EQUIPO
UNE 149101
CERTIFICADO

NOKKA

DIRECT FLOW 800

INSTRUCTION MANUAL

EQUIPMENT
REVERSE OSMOSIS

NOKKA

DIRECT FLOW 800

USER MANUAL

FOR REVERSE OSMOSIS EQUIPMENT

0. MAIN CHARACTERISTICS

CLICK
FAST CONNECTIONS
AND MAXIMUM SECURITY

FILTER CONTROL
AUTOMATIC
MAINTENANCE
WARNING

SOLENOID VALVE
IMMEDIATE CONTROL

DIRECTFLOW DIRECT
PRODUCTION OF
OSMOSIS WATER

LED STATUS
STATUS
INDICATIONS

HIGH PERFORMANCE ENGINE
HIGH-
PERFORMANC
E ENGINE

SECURITY
LOCK
SECURITY
LOCK

ELECTRONIC ADAPTER

DOUBLEFLOW
HIGHEST FLOW
OF WATER
DISPENSED

DIRECT ACCESS
EASE OF ACCESS AND
MAINTENANCE

SOUND WARNINGS
SOUND WARNING

ANTIFOULING BEADS
ANTIFOULING PEARLS

HIGH EFFICIENCY HIGH
CONVERSION

CAPSULATED MEMBRANE
ENCAPSULATED
MEMBRANE

1. INTRODUCTION

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

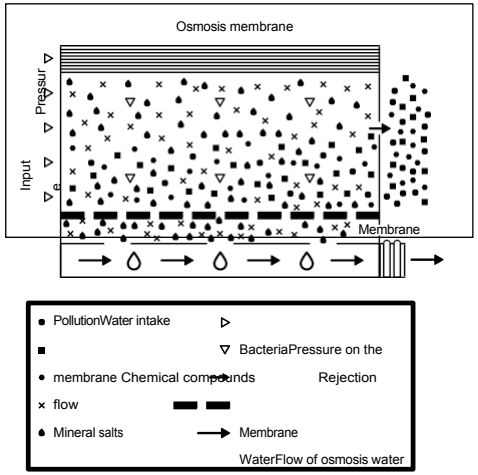
This equipment will help you to improve water characteristics.

2. WHAT IS OSMOSIS?

Natural or direct osmosis is the most common in nature, as semi-permeable membranes are part of the vast majority of organisms (e.g. plant roots, organs of our own body, etc.).

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

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



3. PRELIMINARY WARNINGS

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

ATTENTION: This equipment DOES NOT POTABILIZEw. If the water to be treated comes from a public water supply (and therefore complies with current legislation), this equipment will substantially improve the quality of the water.

In case the water to be treated does not come from a public supply network or is of unknown origin, the water to be treated shall be treated in the same way as the water to be treated.

Before installing the equipment, it will be necessary to carry out a physical-chemical and bacteriological analysis of the water to ensure its correct

potabilisation, 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 avoid 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, open the inlet tap and the tap, turn on the power supply and let the water flow for at least 5 minutes before using water.

ATTENTION: After a prolonged period (more than one month) in which the equipment has been out of operation or producing water, please contact your distributor in order to carry out a sanitisation. and maintenance.

• Remove whole jugs or bottles and avoid 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 a 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 hands or baths. 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 equipment

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 refrigerators, coffee machines, vending machines, etc.), you can use osmosis water at any other point of consumption.

If the water is to be piped (e.g. ice machines, water dispensers, other taps, etc.), the piping should only be made of a plastic pipe that complies 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 MINERALI- ZATION. The mineral salts needed by the human body are mainly provided by f o o d , especially by dairy products and in the form of water 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 FUNCTIONING OF THE EQUIPMENT

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

In the event that the water to be treated contains:

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

4. BASIC OPERATION

The steps are described in the Technical Data Sheet section.

of system operation (p. 20)

5. USER INTERFACE

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 18-22 of this manual).

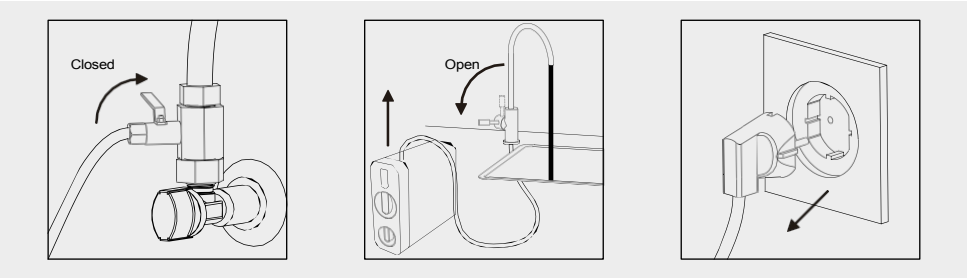
6. MAINTENANCE

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	• Breakage of any internal part of the equipment. • Poor connection of the installation. • Deterioration of a plastic tube. • Bad connection of filter or membrane. • The equipment has not been properly depressurised before changing the membrane or filter.	• Check all connections of the installation. • Let the machine depressurise properly, and r e i n s t a l l the filter or membrane. • If the unit has to be disassembled, call the service department first.
2. Zero production.	• There is no water supply. • There is no electricity supply. • Blocked membrane. • Transformer voltage less than 24 VDC. • Inlet filter saturated.	• Wait for the supply to return. • Check the power supply to the house. • Check transformer voltage. • Check membrane and inlet filter.
3. Low production.	• Power tap partially closed. • Filters / membrane in bad condition or exhausted. • Blocked rejection restrictor, flow rate less than 1 litre per minute. · Pump blocked or with bubbles inside (cavitations) · Low temperature of the water supply to the equipment.	• Open it completely. • Replace filter or membrane. • Change rejection restrictor. • Replace pump in case of blockage. • Unplug the equipment and plug it in again to rinse and remove the bubbles contained in the pump.
4. Excessive production.	• Excessive chlorine entering the membrane. • Blocked rejection restrictor, flow rate less than 1 litre per minute. • Excessively high feed water temperature >38ºC.	• Replace membrane. • Change of rejection restrictor. • The water temperature must be reduced below the limits. • Check the general installation of the enclosure, to eliminate heat sources.
5. Unpleasant taste and smell.	• Membrane in poor condition. • The team has been idle for a long time. • No sanitisation has been carried out. • The sanitising agent has not been properly purged.	• Replace membrane. • Carry out disinfection. • Purge the appliance correctly.
6. Whitish water	• Air in the system. Micro air bubbles that disappear after a few seconds.	• Doesn't represent a problem. Will be disappearing once the rests inside the equipment are removed.
7. Continuous dripping noise in drainage.	• Depressurisation of the device after production. - Inlet valve dirty, or in bad condition. • Diaphragm check valve (production) dirty, blocked or in bad condition.	• Wait a few minutes, and check if dripping stops. Clean or replace inlet valve. Check diaphragm check valve.
8. The equipment does not start u p .	• There is no water supply. · There is no electricity supply. · Inlet filter blocked. • Machine blocked by alarm. • Defective high pressure switch. · Leakage sensor activated	• Check the general power supply. • Change the inlet filter. • If there is a power supply, but the lights do not come on, contact technical support. • Replace the high pressure switch. · If the leak is not detected, dry the bottom of the unit together with the leak sensor. If repeated, call for service.
9. Equipment stops and starts constantly	• Leakage in production output. • Seals in electrical valves of external appliances, do not cut correctly and leak internally. • Production backflow preventer does not close properly.	• Check osmosis water system for leaks and repair. • Check the locking mechanisms of the devices connected to the equipment and ensure correct locking. • If dispenser taps are installed, check for dripping and repair. • Check backflow preventer.
10. The unit never stops pumping water into the drain.	1. Deteriorated inlet solenoid valve. 2.Deteriorated production backflow preventer.	• Check and replace.



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

APPLICATION

Water treatment
Reverse osmosis for domestic use.

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 European 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: 85%.
Calcium: 90%.
Sulphate: 90%.
Chloride: 90%.
Total hardness: 90%.
Conductivity: 90%.

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

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 electrical outlet within 1 metre (1).

• It is recommended not to install the equipment lying down or tilted (2). This will disable the leakage sensor.

• 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 in the open (4).

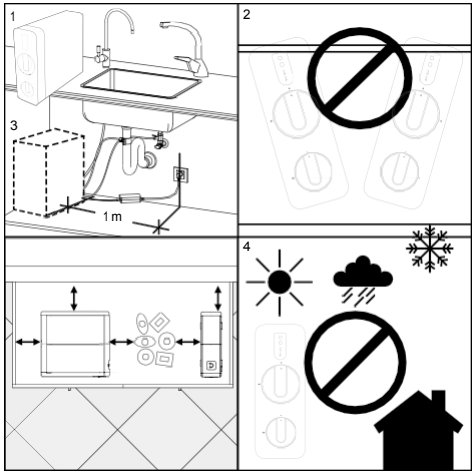
• The environment and surroundings in which the equipment and its subsequent connections are installed shall be in a suitable hygienic and sanitary condition.

• 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.

– 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.



ATTENTION: The equipment must not be installed next to a heat source or receiving direct heat from a heat source.
The airflow over them is hot.

- 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 its 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 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: Dispose of plastic bags properly and keep them out of the 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 selective collection containers or in the specific local centre for the recovery of waste materials.

This product must not 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 equipment was purchased, or to a Clean Point or to an authorised waste disposal centre.
specific local centre for the recovery of materials, indicating that it possesses compo 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 on-site installation. Users shall bear the cost of accidents and related losses caused by self-installation of the user.

! ***CAUTION: As the device to be installed improves the quality of the water to be consumed, all tools to be used must be of the same quality as the water to be used.***

For assembly and installation, they must be clean and under no circumstances must they be contaminated or impregnated with grease, oil or oxides. Use tools for exclusive use for cutting pipes, handling the membrane, etc. Keep them clean and disinfect them 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.***

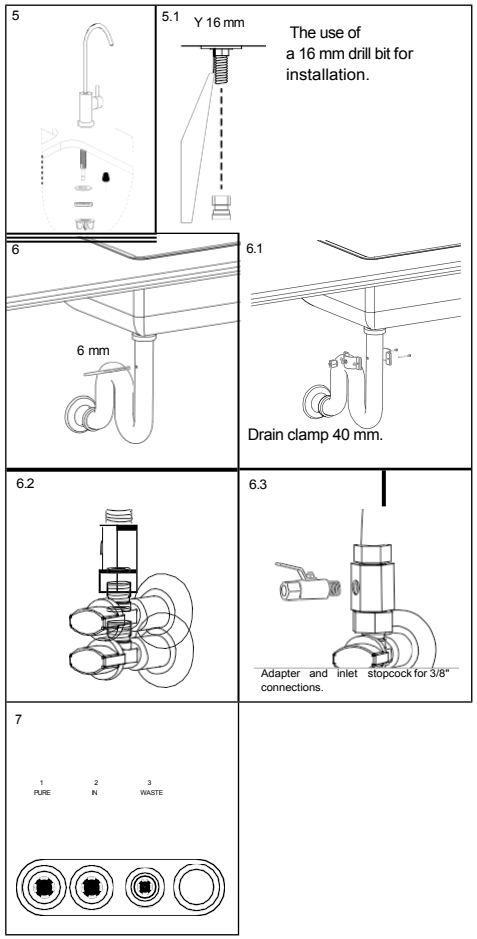
The use of materials and components that will come into contact with the water to be treated or consumed.

(For more information, please contact your distributor).

! ***CAUTION: Avoid the risks of external contamination of the equipment by improper handling, by using gloves, hand sanitising gel or washing hands as often as necessary during installation, commissioning, start-up and commissioning.***

cha and maintenance of the equipment.

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 unit (5, 6 and 7).



! ***CAUTION: Some of the installation accessories may vary depending on the model and region in which they are installed.***

that the equipment be 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 start-up, 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.

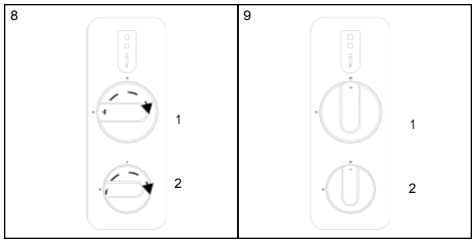
See hydraulic diagram on page 13.

4.2. INSTALLATION OF FILTERS

• Install the MRO membrane (1) on the first stage of the equipment (upper position) and the CF filter (2) 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 8.

• Insert firmly as far as it will go and turn the handle 90 degrees clockwise. After installation, the two filters should look as shown in figure 9.



5. IMPLEMENTATION

5.1. FILLING AND VENTING OF EQUIPMENT

• Once the filters have been installed, the dispenser tap must be opened. Then open the water inlet tap to the unit and finally connect the mains plug to the mains socket. Open the dispenser tap and let the water flow out of the tap for at least 10 minutes, in order to remove air bubbles, membrane protection products and clean the filter of any residues. It is advisable to repeat the start-up steps, because the pump could have an air bubble, making it cavitate, without being able to give water flow to the rest of the components.

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.

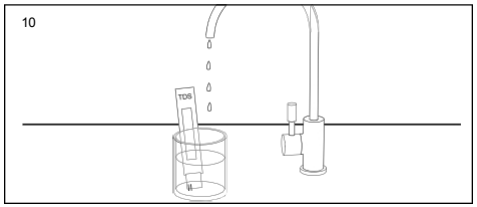
5.3. SYSTEM SEALING, SHUTDOWN AND START-UP

• Close the dispensing tap of the equipment on the top and keep the equipment hydraulically or electrically powered by carrying out an ocular check of the system to ensure that there are no leaks (for approx. 5 minutes).

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

5.4. RINSING AND CLEANING

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



! ***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 equipment, empty it through the tap, disconnect it electrically and put it back in the water tank.***

6. MAINTENANCE

CAUTION: Some components of your equipment, such as the pre-filter and the membrane, are consumable.
The Commission has also identified a number of other

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

CF FILTER RECOMMENDED MAINTENANCE

CF FILTER: 12 months or 8.000 lts.
MRO membrane: 36 months or 12.000 lts (for soft water to be treated (hardness <15 ºHF).

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.

CAUTION: The use of n o n - o r i g i n a l spare parts, installation outside the operating and commissioning limits, maintenance or repair of the equipment is not permitted.
improper use may result in the loss of the w a r r a n t y , 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 s t o r a g e and transport conditions. Take hygienic precautions after removing the consumables from their packaging and during the handling of the different connectors.
and components.

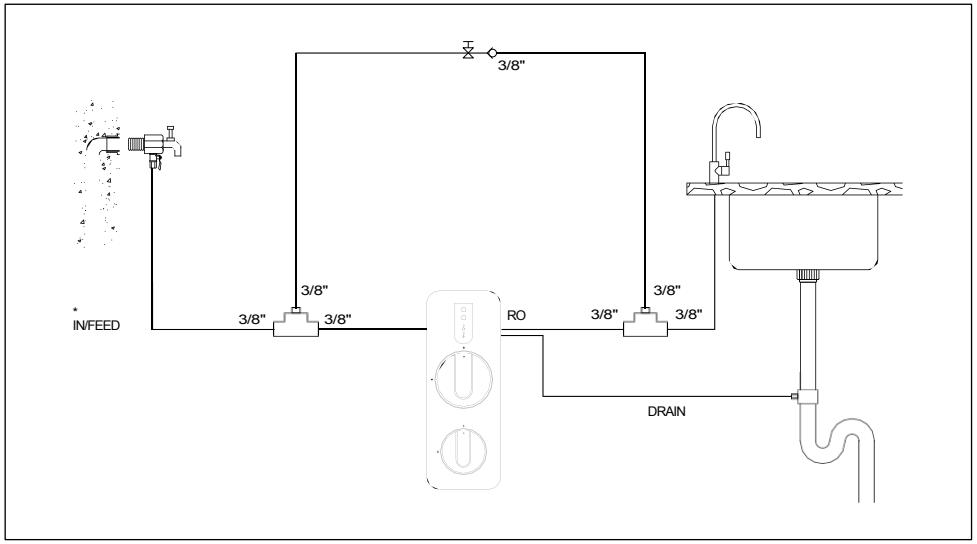
CAUTION: Before disassembling the equipment, make sure you have all the material you will need to carry out the disassembly.
maintenance operations and the space required for them. Work in a well-lit, hygienically clean place with sufficient space to carry out operations comfortably.

• Perform filter and/or diaphragm replacement in an appropriate manner. Ensure 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 described 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.

Hydraulic diagram.



SANITISATION PROCEDURE

1. HYGIENISATION

Material required:

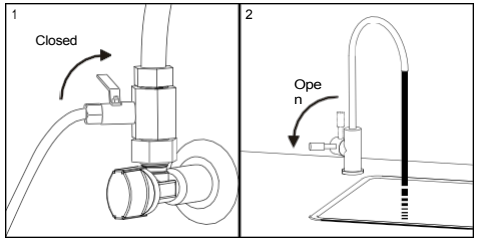
• Manual valve.
• Dosing cup and connectors.
• Hydrogen peroxide 3% (0.5 l).
• Brush.
• Single-use vinyl gloves.
• Easy-rinse soap or detergent.
• Food grade lubricant.
• Hydrogen peroxide detector strips.
• Sanitising spray.
• Paper napkin.

Sanitisation:

- At start-up.
- At least every 12 months depending on use.
- Each time water-contacting parts of the equipment are accessed or water has not been consumed for more than one month.

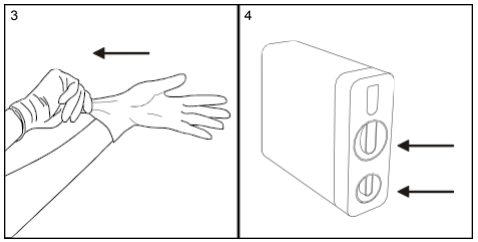
ATTENTION: The water used during hygienization must be potable water (from the public distribution network, complying with the corresponding potability requirements of the RD 140 / 2003, directive European 98 / 83 or local legislation in force).

• Open the dispenser tap and let the water recirculate in order to renew the water inside the equipment.
• Close the inlet valve (1) and keep the drain cock open to reduce the pressure in the equipment.



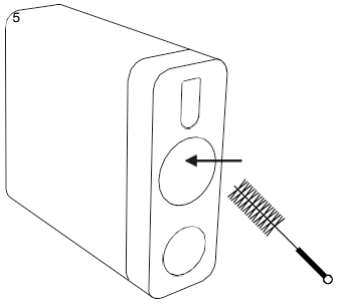
• Change the filters and/or membrane as indicated in the corresponding section of the Technical Manual.
· Sanitisation shall be carried out with the cartridges installed in their housings.
• Use single (3) use vinyl gloves to handle sanitising products.

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 c o n t a m i n a t i o n of the equipment.



• In case of replacement of any of the cartridges for disposal, clean and dry the inside of the housing.

· Disinfect the cartridge connections with a brush (which must be kept clean and disinfected) and a suitable disinfectant.



2. PRE-FILTER AND MEMBRANE TREATMENT

• Disconnect the inlet pipe to the unit marked "IN", and insert the dosing cup between the stopcock and the water inlet of the unit (6). For greater convenience and ease of access during sanitising and opening and closing operations of the inlet valve, you can insert a manual valve in the shut-off position together with the sanitising dosing cup, which will perform the same functions as the manual shut-off valve at the inlet of the equipment.

• Once the assembly is installed, keep the new manual inlet valve closed and open the inlet valve connected to the wall adapter (7). The dosing cup must be empty.

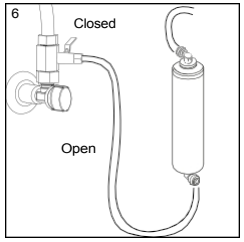
• Pour 0.25 litres of Hydrogen Peroxide into the dosing cup inserted in the inlet of the equipment (8). Screw the cup correctly to its head.

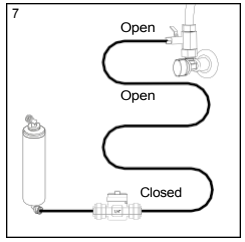
• The manual inlet valve and the tap must be closed. Connect the equipment to the power supply.

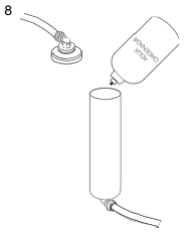
• Open the water inlet tap to the equipment and the dispenser tap, connect the appliance to the mains socket and allow it to start working, letting it suck the Hydrogen Peroxide into the appliance. Fill a 1L jug with the water from the dispenser tap. Before closing the dispenser tap, close the inlet tap again to lower the pressure. Fill the dispenser again 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.

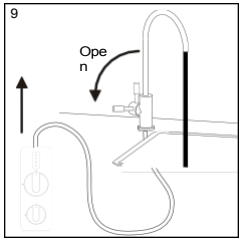
• After 10 mins. open the tap (9) and let the mains water circulate for 5 mins.

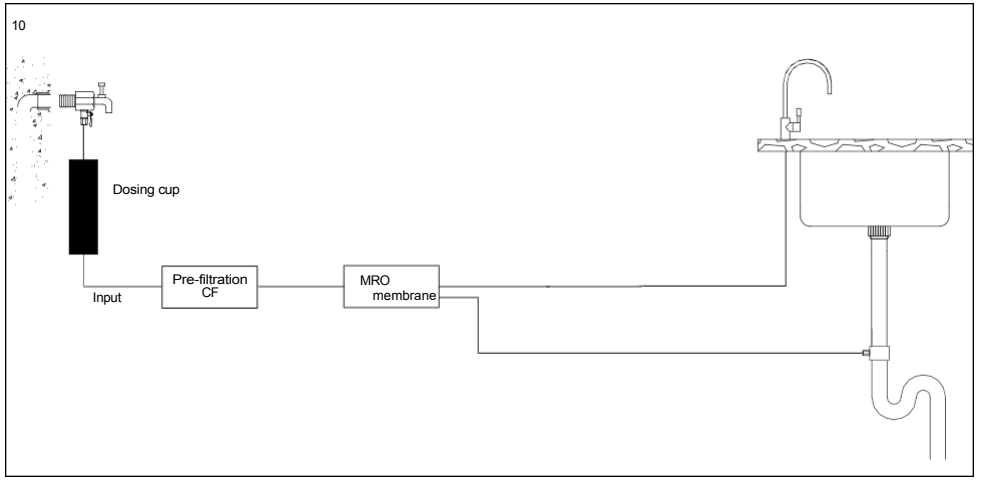
• Empty the dosing cup. Before opening the dosing cup, have a container at hand where you can empty it, as it may be full of water.











• 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 can reach the tap spout) and single-use blotting paper. Spray the spray on the tap nozzle, rub the spout and the tap nozzle with the disposable paper and do not touch it directly with your hands.

3. RINSE

• 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 applicable local regulations regarding water potability parameters.

• When you have finished, take a blotting paper and dry all parts that may have become wet, especially the Aquastop leak detection probe.

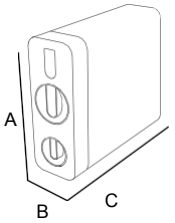
DATA SHEET

1. TECHNICAL CHARACTERISTICS

OPERATING LIMITS

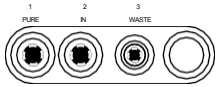
	EQUIPMENT WITH PUMP
Pressure (max./min.):	4 bar - 1 bar (400kPa-100kPa).
TDS (max.):	1500ppm**.
Temperature (max./min.):	38 ºC - 5 ºC.
Hardness (max.):	15 ºHF. ***.

Type of control: 1.Maximum pressure switch. 2.Inlet control solenoid valve.



Security system:
1. Leakage sensor
2. Maintenance notice.
3. Security lock.

Dimensions (W x B x C in mm): 390 x 140 x 430.
Weight (in kg, including all accessories): 12kg.

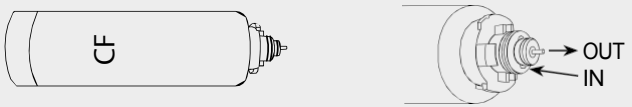


1, Pure / Tap
2 In / Input
3. Waste / Drainage

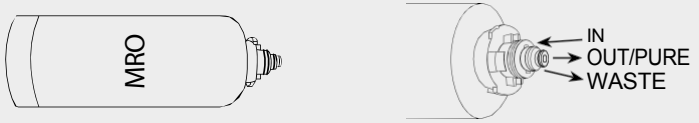
Inlet connection:
Drain connection: 3/8".
Tap connection: 1/4".
Wall adapter: 3/8".
Drain collar: 3/8" M-F. **** Clamp for 40 mm drain pipe.

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

CF pre-filter: 1 x combined sediment/charcoal.

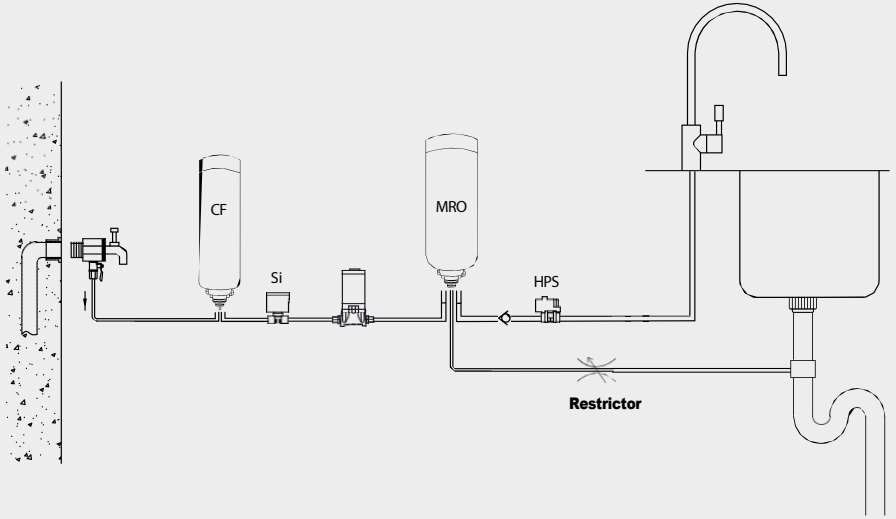


MRO membrane (PP+RO+CB+PET): 1 x Membrane 800

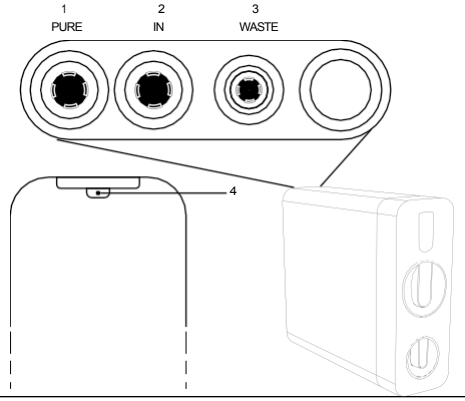


Power supply: 24 VDC
Electrical adapter: 100-240 Vac 50 / 60 Hz: 24 Vdc
Type of tap: 1-way tap
Production: 2 lpm
(inlet water conditions: 450 µS, 15 ºHF, 17 ºC and 3 bar)

HYDRAULIC DIAGRAM



HYDRAULIC WIRING DIAGRAM



1. Pure / 3/8" tap
2. In / Input 3/8
3. Waste / Drain 1/4"
4. Power

DISTRIBUTED BY:
KINETICO WATER SYSTEMS
Aiguafreda, 8
Pol. Ind. L'Ametlla Park
08480, L'Ametlla del Vallès
Barcelona - Spain
T. 902 305 310 F. +34 936 934 329

2. OPERATION OF THE EQUIPMENT

• The mains water to be treated enters the unit through the pre-filtration stage, which incorporates a turbidity filter and a CF carbon filter. In this filtration stage, suspended 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 membrane (RO). 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).

· Before being dispensed from the tap, the water passes through the carbon block post-filter (internal in the membrane), which improves the taste.

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

• 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.

· Electronic leak detection system. 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.

3. INTERFACE. STATUS OF THE SYSTEM

3.1 DISPLAY:

MRO **Membrane indicator**

CF **Filter indicator**

Operation indicator

Electrical connection indicator

3.2. FAULT IDENTIFICATION AND RESOLUTION

STATUS	*Water leakage*	*Excessive continuous running time*	*Continuous starts and stops*	*Security lock*
MRO CF 	MRO *Flashing RED* CF *Flashing RED* *OFF* **Fixed RED**	MRO *Flashing RED* CF *Flashing RED* *OFF* **Fixed RED**	MRO *Flashing VIOLET* CF *Flashing VIOLET* *OFF* **OFF**	MRO **Fixed RED** CF **Fixed RED** *OFF* **OFF**
ACOUSTIC	*3 Beeps every 4 seconds for 3 minutes*	*Beeps for 3 minutes*	*3 beeps*	*Beeps every time the tap is opened in the 3 months prior to lockout.*
COMMENT	*The system has detected a water leak and stops operation. Automatic reset when the leak sensor is dry. If leak is not detected, call for service.*	*When the equipment dispenses water for more than 30' continuously, it shall be stopped for safety and protection of the components. Disconnect and reconnect the power supply.*	*The system detects continuous stops and starts of less than 1' for 20' and stops operation. Disconnect and reconnect the power supply.*	After 3 months of the end of the life of the filters without realizing maintenance operation, the equipment will block itself to guarantee the quality and characteristics of the dispensed water. Call technical service to perform maintenance.

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.

3.3. FILTER LIFETIME DISPLAY

PERIOD OF LIFE	LIFE TIME REMAINING (DAYS)	LITRES OF CAPACITY REMAINING	AVISADOR DISPLAY	ACOUSTIC
Normal.	> 30	> 300	Permanent blue.	No alarm.
Warning	0 < X ≤ 30	0 < Y ≤ 300	Permanent lilac.	Double beep when filter life is short.
Sold out.	≤ 0	≤ 0	Permanent red.	Beeps when water is dispensed.

To guarantee the quality and characteristics of the water dispensed by the unit, it is important to carry out the appropriate maintenance periodically and/or when indicated by the unit's own electrical controller. If this is not carried out within 3 months of the maintenance warning, the equipment will stop its operation for safety reasons, ceasing to dispense water and notifying the user that it has been serviced.
informing the user of the reason for this stoppage.

4. WARRANTY

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 competition, 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 non-conformities that are a consequence of improper or inadequate use of the equipment according to the operating 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 characteristics 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 the 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 (ºF):

* TDS input to the equipment (ppm):

* TDS produced water (ppm):

* Inlet pressure to the equipment (bar):

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

Correct:

Others:

The owner of the equipment has been adequately and clearly informed of the use, handling and maintenance that the equipment requires to 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 contract ○

If you need information, report a fault or malfunction, 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 AUTHORIZED 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 (ºF):

* 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 protocol		TDS produced water (tap countertop) (ppm)	
Maximum pressure switch setting		Inform about the use, handling and maintenance that the equipment requires in order to guarantee pressurised system and the quality of the system.	
Overhaul and tightness of connections			
Water tightness			

COMMENTS

* Result of installation and commissioning:

○ 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 Installed equipment.

I have been offered to provide the maintenance required by the The customer shall be informed of how to contact a Customer Service Centre in case of requesting information, reporting a fault or malfunction, requesting maintenance, or requesting the intervention of a technician.

Comments:

***Ref. Maintenance contract:**

AGREES to the maintenance contract ○

DO NOT ACCEPT the maintenance contract ○

Model/Ref.:

Owner:

Street:

Telephone:

Town:

Province P.C

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 (labor, shipping costs, travel expenses, etc.) shall be borne by the distributor, in accordance with the terms and conditions of the general conditions of contract and sale, and may not be passed on to the manufacturer at a later date.

6. MAINTENANCE SERVICE

DATE	TYPE OF SERVICE	NAME, SIGNATURE AND STAMP OF THE AUTHORISED TECHNICIAN	
	IMPLEMENTATION		
	FULL MAINTENANCE PREPARATION HYGIENISATION OTHER	TECHNICIAN SEAL	ORDINARY EXTRAORDINARY GUARANTEE
	FULL MAINTENANCE PREPARATION HYGIENISATION OTHER	TECHNICIAN SEAL	ORDINARY EXTRAORDINARY GUARANTEE
	FULL MAINTENANCE PREPARATION HYGIENISATION OTHER	TECHNICIAN SEAL	ORDINARY EXTRAORDINARY GUARANTEE
	FULL MAINTENANCE PREPARATION HYGIENISATION OTHER	TECHNICIAN SEAL	ORDINARY EXTRAORDINARY GUARANTEE
	FULL MAINTENANCE PREPARATION HYGIENISATION OTHER	TECHNICIAN SEAL	ORDINARY EXTRAORDINARY GUARANTEE

6. MAINTENANCE SERVICE

DATE	TYPE OF SERVICE	NAME, SIGNATURE AND STAMP OF THE AUTHORISED TECHNICIAN	
	COMMISSIONING		
	FULL MAINTENANCE PREPARATION HYGIENISATION OTHER	TECHNICIAN SEAL	ORDINARY EXTRAORDINARY GUARANTEE
	FULL MAINTENANCE PREPARATION HYGIENISATION OTHER	TECHNICIAN SEAL	ORDINARY EXTRAORDINARY GUARANTEE
	FULL MAINTENANCE PREPARATION HYGIENISATION OTHER	TECHNICIAN SEAL	ORDINARY EXTRAORDINARY GUARANTEE
	FULL MAINTENANCE PREPARATION HYGIENISATION OTHER	TECHNICIAN SEAL	ORDINARY EXTRAORDINARY GUARANTEE
	FULL MAINTENANCE PREPARATION HYGIENISATION OTHER	TECHNICIAN SEAL	ORDINARY EXTRAORDINARY GUARANTEE

6. MAINTENANCE SERVICE

DATE	TYPE OF SERVICE	NAME, SIGNATURE AND STAMP OF THE AUTHORISED TECHNICIAN	
	◯ IMPLEMENTATION		
	◯ FULL MAINTENANCE ◯ PREPARATION ◯ HYGIENISATION ◯ OTHER	TECHNICIAN SEAL	◯ ORDINARY ◯ EXTRAORDINARY ◯ GUARANTEE
	◯ FULL MAINTENANCE ◯ PREPARATION ◯ HYGIENISATION ◯ OTHER	TECHNICIAN SEAL	◯ ORDINARY ◯ EXTRAORDINARY ◯ GUARANTEE
	◯ FULL MAINTENANCE ◯ PREPARATION ◯ HYGIENISATION ◯ OTHER	TECHNICIAN SEAL	◯ ORDINARY ◯ EXTRAORDINARY ◯ GUARANTEE
	◯ FULL MAINTENANCE ◯ PREPARATION ◯ HYGIENISATION ◯ OTHER	TECHNICIAN SEAL	◯ ORDINARY ◯ EXTRAORDINARY ◯ GUARANTEE
	◯ FULL MAINTENANCE ◯ PREPARATION ◯ HYGIENISATION ◯ OTHER	TECHNICIAN SEAL	◯ ORDINARY ◯ EXTRAORDINARY ◯ GUARANTEE

6. MAINTENANCE SERVICE

DATE	TYPE OF SERVICE	NAME, SIGNATURE AND STAMP OF THE AUTHORISED TECHNICIAN	
	◯ COMMISSIONING		
	◯ FULL MAINTENANCE ◯ PREPARATION ◯ HYGIENISATION ◯ OTHER	TECHNICIAN SEAL	◯ ORDINARY ◯ EXTRAORDINARY ◯ GUARANTEE
	◯ FULL MAINTENANCE ◯ PREPARATION ◯ HYGIENISATION ◯ OTHER	TECHNICIAN SEAL	◯ ORDINARY ◯ EXTRAORDINARY ◯ GUARANTEE
	◯ FULL MAINTENANCE ◯ PREPARATION ◯ HYGIENISATION ◯ OTHER	TECHNICIAN SEAL	◯ ORDINARY ◯ EXTRAORDINARY ◯ GUARANTEE
	◯ FULL MAINTENANCE ◯ PREPARATION ◯ HYGIENISATION ◯ OTHER	TECHNICIAN SEAL	◯ ORDINARY ◯ EXTRAORDINARY ◯ GUARANTEE
	◯ FULL MAINTENANCE ◯ PREPARATION ◯ HYGIENISATION ◯ OTHER	TECHNICIAN SEAL	◯ ORDINARY ◯ EXTRAORDINARY ◯ GUARANTEE

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