

**C2000**  
RO COMERCIAL 2000

**USER MANUAL**

**REVERSE OSMOSIS  
EQUIPMENTS**



# C2000

RO COMERCIAL 2000

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# USER MANUAL

## FOR REVERSE OSMOSIS EQUIPMENTS

### 0. MAIN SPECIFICATIONS

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**CLICK**  
QUICK CONNECTIONS  
MAXIMUM SECURITY



**LOW VOLTAGE**  
24VDC



**SOLENOID VALVE**  
IMMEDIATE CONTROL  
SAFETY MESH



**DIRECT ACCESS**  
EASY ACCESS  
AND MAINTENANCE



**DIRECT FLOW**  
RO WATER  
DIRECT PRODUCTION



**HIGH EFFICIENCY**  
GREAT PRODUCTION  
RANGE



**HIGH PERFORMANCE**  
BETTER  
PERFORMANCE



**AUTO FLUSHING**  
MEMBRANE FLUSHING  
WITH RO WATER



**MANOMETER**  
INCLUDED



**REINFORCED CABINET**  
SPECIAL STAINLESS STEEL  
CABINET FOR POLLUTED PLACES  
OR OUTDOORS



**LÓGICO AQUA**  
EXCLUSIVE 17"  
PREMIUM FILTERS



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

## 1. INTRODUCTION

Congratulations. You have acquired an excellent household water treatment equipment.

This equipment will help you improve the characteristics of water.

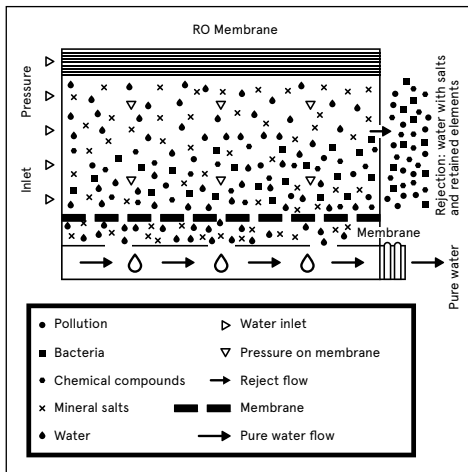
## 2. WHAT IS OSMOSIS?

Natural or direct osmosis is the most common in nature, since semi-permeable membrane is part of the vast majority of organisms (for example plant roots, organs of our body, cell membranes, etc...).

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

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

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



## 3. PRIOR WARNINGS

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

**! ATTENTION:** these equipments ARE NOT POTABILIZING water. If the water to be treated comes from a public supply (and therefore complies with current legislation), this equipment with substantially improve the quality of the water.

Water treatment equipments requires periodic maintenance carried out by qualified technicians in order to guarantee the quality of the water produced and supplied.

### 3.1. USE OF THE EQUIPMENT

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

**! ATTENTION:** After a prolonged period (more than a month) in which the equipment has been without working or producing water, contact your distributor in order to carry out adequate sanitation and maintenance.

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

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

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

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

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

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

## 4. BASIC OPERATION

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

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

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

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

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

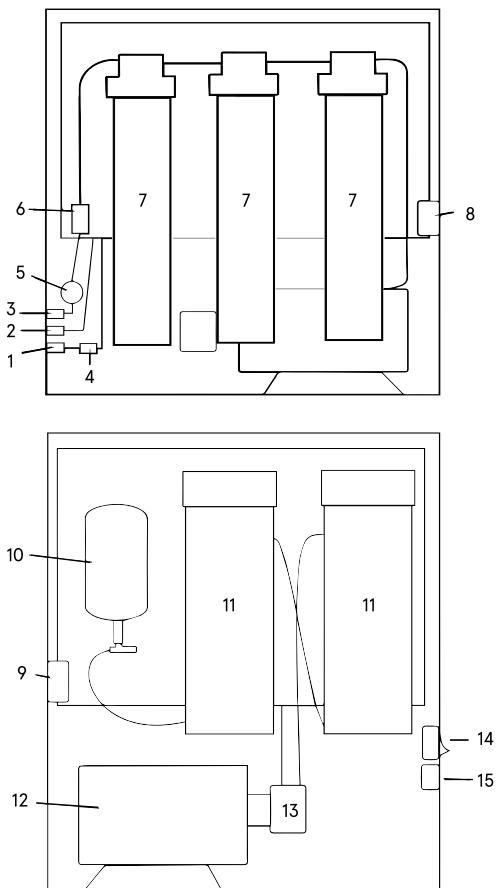
This equipment incorporates a minimum pressure switch as a safety system, which protects the pump from pressure drops, stopping the equipment and preventing its operation in vacuum.

## 5. MAINTENANCE

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

Read the corresponding section of the Technical Manual to see the recommended maintenance frequency.

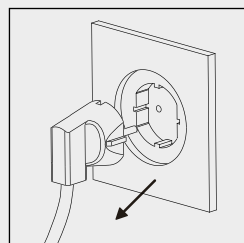
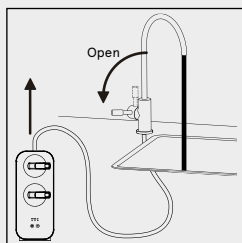
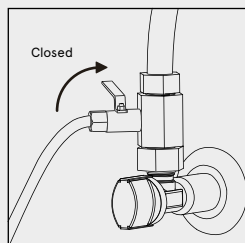
## 5. MAIN COMPONENTS IDENTIFICATION



1. Osmotized water outlet connector
2. Rejection outlet connector
3. Inlet water connector
4. High pressure switch
5. Low pressure switch
6. Inlet solenoid valve
7. Premium 17" Logico Aqua Pre-filter
8. Water pressure gauge
9. Pump pressure gauge
10. Membrane flushing tank
11. RO 1000 G membrane
12. Motor 240 Vac
13. Pump 600 l/h
14. Stop/Start switch
15. Power supply connector

## 7. IDENTIFICATION AND RESOLUTION OF PROBLEMS

PROBLEM	POSSIBLE CAUSE	SOLUTION
<b>1. Leak outside the equipment.</b>	Many possible causes.	Call technical service.
<b>2. Zero production.</b>	<ol style="list-style-type: none"> <li>1. There is no water supply.</li> <li>2. There is no power supply.</li> <li>3. Leak sensor activated.</li> </ol>	<ol style="list-style-type: none"> <li>1. Wait for the supply to return.</li> <li>2. Check the electrical supply to the house. If the problem is not solved, call the technical service.</li> <li>3. Leak sensor activated. If the leak is not detected, dry the bottom of the equipment together with the leak sensor. If it happens again, call the technical service.</li> </ol>
<b>3. Low production.</b>	<ol style="list-style-type: none"> <li>1. Fuel tap partially closed.</li> <li>2. Filters / membrane in poor condition or exhausted.</li> </ol>	<ol style="list-style-type: none"> <li>1. Open it completely.</li> <li>2. Call technical service.</li> </ol>
<b>4. Excessive production.</b>	Several possible causes.	Call technical service.
<b>5. Unpleasant taste and smell.</b>	Several possible causes.	Call technical service.
<b>6. White water color.</b>	Air in the system. Microbubbles of air that disappear after a few seconds.	This is not a problem. The appearance will disappear as the air is eliminated inside the equipment.
<b>7. Continuous dripping noise in drain.</b>	Several possible causes.	Call technical service.
<b>8. The equipment does not start.</b>	<ol style="list-style-type: none"> <li>1. There is no water supply.</li> <li>2. There is no power supply.</li> <li>3. Leak sensor activated.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check the condition of the general key and the equipment input.</li> <li>2. Check the general power supply. If the problem is not solved, call the technical service.</li> <li>3. If the leak is not detected, wipe the bottom of the equipment together with the leak sensor. If it repeats, call for service.</li> </ol>
<b>9. The equipment starts and stops constantly.</b>	Several possible causes.	Call technical service.
<b>10. The equipment never stops rejecting water down the drain.</b>	<ol style="list-style-type: none"> <li>1. Inlet solenoid valve damaged.</li> <li>2. Deteriorated production anti-return.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check and replace.</li> <li>2. Check and replace.</li> </ol>



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

# TECHNICAL MANUAL

## REVERSE OSMOSIS SYSTEMS

### 1. PRIOR WARNINGS

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**!** **ATTENTION:** *the equipment IS NOT POTABILIZING water. In the event that the water to be treated comes from a public supply (and therefore complies with current legislation), this equipment will substantially improve the quality of the water.*

**!** **ATTENTION:** *If the water to be treated does not come from a public supply network or is of unknown origin, it will be necessary to carry out a physical-chemical and bacteriological analysis of the water to ensure its correct purification by applying the techniques and adequate equipment for each need, PRIOR TO THE INSTALLATION of the equipment. Contact your dealer with object to advise you on the most appropriate treatment for your case.*

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

#### 2.1. CONDITIONS FOR THE CORRECT OPERATION OF THE EQUIPMENT

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

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

· For waters with salinities higher than 2000 ppm, contact your distributor.

· It is recommended that the water to be treated be de-calcified or with a maximum hardness of 15°HF in order to obtain optimum performance from the equipment.

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

· If the make-up water contains a concentration higher than 1.2 ppm of total chlorine, the installation of an activated carbon dechlorinator filter is recommended to reduce the chlorine concentration in the water and thus protect and extend the life of the equipment components.

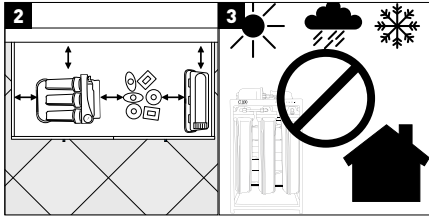
In case the water to be treated contains:

· High concentrations of iron and manganese (Greater than 1ppm measured in the rejection of the machine).

· Prolonged hyperchlorination in time. Sludge or turbidity greater than 3 NTUs.

· A nitrate concentration greater than 100 ppm. A sulfate concentration greater than 250 ppm.





### 3. INSTALLATION

· In the event that the home installation has to be conditioned in order to install the equipment in the planned place, it must be carried out in accordance with the national regulations for indoor installations of water and electrical supplies.

· These equipments need an electrical outlet less than 1 meter away.

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

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

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

· The appliance is only to be used with the power supply unit provided with the appliance.

· This appliance must only be supplied at safety extra low voltage.

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

**! ATTENTION: The equipment must not be installed next to a heat source or directly receiving a flow of hot air over it (dryer, refrigerator, etc.). The new hose-sets supplied with the appliance are to be used and that old hose-sets should not be reused.**

#### 2.1. START-UP AND MAINTENANCE

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

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

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

· The equipment must be sanitized periodically and

prior to commissioning.

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

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

### 3. UNPACKING

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

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

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

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

Inside you will find: Water treatment equipment, installation accessories and documentation.

The materials used in the packaging are recyclable and must be disposed of in the appropriate separate collection containers or in the specific local center for the recovery of waste materials.



This product cannot be disposed of together with normal municipal waste. When the useful life of the equipment has ended, it must be delivered to the company or center where the device was purchased, or to a Clean Point or specific local center for the recovery of materials, indicating that it has electrical and electronic components.

The correct collection and treatment of useless appliances contributes to preserving natural resources and also to avoiding potential risks to public health.

## 4. INSTALACIÓN

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

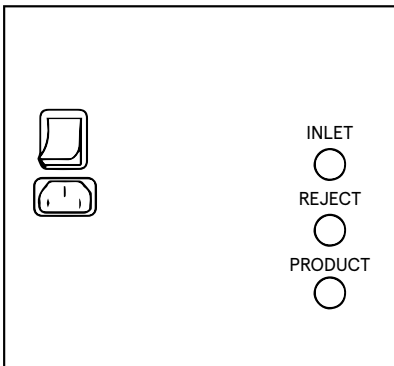
**!** **ATTENTION:** *Since the appliance to be installed improves the quality of the water to be consumed, all the tools to be used for assembly and installation must be clean and in no case may they be contaminated or impregnated. of fats, oils or oxides. Use dedicated tools for tube cutting, membrane handling, etc. Keep them clean and disinfect them periodically.*

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

(For more information contact your dealer).

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

Connect the inlet, reject and product pipes to the connections indicated on the back of the equipment.



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

## 5. START-UP

### 5.1. FILTER RINSING

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

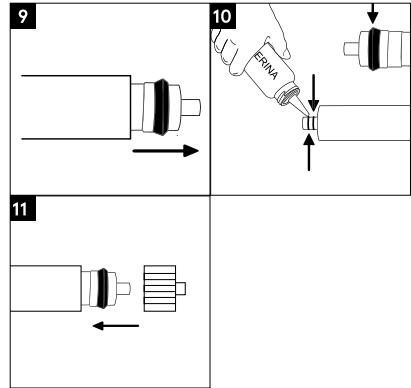
To do this, disconnect the tube before the filters outlet. Power the equipment hydraulically and electrically and run this tube into an external container or sink until the water runs clear.

**!** **ATTENTION:** *Do not wash the carbon pre-filter through the faucet, because the carbon dust that is to be removed will penetrate the different components of the equipment, and may even cause the malfunction of any of them and/or the reduction of the useful life of certain components.*

### 5.2. MEMBRANE ASSEMBLY

**!** **ATTENTION:** *Extreme hygienic measures, in what that the manipulation of the membrane refers.*

Insert the membrane into the membrane holder paying attention to the proper orientation of the same in its container and using lubricant for food use on its joints to prevent them from pinch during installation (9,10 and 11).

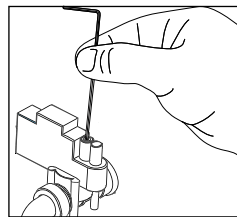


### 5.3. SANITIZATION OF THE SYSTEM

· Carry out a sanitization of the equipment, depending on the model and procedure indicated by the manufacturer (see Hygienization procedure). If in doubt, consult your dealer.

### 5.4. SYSTEM TIGHTNESS, STOP AND START

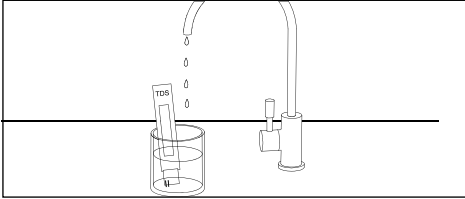
· Close the tap of the equipment on the hob and keep the water powered hydraulically or electrically the equipment conducting an eye check of the system to ensure that there is no leak (for approx.).



· In case the pump the equipment does not stop, adjust the tare of the maximum pressure switch with an Allen key size 2, until the pump (13) is stopped. Open the dispensing tap. The equipment should wake up and supply water. Close the tap again and check that the equipment stops.

## 5.5. RINSE AND CLEAN

Abra la salida del equipo de osmosis del equipo y mida la calidad del agua que se está produciendo. Con un medidor de conductividad o TDS, compruebe que la reducción de sales obtenida es adecuada con respecto al agua a tratar (13).



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

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

## 6. MAINTENANCE

**! ATTENTION:** *Some components of your equipment, such as the pre-filters and the membrane, are consumables that have a limited life.*

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

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

### MANTENIMIENTO RECOMENDADO

CF Prefilter: 12 months at least. \*  
RO membrane: Every 2 approximately (for soft waters to be treated. (hardness <15 °HF)).  
Sanitization: At start-up. At least every 12 months based on usage. Every time components in contact with water are accessed from the equipment or water has not been consumed for more than a month.

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

Maintenance must be carried out by trained personnel, who must handle the equipment properly, as well as use original spare parts to maintain the characteristics, guarantee, 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 lead to the loss of the guarantee, as well as the invalidation of the certifications to which submitted from the team.*

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

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

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

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

· Carry out the filter change properly. Ensure the tightness of the joints and the original hydraulic configuration of the system as recommended by the manufacturer.

· Sanitize the equipment following the indications described in the Sanitation Procedure.

· For more information, see the data sheet of the team. If you have any other questions, consult your dealer.

**! ATTENTION:** *Use gloves or appropriate personal protection measures if you use chemicals during sanitization.*

**! ATTENTION:** *If you detect that the water dispensed does not comply with current national legislation, close the input valve of the equipment, empty it through the tap, disconnect it electrically (depending on the model) and contact your technical service.*

# SANITIZING PROCEDURE

## 1. SANITIZING

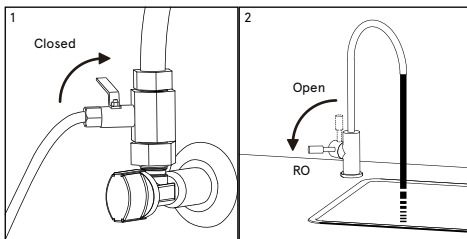
Necessary material:

- Dosing cup and connectors.
- OXIBAC sanitizer.
- Brush.
- Single-use vinyl gloves.
- Easy rinse soap or detergent.
- Food grade lubricant.
- Hydrogen peroxide detector strips.
- Sanitizing spray.
- Paper napkin.

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

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

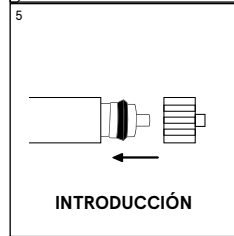
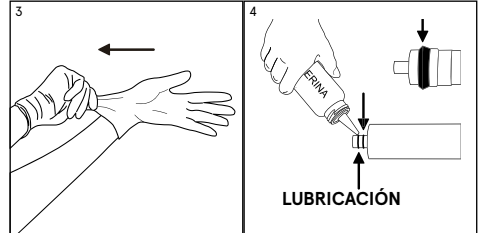
- Open the tap and let water recirculate in order to renew the water inside the equipment.
- Close the inlet valve (1) and open the dispenser tap (2) to decrease the pressure in the equipment.



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

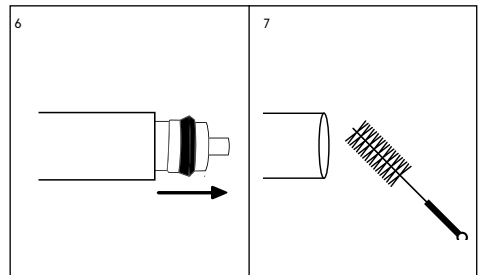
- Use single (3) use vinyl gloves to handle sanitizing products.

**! ATENCIÓN: Extremar las medidas higiénicas durante la manipulación de los filtros, la membrana y los componentes del equipo en contacto con el agua. Utilice guantes desechables o lávese las manos tantas veces como sea necesario para evitar riesgos de contaminación del equipo.**



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

- When you replace any of the cartridges, dry the interior if it is wet and clean it with single-use blotting paper impregnated with hydrogen peroxide.



## 2. PRE-FILTER AND MEMBRANE TREATMENT

- Disconnect the inlet hose to the equipment marked "feed-in", and insert the measuring cup between the stopcock and the equipment's water inlet (6).

- Pour 0.25 liters of Oxibac into the dosing cup inserted at the inlet of the equipment (8). Screw the glass correctly to its head.

- The manual inlet valve and the tap must be closed.

Connect the equipment to the electrical supply.

- Open the water inlet stopcock to the equipment and to the tap, allowing it to start working and allowing the sanitizing product to suck into it. Fill a 1L jug with tap water. Before closing the tap, close the inlet valve again to lower the pressure. Refill the dispenser with 0.25l of hydrogen peroxide and empty 1 more liter of water. Close the tap. At this time the entire circuit contains sanitizing liquid.

- After 10 mins. open the dispenser tap (8) and let the tap water circulate for 5 minutes.

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

- Perform this operation twice.

- Pay special attention to the ends of the tubes you handle. Use Oxibac spray and blotting paper. Spray it on the end of the tube, rub and the tube with disposable paper and do not touch it directly with your hands.

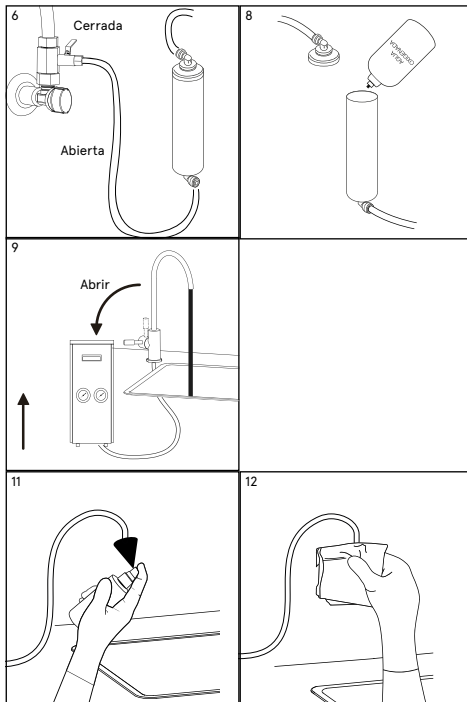
### 3. RINSE

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

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

- Slowly open the mains water inlet valve to the equipment. Fill the pre-filter slowly in order to evacuate the contained air and avoid internal turbulence that would alter the different filtration stages. When the water flows through the outlet opening, gradually increase the flow. Extract a minimum of 4L and make sure that this water no longer contains fines from the carbon.

- Maintain, throughout the process, the filter in the same position it will occupy once installed in the equipment.



# FICHA TÉCNICA

## PARA EQUIPOS DE ÓSMOSIS INVERSA

### 1. TECHNICAL SPECIFICATIONS

#### APPLICATION

##### Water treatment

Reverse osmosis

##### Use

Improvement of the drinking water specifications (that complies with the requirements of the European Directive on water for human consumption 98/93 or its national transpositions in the different member states of the European Community).

##### Modifications for reduction or contribution

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

· Minimal reduction\* of certain compounds and parameters:

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

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

#### WORKING LIMITS

##### EQUIPO CON BOMBA

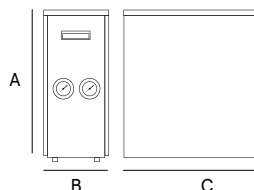
Pressure (max./min.):	6 bar (600 kPa) – 3 bar (300 Kpa)
TDS (max.):	2000 ppm
Temperature (max./min.):	40°C – 2°C
Hardness (max.):	15 °HF.

Control type: Maximum pressure switch.  
Inlet control bypass solenoid valve.

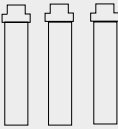
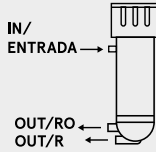
Security system: Minimum pressure switch.

Dimensions (A x B x C in mm):  
Weight (in kg, including all accessories): 685 x 280 x 525.

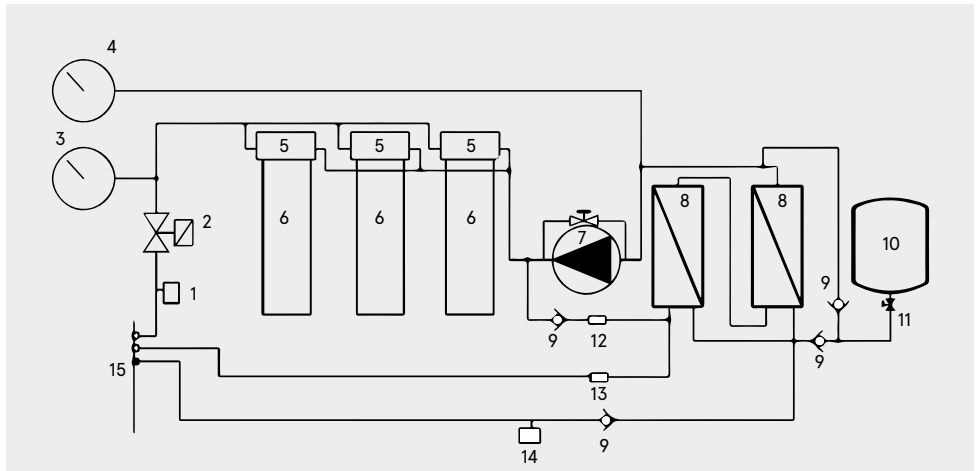
Inlet connection: 3/8".  
Drain connection: 3/8".  
Tap connection: 3/8".



*Sanitizing procedure*

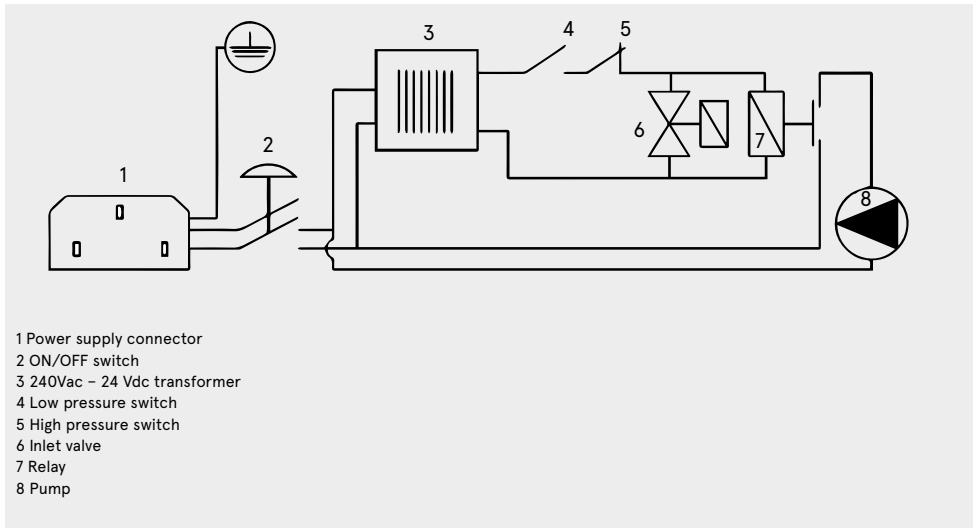
Pre-filters		3 x Logico Aqua Premium 17"
RO Membrane	IN / ENTRADA	 <p>IN: RH 3/8" OUT: RO RH 3/8" OUT: R RH 3/8"</p>
Producción:		1000 GPD x 2 piezas
Electrical power supply:		220-240 Vac
Electric adapter:		240 Vac 50/60 Hz - 24 Vdc
Faucet type:		5 lpm.
Production:		Without backpressure. Water to be treated 15 °HF. 200 ppm, 14 °C, 2 bar****
Membrane cleaning system:		With RO Water

### HYDRAULIC DIAGRAM



- |                                   |                                        |
|-----------------------------------|----------------------------------------|
| 1 Low pressure switch             | 9 Check valve                          |
| 2 Inlet solenoid valve            | 10 Flushing tank                       |
| 3 Network pressure gauge          | 11 Tank shut-off valve                 |
| 4 Pump pressure gauge             | 12 Recirculation restrictor 1000 cc    |
| 5 Logico Aqua filter heads        | 13 Drainage restriction 300 cc         |
| 6 Logico Aqua Premium 17" filters | 14 High pressure switch                |
| 7 Pump 600 L/H                    | 15 Inlet, outlet and drain connections |
| 8 1000 GPD membranes              |                                        |

## ELECTRIC DIAGRAM



## Hydraulic connection diagram

\* For salinity levels above 2000 ppm, please check with your distributor. Warning: a high salinity rate and/or low entry pressure may cause the machine to operate outside of its working limits thus substantially limiting or preventing the reverse osmosis process.

\*\* Higher levels of hardness can reduce the service life and correct function of certain components.

\*\*\* Maximum accumulation in function of entry pressure.

\*\*\*\* Flows can vary by up to 20% in function of the temperature, pressure and specific composition of the water to be treated.

\*\*\*\*\* Possible variations in function of model chosen.

## 2. HOW THE EQUIPMENT WORKS

- The mains water to be treated is fed through the equipment after passing through the pre-filtering stage that incorporates a turbidity (S) and carbon filter (C). During this filtering stage, chlorine, its derivatives and other organic substance particles are retained.
- Water flow to the inside section of the equipment is controlled via a shut-off solenoid valve (Si) or a 4-way shut-off valve (So) (in function of specific model).
- After the water passes through the filtering stage, it is fed towards the reverse osmosis membrane (M). In function of each model, the equipment may incorporate a pump (P) to increase pressure. It is the effect of the water pressure upon the membrane, which makes the reverse osmosis possible.
- The treated water is held in the water tank (T) for its subsequent use. Water that is rejected or has excessive salt or other dissolved substances
- The equipment with a pump (P) have a built-in low pressure switch (LPS) to protect the pump against pressure drops from the network.

DISTRIBUTED BY:

WLG / PEU  
Aiguafreda, 8  
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08480, L'Ametlla del Vallès  
Barcelona - Spain  
T. 902 305 310 F. +34 936 934 300

## 3. INTERFACE. STATE OF THE SYSTEM

No electrical interface included.



### 3.2. 3.2. FUNCIONALITY

FUNCTION	EXPLAINING	EQUIPMENT STATE (LED)
<b>1. Flushing when the equipment is switched on</b>	The RO membrane will be flushed by the machine for 5 minutes. Afterwards, open the tap for 30 minutes.	When the cleaning is undergoing, the quality indicator from the display shows the current value, switching between inlet and outlet water.
<b>2. Flushing when running time is accumulated</b>	Each time the acumulative working time reaches 30 mins, the system will flush the membrane for 30 seconds. If the user opens the tap, the machine will stop flushing and will go into normal mode.	When flushing is in progress, the water quality light shows the previous flushing status.
<b>3. Flushing when standby time is accumulated</b>	Each time the cumulative standby time reaches 7 hours the system will flush the membrane during 30 secs automatically.	When flushing is in progress, the water quality display shows the current value, alternating between inlet water and osmosis water.
<b>4. Opening of the tap</b>	The system is put into normal operation.	The "working" white light blinks. Water quality indicator shows the current value, switching between inlet and outlet water.
<b>5. Closing of the tap</b>	The system stops producing and is put on standby.	Water quality display will turn OFF.
<b>6. Low inlet pressure</b>	The system stops producing and the lack of water alarm turns on.	The "working" red light blinks and the acuoustic alarm turns on.
<b>7. Filter change notice</b>	The system warns that the appropriate maintenance/replacement of consumables is due soon. Contact your distributor.	The "CBPA", "RO" and "WORKING" indicator lights will flash red and the unit emits an acoustic signal when water is dispensed.
<b>8. End of filter service life</b>	The system indicates that immediate maintenance/replacement of consumables is required and for safety reasons, do not dispense water until the appropriate maintenance actions have been performed. Contact your distributor.	The "CBPA", "RO" and "WORKING" indicator lights will be on with red light and the equipment will emit an acoustic signal and remain locked until the necessary maintenance tasks are carried out.
<b>9. Warning by continued use</b>	If the system detects that it has been working uninterruptedly for 2 hours, the equipment stops and gives a warning signal.	The indicator lights will be off except for the Power ON indicator, which will remain illuminated. The unit emits an acoustic signal every half hour until the user cancels the warning by pressing the power button.
<b>10. Water leakage inside the equipment</b>	If the system detects that there is a water leak inside, the equipment stops and gives a warning signal. After solving the problem and drying the probe, the equipment will be informed by the front push button.	The "WORKING" indicator light will flash red and the unit will emit an acoustic warning until the problem is solved.

## 4. WARRANTY

The distributor guarantees the equipment for a period of two years in the event of any non-compliance detected in the equipment, in accordance with Royal Decree 1/2007 of 16 November (revised text of the General Law for the Defence of Consumers and Users).

- The guarantee includes the repair and replacement of faulty parts by personnel authorised by the distributor or by the official technical assistance service (S.A.T.) at the place of installation or in its workshops. Included in the warranty is labor and shipping costs that may be generated.

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

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

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

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

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

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

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

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

\* Pre-treatment of the equipment:

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

\* TDS input to the equipment (ppm):

\* TDS produced water (ppm):

\* Pressure of entry to the equipment (bar):

\*Result of the installation and commissioning sheet:

Correct:

Others:

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

\*Ref: Maintenance contract:

ACCEPTS the maintenance contract

DOES NOT ACCEPT the maintenance contract

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

COMPANY AND/OR AUTHORIZED INSTALLER, DATE AND SIGNATURE:

SERIAL NUMBER:



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



## 5. INSTALLATION REGISTER SHEET



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

### INFORMATION ON THE USE OF THE EQUIPMENT:

Origin of the water to be treated:

PUBLIC SUPPLY NETWORK

OTHER \_\_\_\_\_

\* Pre-treatment of the equipment: \_\_\_\_\_

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

\* TDS of entry to the equipment (ppm): \_\_\_\_\_

\* TDS produced water (ppm): \_\_\_\_\_

Inlet pressure to the equipment (bar): \_\_\_\_\_

### INSTALLATION STEP CONTROL:

Pre-filter assembly:

Overflow installation:

Start-up according to protocol:

Checking of fittings:

Measurement of inlet hardness:

Output hardness measurement:

Installation of isolation by-pass:

Correct drainage installation:

Brine suction test/tank filling:

Leakage of the pressurised system:

Programming of the equipment:

Adjustment of residual hardness:

### COMMENTS

\* Result of installation and commissioning:

CORRECT (equipment installed and working correctly. Produced water suitable for the application).

OTHER: \_\_\_\_\_

### IDENTIFICATION OF THE AUTHORISED TECHNICIAN/INSTALLER: CONFORMITY OF THE OWNER OF THE EQUIPMENT:

COMPANY AND/OR AUTHORIZED INSTALLER, DATE AND SIGNATURE:

*I have been clearly informed of the use, operation and maintenance required by the installed equipment, having been offered a maintenance contract and informed of how to contact a customer service in the event of a request for information, communication of a breakdown or malfunction, request for maintenance or intervention by a technician.*

Remarks: \_\_\_\_\_

\*Ref: Maintenance contract: \_\_\_\_\_

ACCEPTS the maintenance contract

DOES NOT ACCEPT the maintenance contract

Model/Ref: \_\_\_\_\_

Owner: \_\_\_\_\_

Street \_\_\_\_\_

Telephone: \_\_\_\_\_

City: \_\_\_\_\_

Province: \_\_\_\_\_

C.P.: \_\_\_\_\_

SERIAL NUMBER

### EQUIPMENT WARRANTY DIRECTED TO THE DISTRIBUTOR:

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



## 6. MAINTENANCE SERVICE

DATE	TYPE OF SERVICE	NAME, SIGNATURE AND STAMP OF TECHNICIAN	
<input type="text"/>	<input type="radio"/> START-UP		
<input type="text"/>	<input type="radio"/> COMPLETE MAINTENANCE	TECHNICIAN	
<input type="text"/>	<input type="radio"/> PREPARATION	STAMP	<input type="radio"/> ORDINARY
<input type="text"/>	<input type="radio"/> SANITIZATION	<input type="text"/>	<input type="radio"/> EXTRAORDINARY
<input type="text"/>	<input type="radio"/> OTHERS		<input type="radio"/> WARRANTY
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