

EQUIPO

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CERTIFICADO

aqua
columbia®

FC-825 UV

TECHNICAL/USER MANUAL AND SERVICE BOOK

FC-825 UV USER MANUAL

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DATA SHEET FC-825-UV

0. MAIN CHARACTERISTICS



DIRECT **//**/**/****
ACCESS
EASE OF ACCESS AND
MAINTENANCE



COLUMBIA FILTERS *//**/**/****
EXCLUSIVE FILTERS
MAXIMUM SAFETY AND HYGIENE



COLUMBIA*
MEMBRANE
MAXIMUM
HYGIENE



CLICK *//**/**/****
FAST CONNECTIONS
AND MAXIMUM SECURITY



PRESSURE * PUMP
HIGHER PRODUCTION
AND YIELD



SOLENOID VALVE *
IMMEDIATE CONTROL.



REVERSE OSMOSIS *
EQUIPMENT WITH REVERSE
OSMOSIS SYSTEM AND PUMP



LED *//**/**/****
LED MULTIFUNCTION
INFORMATION SYSTEM



LEAK SENSOR
WATER LEAK DETECTION SYSTEM



FILTER **
EQUIPMENT WITH FILTRATION SYSTEM



ULTRAFILTRATION ***
EQUIPMENT WITH ULTRA-
FILTRATION SYSTEM



COLD *//**/** COLD**
WATER PRODUCTION



HOT *//**/**/** HOT**
WATER PRODUCTION



REMINERALIZER POST-
FILTER PH CORRECTOR



SAFE *//**/**/****
HOT WATER SAFETY
SYSTEM



ENERGY SAVING
NIGHTTIME ENERGY
SAVING SYSTEM



TOUCH BUTTON
TOUCH BUTTONS
FOR CONVENIENCE

* FC-825-ROP
** FC-825-F
*** FC-825-UF



Keep this manual, which includes the service book and warranty sections, in order to provide you with better service. after-sales.

SAFETY INSTRUCTIONS

The following warnings and safety instructions are provided to avoid injury to the user and to prevent damage to the user's environment. However, it is important to take the necessary precautions and to proceed with care during installation, maintenance, cleaning and operation.

Children/adults/pets

Children and others who are unaware of the risks involved in using the device could be injured or have their lives endangered. Therefore, please note:

- The appliance is not intended for use by persons under 8 years of age, persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge unless they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Children should not play with this device.
- Do not allow children to carry out cleaning or maintenance work on the appliance without supervision.

Warning: Risk of suffocation! Do not allow children to play with the packaging/plastic or packaging feet, as they could become entangled or cover their heads with them and suffocate. Keep packaging, plastics and packaging parts out of the reach of children.

Mounting. Warning

Danger of electric shock/fire/damage to property/damage to the device!

If the appliance is not installed correctly, it may lead to dangerous circumstances. Make sure that the following conditions are observed:

- The mains voltage at the socket must correspond to the rated voltage specified on the device (rating plate).
- The mains plug and the socket with protective contact must match and the grounding system must be correctly installed.
- The installation must have an adequate cross-section.

The mains socket must be accessible at all times. If this is not possible, in order to comply with the relevant safety regulations, a switch (two-pole switch) must be permanently integrated in the system in accordance with the electrical installation regulations.

If the power cord of the appliance is modified or damaged, it may cause an electric shock, short circuit or fire due to overheating.

The power cable must not be bent, crushed or modified and must not come into contact with heat sources.

The use of extension cords or extension leads could cause a fire due to overheating or short-circuiting.

Connect the appliance directly to a properly installed grounded outlet. Do not use extension cords, power strips or multiple plugs.

Warning: Danger of injury!

- The device is very heavy. Lifting it may cause injury. Always lift the unit with assistance.
- If the hoses and mains cables are not routed correctly, there is a risk of disconnection, which could result in injury. Route hoses and cables so that there is no risk of disconnection.

Caution! Danger of material damage/damage to the device!

- If the water pressure is too high or too low, the appliance may not function properly. This could result in damage to property or damage to the appliance. Make sure that the water pressure in the water supply system is at least 100 kPa (1 bar) and does not exceed 500 kPa (5 bar).
- Modification or damage to the water pipes may result in damage to property or damage to the unit. The water pipes must not be

should be bent, crushed, modified or cut.

- The use of hoses supplied by other brands to connect the water supply may result in damage to property or damage to the appliance. Use only the hoses supplied with the appliance or original replacement hoses.

Cleaning/maintenance Warning: Risk of death!

The device is electrically operated. There is a risk of electric shock if live components are touched:

- Switch off the unit. Disconnect the unit from the mains (unplug the mains plug).
- Never grasp the mains plug with wet hands.
- When disconnecting the plug from the socket, always grasp the plug itself and never the mains cable, as this could damage it.
- Do not make any technical modifications to the device or its components.

Any repair or other work on the device must be carried out by a qualified technician. to be performed by our service technician or by an electrician. Lo The same applies to the replacement of the network cable (if necessary).

- Replacement network cables can be ordered by contacting our technical service.

This device is intended for use in domestic and similar applications.

- Personal cooking areas in stores, offices and other work environments.
- Rural and client accommodations in hotels, motels and other residential settings.
- Bed and breakfast type environments.
- Restaurant services and similar non-retail applications.

1. UNPACKED

Before installation and start-up, it is important to check the casing and condition of the equipment to ensure that it has not been damaged during transport.

! Attention: Claims for damage during transport must be submitted together with the following information

with the delivery note or invoice to your distributor, enclosing the name of the carrier within 24 hours after receipt of the goods.

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

! Caution: Properly dispose of and keep plastic bags out of the reach of children, as they may be a hazard to them.

Inside you will find (depending on the model): Water treatment equipment, installation accessories and documentation.

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

This product cannot be disposed of with normal urban waste. When the equipment has reached the end of its useful life, it should be handed over to the company or center where the equipment was purchased, or to a clean point or specific local center for the recovery of materials, indicating that it has electrical and electronic components and refrigerant gas. The correct collection and treatment of waste equipment helps to preserve natural resources and also to avoid potential risks to public health.



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

2. INTRODUCTION

This manual describes the characteristics of the F, UF and RO versions. Some models do not have all 3 versions; if in doubt, consult your distributor.

F systems include sediment filtration and activated carbon filtration.

UF systems include sediment filtration, activated carbon filtration and ultrafiltration membrane. RO systems include sediment filtration, carbon filtration, reverse osmosis membrane and pH corrector (remineralizer).

Congratulations. You have purchased one of the best water treatment systems on the market for office use.

This equipment will help you to improve the characteristics of your water, providing you with water of the highest quality and low mineralization.

Your equipment will provide you with different benefits and benefits:

- It is a physical system that does not use or add chemicals to the water.
- Provides high water quality.
- It has a low maintenance cost.
- Ensures high production.

3. TYPES OF TREATMENTS

Depending on the model, Columbia fountains are available with different types of water treatment: filtration, ultrafiltration and reverse osmosis.

3.1 What is leakage?

Sediment filter.

Filtration is the process of separating suspended solids in water through a porous medium, also called a filter. Water passes through the filter pores, but particles larger than the filter pores are retained in the filter, resulting in clearer water. Columbia Fountains use 5µm filters.

Active carbon filter.

Activated carbon is used to remove chlorine from water, as well as improve taste, odor and remove some organic compounds due to its high adsorbent capacity. Columbia Fountains incorporate granulated carbon.

3.2 What is ultrafiltration?

Ultrafiltration is the system used to completely remove viruses and bacteria from water. Ultrafiltration membranes have a porosity between 0.1 and 0.001 µm, which is why they are able to retain suspended particles much better.

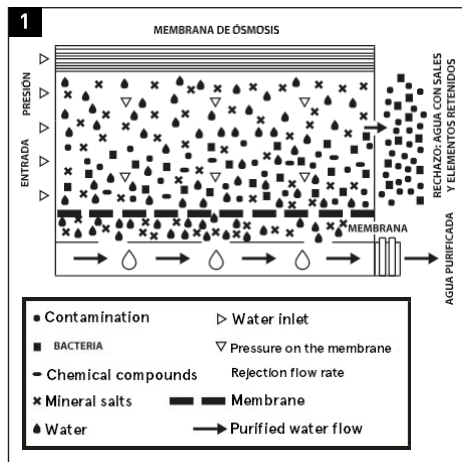
3.3 What is osmosis?

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

When two solutions of different salt concentrations are separated by a semi-permeable membrane, water naturally flows from the solution of lower concentration to the solution of higher concentration. This flow continues until the concentrations on both sides of the membrane are equalized.

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

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



4. PRIOR WARNINGS



Warning

- These appliances are supplied with refrigerant gas, **ISOBUTANE (R-600a)**, which is a natural gas with no harmful effects on the environment, but is flammable.

- The appliance must be transported and moved with the utmost care so that it is not excessively shaken or knocked. Failure to do so could result in the unit being put out of service.

- Keep the ventilation openings of the appliance or the built-in structure free of obstructions.

- Do not damage the cooling circuit. Damage to the refrigeration circuit, with possible refrigerant gas leakage, could create explosion risks caused by sparks or external flames.

- Under no circumstances should you operate your device if it appears to be damaged.

- In the event of a malfunction, contact your Technical Service, ventilate the room where the appliance is located and avoid open flames or work on the appliance.

- For recycling, contact your local waste disposal service or the seller. The unit must be transported without damaging the cooling circuit.

- This appliance is intended for use in domestic and similar applications such as staff kitchen areas in stores, offices and other work environments; rural and guest accommodations in hotels, motels and other residential type environments; bed and breakfast type environments; catering services and similar non-retail applications.

! Attention: Read carefully and keep this manual for installation and commissioning of the equipment. If you have any doubts about the installation, use or maintenance of this equipment, please contact the technical assistance service (T.A.S.) of your distributor.

! Attention: This equipment IS NOT POTABILIZED water. In the event that the water to be treated is not installation and commissioning of the equipment. If the water is supplied by a public water supply (and therefore complies with current legislation), this equipment will substantially improve water quality. If this is not the case, a physical-chemical and bacteriological analysis of the water will be necessary, in order to ensure its correct potabilization by applying the appropriate techniques and equipment for each need, **PRIOR TO INSTALLATION** of the equipment. Please contact your distributor for advice on the most suitable treatment for your case.

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

4.1 Conditions for correct operation of the equipment

• The equipment should not be supplied with hot water ($T > 40^{\circ}\text{C}$).

• The ambient temperature should be between 4° and 45°C .

• Some models incorporate a pump. If the mains pressure is higher than 2.5 bar, a pressure regulator should be installed before the water enters the unit, set at a maximum pressure of 2.5 bar.

• For water with salinity higher than 2000 ppm consult your distributor.

• It is recommended that the water to be treated be decalcified or with a maximum hardness of 15°HF in order to obtain optimum performance of the equipment.

• If the water to be treated has a hardness higher than 15°HF , this could lead to a reduction in the life of the membrane and in the performance of the equipment.

• In case the water to be treated contains:
- High concentrations of iron and manganese (Ma).

ym measured at machine rejection).

- Prolonged hyperchlorination over time.
- Sludge or turbidity greater than 3 NTU.
- A nitrate concentration above 100 ppm.
- A sulfate concentration higher than 250 ppm.
- Contact your distributor for a recommendation on the most appropriate pretreatment for your case, to ensure the correct operation of the equipment, avoid damage to components and guarantee the quality of the water supplied.

4.2 Warnings prior to installation

• In the event that the installation of the equipment in the home or business needs to be adapted in order to be able to install the equipment in the planned location, this must be done in accordance with the national standards for indoor water and electrical supply installations.

• COLUMBIA devices require an electrical outlet less than 1 meter away.

• COLUMBIA equipment should not be installed lying down or inclined. They must be placed on a flat surface for a correct and safe operation.

• The place of installation must have sufficient space for the device itself, its accessories, connections and for convenient maintenance.

• Maintain a minimum clearance of 10 cm from the sides and rear wall to ensure proper ventilation of the equipment.

• Under no circumstances shall the equipment be installed at in-temperature.

! **ATTENTION:** The unit must not be connected to power supply directly, it must be left to stand for 2 hours after it has been placed in the desired installation position. This is very important to ensure correct operation of the system, otherwise the compressor may be damaged. The manufacturer will not be held responsible for

the damage caused to the equipment in this case.

4.3. Warnings on the use of the equipment

• When you are going to be away for more than a week, close the water inlet tap to the unit, empty it and disconnect it from the power supply. When you return, turn on the power supply, open the water inlet tap and empty the accumulation tank twice before using water.

! **Caution:** After a prolonged period (more than one month) in which the equipment has been out of service or has not produced water, contact your distributor for sanitation and cleaning.

adequate maintenance.

! **Caution:** Particular attention should be paid to the cleanliness and hygiene of the front dispensers. The sanitizing spray and single-use absorbent paper should be used regularly, especially when performing periodic maintenance and sanitizing. For this purpose, use the sanitizing spray and single-use absorbent paper (See chapter Hi-

gienization).

! **Attention:** The water provided by the osmosis equipment is of **LOW MINERALIZATION**. The minerals needed by the human body are mostly supplied by food, and to a lesser extent by drinking water.

5. OPERATION OF THE EQUIPMENT

5.1 How to extract water from your dispenser

See chapter 15 (How to draw water) of the Technical Manual to identify the dispensers and how to draw water.

5.2 Use of management and control components

See Chapter 14 (Component Identification) of the Technical Manual to identify and understand how the management and control components work.

5.3 Basic system operation

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

In the "Ultrafiltration" models, the water passes through the UF membrane where the smallest particles and even viruses and bacteria are retained. In the "Reverse Osmosis" models, the passage of water into the equipment is controlled by a solenoid valve.

After the filtration stage, the water is pumped to the reverse osmosis membrane. Depending on the model, the equipment may incorporate a pump to increase the pressure. The pressure of the water on the membrane makes the reverse osmosis process possible.

Subsequently, the water passes through a post-filter to eliminate possible odors and odorous substances, as well as to adjust the pH of the water before it is accumulated.

The reject water or water with excess salts and other dissolved substances is directed to the drain for disposal.

When water is demanded by pressing the front dispensers of the equipment, the water accumulated in the cold, hot and reserve water tanks (depending on the model) flows towards the outlet nozzles.

! **Caution:** There are slight variations in operation, depending on the model. Please read the corresponding section of the Technical Manual.

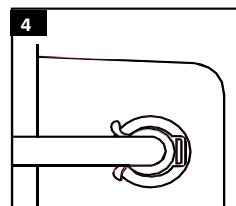
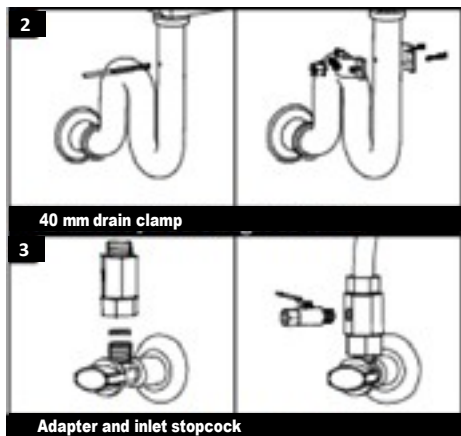
6. INSTALLATION

Your Columbia Source should be installed by sufficiently qualified personnel. Consult your distributor if in doubt.

Caution: Since the device to be installed

to improve the quality of the water to be consumed, all tools to be used for assembly and installation must be clean and under no circumstances must they be contaminated or impregnated with grease, oil or oxides. Use tools exclusively for cutting pipes, handling the membrane, etc.

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



! **Attention:** Avoid the risks of external contamination of the equipment by improper handling, using gloves, hand sanitizing gel or washing your hands as often as necessary throughout installation, commissioning and maintenance of the equipment.

Install the drain collar, only in the RO version (image 2) and inlet socket adapter (image 3) and connect them to the respective equipment IN and OUT / DRAIN connectors only in the RO version (image 4).

The drain pipe can be directed upwards vertically a maximum of 2.5 meters and another 5 meters horizontally.

Some models include a connection for emptying the drip tray.

direct to a drain that is at a lower height than the tray as it will be emptied by the weight of water.

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

Use appropriate tools and sealants to ensure the tightness of the connections.

6.1 Electrical connection

Before connecting the unit to the power supply, make sure that the rear switch of the hot water system (HOT) is in the OFF position. It should only be turned on when the hot water tank is full of water.

7. RINSING OF CARBON FILTERS

See chapter 17 (How to access the filters) of the Technical Manual for how to access the filters.

It is necessary to remove the granulated carbon dust from the filters that is generated during transport and handling of the equipment and corresponding cartridges. This dust must be removed since it could completely or partially obstruct the reverse osmosis membrane and cause the equipment to malfunction.

To do this, disconnect the tube that connects the outlet of the last carbon pre-filter (there may be 1 or 2 depending on the model) and the inlet to the membrane holder (see indication A in the flow diagram in chapter 13 (technical data). Feed the equipment hydraulically (by opening the stopcock) and electrically and direct this tube into an external container or sink until the water runs clear and the carbon dust has been completely removed.

! **Caution:** Do not wash the carbon pre-filters through the front dispensers, as this may result in the following problems
the carbon dust to be removed would enter the equipment's deposits, which could lead to malfunctioning and fouling of the equipment and/or reduction of the useful life of certain components.

In RO models; perform the post-filter rinsing by connecting the outlet of the last carbon pre-filter (there may be 1 or 2 depending on the model) to the inlet of the post carbon (See indication B, in the flow diagram of the Technical Manual). Disconnect the post carbon outlet pipe (See indication C, in the flow diagram of the Technical Manual). Feed the equipment hydraulically (by opening the stopcock) and electrically and direct this tube into an external container or sink until the water runs clear and the carbon dust from the post carbon filter has been completely removed.

After flushing the filters, leave all tubing and components in their original position and connections.

8. SYSTEM TIGHTNESS CHECK, SHUTDOWN AND START-UP (RO)

Keep the inlet stopcock open and keep the equipment electrically powered by performing an ocular check of the system to ensure that there are no leaks (for about 1 minute).

9. CLEANING AND MAINTENANCE

9.1 Equipment cleaning

- Always unplug the equipment from the power supply before cleaning the equipment.
- Clean the exterior surfaces of the equipment with a cloth dampened with water and neutral soap.
- Never use detergent or chemical products.
- Do not spray water directly on the surface of the equipment.
- If the condenser accumulates dust or other unknown substances, clean it with a cloth dampened with water and neutral soap.
- After cleaning the equipment, dry it completely before plugging it into the power supply.
- Empty the drip tray daily.

9.2 Water treatment maintenance

! Caution: Some components of your equipment, such as pre-filters, membrane and post-filters (see The consumables (depending on the model) are consumables that have a limited lifetime. The duration will depend on the local water quality, consumption, type of use and specific aspects of the water to be treated such as extreme turbidity, high chlorination, excess iron.

! Attention: In order to guarantee the quality of the water supplied by your equipment, it must be periodically maintained.

Recommended maintenance
- Pre-filter sediment: At least every 12 months*.
- Carbon pre-filter: At least every 12 months*.
- Osmosis membrane: Approx. every 3 years (for soft water to be treated (hardness >15°HF)).
- Afterfilter: At least every 12 months*.
- Sanitization: At startup. At least every 12 months depending on use. Every time the equipment's water-contacting components are accessed or no water has been consumed for more than one 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 in a proper way.

and the use of original spare parts to ensure the proper maintain the characteristics, warranty, certifications and performance of the equipment and thus preserve the quality of the water dispensed.

! Caution: The use of non-original spare parts, installation outside the limits of operation and commissioning, improper maintenance or use may result in the loss of warranty, as well as the invalidation of the certifications to which the equipment has been subjected to.

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

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

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

Change filters properly, according to the equipment model and filter type. Ensure the tightness of the connections and the original hydraulic configuration of the system. See the Technical Manual for the filters required according to your equipment model and how to access the filters.

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

! Attention: In case of detecting that the water dispensed does not comply with the national legislation in force, close the inlet tap of the equipment, empty it through the tap, disconnect it electrically and put on. contact your technical service.

10. SANITIZATION PROCEDURE

Material required:

- Manual valve.
- Dosing cup with connectors.
- Hydrogen peroxide (0.5 l) (sanitizing product)
- Single-use vinyl gloves.
- Hydrogen peroxide detector strips.
- Sanitizing spray (hydrogen peroxide)
- Paper napkin.

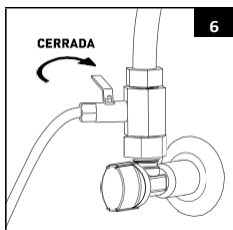
Sanitize the equipment during start-up, when necessary (whenever there is a risk of contamination of the equipment due to the handling of components in contact with water) or at the indicated intervals.



To do so, follow the steps below:

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

- Keep the inlet valve closed (6) and empty the accumulation tank through the front dispensers (see chapter "how to draw water").



- Sanitization should be performed with new pre-filters and after-filters installed and properly rinsed beforehand, with carbon pol-vo properly removed from them.

- Use single-use vinyl gloves to handle sanitizing products.

10.1 Pre-filter and membrane sanitization

Insert the dosing cup into the inlet pipe of the equipment.

To this end:

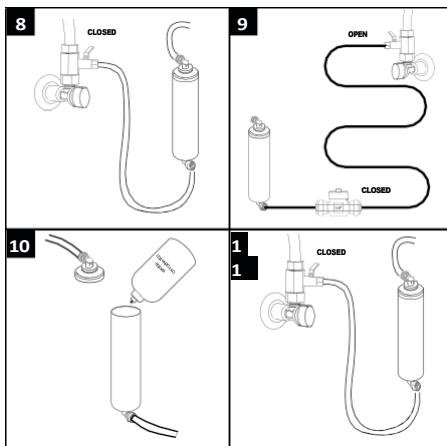
- Disconnect the inlet pipe to the unit marked "IN", and insert the dosing cup between the stopcock and the water inlet of the unit (8). For greater convenience and ease of access during sanitizing and opening and closing operations of the inlet valve, a manual valve in closed position can be inserted together with the sanitizing dosing cup, which will perform the same functions as the equipment inlet stopcock.

- Once the assembly is installed, keep the new inlet valve closed and open the inlet stopcock (9). The dosing cup must initially be empty.

- Pour 100 ml of sanitizing agent into the sanitizing cup inserted in the inlet of the unit (10). Thread the cup correctly to its head.

- On RO models. Connect the equipment to the power supply.

- Open the water inlet stopcock to the equipment, allowing it to start up and allowing the sanitizing product to be pushed into the equipment. Keep the inlet valve in this position and let the equipment run for 10 minutes for the reverse osmosis models and 3 minutes for the Filtration and Ultrafiltration models.



- Close the inlet stopcock (11) and unplug the unit from the power supply, wait until the unit stops discharging water from the rejection outlet to the drain (reverse osmosis models only).

- Let the filters soaked with the Product rest for 20 minutes. In the meantime, proceed to sanitize the tanks.

10.2 Sanitization of tanks and front dispenser

- Sanitize the nozzles of the front dispensers using cotton swabs and sanitizing spray.

- Completely empty the reservoirs through the front dispensers and purge outlet (12). Fill the reservoirs again and empty them to rinse out the residual sanitizer.

- Remove the accessories used for sanitization and reconnect the supply tube to the inlet (IN) of the unit.

- Open the stopcock and power the equipment to start it up.

- Use the sanitizing product detector strips (318701) to verify that the equipment is properly rinsed, make the necessary drains in case of sanitizing product residues.

11. USER INTERFACE



Attention: Depending on the model, the equipment may incorporate an electronic controller.

The system will efficiently manage the functionality and status indications in which it is located, as well as the various security systems.

In case you incorporate it, see chapter 16 (user interface) where the states in which each system can be found and the information provided by the system are described.

12. TROUBLESHOOTING

THE TANK DOES NOT FILL AT ALL		
Problem	Reason	Solution
1. No water enters the fountain.	The stopcock is closed	Open the stopcock.
	The source is unplugged	Plug in the power supply.
	The switch is OFF	Set the switch to ON.
	No water supply	Problem unrelated to the source.
	Blockage in the feed pipe to the source	Replace the feeding tube.
2. Water enters the source, but does not reach the membrane.	Solenoid valve does not open	See item 3.
	There is a clogged filter	Disconnect the outlet of each filter one at a time to locate the clogged filter and replace it.
3. The solenoid valve does not open.	No power to solenoid valve	The tank is full and there is no water demand.
	The solenoid valve is damaged, since it receives current and does not open (Check with a voltmeter).	Replace the solenoid valve.
4. Solenoid valve and pump are not working.	Level switch does not work	See item 6.
5. The solenoid valve opens, but the pump does not operate.	Cable disconnected	Check that there are no loose wires.
	Damaged pump	Replace the pump.
6. The level switch does not work.	It is damaged and does not respond when the float is raised and lowered	Change the level switch.
	The electronic card is damaged	Replace the electronic card.
PRODUCTION IS LOW		
7. Production is low	Partial blockage of the sediment filter, comparing the inlet flow rate with the outlet flow rate of the sediment cartridge.	Change the sediment filter.
	Partial blockage of the solenoid valve, comparing the inlet flow rate with the outlet flow rate of the solenoid valve.	Replace the solenoid valve
	The membrane is clogged	See item 8.
8. The membrane is clogged.	The equipment does not reject water	Replace the flow restrictor and diaphragm.
	The membrane is more than 3 years old	Replace the membrane.
	The TDS of the inlet water is above 1500 ppm.	Contact technical support.

WATER KEEPS COMING OUT OF THE DRAIN		
9. The fountain never stops pouring water down the drain.	Level switch does not respond to a full tank command (Check with a voltmeter).	Change the level switch.
	The inlet solenoid valve is stuck because it does not close when the power is turned off.	Replace the inlet solenoid valve.
WATER QUALITY IS NOT GOOD		
10. The water quality is not correct.	The rejection flow rate is much less than 0.5 liters per minute.	Replace the rejection flow restrictor.
	The membrane has reached the end of its useful life and no longer removes 90% of the salts from the inlet water.	Replace the membrane.
11. Water tastes bad.	The taste is like bitter, metallic or plastic and the TDS output is less than 25.	Replace the post-filter with a remineralizing cartridge.
	The source is contaminated.	Perform a complete sanitization of the source.
FOUNTAIN DOES NOT COOL OR TOO LITTLE COLD WATER COMES OUT		
12. Water does not come out cold.	The rear switch (COLD) is in the OFF position.	Press the switch to ON.
	The customer takes out bottles of cold water and empties the cold water tank.	The fountains are designed to draw water one glass at a time.
	The cooling system is damaged or the refrigerant gas has been lost.	Remove the source for workshop repair.
THE FOUNTAIN DOES NOT HEAT OR LITTLE HOT WATER COMES OUT		
13. Water does not come out hot.	The rear switch (HOT) is in the OFF position.	Press the switch to ON.
	The thermostat of the fluid reservoir is damaged.	Replace the hot reservoir thermostat.
	The resistor is damaged.	Change the resistor.

13. TECHNICAL CHARACTERISTICS

APPLICATION

ROP Model (Reverse Osmosis) F
Models (Filtration) UF Models
(Ultrafiltration)

Usage

Improved 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 Union).
European Community).

Modifications due to reduction or contribution

Model FC-825-ROP-UV

- Reverse osmosis water treatment is capable of reducing the concentration of salts and other substances by high percentages.
- Minimal reduction* of certain compounds and parameters:
 - Sodium - 90 %
 - Calcium - 90 %
 - Sulfate - 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.

Model FC-825-F-UV

- Water treatment by filtration retains suspended particles larger than 5 microns in diameter.
- The carbon filter reduces* the taste and odor of the water, as well as organic components
- (*) Depending on the characteristics of the water to be treated.

Model FC-825-UF-UV

- This equipment consists of a first filtration stage.
- Ultrafiltration water treatment is capable of retaining suspended particles with a diameter between 0.1 and 0.001 microns.
- (*) Depending on the characteristics of the water to be treated.

OPERATING LIMITS	ROP	UF	F
Pressure (max. / min.)	2.5 bar (250 kPa) 1 bar (100 kPa)	5 bar (500 kPa) 1 bar (100 kPa)	5 bar (500 kPa) 1 bar (100 kPa)
TDS (max.)	2000 ppm	-	-
Temperature (max. / min.)	40°C - 2°C	40°C - 2°C	40°C - 2°C
Hardness (max.)	15°HF**	-	-

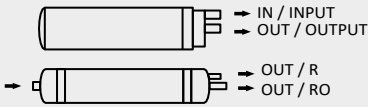
TECHNICAL DATA	ROP	F	UF
Type of control:	Level switch. Inlet solenoid valve. Cold water thermostat. Hot water thermostat.	Cold water thermostat. Hot water thermostat.	Cold water thermostat. Hot water thermostat.
Security system:	Safety thermal protector for hot water.	Safety thermal protector for hot water.	Safety thermal protector for hot water.
Input connection:	1/4"	1/4"	1/4"
Drainage connection:	1/4"	-	-
Wall adapter:	1/2"	1/2"	1/2"
Drain collar:	Pipe clamp for 40 mm drain	-	-
Germicidal system:	UV Led Lamp	UV Led Lamp	UV Led Lamp

TECHNICAL DATA

	ROP	F	UF
Treatment:	1 Prefilter Sediment 2 Carbon Prefilter 1 Membrane RO 80 GPD 1 Postfilter Carbon Ph	1 Prefilter Sediment 1 Carbon Prefilter	1 Prefilter Sediment 1 Carbon Prefilter 1 Ultrafiltration Cartridge

Pre- and post-filter connection:

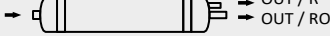
Inlet: ¼" stem
Outlet: ¼" stem



Membrane connection:

Inlet: ¼" stem
Outlet (RO): ¼" stem
Reject (R): ¼" stem

IN / INPUT



Dimensions:

Weight:

(A x B x C) 1180 x 380 x 455
30.5 kg

Total volume of tanks:

Cold water tank: 11 liters.
Hot water tank: 3 liters

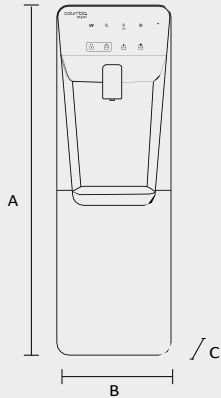
Inlet connection 1/4"
Drain connection 1/4"
Power supply 220 - 240 Vac

REFRIGERATION SYSTEM

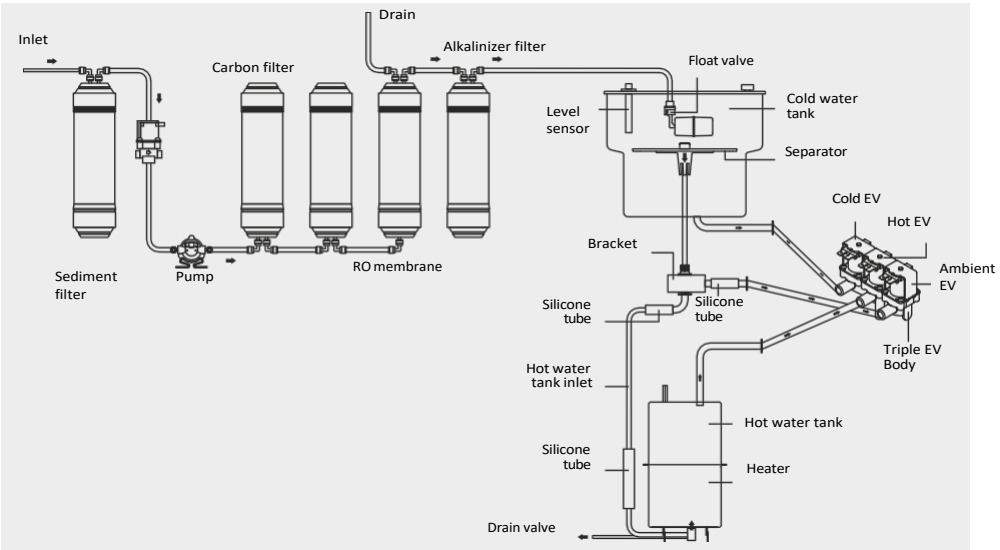
Compressor: 1/11 hp sealed
Compressor power: 150 W
Capillary
Condenser: R600a
Refrigerant gas: Temperature sensor
Temperature control:

HEATING EQUIPMENT

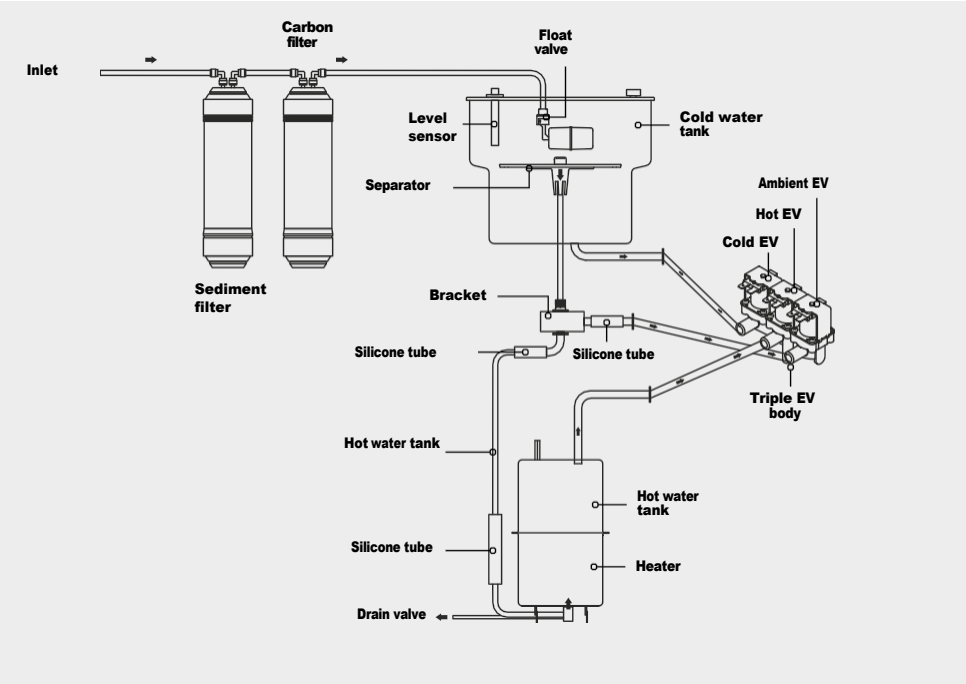
Heater: Electrical resistance
Heater power: 800 W
Temperature control: Bi-metal self-assembly
Overheating protection: Bi-metal self-assembly



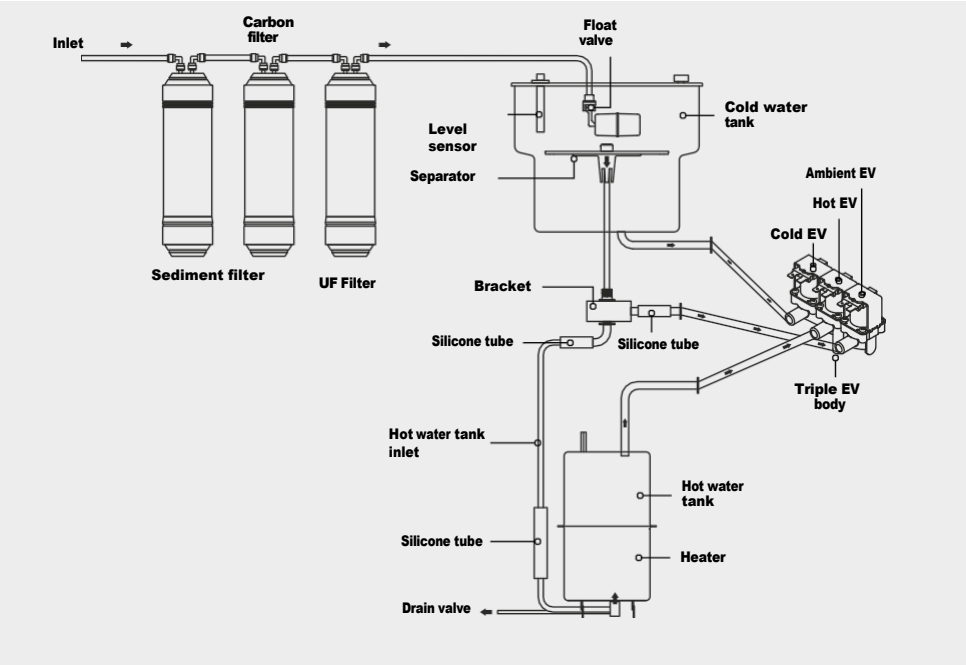
HYDRAULIC DIAGRAM MODEL ROP



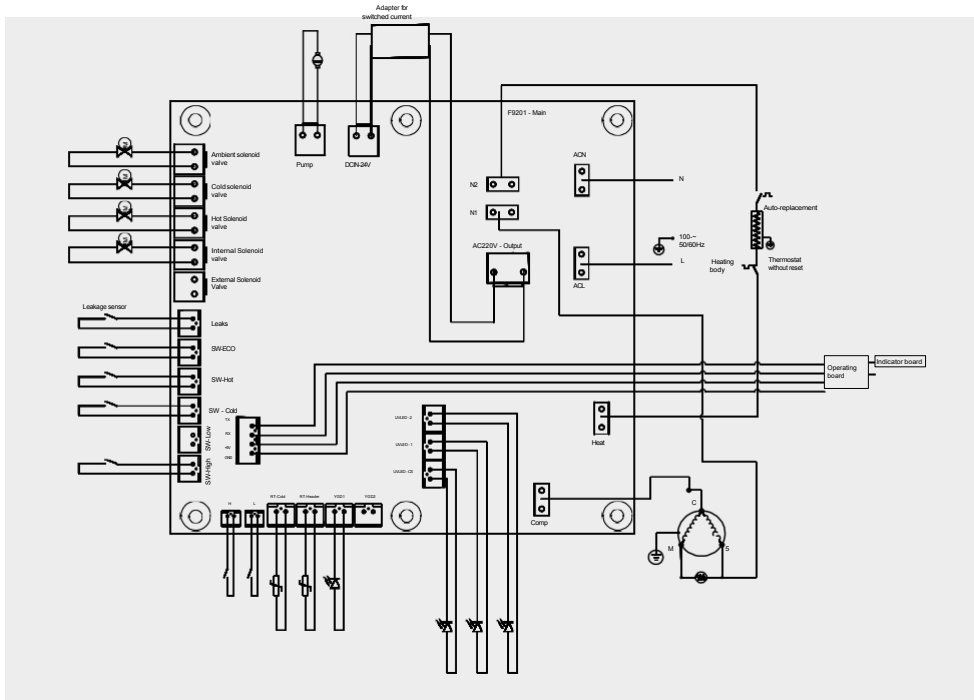
HYDRAULIC DIAGRAM MODEL F



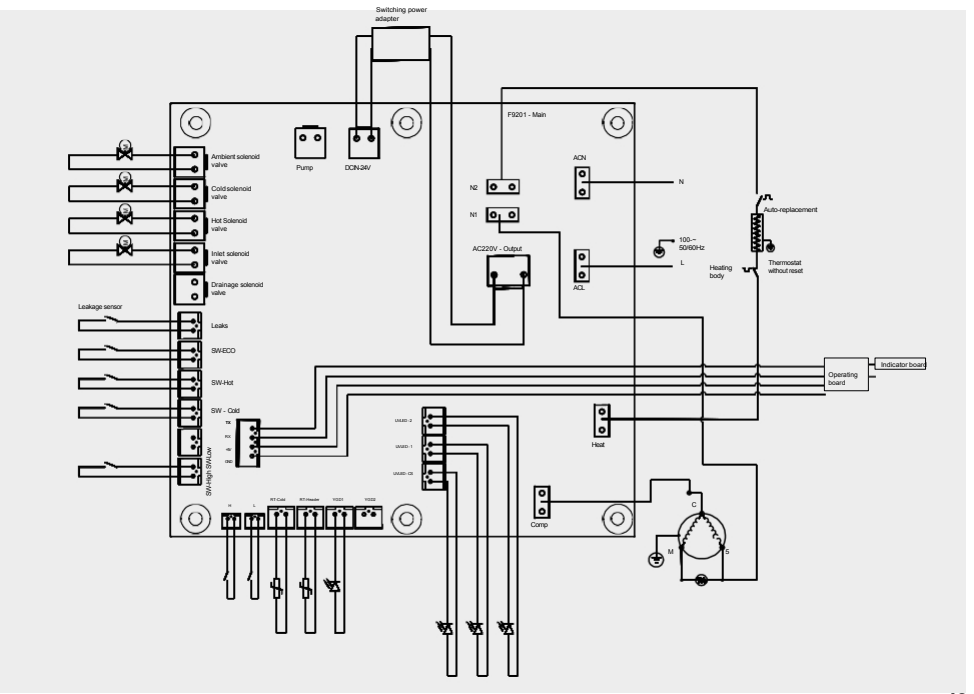
HYDRAULIC DIAGRAM MODEL UF



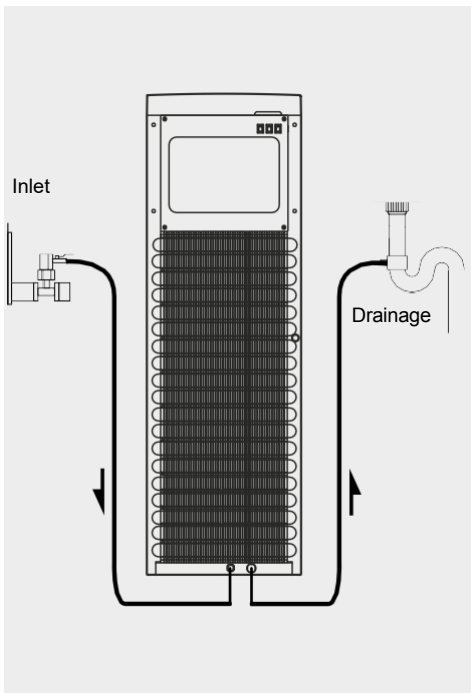
ELECTRONIC SCHEME MODEL RO



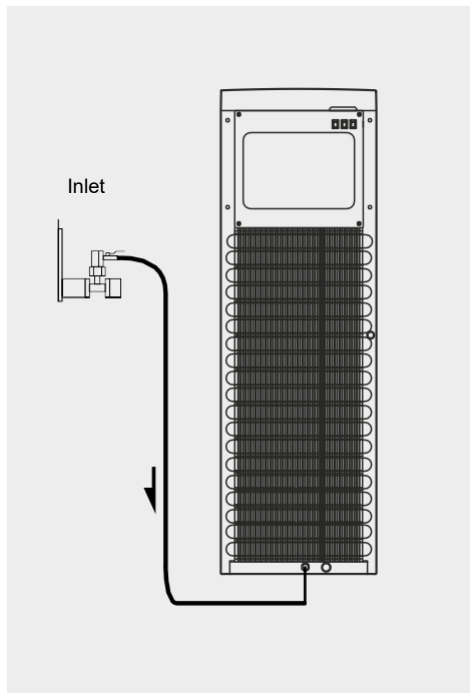
ELECTRONIC SCHEME MODEL F AND UF



MODEL RO

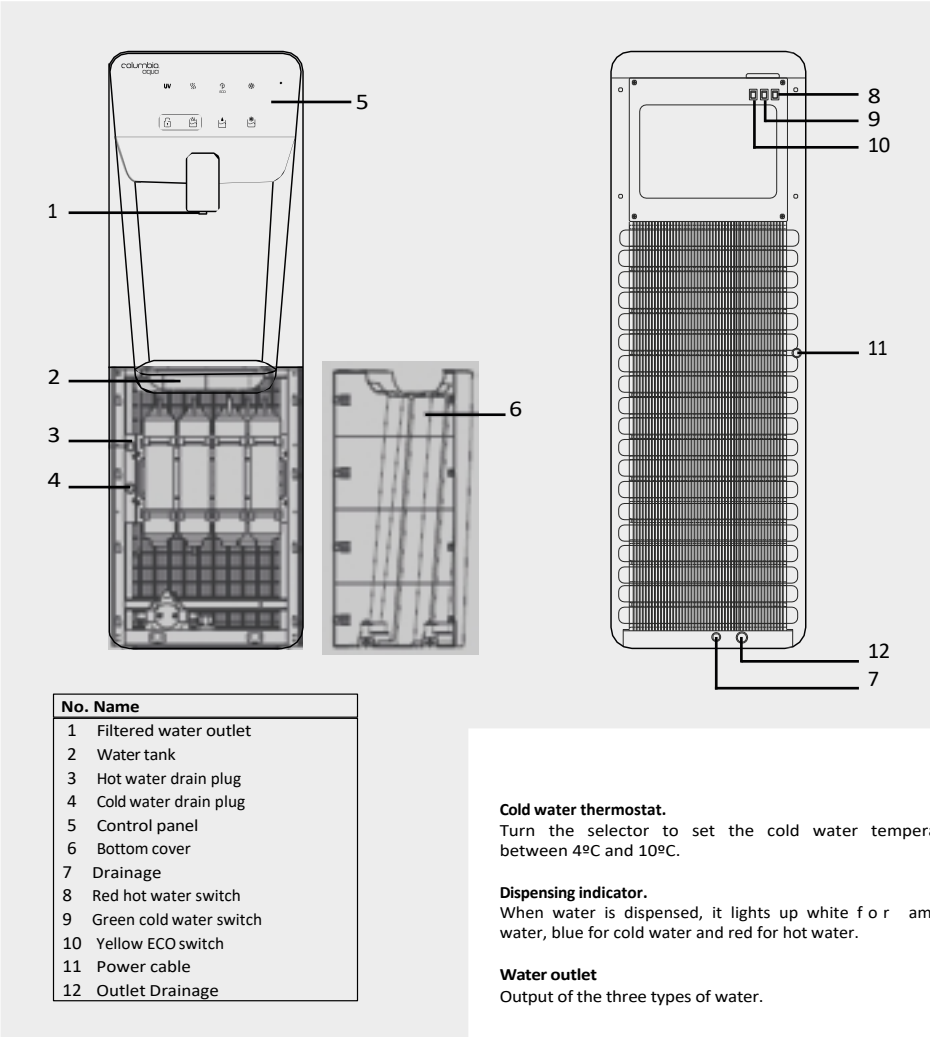


MODEL F/UF



Aiguafreda, 8
Pol. Ind. L'Ametlla Park. 08480,
L'Ametlla del Vallès. Barcelona -
Spain
+34 936 364 300

14. IDENTIFICATION OF MANAGEMENT AND CONTROL COMPONENTS



User panel

See chapter 16 User interface.

Cold water switch.

Activate this switch (ON) to start the chilled water system.

Hot water switch.

Activate this switch (ON) to start the hot water system.

ECO mode switch

Activate this switch (ON) to make the ECO mode active, and during the night to turn off the hot water system to save energy.

Cold water thermostat.

Turn the selector to set the cold water temperature between 4°C and 10°C.

Dispensing indicator.

When water is dispensed, it lights up white for ambient water, blue for cold water and red for hot water.

Water outlet

Output of the three types of water.

Drip tray

This tray should be emptied periodically or connected to a drain.

Drip tray outlet

Connection for emptying the drip pan to a drain, in case there is a drain nearby and at a lower height.

Water inlet

Connection of the water inlet pipe from the mains.

Rejection outlet

Connection of the rejection outlet pipe to drain, only for ROP models.

15. HOW TO EXTRACT WATER FROM THE DISPENSER

Extract cold water.

Press the cold water button, the dispense indicator will flash blue and water will be dispensed. Press the button again to stop dispensing. Press and hold the button for more than 3 seconds to dispense water, release the button to stop dispensing.

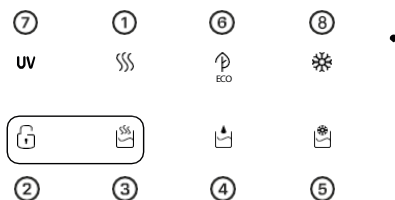
Extract ambient water.

Press the room water button, the dispense indicator will flash white and water will be dispensed. Press the button again to stop dispensing. Press and hold the button for more than 3 seconds to dispense water, release the button to stop dispensing.

Extract hot water.

Press the unlock button, then press the hot water button, the dispense indicator will flash red and dispense. Press the button again to stop dispensing. Press and hold the button for more than 3 seconds to dispense water, stop pressing to stop dispensing.

16. USER INTERFACE



Light sensor.

- 1** Hot water indicator
It turns on when hot water is dispensed.
- 2** Unlock button
To draw off hot water, press this button and then press the hot water button.
- 3** Hot water button
Illuminated in red. To draw off hot water, press this button after pressing the unlock button.
- 4** Ambient water button.
Illuminated in white. Press this button to draw water at room temperature.
- 5** Cold water button.
Illuminated in blue. Press this button to draw cold water.
- 6** ECO mode indicator
If lit, it indicates that the ECO mode is activated with the rear switch.
- 7** UV lamp indicator
If lit, it indicates that the UV lamp in the tank is on. The UV lamp lights up cyclically.



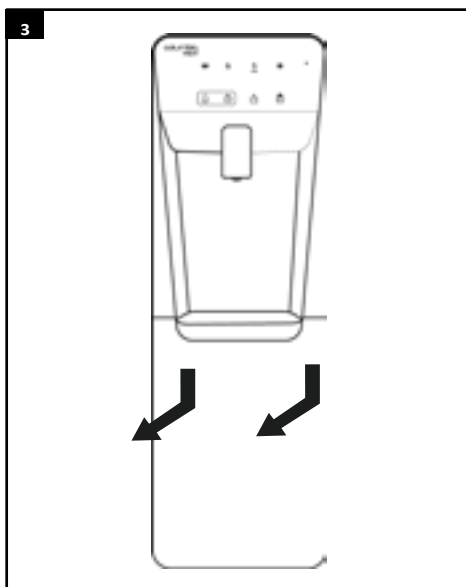
Cold water indicator

It turns on when cold water is being dispensed.

17. HOW TO ACCESS THE FILTERS

Pull the drip tray out of its location. Remove the visible screw that holds the lower front cover in place.

Grasp the lower front cover with both hands and pull it away from the unit while pulling it slightly downward.



18. USER MAINTENANCE

Empty the dispenser drip tray daily if it is not connected to a drain. To remove it, hold it by the sides and pull it upwards.

Periodically spray the water outlet nozzles of the faucets with hydrogen peroxide spray, let stand for a few minutes and draw a few glasses of water for rinsing.

19. WARRANTY

This equipment has a warranty period as established in the legislation in force.

- The warranty includes the repair and replacement of defective parts by personnel authorized by the distributor or by the official technical assistance service (T.A.S.) at the place of installation or at its workshops. The warranty includes labor 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 resulting from improper or inadequate use of the equipment according to the operating conditions and limits indicated by the manufacturer of the equipment. Likewise, the warranty loses effectiveness in cases of bad 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.
- Parts replaced under warranty remain the property of the distributor.
- 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 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 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 the improvement of 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 the lack of conformity derived from an incorrect application, installation or commissioning of the equipment.
- For any warranty claim it is necessary to present the purchase invoice. The 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 distributor.

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

- * Equipment pre-treatment:
- * Inlet hardness to the equipment (°F):
- * 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 guarantee its correct operation and the quality of the water produced. A maintenance contract is offered for this purpose.

*Maintenance Contract Ref:

ACCEPT the maintenance contract ☐

DO NOT ACCEPT the maintenance contract ☐

If you need information, report a fault or malfunction, request maintenance or the intervention of a technician, please read the operation, 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 from the INSTALLATION LOG sheet.

20. INSTALLATION LOG SHEET



NOTES TO THE TECHNICIAN/INSTALLER: read this manual carefully. In case of any 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 after-sales service and support.

The technician performing the installation and commissioning of the equipment must have the appropriate technical training.

DATA ON THE APPLICATION OF THE EQUIPMENT:

Origin of the water to be treated:

☐ PUBLIC SUPPLY NETWORK ☐ OTHER

☐ OTHER

* Pre-treatment of the equipment:

* Inlet hardness to the equipment (°F):

* TDS input to the equipment (ppm):

* TDS produced water (ppm):

* Inlet pressure to the equipment (bar):

CONTROL OF THE INSTALLATION STEPS:

Pre-filter installation:

Overflow installation:

Start-up according to protocol:

Inlet hardness measurement:

Output hardness measurement:

Installation of isolation by-pass:

Correct overflow installation:

Brine suction/reservoir filling check:

Check fittings:

Tightness of pressurized system:

Equipment programming:

Residual hardness adjustment:

COMMENTS

* Result of installation and commissioning:

☐ CORRECT (equipment installed and working properly. Water produced adequate for the application). ☐ OTHER:

☐ OTHER:

AUTHORIZED TECHNICIAN/INSTALLER IDENTIFICATION:

COMPANY AND/OR AUTHORIZED INSTALLER, DATE AND SIGNATURE:

CONFORMITY OF THE OWNER OF THE EQUIPMENT:

I have been clearly informed of the use, handling, and maintenance of the I have been offered a maintenance contract and informed of how to contact a Customer Service Center in case of requesting information, reporting a breakdown or malfunction, requesting maintenance, or requesting the intervention of a technician.

Comments:

*Maintenance Contract Ref:

ACCEPT the maintenance contract

DO NOT ACCEPT the maintenance contract

SERIAL NUMBER:

Model/Ref:

Owner:

Street:

Phone:

Population:

Province:

C.P.:

WARRANTY OF THE EQUIPMENT 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 therefore may not be passed on to the manufacturer at a later date.

21. MAINTENANCE SERVICE

DATE	TYPE OF SERVICE	NAME, SIGNATURE AND STAMP OF THE AUTHORIZED TECHNICIAN	
<div></div>	<div><input type="radio"/> START-UP</div>		
<div></div>	<div><input type="radio"/> FULL MAINTENANCE</div>	<div>TECHNICIAN</div> <div></div>	<div><input type="radio"/> ORDINARY</div> <div><input type="radio"/> EXTRAORDINARY</div> <div><input type="radio"/> WARRANTY</div>
<div></div>	<div><input type="radio"/> PREPARATION</div>	<div>SEAL</div> <div></div>	
<div></div>	<div><input type="radio"/> HYGIENIZATION</div>		
<div></div>	<div><input type="radio"/> OTHER</div>		
<div></div>	<div><input type="radio"/> FULL MAINTENANCE</div>	<div>TECHNICIAN</div> <div></div>	<div><input type="radio"/> ORDINARY</div> <div><input type="radio"/> EXTRAORDINARY</div> <div><input type="radio"/> WARRANTY</div>
<div></div>	<div><input type="radio"/> PREPARATION</div>	<div>SEAL</div> <div></div>	
<div></div>	<div><input type="radio"/> HYGIENIZATION</div>		
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<div></div>	<div><input type="radio"/> HYGIENIZATION</div>		
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<div></div>	<div><input type="radio"/> OTHER</div>		

MAINTENANCE SERVICE

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