

columbia.  
aqua FC-510

**TECHNICAL/USER MANUAL  
AND SERVICE BOOK**



# USER MANUAL

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# TECHNICAL MANUAL

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**This appliance is intended to be used in domestic and similar applications.**

- Personal kitchen areas in stores, offices and other work environments.
- Rural lodgings and by clients in hotels, motels and other residential type environments.
- Bed and breakfast type environments.
- Restaurant services and similar non-retail applications.

More technical information at:

[www.wtreatmentresources.com/256JGSP6JTQ.html](http://www.wtreatmentresources.com/256JGSP6JTQ.html)



# TECHNICAL SHEET FC-510

## 0. MAIN CHARACTERISTICS

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**DIRECT ACCESS**  
EASE OF ACCESS AND MAINTENANCE



**VENTILATION SYSTEM**  
FORCED VENTILATION SYSTEM



**BAYONET FILTERS**  
EQUIPPED WITH BAYONET FILTERS WITH QUICK CONNECTORS



**DOSAGE**  
EXTRACTS PREPROGRAMMED QUANTITIES



**CLICK**  
FAST CONNECTIONS AND MAXIMUM SECURITY



**COLD**  
PRODUCTION OF COLD WATER



**ANTIBACTERIA**  
SELF-STERILIZING NOZZLE WITH UV LED LAMP



**HOT**  
WATER PRODUCTION



**SAFE**  
SECURITY SYSTEM FOR HOT WATER



**AMBIENT**  
WATER PRODUCTION AT AMBIENT TEMPERATURE



**NANOFACT**  
EQUIPMENT WITH NANOFACT FILTRATION SYSTEM



**ENERGY SAVE**  
ENERGY SAVING SYSTEM. A BRIGHTNESS SENSOR LEAVES PART OF THE DISPENSER ON STANDBY DURING THE NIGHT TO REDUCE POWER CONSUMPTION.



**SLIM DESIGN**  
PLACE THE EQUIPMENT IN ANY LOCATION. 18 CM WIDE



**FILTER CONTROL**  
AUTOMATIC WARNING OF OPERATION



**LED**  
INFORMATION SYSTEM  
MULTIFUNCTION BY LED



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

## SECURITY INSTRUCTIONS

Below are safety warnings and instructions to prevent injury to the user and to prevent material damage to the user's environment. However, it is important to take the necessary precautions and proceed with care during the installation, maintenance, cleaning and handling of the appliance.

### Children/adults/pets

- The device may not be used by children under 8 years of age or by people with reduced physical, sensory or mental capacity, as well as by people without experience or knowledge unless they are supervised or receive instructions on how to use the device safely and have understood the potential risks of using it.
- Children must not play with this appliance.
- Do not allow children to clean or maintain the appliance without supervision.

### Warning. Choking Hazard!

Do not allow children to play with the packaging/plastic or with parts of the packaging, as they could become entangled or cover their heads with them and suffocate.

Keep packaging, plastic and packaging parts out of the reach of children.

### Mounting. Warning

Risk of electric shock/fire/material damage/damage to the device!

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

- The mains voltage in the socket must correspond to the voltage rating specified on the device (nameplate).
- The mains plug and the socket with a protective contact must match and the grounding system must be correctly installed.
- The installation must have a suitable cross section.

The mains plug must remain accessible at all times. If this is not possible, in order to comply with the relevant safety regulations, a switch (double pole switch) must be permanently integrated into the installation, according to the regulations on electrical installations.

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

The mains cable must not be bent, crushed or modified, nor must it come into contact with sources of heat.

The use of extension cords or power strips could cause a fire due to excessive heating or a short circuit. Connect the appliance directly to a properly installed socket with earth connection. Do not use extension cords, power strips or multiple connectors.

**Warning. Risk of injury!**

- The appliance is very heavy. Lifting the unit could cause injuries. Always lift the appliance with help.
- If the tubes and mains cables are not routed correctly, there is a risk of a disconnection, which could cause injury. Route tubes and cables in such a way that there is no risk of disconnection.

**Attention!. Danger of material damage/damage to the device**

- If the water pressure is too high or too low, the appliance may not work properly. In addition, material damage or damage to the device could occur. Make sure that the water pressure in the water supply installation is at least 100 kPa (1 bar) and does not exceed 500 kPa (5 bars).
- If the water tubes are modified or damaged, they may cause material damage or damage to the device. The water pipes

must not be bent, crushed, modified or cut.

The use of tubes distributed by other brands to connect the water supply could cause material damage or damage to the appliance. Use only the tubes supplied with the device or original replacement tubes.

**Cleaning/maintenance Warning. Death risk!**

The device works with electricity. There is a risk of electric shock if live components are touched. Therefore, take into account:

- Switch off the device. Disconnect the appliance from the mains (disconnect the 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 it could be damaged.
- Do not make technical modifications to the device or its components. Any repair or other type of work that the appliance requires must be carried out by our technical service or by an electrician. The same applies to replacing the mains cable (if necessary).
- Replacement mains cables can be ordered by contacting our technical service.

## 1. UNPACKED

Before installation and start-up, it is important to check the packaging 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.

They can be a danger 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 at the local waste material recovery centre.

This product cannot be disposed of with the usual urban waste. When the equipment has reached the end



of its useful life, it should be handed over to the company or centre where the equipment was purchased, or to a recycling point or specific local centre for the recovery of materials, indicating that it has electrical and electronic components and refrigerant gas.

The correct collection and treatment of unserviceable equipment,

contributes to

preserve natural resources and also to avoid potential risks to public health.

## 2. INTRODUCTION

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

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

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 COLUMBIA AQUA FC-590 FOUNTAIN TREATMENTS

Depending on the model, Columbia dispensers are available with different types of water treatment: micro carbon and NANOFAC filtration.

### 3.1 What is micro carbon?

Micro carbon filtration is the process of separating suspended solids in water through a porous medium, also called a filter. Water passes through the pores of the filter, but particles larger than the filter pores are retained.

*Data sheet*

in it, resulting in clearer water. Columbia dispensers incorporate 5µm filters.

Micro carbon is used to remove chlorine from water, as well as to improve taste, odour and remove some organic compounds due to its high adsorbent capacity.

### 3.2 What is Nano Fact filtration?

Fibrillated Adsorbent Cellulose Technology (FACT). The FACT® material is a paper-like compound consisting of fibrillated nano- fibres in combination with different adsorbent particle materials. The resulting structure shows a small pore size combined with a large pore area and extremely fast kinetics for adsorption and reaction. This makes it possible to retain microorganisms, viruses, bacteria and impurities down to a diameter of 0.2 microns.

## 4. PRIOR WARNINGS

- 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 subjected to excessive shock or impact. 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 cooling circuit, with possible refrigerant gas leakage, could create explosion hazards 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 appliance must be transported without damaging the re-cooling circuit.

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



**Attention:** Read carefully and keep this manual before installing and starting up the equipment. If you have any doubts about the installation, please read this manual carefully and keep it in a safe place before installing and starting up the equipment.

If you have any questions about the installation, use or maintenance of this equipment, please contact your distributor's Technical Assistance Service (T.A.S.).



**Attention:** These equipments ARE NOT POTABILIZERS of water. In case the water to be treated comes from a public water supply (and therefore complies with the current legislation), these equipments can be used to treat the water.

The quality of the water will be substantially improved. Otherwise, a physical-chemical and bacteriological analysis of the water will be necessary, in order to ensure its correct potabilization by applying the appropriate



te techniques and equipment for each need, PRIOR TO INSTALLATION of the equipment. Please contact your distributor so that they can provide you with advise on the most appropriate treatment for your case.

- 4.1 Conditions for correct operation of the equipment
- The equipment should not be supplied with hot water (T>40°C).
  - The ambient temperature should be between 4° and 45°C.
  - For water with salinity higher than 500 ppm, please contact your distributor to recommend the most appropriate pre-treatment 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 case of having to condition the installation of the home or business in order to be able to install the equipment in the planned location, this must be done in accordance with national standards for interior installations of water and electrical supplies.
  - COLUMBIA equipment requires an electrical outlet.
  - 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 outdoors.

**! Caution: The unit must not be connected to the power supply directly, it must be left to stand for the desired installation time. This is very important to ensure correct operation of the system, otherwise the compressor may be damaged. The manufacturer will not be liable for any damage to the equipment in this case**

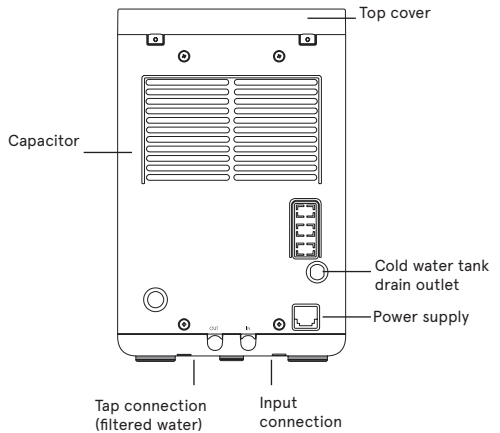
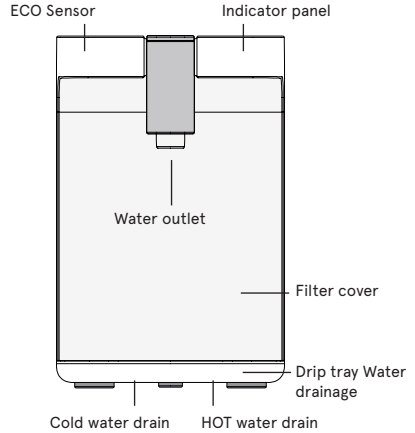
- 4.3. Warnings on the use of the equipment
- When you are going to be away for more than a week, close the water inlet tap to the unit, empty it and disconnect it from the power supply. When you return, turn on the power supply, open the water inlet tap and empty the storage tank twice before using water.

**! Caution: After a prolonged period (more than one month) in which the equipment has been out of service or not filtering water, contact your distributor in order to perform a sanitization and adequate maintenance.**

**! Caution: Special attention must be paid to the cleaning and hygiene of the dispenser nozzles on a regular basis and especially in the case of the time of periodic maintenance and sanitization. For this purpose, use the sanitizing spray and single-use absorbent paper (see chapter Sanitizing).**

## 5. OPERATION OF THE EQUIPMENT

### 5.1 identification of main parts



### 5.2 Basic system operation

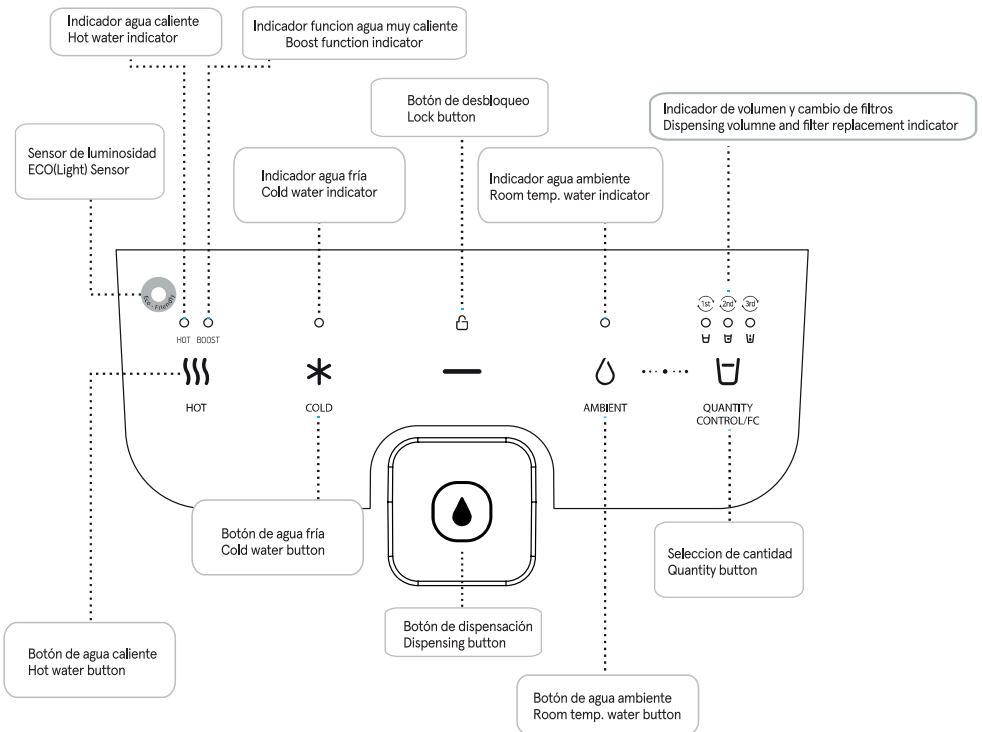
In the "Filtration" models, the mains water to be treated enters the equipment through the turbidity filter and carbon filter. In this filtration stage, suspended particles, chlorine, its derivatives and other organic substances are retained, the water then passes through the NANOFACT filter where the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

The water then passes through the carbon block post-filter where it improves the taste of the water by removing the gaseous components in the water.

When water is demanded by pressing the top dispensers of the equipment, the water accumulated in the cold water tank or cooling coil flows to the outlet nozzles.

### 5.3 Control panel

The water then passes through the Block carbon post-filter where it improves the taste of the water by removing gaseous compounds in the water.



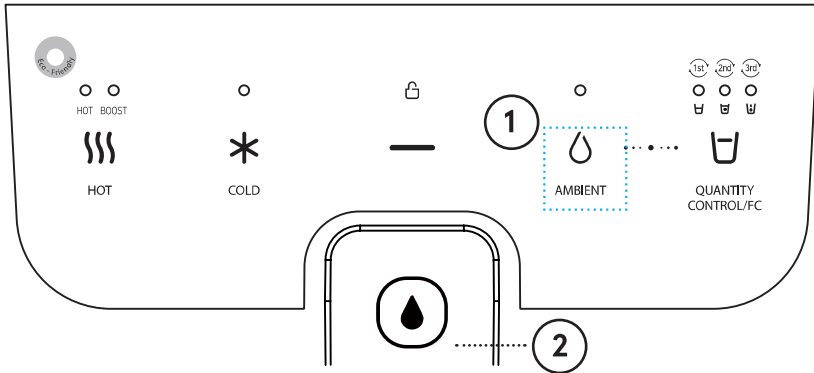
## 5.4 How to extract water from the equipment

### Extract ambient water.

- 1) Touch the "AMBIENT" button to select the ambient water mode. (There is no need to touch the ambient water button if ambient water is set as the default setting).
- 2) Touch the "dispense button" to dispense room temperature water. While dispensing water, the dispensing indicator flashes.

If the dose has not been selected, 120 ml of water will be dispensed by touching the "dispense button" once.

- 3) If you touch and hold the "dispensing button", the dispensing indicator flashes white and ambient water comes out while you keep touching the "dispensing button" up to 1500 ml.



### Extract cold water.

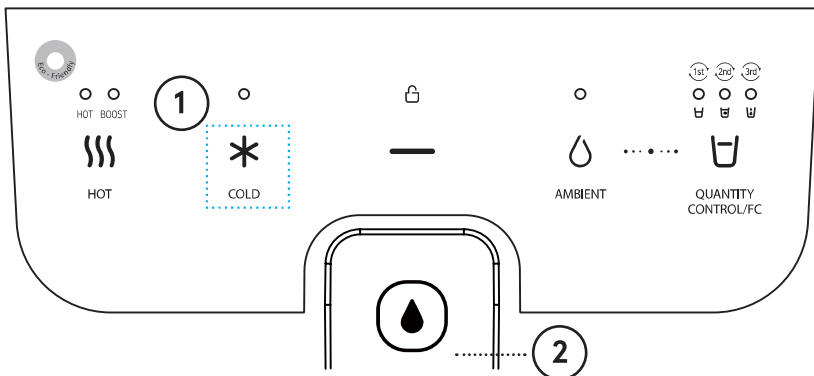
- 1) Touch the COLD button for 3 seconds to activate the cold water function. If the cold water function is active, the indicator will be lit. Before activating the cold water function, let the water flow by touching the cold water button without activating it to remove air from the circuit. At start-up, it takes 1 hour to reach the temperature for dispensing cold water after activating the function.

- 3) After touching the COLD button, if you touch the "dispense button" within 5 seconds, cold water will come out and the dispense indicator will flash blue.

If the dose has not been selected, 120 ml of water will be dispensed by touching the "dispense button" once.

- 4) Cold water will also be dispensed while touching and holding

- 2) Touch the COLD button to select cold water mode. The dispensing indicator will change to blue.



## 5.6 How to select the amount of water to be dispensed

### Extract hot water.

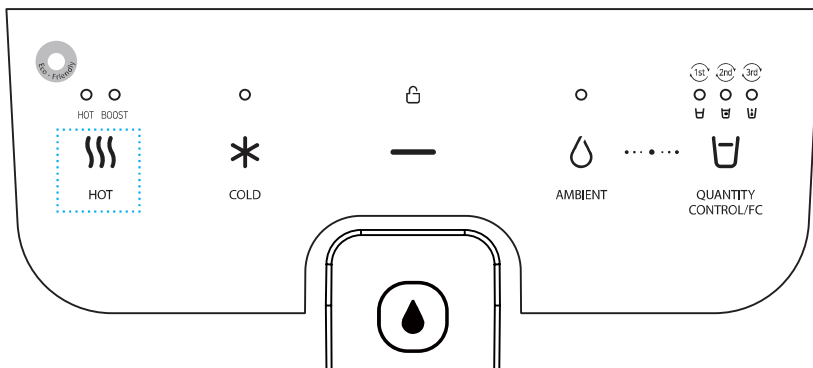
1) Touch the HOT button for 3 seconds to activate the hot water function. If the hot water function is activated, the hot water indicator will be on. Before activating the hot water function, let the water run by touching the cold water button without activating it to remove air from the circuit.

2) Touch the HOT button to select the hot water mode. The dispensing indicator will change to red.

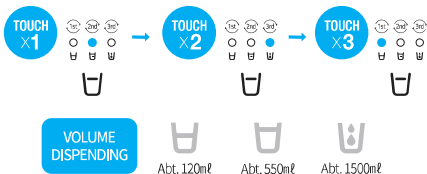
3) After touching the HOT button, if you touch the "dispense button" within 5 seconds, hot water will come out and the dispense indicator will flash red.

If the dose has not been selected, 120 ml of water will be dispensed by touching the "dispense button" once.

Use caution when dispensing hot water to avoid scalding.



## 5.5 How to select the dispensing dose.



Touch the QUANTITY CONTROL button to select the desired dose. If no dose is selected, 120 ml will be dispensed by default.

By touching the QUANTITY CONTROL button once, 550 ml will be dispensed.

By touching the QUANTITY CONTROL button twice, 1500 ml will be dispensed.

By touching the QUANTITY CONTROL button 3 times, 120 ml will be dispensed.

Once the extraction is finished, it returns to the default dose (120 ml). While a dose is being dispensed, you can stop the extraction by touching the "dispense button" again.

## 5.6 How to use the BOOST function.

It is an additional heating device, this function heats the water up to 95°C in 1 minute. The usual hot water temperature without the BOOST function is 85°C.

1) Touch the hot water button 2 times continuously. The additional heating will be active with the BOOST indicator flashing and a "beep" will sound. Once the temperature of 95°C is reached, the heating process is automatically terminated and the BOOST indicator remains illuminated.

It takes approximately 1 minute to complete the additional heating process.

The time may vary depending on the initial temperature.

The BOOST function is deactivated after each use, and needs to be reactivated when required. When the BOOST function is active, it can be deactivated by touching the water button twice.

2) If hot water is selected after the BOOST function has been used, water may be dispensed at a higher temperature (95°C) than usual (85°C).

Be careful when dispensing hot water to avoid burns.

### 5.7 Additional functions.

#### Lock mode

The lock mode is to protect the children from any problems in case of careless use. When the lock mode is activated, no button works.

→ To activate the lock mode, touch and hold the lock button for 5 seconds. To deactivate the lock mode, touch and hold the lock button for 5 seconds.

→ When the lock mode is activated, the lock icon lights up and a “beep” sounds.



#### ECO mode

The ECO function helps to save energy with a light sensor of the equipment's environment.

When the lighting dims at night, the unit automatically stops heating and cooling and lowers the brightness of the control panel light.

→ To activate the ECO mode, touch and hold the QUANTITY button for more than 5 seconds.

Then, it will be activated after the dispensing indicator flashes blue 3 times and the “beep” sounds 2 times.

→ To deactivate the ECO mode, touch and hold the QUANTITY button for more than 5 seconds.

Then, it will be activated after the dispensing indicator flashes white 3 times and the “beep” sounds 3 times.



Regardless of the ECO mode, the brightness of the control panel light will be lowered when darkness is detected in the equipment environment, to avoid glare.

#### Activate/deactivate sound

By touching the lock button, the sound can be turned on and off. Touch the lock button 3 times in a row to deactivate the sound, and if you touch the lock button 3 times in a row again, the sound will be activated.



#### Change of default water dispensing setting.

The most frequently used water type can be set as the default dispensing mode for more convenient use.

By touching the AMBIENTE button for 5 seconds, you can change the default setting of the dispensing mode.

→ To set the default cold water.

Touch the ENVIRONMENT button for more than 5 seconds.

Then, the cold water button flashes 2 times with a “beep” sound 2 times, and the cold water will have been set by default.

→ To set the default ambient water.

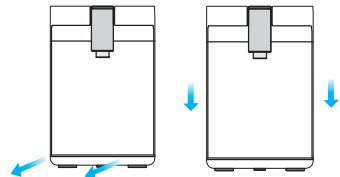
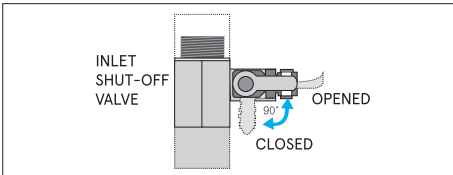
Touch the ENVIRONMENT button for more than 5 seconds.

→ Then, the room water button flashes 2 times with a “beep” sound 2 times, and the room water will be set to default.



## 6. HOW TO ACCESS THE FILTERS

Before changing the filters, close the inlet valve and depressurize the circuit by touching the DISPENSING icon. Unplug the equipment from the power supply.



Open the inlet valve and plug in the equipment to the electrical supply. Rinse the filters by running more than 10 liters of water at room temperature.

Pull the drip tray to remove it. Remove the front cover by pulling it down slightly and then tilting the top outwards.

Tilt the filter by pulling it out at the bottom.

Remove the filter by turning it clockwise. Remove the protective cap from the new filter and insert it into the head by turning it counterclockwise.



# 1. TECHNICAL CHARACTERISTICS

## APPLICATION

NANOFACT® Filtration

### Usage

Improvement of drinking water characteristics (complying with the requirements of the European Drinking Water Directive DWD 2020/2184 or its national transpositions in the different member states of the European Community).

### Modifications due to reduction or contribution

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

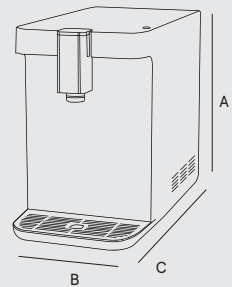
## OPERATING LIMITS

Pressure (max. / min.)	3 bar (300 kPa) 1 bar (100 kPa)
Temperature (max. / min.)	40°C - 2°C

## TECHNICAL DATA

Control type:	Cold water thermostat. 1/4"
Inlet connection:	1/4"
Drain connection:	1/2"
Wall adapter:	-
Drain saddle:	1 Micro carbon pre-filter
Treatment:	1 NANOFACT pre-filter 1 Carbon postfilter

Connection  
filters Inlet: bayonet



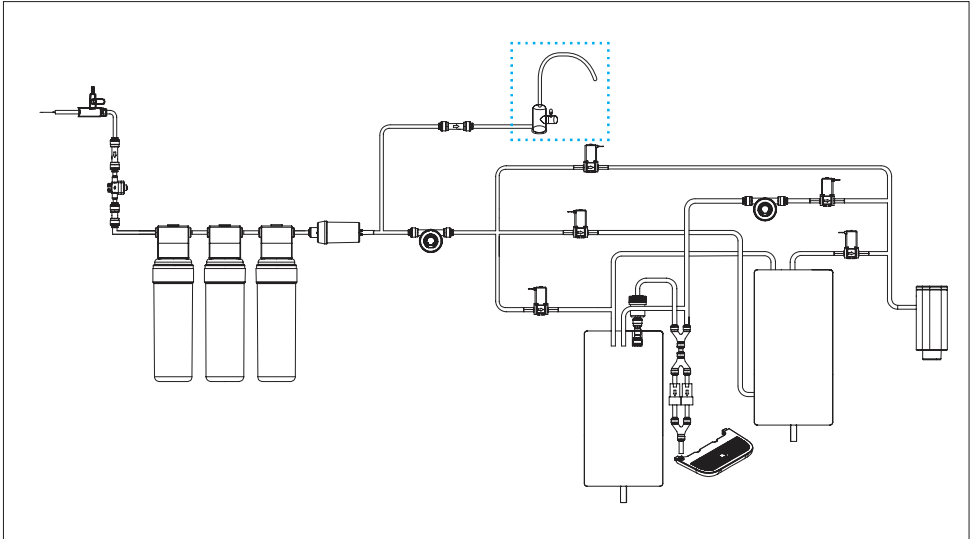
Dimensions:	373 x 240 x 485 (A x B x C)
Weight:	13.5 Kg
Power supply:	220 - 240 VAC 50/60 Hz
Total volume of deposits	Cold water 2.5

## TECHNICAL DATA

### REFRIGERATION SYSTEM

Compressor:	Sealed
Compressor power:	70 W
Refrigerant gas:	R600a (22g)
Temperature control:	Temperature probe

## HYDRAULIC DIAGRAM



## 2. INSTALLATION

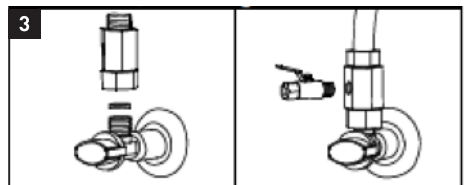
The installation of your Columbia Dispenser should be carried out by sufficiently qualified personnel. Consult your dealer if in doubt.

**!** **Caution:** Since the device to be installed improves the quality of the water to be consumed, all the tools to be used for assembly and installation must be clean and must not be contaminated or impregnated with grease, oil or oxides. Use tools exclusively for the cutting of pipes, etc.

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

**!** **Caution:** Avoid risks of external contamination of equipment due to improper handling. The use of gloves, hand sanitizing gel or washing hands as often as necessary throughout the installation, commissioning and maintenance of the equipment.

Install the inlet tap adapter (3) and connect the 1/4" supply tubing from the inlet valve to the IN (inlet) fitting on the rear-bottom of the unit. Use appropriate tools and sealants to ensure the tightness of the connections. Before connecting the equipment to the power supply, make sure that the equipment has been at rest for at least 2 hours to avoid damage to the refrigeration system.



It is necessary to remove the granulated carbon dust from the filters that is generated during transport and handling of the equipment and the corresponding cartridges.

Hydraulically feed the equipment (by opening the tap until the water runs clear. (see chapter 5.4 HOW TO REMOVE WATER FROM EQUIPMENT).

### 3. CLEANING AND MAINTENANCE

#### 3.1 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.

#### 3.2 WATER TREATMENT MAINTENANCE

**!** **Caution:** Some components of your equipment, such as pre-filters, are consumables that can be used in the production process. 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. 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.

**!** **Caution:** In order to ensure the quality of the water supplied by your equipment, you must perform periodic maintenance.

Recommended maintenance
Pre-filter sediment: At least every 6 months*.
NANOFACT carbon pre-filter: At least every 12 months*.
Sanitization: At start-up. At least every 12 months depending on use. Each time access to water-contacting components of the equipment 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 should be carried out by trained personnel, who should handle the equipment properly and use original spare parts to maintain the characteristics, warranty, certifications and performance of the equipment and thus preserve the quality of the water dispensed.

**!** **Caution:** Use of non-original spare parts, installation outside the operating limits.

The use of the equipment in the event of improper start-up, commissioning, maintenance or use may result in the loss of the warranty, as well as the invalidation of the certifications to which the equipment has been subjected.

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

**!** **Attention:** All consumables are delivered in individual packaging specially designed to guarantee the hygienic conditions of the consumables during storage and transport.

Take hygienic precautions after removing the consumables from their packaging and during the handling of the various connectors and components.

**!** **Caution:** Before disassembling the equipment, make sure you have all the materials you will need to carry out 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 in the technical characteristics the necessary filters 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 faucet, disconnect it electrically. Contact your service technician.

#### 4. SANITIZATION PROCEDURE

Material required:

- Manual valve.
- Dosing housing with connectors.
- Sanitizing cleaner for water treatment equipment.
- Single-use latex gloves.
- Hydrogen peroxide detector strips.
- Sanitizing spray.
- Paper towels.

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

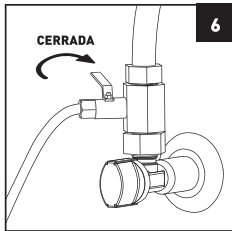
To do so, follow the steps below:

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



- Keep the inlet valve closed (6) and depressurize the tank or cooling coil by touching the DISPENSING icon.

- Sanitization should be carried out with new pre-filters that have been properly pre-installed and the carbon dust properly removed from the pre-filters.



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

- Insert the dosing housing into the inlet pipe of the equipment.

To this end:

- Disconnect the inlet pipe to the unit marked "IN", and insert the dosing housing between the inlet valve and the water inlet of the unit (8). For convenience and ease of access during sanitizing and opening and closing operations of the inlet valve, if the valve is inaccessible or at a great distance from the unit, a manual valve in closed position can be inserted together with the sanitizing dosing housing, which will perform the same functions as the unit's inlet valve.

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

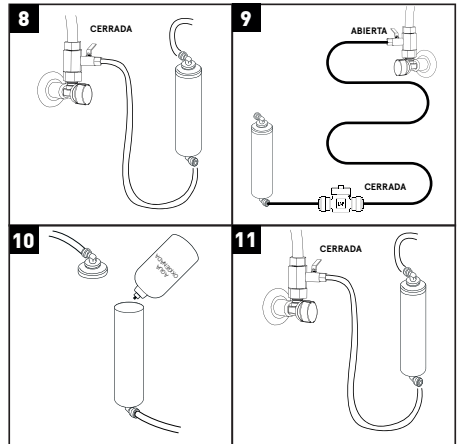
- Pour 50 ml of sanitizing product into the dosing housing inserted in the inlet of the unit (10). Screw the housing correctly to its cap.

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

- Open the water inlet valve to the equipment, allowing the sanitizing product to flow into the equipment. Keep the inlet valve in this position and draw a glass of water from each dispenser, in order to fill the entire hydraulic circuit with the sanitizing solution.

- Close the inlet valve (11) and let the filters be soaked with the sanitizing solution and stand for 20 minutes. In the meantime proceed to sanitize dispensers using sanitizing spray and paper towels.

- Depressurize the circuit by opening the dispensing tap. Empty the dosing housing. Before opening it, have a container within reach where you can empty it, as it may be full of water.



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

- Open the inlet valve and draw 5 liters of water from each dispenser in order to rinse the sanitizing solution circuit.

- Use the sanitizing product detector strips to verify that the equipment is properly flushed, make the necessary rinses in

#### 4. TROUBLESHOOTING

THE TANK DOES NOT FILL AT ALL		
Problem	Reason	Solution
No water in the fountain	The inlet valve is closed	Open the valve.
	No water supply	Problem unrelated to the unit.
	Blockage in the feed pipe to the unit	Replace the feeding tube.
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.
	TDS of inlet water is above 1500 ppm	Contact technical support.
Water tastes bad	The supply water does not comply with current legislation.	Install the equipment to mains water that complies with current legislation.
	The unit is contaminated	Perform a complete sanitization of the unit.
Water does not come out cold.	The rear cooling switch is in the OFF position	Set the thermostat to a value other than OFF.
	Customer takes out bottles of cold water and empties the cold water reservoir	The dispensers are designed to draw water one glass at a time.
	The cooling system is damaged or the refrigerant gas has been lost.	Contact technical service.

## 5. 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. Labor and shipping costs that may be incurred are included in the warranty.

- 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 equipment manufacturer. Likewise, the warranty loses effectiveness in cases of improper handling and use of the equipment or in those cases in which they have been modified or repaired by personnel outside the distribution company or official S.A.T.

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

- The distributor is responsible for the lack of conformity of the equipment when this refers to the origin, identity or suitability of the products, according to 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 as indicated by the manufacturer 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 presents any problem, please contact your distributor.

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

\* Pre-treatment of the equipment:

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

\* TDS input to the equipment (ppm):

\* TDS produced water (ppm):

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

\*Result of the installation and commissioning sheet:

Correct:

Others:

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

\*Ref: Maintenance contract:

ACCEPTS the maintenance contract

DOES NOT ACCEPT the maintenance contract

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

COMPANY AND/OR AUTHORIZED INSTALLER, DATE AND SIGNATURE:

SERIAL NUMBER:

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

## 6. INSTALLATION REGISTER SHEET



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

### INFORMATION ON THE USE OF THE EQUIPMENT:

Origin of the water to be treated:

PUBLIC SUPPLY NETWORK

OTHER \_\_\_\_\_

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

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

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

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

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

### INSTALLATION STEP CONTROL:

Pre-filter assembly: \_\_\_\_\_

Overflow installation: \_\_\_\_\_

Start-up according to protocol: \_\_\_\_\_

Checking of fittings: \_\_\_\_\_

Measurement of inlet hardness: \_\_\_\_\_

Output hardness measurement: \_\_\_\_\_

Installation of isolation by-pass: \_\_\_\_\_

Correct drainage installation: \_\_\_\_\_

Brine suction test/tank filling: \_\_\_\_\_

Leakage of the pressurised system: \_\_\_\_\_

Programming of the equipment: \_\_\_\_\_

Adjustment of residual hardness: \_\_\_\_\_

### COMMENTS

\* Result of installation and commissioning:

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

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

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

COMPANY AND/OR AUTHORIZED INSTALLER, DATE AND SIGNATURE:

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

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

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

ACCEPTS the maintenance contract

DOES NOT ACCEPT the maintenance contract

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

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

Street \_\_\_\_\_

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

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

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

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

SERIAL NUMBER

### EQUIPMENT WARRANTY DIRECTED TO THE DISTRIBUTOR:

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

## 7. MAINTENANCE SERVICE

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