INSTALLATION OF THE EQUIPMENT

- If the installation needs to be adapted in order to install the equipment in the intended location, this must be done in accordance with national regulations for indoor water and electrical installations.
- These devices require an electrical outlet within 1 metre (1).
- It is recommended not to install the equipment lying down or tilted (2)
- Equipment filled with water weighs more, and the distribution of weight in an unexpected position could cause a connection element to be forced, potentially leading to malfunction, damage to equipment components, or water loss.
- The location chosen for installation must have sufficient space for the appliance itself, its accessories, connections and for convenient maintenance (3)
- Under no circumstances shall the equipment be installed outdoors (4)
- The environment and surroundings where the equipment is installed and its subsequent connections must maintain adequate hygienic and sanitary conditions.
- Do not place flammable, explosive, volatile or strongly magnetic substances near the water purifier.
- The device should only be used with the power supply unit supplied with the device.
 - The device should only be powered at a voltage between 200 and 240 VAC 50/60Hz.
 - The adapter must be installed vertically on the wall or in the cupboard. Do not place the flat adapter on the bottom of the cupboard.

- Do not use damaged power supplies or plugs, or loose sockets.
- If the power cable is damaged, it must be replaced by a designated professional after-sales maintenance technician to avoid hazards.
- Do not touch the power plug with wet hands.
- Do not use in conditions of high water pressure.
- Avoid external leaks onto the equipment from pipes, drains, etc.



! CAUTION: Equipment must not be installed next to a heat source or directly exposed to hot air flow. Equipment must not be installed next to a heat source or directly exposed to hot air flow.

- The new hose sets supplied with the appliance must be used and the old hose sets must be disposed of properly.
- Users are not recommended to perform the installation themselves. Please ensure you contact customer service to arrange an appointment for professional on-site installation. Users will be responsible for any accidents and related losses caused by self-installation.

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

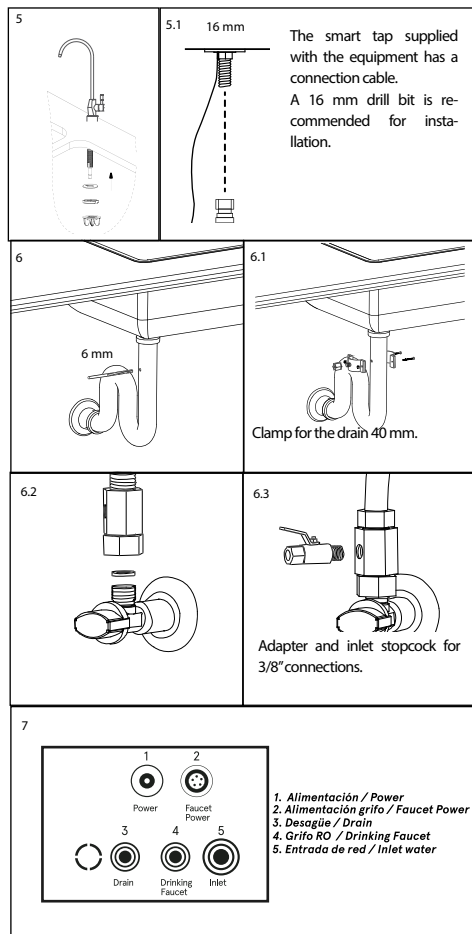
! ATTENTION: The work must be carried out with an appropriate attitude and under hygienic conditions, taking extreme precautions in everything related to materials and components that will come into contact with the water to be treated or consumed.

(For further information, please contact your distributor).

! ATTENTION: Avoid the risk of external contamination of the equipment due to improper handling by wearing gloves, using hand sanitiser gel or washing your hands as often as necessary during installation, commissioning and maintenance of the equipment.

The most common place to install the equipment is usually under the kitchen countertop or in an adjoining cabinet.

Install the tap, the drain collar assembly and the inlet adapter, and connect them to the respective connectors on the appliance (5, 6 and 7).



! ATTENTION: Some of the installation accessories may vary depending on the model and 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 parameter meter, measure the dispensed water and slowly and gradually open the mixing valve until the desired parameter is achieved.

- The water dispensed must comply with the potability requirements established by European Directive 2020/2184 or corresponding national legislation transposing it.

See hydraulic diagram on page 12.

4. COMMISSIONING

4.1. FILLING AND PURGING THE EQUIPMENT

- Open the dispenser tap and then open the water supply tap to the equipment. Finally, connect the power cord to the socket. The equipment will begin to perform an internal wash of the filters in order to remove air bubbles, membrane protection products and any possible residue from the filter. During this time, the production flow rate will be reduced by the filter washing flow. If the drainage flow rate takes a few minutes to start, it is advisable to repeat the start-up steps, as the pump may have an air bubble, causing it to cavitate and prevent water from flowing to the rest of the components.

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

4.2. SYSTEM TIGHTNESS, SHUTDOWN AND START-UP

- Close the dispenser tap on the worktop and keep the equipment powered hydraulically or electrically, visually inspecting the system to ensure there are no leaks (for approximately 5 minutes).

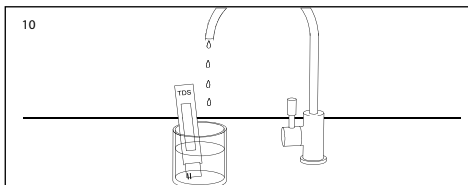
Open the dispenser tap. The appliance should activate and dispense water. Close the tap again and check that the appliance stops.

4.3. EQUIPMENT SANITISATION

• Clean the equipment according to the model and procedure indicated by the manufacturer (see Cleaning Procedure). If you have any questions, consult your distributor.

4.4. RINSING AND CLEAN

• Open the dispenser tap and measure the quality of the water being produced. Using a conductivity or TDS meter, check that the reduction in salts obtained is adequate for the water to be treated (10).



! ATTENTION: *if you detect that the water dispensed does not comply with current national legislation, repeat the measurement. If the deviation persists, close the equipment's inlet valve, empty it through the tap, disconnect it from the power supply and contact your technical service.*

5. MAINTENANCE

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

- Consumable items must be replaced at the frequency indicated by the manufacturer.
- The equipment must be sanitised periodically and prior to being put into service.

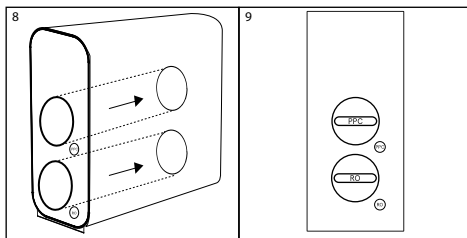
! ATTENTION: *Some components of your equipment are consumables with a limited lifespan.*

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

FILTER INSTALLATION

Install the PPC filter in the first stage of the equipment (upper position) and the RO membrane in the second stage of the equipment (lower position).

- To install the filters, place each filter in its respective housing with the handle in a horizontal position, as shown in Figure 8.
- Insert firmly all the way until you hear a 'click'. After installation, check that the filters are properly inserted and secured.



RECOMMENDED MAINTENANCE

FILTER PPC: 4.000LTS O 12 MONTHS
MEMBRANE RO: 20.000LTS O 60 MONTHS

Maintenance must be carried out by trained personnel, who must handle the equipment properly and 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 commissioning, maintenance, or use may void the warranty and invalidate any certifications to which the equipment has been subjected.*

An excess of any compound (total chlorine, turbidity, hardness, etc.) can reduce the life of filters and certain components. These maintenance guidelines are for reference only.

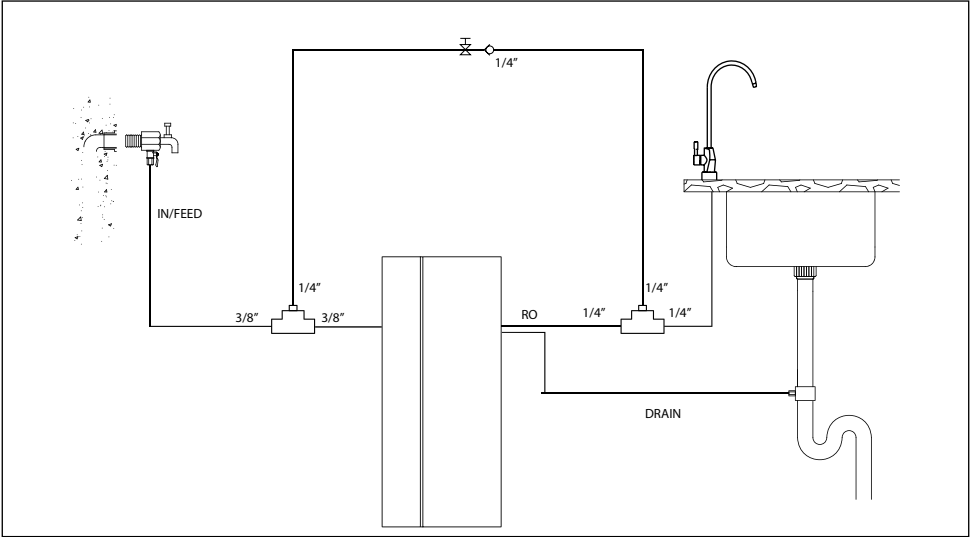
Your distributor will estimate the lifespan of consumables based on the characteristics of the water to be treated and the expected consumption in each case.

! ATTENTION: *All consumables are supplied in individually designed packaging to ensure hygienic storage and transport conditions. Take extreme hygiene precautions after removing the consumables from their packaging and when handling the various connectors..*

! ATTENTION: *Before dismantling the equipment, make sure you have all the materials you will need to carry out the maintenance operations and the necessary space to do so. Work in a well-lit area, in suitable hygienic conditions and with sufficient space to carry out the operations comfortably.*

- Replace the filter and/or membrane correctly. Ensure that the connections are watertight and that the original hydraulic configuration of the system is maintained, as recommended by the manufacturer.
- Sanitise the equipment following the instructions described in the Sanitisation Procedure.
- For further information, please refer to the equipment's technical data sheet. If you have any other questions, please consult your distributor.

HYDRAULIC DIAGRAM.



SANITISATION PRODECURE

1. SANITISATION

Required material:

- Manual valve.
- Measuring cup and connectors.
- Hydrogen Peroxide 3% (0,5 l).
- Brush.
- Single-use vinyl gloves.
- Easy to rinse soap detergent.
- Food-grade lubricant.
- Hydrogen peroxide test strips.
- Sanitising spray.
- Paper towel.

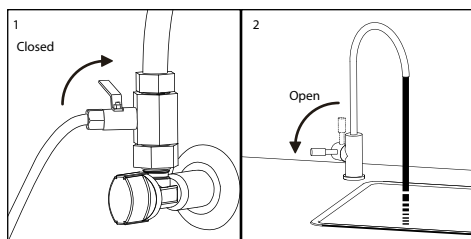
Sanitisation:

- At start-up.
- At least every 12 months.

Whenever components in contact with water in the equipment are accessed or no water has been consumed for more than a month.

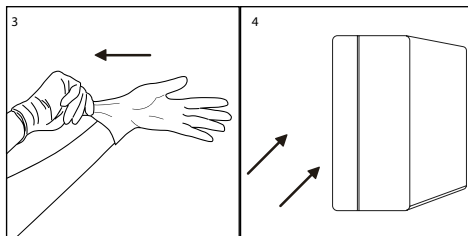
! ATTENTION: The water used during cleaning must be drinking water (from the public distribution network complying with the corresponding potability requirements of RD 03/2023, European Directive 2020/2184 or current local legislation).

- Open the dispenser tap and allow water to recirculate in order to renew the water inside the unit.
- Close the inlet valve (1) and keep the dispenser tap open to reduce the pressure in the unit.



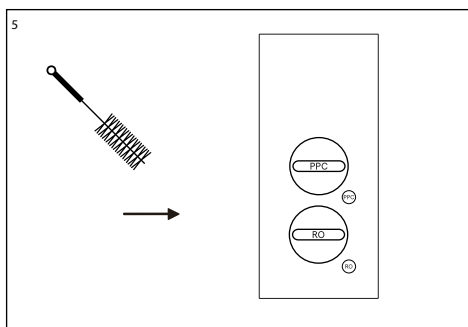
- Replace the filters and/or membrane as indicated in the corresponding section of the Technical Manual.
- Sanitisation must be carried out with the cartridges installed in their housings.
- Use single-use vinyl gloves to handle sanitising products.

! ATTENTION: Take extreme hygiene measures when handling filters, membranes and equipment components that come into contact with water.



- If any of the cartridges are replaced 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 'Inlet Water' and insert the dosing cup between the stopcock and the water inlet of the equipment (6). For greater comfort and ease of access during sanitisation and opening and closing of the inlet valve, you can insert a manual valve in the closed position together with the sanitising measuring cup, which will perform the same functions as the manual inlet shut-off valve on 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 should be empty.

- Pour 0.25 litres of hydrogen peroxide into the measuring cup inserted into the inlet of the equipment (8). Screw the cup securely onto its head.

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

- Open the water inlet valve to the equipment and the dispenser tap, connect the appliance to the power supply and allow it to start operating, letting it draw the hydrogen peroxide into it. Fill a 1-litre 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 0.25 litres of hydrogen peroxide, repeat the above steps and finish by closing the dispenser tap. At this point, the entire circuit contains sanitising liquid.

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

- Empty the measuring cup. Before opening it, have a container handy to empty it into, as it may be full of water.

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

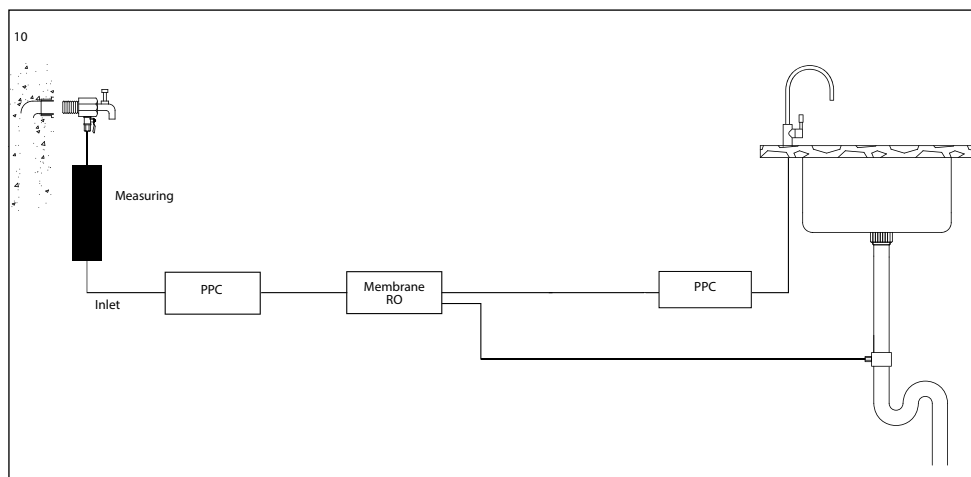
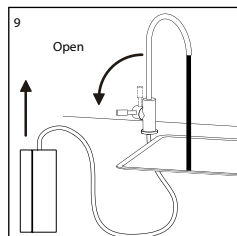
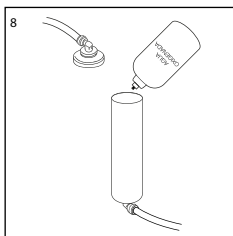
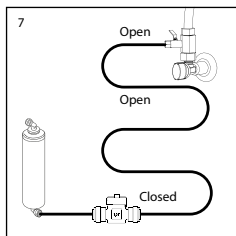
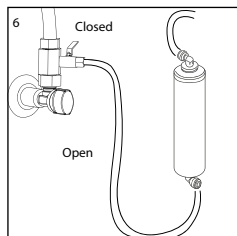
3. RINSE

Once sanitisation has been carried out, you must:

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

- Rinse thoroughly with water that complies with local regulations regarding water potability parameters.

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



TECHNICAL SHEET

1. TECHNICAL SPECIFICATIONS

OPERATING LIMITS

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

Type of Control:

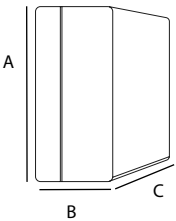
1.Maximum pressure switch. 2.Inlet control solenoid valve.
3. Flushing solenoid valve
4. Recirculation solenoid valve

Security System:

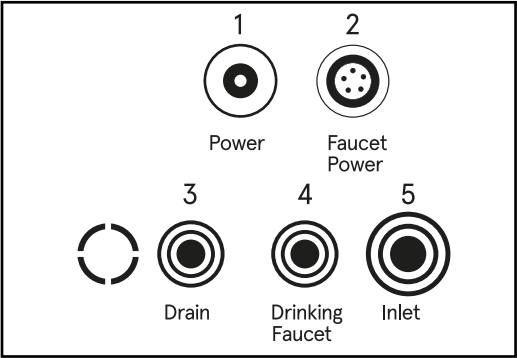
1. Maintenance warning.
2. Safety Lock.
3. Water Quality control.
4. Leak sensor

Dimensions (A x B x C mm): 350 x 150 x 418
Weight (kg include every accessories): 11,9kg.

Connection inlet: 3/8"
Connection outlet: 1/4".
Connection faucet: 1/4".
Wall adapter: 3/8" M-F. ****
Drain collar: Clamp for 40 mm drain pipe.



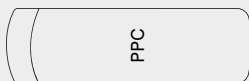
- 1. Power
- 2. Faucet Power
- 3. Drain
- 4. Drinking Faucet
- 5. Inlet water



* 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 levels may reduce the life and performance of certain components.
**** May vary depending on the model.

Filter PPC

1 x prefilter combined sediments carbon.
1 x postfilter carbon block.



Membrane RO

1 x Membrane 1000 GPD.



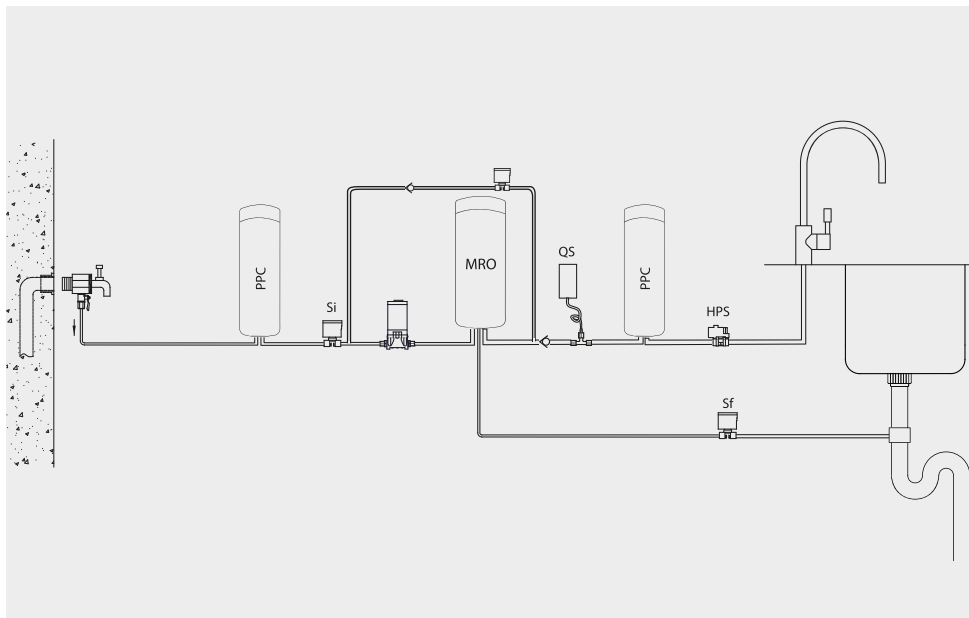
Osmotised water flow: 2,4 lpm.
Osmotised water volume: 20.000l.

Power supply:
Power adapter:
Type faucet:
Production:

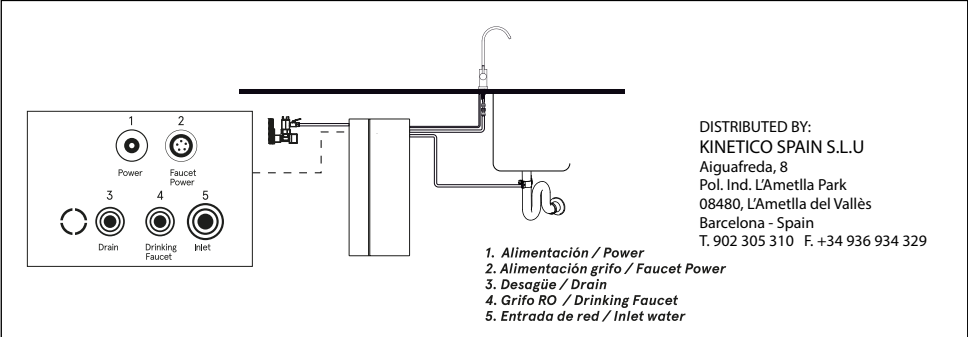
24 VDC - 168 W
200 - 240 Vac 50 / 60 Hz: 24 Vdc
Smart faucet
2,4 lpm
(inlet water conditions: 450 μ S, 15 °HF, 17 °C y 3 bar) automatic
rinsing (see section. 3.3)

Membrane cleaning system:

HYDRAULIC DIAGRAM



HYDRAULIC CONNECTION DIAGRAM

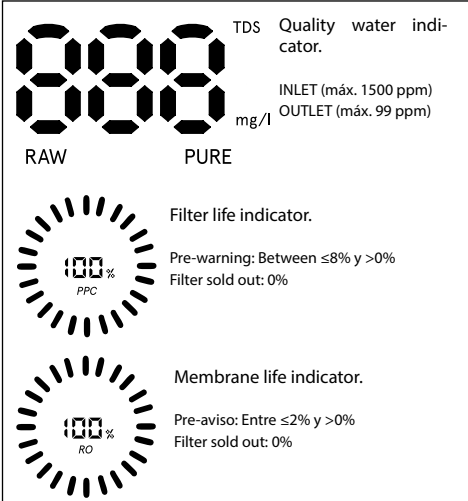


2. EQUIPMENT OPERATION

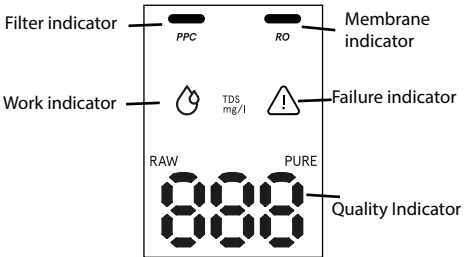
- The mains water to be treated enters the equipment through the pre-filtration stage, which incorporates a PP and BLOCK carbon filter (PPC). In this filtration stage, suspended particles, chlorine, its derivatives and other organic substances are retained.
- The flow of water into the equipment is controlled by a shut-off solenoid valve (Si).
- After being treated in the filtration stage, the water is pumped towards the reverse osmosis (RO) membrane. The equipment incorporates a pump (P) to increase pressure. The pressure of the water on the membrane makes the reverse osmosis process possible.
- Waste water or water with excess salts and other dissolved substances is directed to the drain for disposal.
- Before coming out of the tap, the treated water passes through a carbon post-filter that improves its taste.
- Direct flow equipment controls start-up and shut-down by means of a pressure switch (HPS)
- The equipment incorporates various functional and/or safety systems, managed by a state-of-the-art electronic module:
- Electronic leak detection system (L). When the system detects this situation, it blocks the equipment by emitting an acoustic and light signal informing the respect. The equipment will remain locked until the detection probe is dry.
- Automatic filter change notification, informing the user that proper maintenance must be carried out to ensure the quality of the water dispensed.
- Probe for estimating the conductivity of the water produced to assess the condition of the membrane and components. When water is dispensed from the tap, the system will measure the conductivity of the water produced.

3. INTERFACE SYSTEM STATUS

3.1 DISPLAY:









The equipment includes a smart tap that will indicate via an LED when any of the cartridges need replacing or if there is a malfunction in the system.



3.2. FEATURES

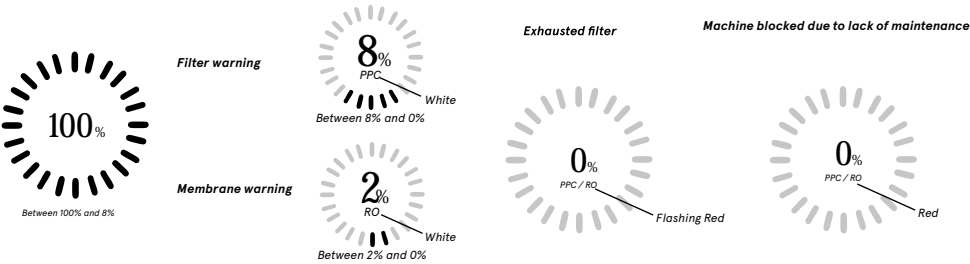
FUNCTION	ACTIONS	EQUIPMENT LIGHT STATUS
1. Washing when switching on the equipment.	Whenever the unit is connected to the mains power supply, the system will flush the RO membrane for 30 seconds.	When washing is in progress, the 'PPC & RO' lights will flash WHITE. The tap drop icon will flash WHITE.
2. Hand Washing.	By pressing the 'FLUSH&RESET' button, the system will flush the RO membrane for 30 seconds. Flushing can be cancelled by pressing the 'FLUSH&RESET' button again".	By pressing the 'FLUSH&RESET' button, the system will flush the RO membrane for 30 seconds. Flushing can be cancelled by pressing the 'FLUSH&RESET' button again
3. Washing based on accumulated operating time	Each time the accumulated working time reaches 20 minutes, the system will wash the RO membrane for 15 seconds.	When washing is in progress, the 'PPC & RO' lights will flash WHITE. The tap drop icon will flash WHITE
4. Daily washing	When the machine has been idle for 24 hours, the system will wash the RO membrane for 30 seconds.	When washing is in progress, the 'PPC & RO' lights will flash WHITE. The tap drop icon will flash WHITE
5. Sistema de reducción TDS Stand-by	30 minutes after the last water dispensing, the TDS reduction system will be activated to eliminate most of the salinity generated by direct osmosis. The recirculation time is 60 seconds. If the tap is not opened after recirculation, another 8-hour timer will be activated. Once these 8 hours have elapsed, another 60-second recirculation will take place, and so on, until the user opens the tap.	When washing is in progress, the 'PPC & RO' lights will flash WHITE. The tap drop icon will flash WHITE

3.3. IDENTIFICATION AND RESOLUTION OF FAULTS

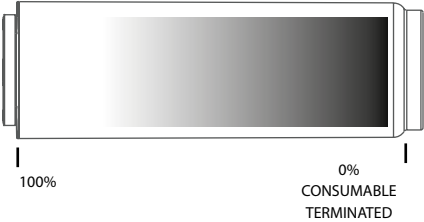
TYPE	WARNINGS	COMMENTS
Pump protection time	<div>E05</div> <div>Display</div> <div>Faucet: E05 and RED "warning" sign </div> <div>Beeping for 1 minute </div>	The machine has been running +60 continuous minutes. This is blocked for security. Disconnect and reconnect electrically.
Water leak is detected	<div>E06</div> <div>Display</div> <div>Faucet: E06 and RED "warning" sign </div> <div>Beeping for 1 minute </div>	The machine has detected a water leak. This is blocked for security. The machine resets itself when the leak sensor is dry.
Machine blocked due to lack of maintenance	<div>E08</div> <div>Display</div> <div>Faucet: E08 and RED "warning" sign </div>	After 3 months from the end of the 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 perform maintenance. (Only blocked in the case of PPC filter)
Front panel poorly fitted	<div>E09</div> <div>Display</div> <div>Faucet: Nothing will be displayed on the faucet</div> <div>Beeping for 1 minute </div>	The machine detects a poor connection between the front cover and the unit. The unit continues to operate, but it is recommended to reposition the front cover.

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

3.4. FILTER LIFETIME DISPLAY



! To guarantee the quality and characteristics of the water dispensed by the equipment, it is important to carry out proper maintenance periodically and/or when indicated by the equipment's electrical controller. If maintenance is not carried out within 3 months of the maintenance warning, the equipment will stop operating for safety reasons, ceasing to dispense water and notifying and informing the user of the reason for this shutdown.



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 FOR THE COMPANY AND/OR AUTHORIZED TECHNICIAN/INSTALLER:** the data marked with the symbol * must be filled in by the installation technician and transcribed by him/her from the **INSTALLATION REGISTRATION sheet**.



5. INSTALLATION REGISTRATION FORM



NOTES FOR THE TECHNICIAN/INSTALLER: read this manual carefully. If you have any questions, contact your distributor's Technical Support Service (S.A.T.). The information marked with the symbol * must be filled in by the technician/installer and transcribed by him/her onto the WARRANTY sheet. This sheet must be kept by the installer and may be requested by the distributor in order to improve after-sales service and customer care. The technician who installs and commissions the equipment must have the appropriate technical training.

DATA ON THE APPLICATION OF THE EQUIPMENT:

Source of water to be treated:

☐ PUBLIC SUPPLY NETWORK

☐ OTHERS

* Pre-equipment treatment:

* Equipment inlet hardness (°F):

* Equipment inlet TDS (ppm):

* Produced water TDS (ppm):

* Equipment inlet pressure (bar):

* Equipment inlet chlorine concentration (ppm):

CONTROL OF INSTALLATION STEPS:

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

TDS produced water (countertop faucet) (ppm)
Clearly inform about the use, handling, and maintenance that the equipment requires to ensure its proper functioning and quality of the water produced.

COMMENTS

* Result of installation and commissioning:

☐ CORRECT (equipment installed and functioning correctly. Water produced suitable for the application).

☐ OTHERS:

IDENTIFICATION OF THE AUTHORIZED TECHNICIAN/INSTALLER:

AUTHORIZED COMPANY AND/OR INSTALLER, DATE AND SIGNATURE:

EQUIPMENT OWNER'S CONSENT:

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 of how to contact customer service in case I need to request information, report a breakdown or malfunction, request maintenance, or request the intervention of a technician.

Comments:

*Ref. Maintenance contract:

ACCEPT the maintenance contract

DO NOT ACCEPT the maintenance contract

Model/Ref.:

Owner:

Street:

Phone:

City:

State:

Zip code:

SERIAL NUMBER:

EQUIPMENT WARRANTY FOR DISTRIBUTORS:

The distributor will only be responsible for replacing parts in the event of non-conformity. The repair of the equipment and the costs involved (labor, shipping costs, travel, etc.) will be borne by the distributor, in accordance with the general terms and conditions of contract and sale, and therefore cannot be passed on to the manufacturer at a later date.

6. MAINTENANCE SERVICE

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

6. MAINTENANCE SERVICE

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

6. MAINTENANCE SERVICE

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

6. MAINTENANCE SERVICE

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

NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

