

EQUIPO

UNE 149101

CERTIFICADO

COMMERCIAL**800**

— DF RO —

**INSTRUCTION MANUAL**

**EQUIPMENT  
REVERSE OSMOSIS**



# COMMERCIAL800

— DF RO —

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# USER MANUAL

## 0. MAIN CHARACTERISTICS

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**CLICK**  
FAST CONNECTIONS  
AND MAXIMUM SECURITY



**FILTER CONTROL**  
AUTOMATIC MAINTENANCE  
NOTIFICATION



**SOLENOID VALVE**  
IMMEDIATE CONTROL



**AQUASTOP**  
AUTOMATIC SYSTEM  
LEAK DETECTION



**DIRECT FLOW**  
DIRECT PRODUCTION OF  
OSMOSIS WATER



**LED STATUS**  
STATUS



**HIGH PERFORMANCE ENGINE**  
HIGHPERFORMANCE  
ENGINE



**ELECTRONIC ADAPTER**  
INCREASED SAFETY  
AND EFFICIENCY



**DOUBLE FLOW**  
HIGHEST FLOW  
OF WATER DISPENSED



**DIRECT ACCESS**  
EASE OF ACCESS AND  
MAINTENANCE



**SOUND WARNINGS**  
SOUND  
WARNINGS



**HIGH EFFICIENCY**  
RECOVERY  
IN PRODUCTION



**CAPSULATED MEMBRANE**  
MEMBRANE INSTALLED  
MAXIMUM HYGIENE



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

## 1. INTRODUCTION

Congratulations. You have purchased an excellent piece of equipment for commercial water treatment.

This equipment will help you to improve water characteristics.

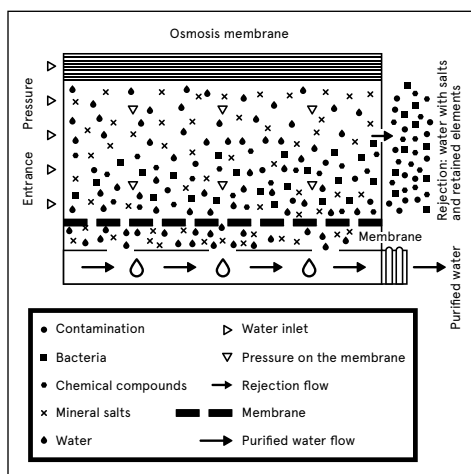
## 2. WHAT IS ?

Natural or direct osmosis is the most common in nature, since semi-permeable membranes are part of the vast majority of organisms (e.g. roots, organs of our own body, 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 solution with the higher concentration. This flow continues until the concentrations on both sides of the membrane are equalised.

When trying to reverse this process and obtain a flow of water with a lower concentration of salts a higher concentration, sufficient pressure of the higher concentration water must be applied to the membrane to overcome the natural tendency and flow of the system. This process is called reverse osmosis. Nowadays, reverse osmosis is one of the best methods to improve the of water by means of a physical system (without the use of chemical products).

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



## 3. PRELIMINARY WARNINGS

**! CAUTION:** Carefully read the warnings described in the relevant section of the Technical Manual.

**! ATTENTION:** This equipment IS NOT POTABILISED. RES of water. In case the water to be treated comes from a public water supply (and therefore complies with the legislation in force), this equipment is designed to be used for the treatment of water from the public water supply. The water quality will be substantially improved.

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

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

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

### 3.1. USE OF EQUIPMENT

• When you are going to be away for more than a week, close the water inlet tap to the appliance, empty it and disconnect it from the power supply. When you return, turn on the power supply, open the inlet tap and the tap. Let the water drain for at least 5 minutes before using water.

**! ATTENTION:** After a prolonged period (more than one month) in which the equipment has been found not to be working or producing water, please contact with your dealer for proper sanitation and maintenance.

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

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

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

### 3.2. RECOMMENDATIONS FOR THE CORRECT USE OF OSMOSIS WATER

• If you wish to supply osmosis water to any other point of consumption (such as fridges, coffee machines, ice machines, water dispensers, other taps, etc.), the piping must be made only with plastic pipes that comply with the laws for human consumption. In case of using other materials, you could give bad tastes to the water and generate oxidations.

**! ATTENTION:** *The water supplied by domestic osmosis systems is LOW MINERALISED. The mineral salts needed by the human body are mainly provided by, especially by dairy products and, in some cases, by the water supplied by domestic osmosis systems. to a lesser extent for drinking water.*

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

### 3.3 CONDITIONS FOR THE CORRECT OPERATION OF THE EQUIPMENT

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

In case the water to be treated contains:

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

## 4. BASIC OPERATION

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The system's operating steps are described in the Technical Data Sheet section (p. 20).

## 5. USER INTERFACE

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**! WARNING:** *This equipment incorporates an electronic controller that will efficiently manage the functionality and status indications in which it is located, as well as the different safety systems. dad.*

The equipment data sheet describes the states in which the system can be found and the information provided by the system pages 20-21 of this manual).

## 6. MAINTENANCE

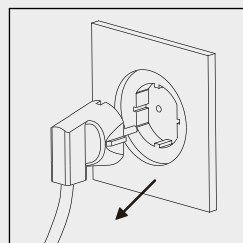
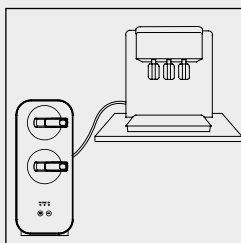
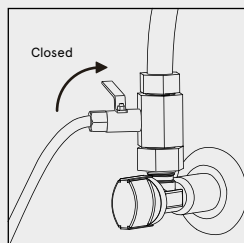
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In order to ensure the quality of the water supplied by your equipment, it must be regularly maintained.

Please refer to the relevant section of the Technical Manual for the recommended maintenance frequency (p. 8 of this manual).

## 7. PROBLEM IDENTIFICATION AND RESOLUTION

PROBLEM	POSSIBLE CAUSE	SOLUTION
1. Leakage to the outside of the equipment.	<ul style="list-style-type: none"> <li>• Breakage of any internal part of the equipment.</li> <li>• Poor connection of the installation.</li> <li>• Deterioration of a plastic tube.</li> <li>• Bad connection of filter or membrane.</li> <li>• The equipment has not been properly depressurised before changing the membrane or filter.</li> </ul>	<ul style="list-style-type: none"> <li>• Check all connections of the installation.</li> <li>• Let the machine depressurise properly, and the filter or membrane.</li> <li>• If the unit has to be disassembled, call the service department first.</li> </ul>
2. Zero production.	<ul style="list-style-type: none"> <li>• There is no water supply.</li> <li>• There is no electricity supply.</li> <li>• Leakage sensor activated.</li> <li>• Blocked membrane.</li> <li>• Transformer voltage less than 24 VDC.</li> <li>• Inlet filter saturated.</li> <li>• Low temperature of the water supply to the equipment.</li> </ul>	<ul style="list-style-type: none"> <li>• Wait for the supply to return.</li> <li>• Check the power supply to the house.</li> <li>• If the leak is not detected, dry the bottom of the unit together with the leak sensor. If repeated, call Service.</li> <li>• Check transformer voltage.</li> <li>• Check membrane and inlet filter.</li> <li>• If the temperature is below 3°C, the equipment will automatically lock.</li> </ul>
3. Low production.	<ul style="list-style-type: none"> <li>• Power tap partially closed.</li> <li>• Filters / membrane in bad condition or exhausted.</li> <li>• Reject valve blocked, flow rate less than 1 litre per minute.</li> <li>• Low temperature of the water supply to the equipment.</li> </ul>	<ul style="list-style-type: none"> <li>• Open it completely.</li> <li>• Replace filter or membrane.</li> <li>• Change reject valve.</li> <li>• Replace pump in case of blockage.</li> <li>• Unplug the equipment and plug it in again to flush and remove the bubbles contained in the pump.</li> </ul>
4. Excessive production.	<ul style="list-style-type: none"> <li>• Excessive chlorine the membrane.</li> <li>• Reject valve blocked, flow rate less than 1 litre per minute.</li> <li>• Excessively high feed water temperature &gt;38°C.</li> </ul>	<ul style="list-style-type: none"> <li>• Replace membrane.</li> <li>• Change of rejection valve.</li> <li>• The water temperature must be reduced below the limits.</li> <li>• Check the general installation of the enclosure, to eliminate heat sources.</li> </ul>
5. Unpleasant taste and smell.	<ul style="list-style-type: none"> <li>• Membrane in poor condition.</li> <li>• The team has been idle for a long .</li> <li>• No sanitisation has been carried out.</li> <li>• The sanitising agent has not been properly purged.</li> </ul>	<ul style="list-style-type: none"> <li>• Replace membrane.</li> <li>• Carry out disinfection.</li> <li>• Purge the appliance correctly.</li> </ul>
6. Water colour whitish.	<ul style="list-style-type: none"> <li>• Air in the system. Micro air bubbles that disappear after a few seconds.</li> </ul>	<ul style="list-style-type: none"> <li>• This is not a problem. The appearance will fade as the air inside the equipment is removed.</li> </ul>
7. Continuous dripping noise in drainage.	<ul style="list-style-type: none"> <li>• Depressurisation of the device after production.</li> <li>• Inlet valve dirty, or in bad condition.</li> <li>• Diaphragm check valve (production) dirty, blocked or in bad condition.</li> </ul>	<ul style="list-style-type: none"> <li>• Wait a few minutes, and check if the dripping stops.</li> <li>• Cleaning or replacement of inlet valve.</li> <li>• Check diaphragm check valve.</li> </ul>
8. The equipment does not start .	<ul style="list-style-type: none"> <li>• There is no water supply.</li> <li>• There is no electricity supply.</li> <li>• Inlet filter blocked.</li> <li>• Machine blocked by alarm.</li> <li>• Defective high pressure switch.</li> <li>• Leakage sensor activated.</li> </ul>	<ul style="list-style-type: none"> <li>• Check the condition of the general key and the equipment inlet.</li> <li>• Check the general power supply.</li> <li>• Change the inlet filter.</li> <li>• If there is a power supply, but the lights do not come on, contact technical support.</li> <li>• If the leak is not detected, dry the bottom of the equipment together with the leak sensor. If repeated, call for service.</li> <li>• Replace the high pressure switch.</li> </ul>
9. Equipment stops and starts constantly.	<ul style="list-style-type: none"> <li>• Leakage in production output.</li> <li>• Seals in electrical valves of external appliances, do not cut correctly and leak internally.</li> <li>• Production backflow preventer does not close properly.</li> </ul>	<ul style="list-style-type: none"> <li>• Check osmosis water system for leaks and repair.</li> <li>• Check the locking mechanisms of the devices connected to the equipment and ensure correct locking.</li> <li>• If dispenser taps are installed, check for dripping and repair.</li> <li>• Check backflow preventer.</li> </ul>
10. The unit never stops pumping water into the drain.	<ul style="list-style-type: none"> <li>• Deteriorated inlet solenoid valve.</li> <li>• Deteriorated anti-return of production.</li> </ul>	<ul style="list-style-type: none"> <li>• Check and replace.</li> </ul>



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

# TECHNICAL MANUAL

## 1. MAIN CHARACTERISTICS

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### APPLICATION

#### **Water treatment**

Reverse osmosis

#### **Use**

Improvement of drinking water characteristics (meeting the requirements of the European Drinking Water Directive 98/83 or its national transpositions in the different Member States of the Community).

#### **Modifications by reduction or contribution**

- Water treatment by reverse osmosis is able to reduce concentrations of salts and other substances by high percentages.
- Minimal reduction\* of certain compounds and parameters:

Sodium: 90%.

Calcium: 90%.

Sulphate: 90%.

Chloride: 90%.

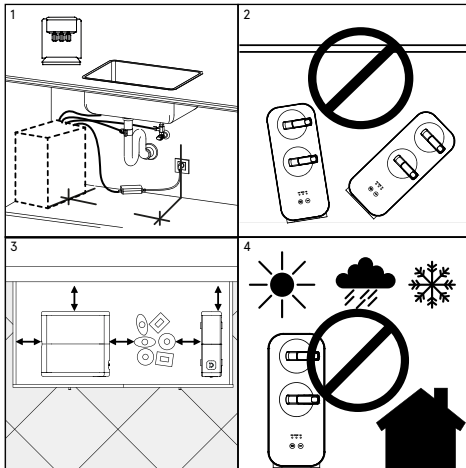
Total hardness: 90%.

Conductivity: 90%.

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

## 2. INSTALLATION OF THE EQUIPMENT

- If the system has to be upgraded in order to be able to install the equipment in the intended location, this must be done in accordance with the national standards for indoor water and electrical installations.
- This equipment requires an outlet within 1 metre (1).
- It is recommended not to install the equipment either lying down or tilted (2).
- The equipment filled with water is heavier, weight distribution in an unintended position could cause a connection element to be forced, which could lead to malfunctions, damage to equipment components or water leakage.
- The place of installation shall provide sufficient space for the apparatus itself, its accessories, connections and convenient maintenance (3).
- Under no circumstances shall the equipment be installed intemperially (4).
- The environment and surroundings in which the equipment and its subsequent connections are installed shall be in a suitable hygienic and sanitary condition.
- Do not bring flammable, explosive, volatile or strongly magnetic substances near the water purifier.
- The appliance must only be operated with the power supply unit supplied with the appliance.
- The device must only be supplied with a voltage between 100 and 240 VAC 50/60Hz.
- The adapter must be installed vertically on the wall or in the cabinet. Do not place the adapter flat on the bottom of the cabinet.
- Do not use damaged power supplies or plugs, or loose sockets.
- If the power cord is damaged, it must be replaced by a designated professional after-sales service technician in order to avoid hazards.
- Do not touch the power plug with wet hands.
- Do not use in conditions of high water pressure.
- Avoid external drips on the equipment from pipes, drains, etc.



**! CAUTION:** The equipment must not be installed next to a heat source or receive a direct flow of hot air over it.

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

### 2.1. COMMISSIONING AND MAINTENANCE

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

- Consumable parts shall be replaced at the frequency indicated by the manufacturer.
- The equipment must be sanitised periodically and prior to being put into service.
- During the first 30 minutes after start-up, filter and/or membrane change, the water quality may vary up to its optimum operating performance.

## 3. UNBALLOCKED

Before installation and commissioning, it is important to check the casing and condition of the equipment to ensure that it has not been damaged in transit.

**! ATTENTION:** Claims for damages during transport must be submitted together with the delivery note or invoice to your dealer within 24 hours after receipt of the goods.

Remove the equipment and accessories from their cardboard packaging by removing the protective covers.

**! CAUTION:** Properly dispose of and keep out of children's reach bags of plastic, as they can be a danger to them.

Inside you will find: Water treatment equipment, installation accessories and documentation. The materials used in the packaging are recyclable and must be disposed of in the appropriate selective collection containers or in the specific local centre for the recovery of waste materials.



This product cannot be disposed of with normal urban waste. When the equipment has reached the end of its useful life, it must be handed over to the company or centre where the appliance was purchased, or to a clean point or specific local centre for the recovery of materials, stating that it has the components of the product.

electrical and electronic equipment. The correct collection and treatment of waste equipment helps to conserve natural resources and also to avoid potential risks to public health.

## 4. INSTALLATION

- It is not recommended that users perform the installation themselves. Be sure to contact customer service to make an appointment for professional installation. Users shall bear the cost of accidents and related losses caused by self-installation of the user.

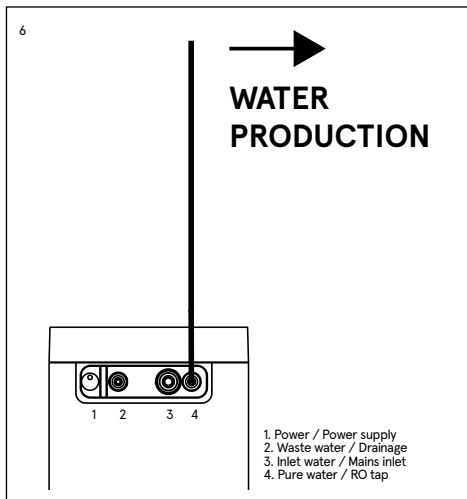
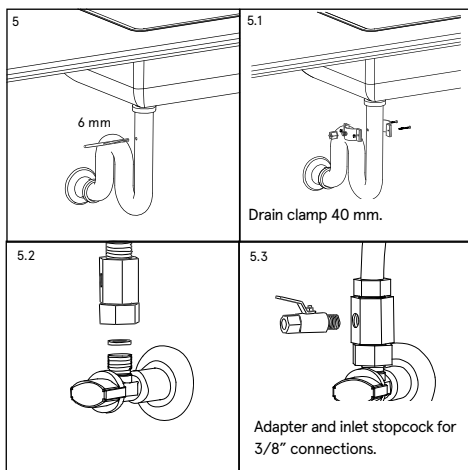
**! CAUTION:** As the device to be improves the quality of the water to be consumed, all tools used for assembly and installation must be clean and must not be contaminated or impregnated with grease, oil or oxides. Use tools exclusively for cutting pipes, handling the membrane, etc. Keep them clean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

**! CAUTION:** The work must be carried out with a proper hygienic attitude and conditions, and precautions must be taken in all aspects of the work. The use of materials and components that will into contact with the water to be treated or consumed.

(For more information, please contact your distributor).

**! CAUTION:** Avoid the risk of contamination of the equipment by improper , by using gloves, hand sanitising gel or washing hands as often as necessary during installation, commissioning and maintenance.

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



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

### 4.1. MIXING KIT

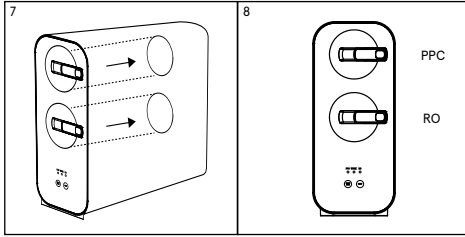
· If you wish to increase the pH, and/or the conductivity and/or the chlorine concentration at the outlet, the installation must be carried out according to the following scheme and using the corresponding components included in the mixing kit (consult your dealer).

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

· The water dispensed shall comply with the potability requirements of European Directive 98/83 or corresponding national legislation transposing it.

## 4.2. INSTALLATION OF THE FILTERS

- Install the PPC filter on the first stage of the equipment (upper position) and the RO membrane on the second stage of the equipment (lower position).
- To install the filters, present each filter in its respective housing with the handle in a horizontal position, as shown in figure 7.
- Insert firmly all the way in until you hear a “click”. After installation, check that the filters are securely inserted and fastened.



## 5. IMPLEMENTATION

### 5.1. FILTER RINSING

- Once the filters have been installed, one of the outlets connected to the production connection must be opened. Next, we will open the tap of the water inlet to the equipment and, finally, we will connect the power to the plug. The equipment will start to carry out an internal filter and membrane wash, with the purpose of eliminating air bubbles, membrane protection products and cleaning the filters of possible residues. During this time, the production flow will be reduced by the backwashing flow. In the that the rejection flow to the drain takes a few minutes, it is advisable to repeat the steps, as the pump may have an air bubble, causing it to cavitate, without being able to provide water flow to the rest of the components.
- It should be noted that the time scheduled for this washing is 30 seconds.

### 5.2. EQUIPMENT SANITISATION

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

### 5.3. SYSTEM TIGHTNESS, SHUTDOWN AND START-UP

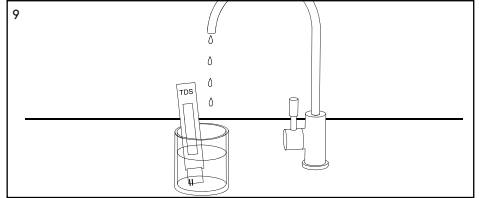
Once the unit has been filled, vented and flushed, make sure that the devices and accessories connected to the unit's output are closed. Check and make sure that the unit and its external connections are leak-free and correctly connected, and that the unit must not be started up automatically under any circumstances during this inspection period.

Open any point of use connected to the equipment, at which point the equipment should start up. Close the point of use again, and the equipment should stop. If there is a pressurised tank (expansion vessel) or any ele-

ment where there is an accumulation of water in the production connection of the equipment, the equipment will keep running until it is full.

### 5.4. RINSING AND CLEANING

- Open the tap of the equipment and measure the quality of the water being produced. With a conductivity or TDS meter, check that the salt reduction obtained is adequate with respect to the water to be treated (9).



**! ATTENTION:** if the water supplied does not comply with the national legislation in force, repeat the measurement. If the deviation persists, close the inlet tap of the device, flush it through the tap, disconnect it electrically, and please contact your technical service.

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

## 6. MAINTENANCE

**!** **CAUTION:** *Some components of your equipment, such as the pre-filters and the membrane, are consumables with a limited lifetime.*

### RECOMMENDED MAINTENANCE

PPC pre-filter: 12 months\*.

RO osmosis membrane: 60 months\* for soft water (hardness <15 °dH).

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

Maintenance must be carried out by qualified personnel, who must handle the equipment properly and use original spare parts in order to maintain the characteristics, guarantee, certifications and performance of the equipment and thus preserve the quality of the water dispensed.

**WARNING:** *The use of non-original spare parts, installation outside the operating and limits, improper maintenance or use may lead to the loss of the warranty, as well as the invalidation of the certifications to which the equipment has been subjected.*

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

Your distributor will provide the duration of the consumables according to the characteristics of the water to be treated and the expected consumption in each case.

**!** **CAUTION:** *All consumables are supplied in individual packaging specially designed to ensure hygienic and transport conditions. Take hygienic precautions after removing the consumables from their packaging and during the handling of the different connectors and components.*

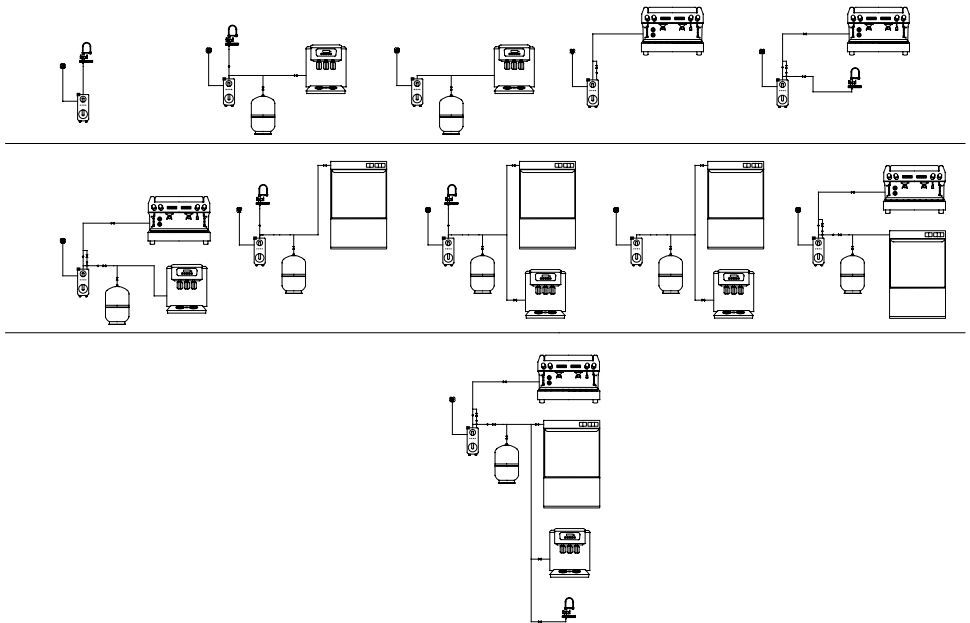
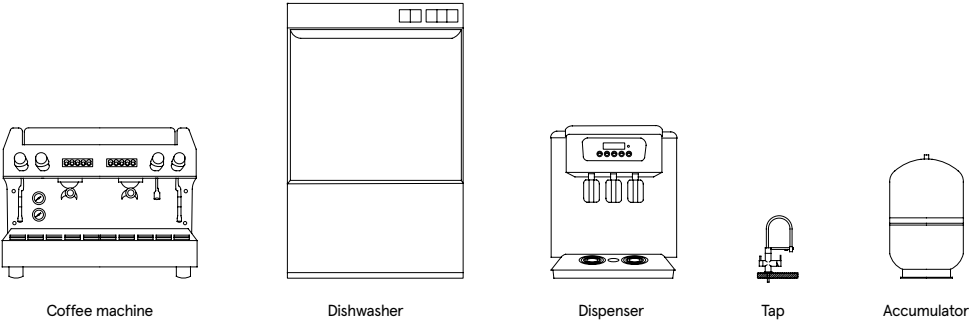
**!** **CAUTION:** *Before disassembling the equipment, make sure you have all material you will need to carry out the disassembly maintenance operations and the space required for them. Work in a well-lit, hygienically clean place with sufficient space to carry out operations comfortably.*

- Change the filters properly. Check the tightness of the connections and the original hydraulic configuration of the system as recommended by the manufacturer.

- Sanitise the equipment according to the instructions in the Sanitising Procedure.

- For further information, please refer to the technical data sheet of the equipment. If you have any further questions, please consult your dealer.

INSTALLATION SUGGESTIONS:



# SANITISATION PROCEDURE

## 1. HYGIENISATION

Material required:

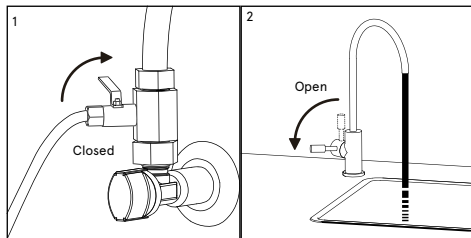
- Manual valve.
- Dosing cup and connectors.
- Oxibac (0.5 l).
- Brush.
- Single-use vinyl gloves.
- Easy-rinse soap or detergent.
- Food grade lubricant.
- Hydrogen peroxide detector strips.
- Sanitising spray.
- Paper napkin.

Sanitisation:

- At .
- At least every 12 months depending on use.
- Each time water-contacting parts of the equipment are accessed or no water has been consumed for more than one month.

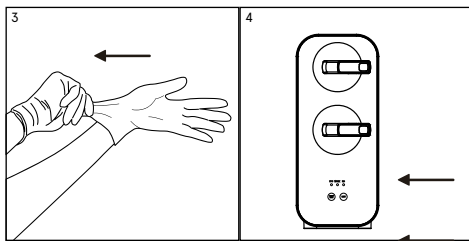
**! ATTENTION:** The water used during hygienisation must be potable water (from the public distribution network, complying with the corresponding potability requirements of the RD 140 / 2003, directive European 98 / 83 or local legislation in force).

- Open the dispenser tap and let the water recirculate in order to renew the water inside the equipment.
- Close the inlet valve (1) and open the dispensing tap (2) to reduce the pressure in the equipment.



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

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



- Disinfect the cartridge connections with a brush (which must be kept clean and disinfected) and a suitable disinfectant. If any of the cartridges are to be replaced for disposal, clean and dry the inside of the housing.
- In order to sanitise the equipment, the filters must be inside their housings (4).

## 2. PRE-FILTER, MEMBRANE AND POSTFILTER TREATMENT

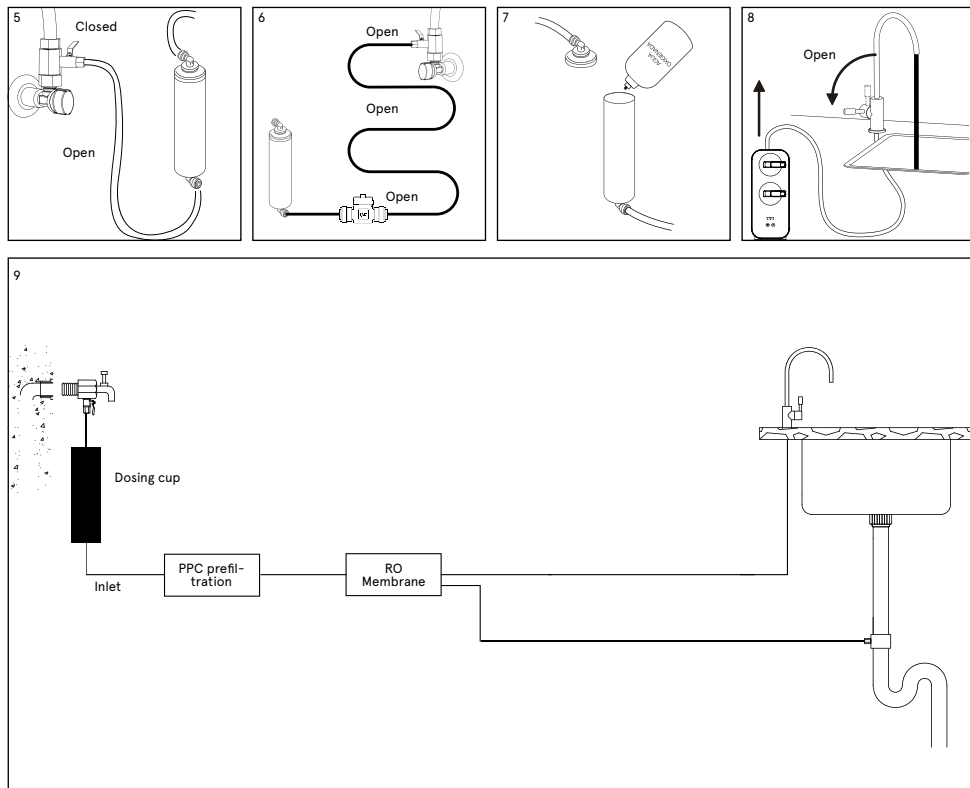
- Disconnect the inlet pipe to the unit marked "Inlet water", and insert the dosing cup between the stopcock and the water inlet of the unit (5). For greater convenience and ease of access during sanitising and the opening and closing operations of the inlet valve, a manual valve in the closed position can be inserted together with the sanitising dosing cup, which will perform the same functions as the manual shut-off valve at the inlet to the equipment.

- Once the assembly is installed, keep the new manual inlet valve closed and open the inlet valve connected to the wall adapter (6). The dosing cup must be empty.
- Pour 0.25 litres of Oxibac into the dosing cup located at the inlet of the equipment (7). Screw the cup correctly to its head.
- The manual inlet valve and the tap must be closed. Connect the equipment to the power supply.

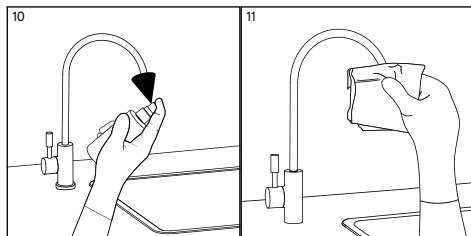
- Open the water inlet tap to the equipment and the dispenser tap, connect the appliance to the mains socket and allow it to start working, letting it suck the Hydrogen Peroxide into the appliance. Fill a 1L jug with the water from the dispenser tap. Before closing the dispenser tap, close the inlet tap again to lower the pressure. Fill the dispenser with 0.25L of hydrogen peroxide and repeat the above steps and finish by closing the dispensing tap. At this point, the entire circuit contains sanitising liquid.

· After 10 mins. open the tap (8) and let the mains water circulate for 5 mins.

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



- Pay special attention to the sanitisation of existing consumption points (dispensers, taps, etc.). Use the sanitising spray (or, failing that, hydrogen peroxide, dosing it in such a way that it penetrates the tap spout) and singleuse blotting paper. Spray the spray on the tap nozzle (10), rub the spout and the tap nozzle with the disposable paper and do not touch it directly with your hands (11).



### 3. RINSE

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- Once sanitisation has been carried out, the following must be done:

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

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

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

- When you have finished, take a dry paper towel and dry all parts that may have become wet, the Aquastop leak detection probe (if fitted).



# TECHNICAL DATA

## 1. TECHNICAL CHARACTERISTICS

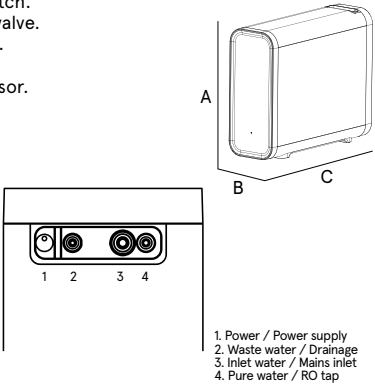
### OPERATING LIMITS

	EQUIPMENT WITH PUMP*
Pressure (max./min.):	4 bar – 1bar (0.4 MPa – 0.1 MPa). 1500ppm.**
TDS (max.):	(1,500ppm.**)
Temperature (max./min.):	38 °C – 5.
Hardness (max.):	15 °HF. ***

Type of control:	Maximum pressure switch. Inlet control solenoid valve. Flushing solenoid valve.
Security system:	Electronic leakage sensor. Maintenance warning.

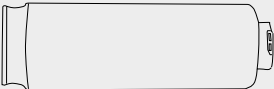
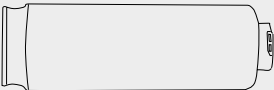
Dimensions (W x B x C in mm):	385 x 160 x 465.
Weight (in kg, including all accessories):	12,45.

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

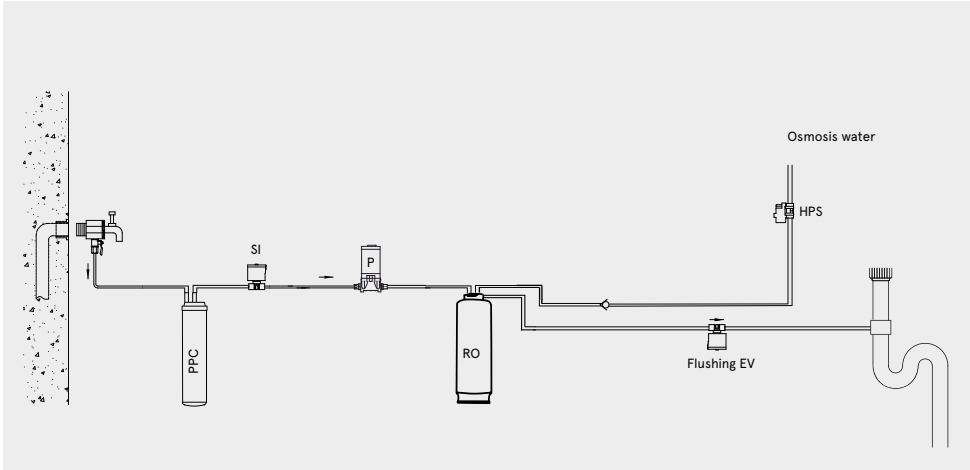


- 1. Power / Power supply
- 2. Waste water / Drainage
- 3. Inlet water / Mains inlet
- 4. Pure water / RO tap

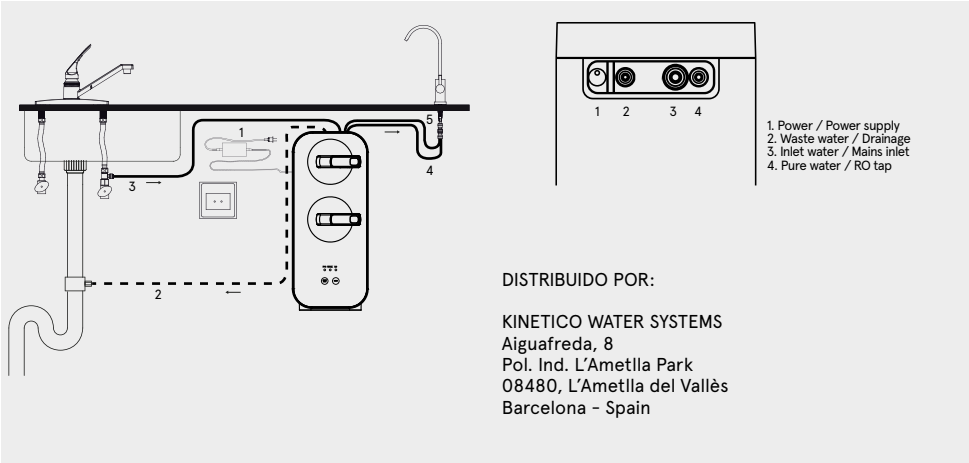
\* Flow rates may vary by 20% depending on the temperature, pressure and specific composition of the water to be treated.  
\*\* For salinities 1500ppm consult your distributor.  
\*\*\* Higher hardnesses may reduce the life and performance of certain components.  
\*\*\*\*\* May vary depending on the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

PPC Pre-filter	1 x combined sediment/charcoal.		← IN → OUT
RO Membrane	1 x 800 GPD membrane.		← IN → OUT/PURE → WASTE
	Osmosis water flow rate: 2 lpm.		
Power supply: Power adaptor:	24 VDC 120W.		
Production:	100-240 Vac 50 / 60 Hz: 24 Vdc.		
Membrane cleaning system:	2 lpm. water conditions: 450 µS, 15 °HF, 17 °C and 3 bar) Automatic rinses (see par. 3.2)		

HYDRAULIC DIAGRAM



HYDRAULIC WIRING DIAGRAM

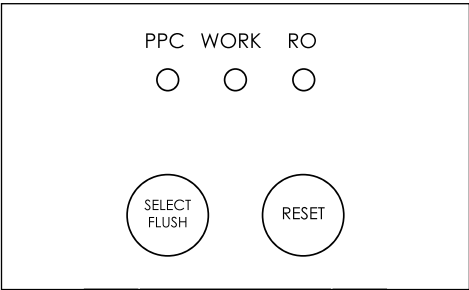


2. OPERATION OF THE EQUIPMENT

- The mains water to be treated enters the unit through the re-filtration stage, which incorporates a PP and carbon BLOCK (PPC) filter. In this filtration stage, particles, chlorine, its derivatives and other organic substances are retained.
- The water flow into the unit is controlled by a shut-off solenoid valve (Si).
- The water, after being treated in the filtration stage, is pumped to the reverse osmosis (RO) membrane. The equipment incorporates a pump (P) to increase the pressure. The pressure of the water on the membrane makes the reverse osmosis process possible.
- The reject water or water with excess salts and other dissolved substances is directed to the drain for disposal.
- Direct flow units control start and stop by means of a pressure switch (HPS).
- The equipment incorporates different functional and/or safety systems, managed by a state-of-the-art electronic module:
- Electronic leak detection system (L). When the system detects this situation, it blocks the equipment, emitting an acoustic and light signal to inform about it. The equipment will remain blocked until the detection probe is dry.
- Automatic filter change warning, in order to inform the user that proper maintenance must be carried out to ensure the quality of the water dispensed.

3. INTERFACE. STATE IN WHICH THE SYSTEM IS IN

Display:



3.2. FUNCTIONALITIES

FUNCTION	ACTIONS	STATUS OF EQUIPMENT LIGHTS
1. Washing at start-up electrical apparatus.	Whenever the system is started up will wash the RO membrane for 30 seconds.	When washing is in progress, the flushing LED operation flashes WHITE.
2. Washing when accumulating operating time.	Each time the accumulated working time reaches 30 minutes, the system will flush the RO membrane for 15 seconds.	When washing is in progress, the Washing Light operation flashes WHITE.
3. Manual washing.	Press and hold the "Select/Flush" button for 3 seconds, the system will flush the RO membrane for 30 seconds.	When washing is in progress, the flushing LED operation flashes WHITE.
4. Equipment in functioning.	The system is put into operation in normal mode.	The operating light flashes in WHITE.
5. Equipment in Stand-by.	Each time the system stops producing water, will perform a 1-second wash.	The lights of the equipment remain WHITE fixed.

3.3. FAULT IDENTIFICATION AND RESOLUTION

FUNCTION	ACTIONS	STATUS OF EQUIPMENT LIGHTS
1. Filter end-of-life warning.	The corresponding filter is coming to the end of its life.	Led WORK flashes RED.
2. Water leakage.	The machine has detected a water leak. Check and repair the leak. Automatic reset when the leak sensor dry. If leak is not detected, call service.	Led WORK RED steady. Beeps for 1 minute.

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

*See the corresponding section in the technical manual.*

## 4. GUARANTEE

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

- The warranty includes the repair and replacement of defective parts by personnel authorised by the distributor or by the official technical assistance service (S.A.T.) at the place of installation or in their workshops. The warranty includes labour and shipping costs that may be incurred.
- The distributor is exonerated from providing warranty in cases of parts subject to natural wear and tear, lack of maintenance, knocks or other nonconformities that are a consequence of improper or inadequate use of the equipment according to the conditions and limits indicated by the manufacturer of the equipment. Likewise, the guarantee loses effectiveness in the event of improper handling and use of the equipment or in those cases in which it has been modified or repaired by personnel outside the distribution company or official S.A.T.
- Parts replaced under warranty shall remain the property of the dealer.
- The distributor is liable for the lack of conformity of the equipment when this refers to the origin, identity or suitability of the products, in accordance with their nature and purpose. Taking into account the characteristics of the equipment, it is essential for the guarantee to cover the lack of conformity, the fulfilment of the technical conditions of installation and operation. Failure to comply with these conditions may result in the absence of warranty, taking into account the relevance of the purpose of the equipment and the operating conditions and limits under which it must operate.
- The distributor must guarantee that the equipment installed is suitable for improving the quality of the water to be treated in particular, according to the of the equipment and the regulations in force.
- The distributor must guarantee the correct installation and commissioning of the equipment according to the manufacturer's instructions and current regulations and will also be responsible for any lack of conformity resulting from incorrect application, installation or commissioning of the equipment.
- For any warranty claim, the purchase invoice must be presented. The three-year period is calculated from the purchase of the equipment from the distributor.
- If during warranty period your equipment develops a problem, please contact your dealer.

**The equipment is installed and in operation to the satisfaction of the customer and for the record:**

- \* Pre-treatment of equipment:
- \* Equipment input hardness (°F):
- \* TDS input to the equipment (ppm):
- \* TDS produced water (ppm):
- \* Inlet pressure to the equipment (bar):

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

Right:

Others:

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

**\*Ref. Maintenance contract:**

AGREES to the maintenance contract ☐

DO NOT ACCEPT the maintenance ☐

*If you need information, report a fault or , request maintenance or have a technician intervene, please read the operation, troubleshooting sections of this manual beforehand and contact the distributor or company that sold you your equipment.*

**COMPANY AND/OR APPROVED INSTALLER, DATE AND SIGNATURE:      SERIAL NUMBER:**

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



## 5. INSTALLATION LOG SHEET



**NOTES TO THE TECHNICIAN/INSTALLER:** read this manual carefully. If in doubt, please contact the Technical Assistance Service T.A.S.) of your distributor. The data marked with the symbol \* must be filled in by the technician/installer and transcribed by him on the WARRANTY sheet. This sheet must be kept by the installer and may be requested by the distributor in order to improve the after-sales and customer service, to the customer. The technician performing the installation and commissioning of the equipment shall have the appropriate technical training.

### DATA ON THE APPLICATION OF THE EQUIPMENT:

Origin of the water to be treated:

☐ PUBLIC SUPPLY NETWORK OTHER

☐ OTHER

\* Pre-treatment of equipment:

\* Equipment input hardness (°F):

\* TDS input to the equipment (ppm):

\* TDS produced water (ppm):

\* Inlet pressure to the equipment (bar):

\* Inlet chlorine concentration (ppm):

### CONTROL OF THE INSTALLATION STEPS:

Sanitisation according to described protocol  
Maximum pressure switch setting  
Overhaul and fittings  
Tightness of the pressurised system

TDS produced water ( water) ppm  
Clearly inform about the use, handling and maintenance that the equipment requires to ensure  
The system is designed to ensure the correct functioning of the system and the quality of the water produced.

### COMMENTS

\* Result of installation and start-up:

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

☐ OTHER:

### IDENTIFICATION OF THE AUTHORISED TECHNICIAN/INSTALLER:

COMPANY AND/OR APPROVED INSTALLER, DATE AND  
SIGNATURE:

### CONFORMITY OF THE OWNER OF THE EQUIPMENT:

I have been clearly informed of the use, manipulation and maintenance of the I have been offered a maintenance contract and informed of how to contact a Customer Service Centre in case of requesting information, reporting a fault or malfunction, requesting maintenance or having a technician intervene.

Comments:

\*Ref. Maintenance contract:

AGREES to the maintenance contract

DO NOT ACCEPT the maintenance contract

Model/Ref.:

Owner:

Street:

Telephone:

Population:

Province:

C.P.:

SERIAL NUMBER:

### EQUIPMENT WARRANTY ADDRESSED TO THE DISTRIBUTOR:

The distributor shall only be responsible for the replacement of parts in the event of non-conformity. The repair of the equipment and the costs involved (, shipping costs, travel , etc.) shall be borne by the distributor, in accordance with the terms and conditions of the general and conditions of contract and sale, and may not be subsequently passed on to the manufacturer.

6. MAINTENANCE SERVICE

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