



  
miawa

(ES) Manual de instrucciones

(EN) Operating Instructions

(FR) Notice d'emploi

(DE) Bedienungsanleitung

(IT) Manuale di istruzioni

(PT) Manual de instruções

# Index

---

1. Safety considerations.....	3
2. Features.....	6
3. Parts of the equipment.....	8
4. Installation accessories .....	9
5. Especificaciones técnicas.....	9
6. Main functions .....	10
7. Hydraulic diagram.....	11
8. Pilot lights and alarms.....	12
9. Installation.....	13
10. Use of the equipment .....	14
11. Maintenance .....	15
12. Steps for replacing the filters.....	16
13. Troubleshooting.....	17

# 1. Safety considerations

Read and follow all the steps carefully before installing and using your equipment. **Failure to follow these safety precautions may pose a hazard.**



**Warnings:** if you do not heed the content of this section, this could cause permanent damage to the MIAWA equipment or serious injury.



**Notes:** if you do not heed the content of this section, this could cause damage to certain parts of the MIAWA equipment or injury to others.

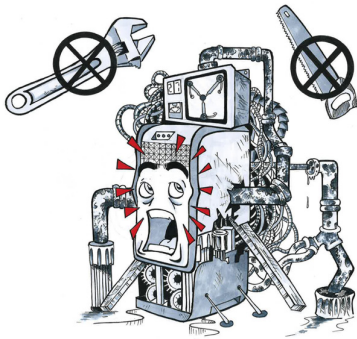


## Warnings

- The equipment does not include a pressure regulator. Installing one is recommended if your mains pressure is greater than 4 bars.
- Minimum inlet pressure of 2 bars is recommended for the model without pump.
- If your inlet pressure is below 2 bars, the model with pump is recommended.
- The model with pump requires minimum inlet pressure of 0.5 bars.
- Before connecting the mains power, you must connect the water supply and make sure there are no leaks.

### Do not disassemble or modify this equipment yourself!

Manipulate the equipment solely to change consumables. Unauthorised disassembly or modification of the equipment can lead to malfunction or water leaks in the machine. Contact the Technical Service of your nearest distributor in the event of malfunction.



### Do not place foreign objects on top of the machine!

Blocking the dissipation of heat could cause damage to it.



### Do not place heavy objects on top of the equipment!

If you place heavy objects on top of the equipment, this can cause damage to its casing or interior which can lead to water leakage, malfunction of the machine or even serious injury.



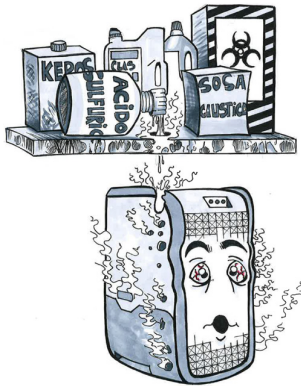
### Do not use under conditions of high pressure without a pressure regulator!

Use under high water pressure conditions can cause breakage of the system pipes, water leakage, malfunction of the machine or serious damage. P>4bars.



**Do not let the equipment come into contact with corrosive materials!**

These materials can corrode the outer casing and affect the interior parts. Certain toxic or hazardous compounds could penetrate the water pipes, lead to contaminated water and leaks, which could cause injury to yourself and/or others.



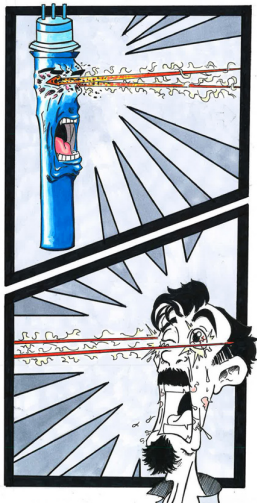
**Do not place the equipment near heat sources!**

Do not place the equipment near a heat source or where the temperature is excessively high as this could cause warping damage or leaks, which could lead to injury to yourself and/or others.



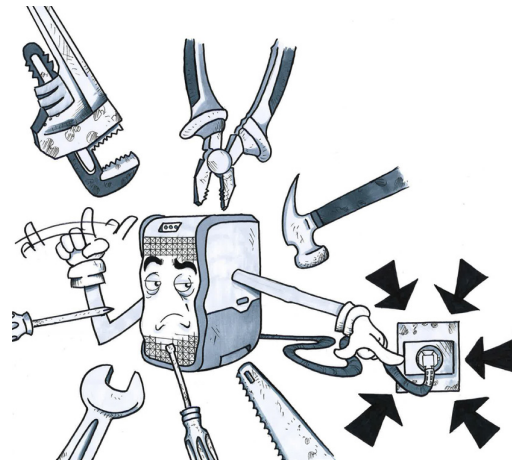
**Ultraviolet light**

This equipment contains an ultraviolet lamp. The ultraviolet light emitted may cause annoyance or damage to the skin and eyes.



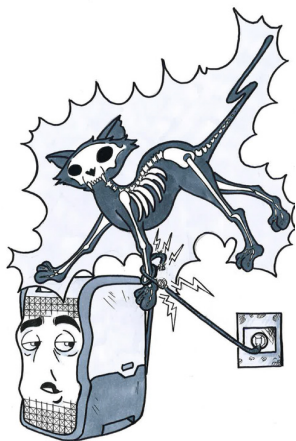
**When you install or repair the machine, it must be disconnected from the power supply!**

Otherwise, you could suffer electric shock. Under no circumstances should the equipment be opened while connected to the mains power.



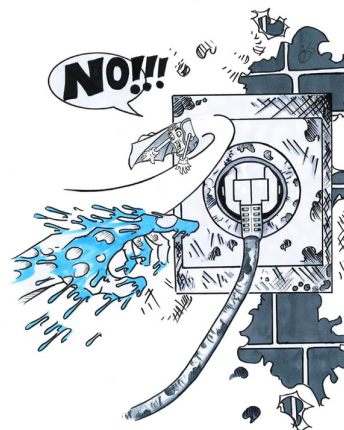
**Do not damage the cable or the plug!**

Doing so could cause electric shock, shortcircuits or a fire.



**Do not touch the plug with wet hands!**

This can cause electric shock.





## Notes

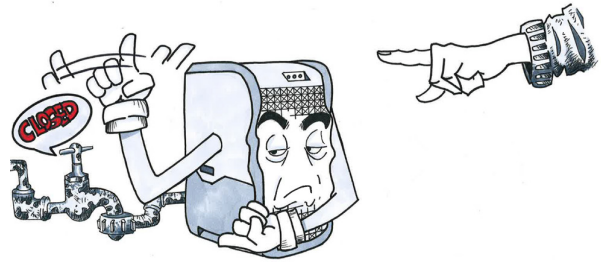
### Do not use the equipment with a blocked drain!

If the equipment is used when the drain is blocked, this could cause backflow of reject water into the equipment and contamination to enter.



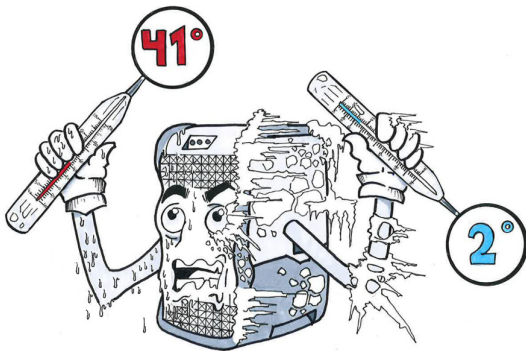
### The reject water drainage pipe should never be blocked!

When the reject water drainage pipe is blocked, this could lead to high concentrations of TDS, clogging of the membrane or malfunctioning of the MIAWA equipment.



### The inlet temperature cannot exceed 38°C or be lower than 5°C!

In the inlet temperature exceeds 38°C or is lower than 5°C, this could damage the reverse osmosis membrane and cause malfunctioning of the equipment.



Discard the lamp at the specific collection points for waste containing mercury, and not with the normal domestic waste. For more information, contact your local waste disposal service.



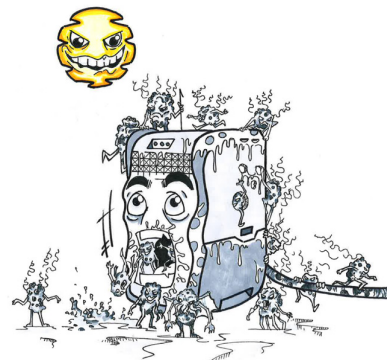
### Do not use this equipment outdoors!

If the equipment is used outdoors, there may be accelerated ageing of equipment pipes and parts, which could cause leakage or machine malfunction.



### Do not use the equipment under direct sunlight!

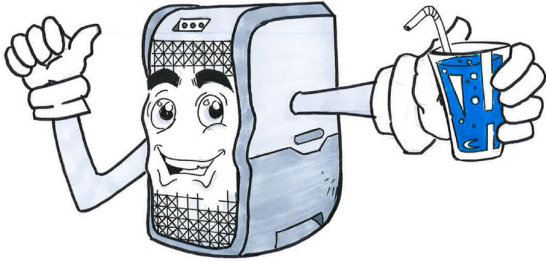
If the equipment is placed in direct sunlight for a period, it could become a breeding ground for microorganisms which would reduce water quality as they can contaminate different parts inside the machine.



## 2. Features

### 1. Guaranteed water quality

Water of pH 7.4 and total optimal salinity monitored with a TOS reader are obtained as a result of the full water treatment undertaken in the machine.



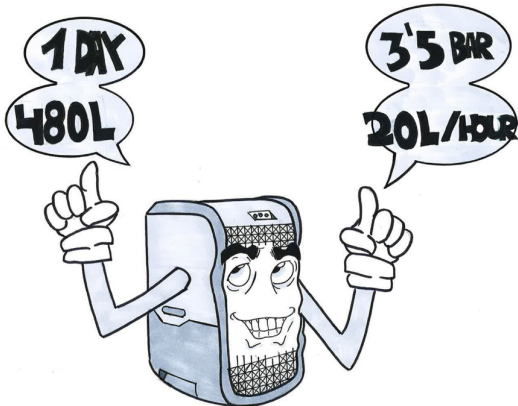
### 3. Equipment monitoring

The equipment has light and sound signals to inform the user of its status, letting them know whether any maintenance is necessary.



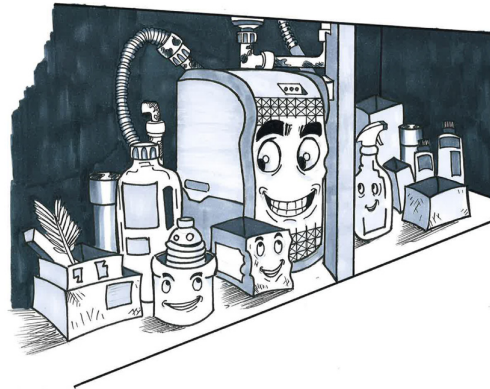
### 2. Stable water flow

The equipment has a filter system capable of producing up to 480l/day at 3.5 bars (20l/hour), as well as a 5 litre tank for immediate availability of purified water.



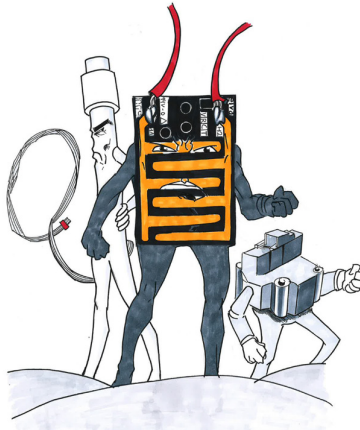
### 4. Ergonomic and compact design

Equipment of ideal size for beneath the sink, and easy to open for maintenance and cleaning of all the components.



### 5. Safety elements

Tank level gauge to prevent overflow. Inlet pressure switch to ensure proper working. Leak and moisture sensor.



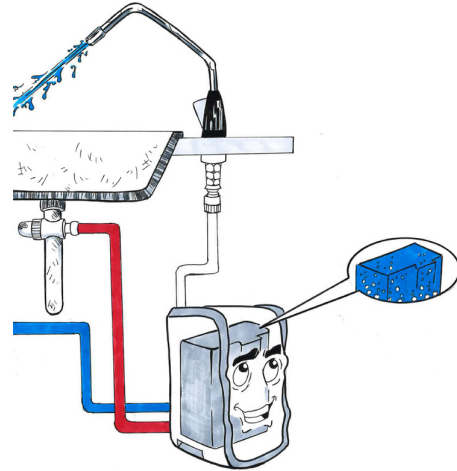
### 6. Safe design

Made of high-quality materials; ABS plastic for the outer casing and polypropylene for the tank and its covers. Food-grade plastic free of BPA. Tropicalized electronic circuitry (unaffected by damp, condensation or possible contact with water).



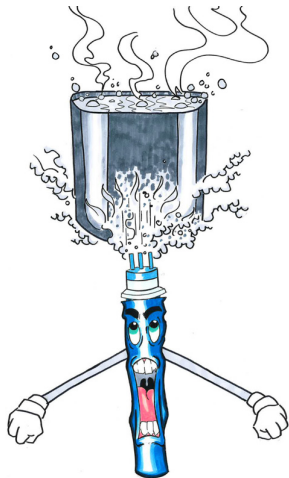
### 8. Simple supply of water

The equipment automatically replenishes the water in the tank, connecting and disconnecting the elements necessary, merely by opening the tap.



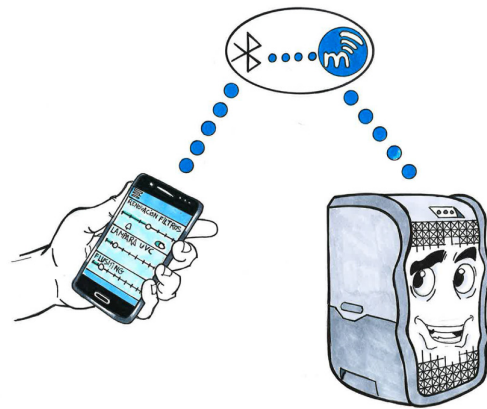
### 7. UV lamp

This is activated in sequence to sterilise the water in the tank.



### 9. Bluetooth connection

You can connect via Bluetooth to check the equipment status and settings.

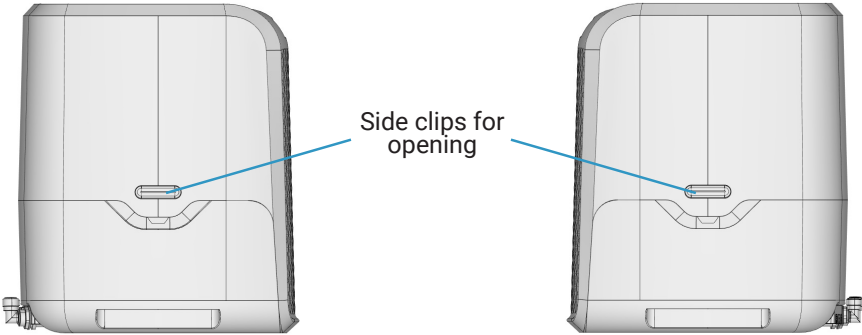
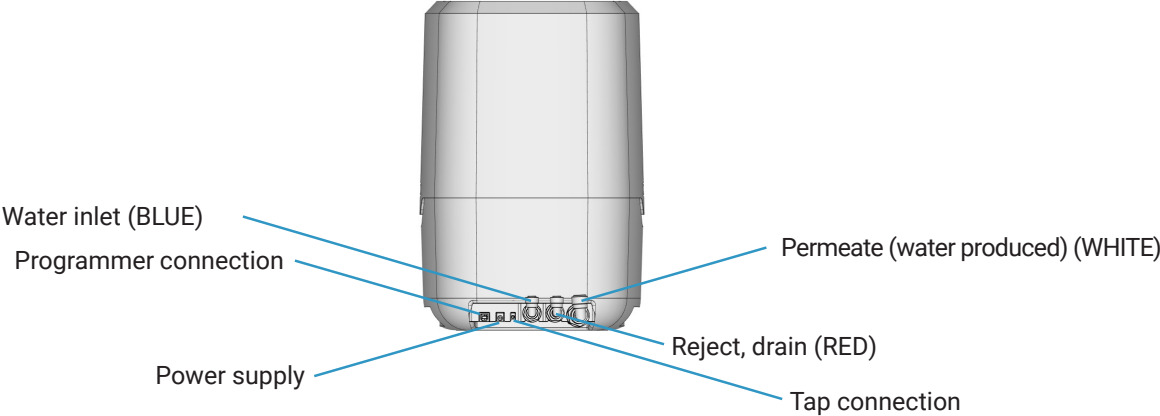


### 10. Working pressure

The equipment allows inlet working pressures of 0.5 to 6 bars.



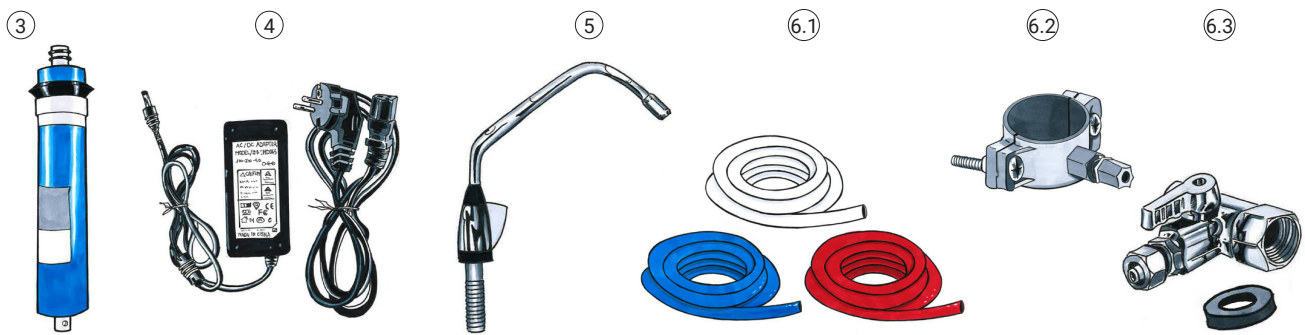
### 3. Parts of the equipment





## 4. Installation accessories

1. Quick installation guide.
2. Sticky label of equipment light and sound signals.
3. 150GPD membrane.
4. AC100-240V 50/60Hz power supply.
5. Electronic tap.
6. Installation kit:
  - 6.1 Vinyl pipes: 2m white pipe 3/8" / 2m blue pipe 1/4" / 2m red pipe 1/4".
  - 6.2 Drain clamp.
  - 6.3 3-way 3/8" inlet valve.



Maximum cable length available for the electronic circuit is 2.5 m

## 5. Especificaciones técnicas

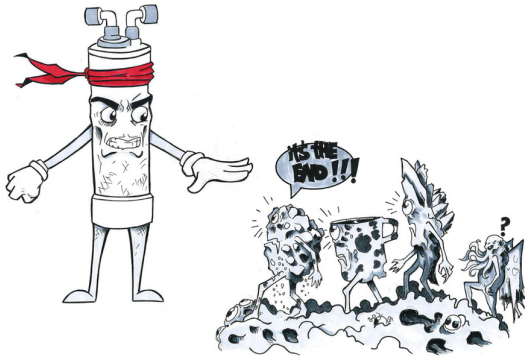
Supply	AC 220-110V 50/60Hz
Power consumption	55W
Mains water pressure	0,5 ~ 6 bars (if greater than 4 bars, use a regulator)
Working pressure model without pump	2 ~ 6 bars
Working pressure model with pump	0,5 ~ 4 bars
Inlet temperature	5 - 38°C
Maximum TDS value of inlet water	≤1500PPM
Maximum daily water production	480 liters
Flushing method	Automatic
Type of protection against electric shock	Type II

## 6. Main functions

The MIAWA water filtering process consists of:

### 1. The first stage is an encapsulated 5-micron sediment filter:

It can effectively filter out rust, sand, other larger particles and solid impurities in the water.



### 2. The second stage is an encapsulated GAC filter:

It can effectively absorb chlorine, disinfectant sub-products, odours, colours and other substances.



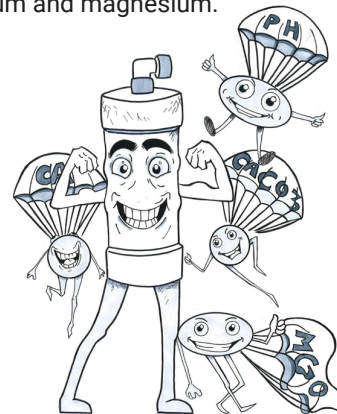
### 3. The third stage is the 150 GPD RO membrane:

This can effectively eliminate bacteria, viruses, heavy metals, pesticide wastes and other harmful substances in the water.



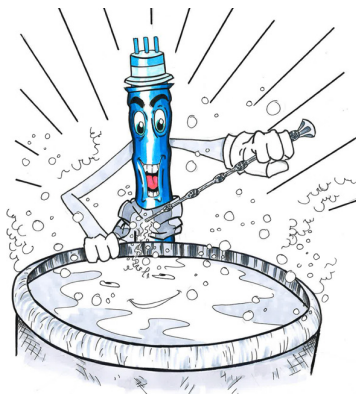
### 4. The fourth stage is a re-mineralisation post-filter:

This furnishes the right amount of minerals to the outlet water, yielding a non-corrosive water with ideal organoleptic properties. It adjusts the pH of the permeate and regulates the levels of calcium and magnesium.

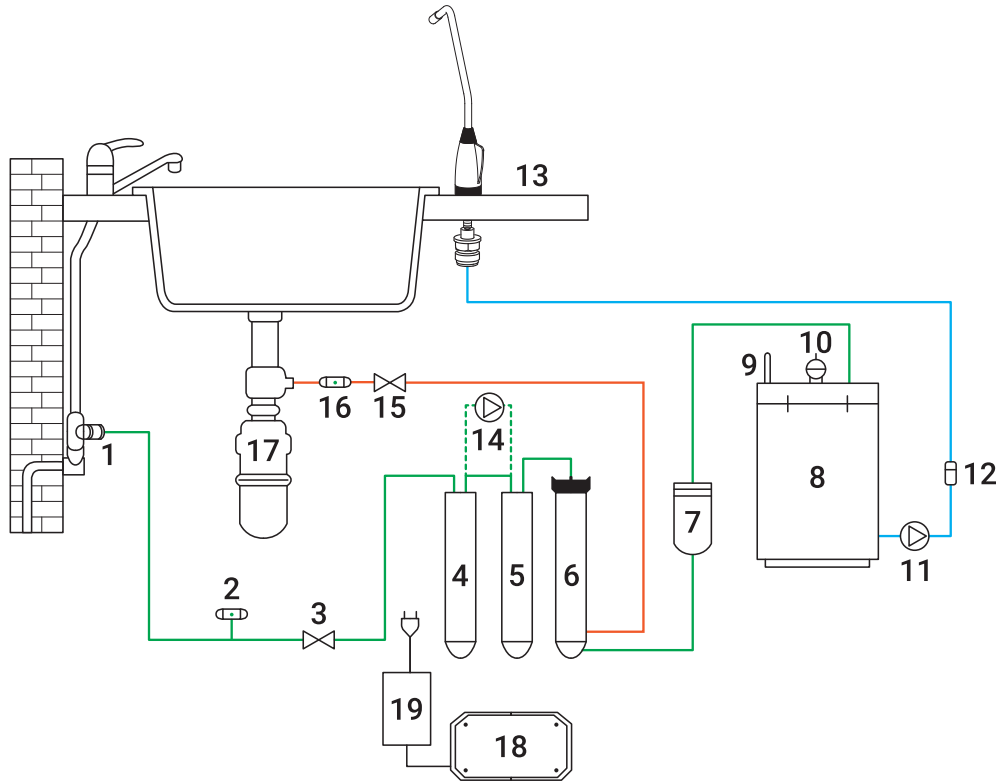


### 5. The fifth stage is ultraviolet hygienisation:

This renders the water hygienic using ultraviolet light. It does not add any chemicals, odour or taste to the treated water.



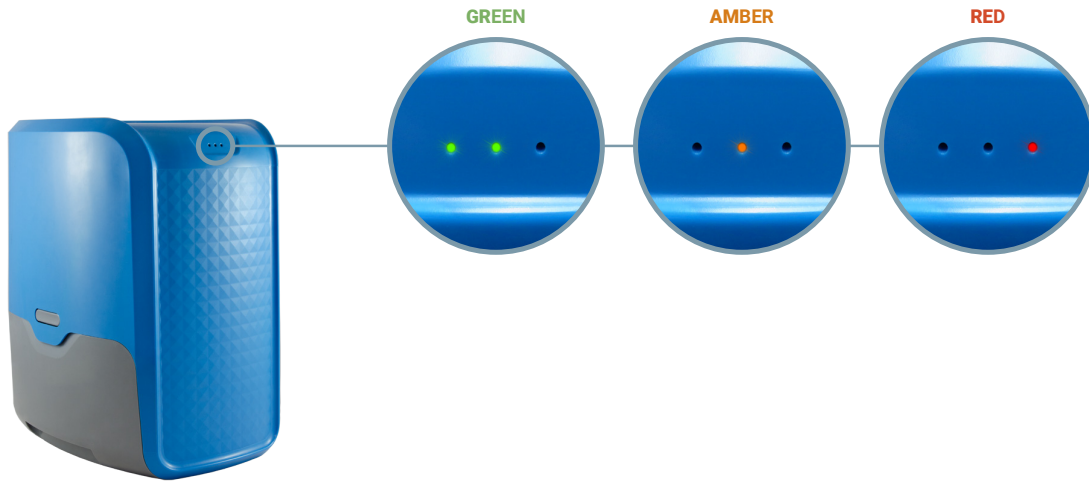
## 7. Hydraulic diagram



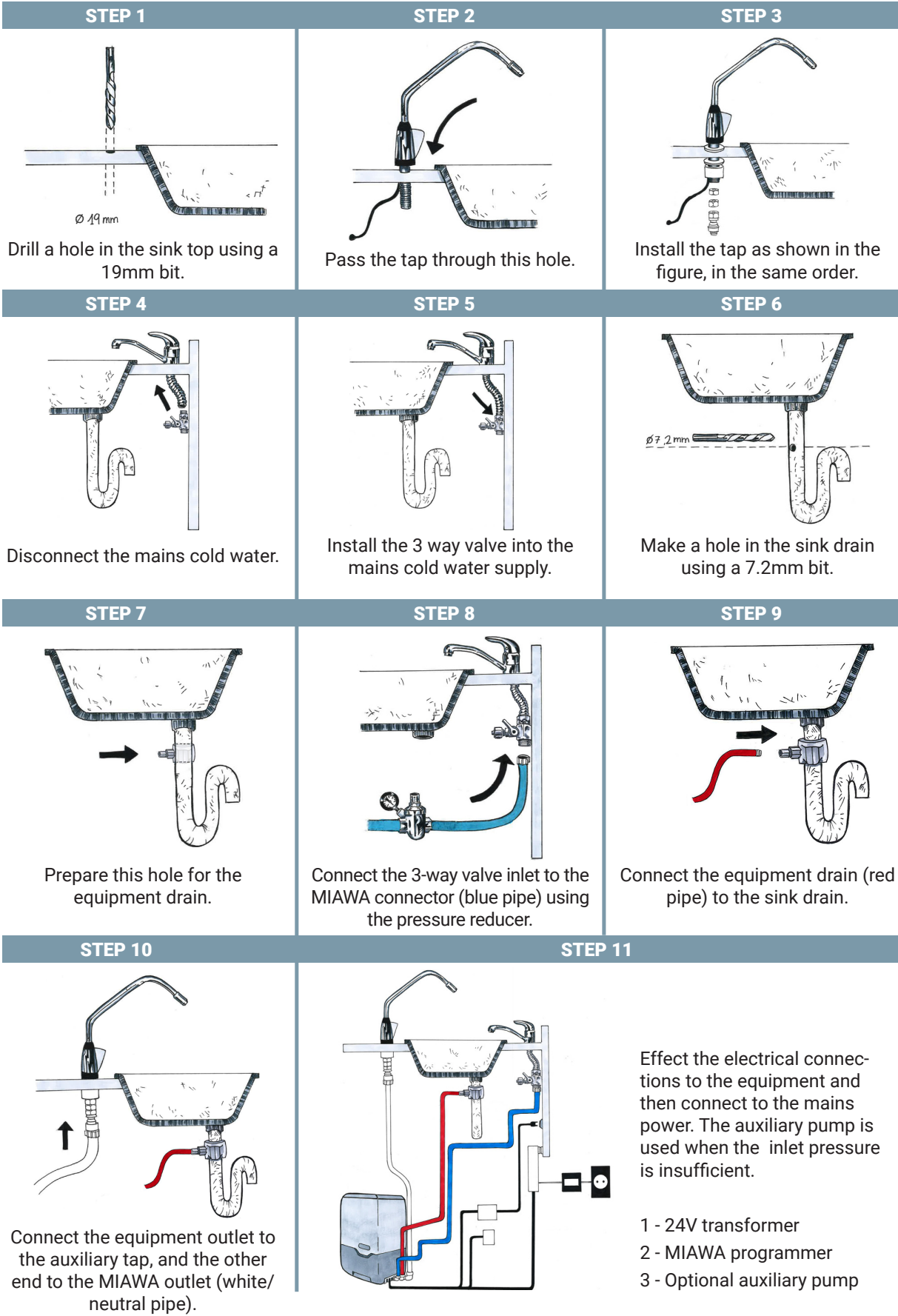
1. Untreated mains water valve.
  2. Inlet electrovalve 2/2 24V DC with woven stainless steel filter.
  3. Low pressure switch to detect leaks.
  4. 5 micron sediment filter.
  5. Activated carbon filter.
  6. Membrane-holder with 150GPD membrane.
  7. Re-mineralisation post-filter.
  8. Unpressurised tank with useful capacity of 5 litres.
  9. Water level gauge with three states: Minimum, Maximum and Overflow.
  10. 14 W ultraviolet lamp.
  11. Permeate pump 24VDC.
  12. Conductivity meter (TDS).
  13. Treated water dispenser tap.
  15. Flushing electrovalve.
  16. Anti-return valve for water.
  17. Drain of domestic sink.
  18. Main electronic circuit of the equipment.
  19. Input power AC100-240V 50/60Hz and output DC24V 4A.
- \* 14. Inlet booster pump. Optional element for dwellings with low mains water pressure. Should this be installed, the hydraulic order would be: Sediment (4), Booster pump (14), Activated carbon (5), Membrane-holder (6) and Post-filter (7). Electrical component.

## 8. Pilot lights and alarms

This equipment has a monitoring system using acoustic signals which are accompanied by the pilot lights on the equipment itself, and these signals indicate the following:



<b>GREEN</b>	-	-	The equipment has power and there is no anomaly.
<b>AMBER</b>	LED flashing.	Triple acoustic signal for 1 minute, with 10 second gap, and repeated every 30 minutes.	This indicates that the filters should be changed because of their age or as a warning of high TDS level.
	LED steady.	Continuous acoustic signal.	Indicates that the tank is empty when the tap is operated and the level gauge is at level 1.
<b>RED</b>	LED steady.	Uninterrupted continuous acoustic signal.	Indicates that the equipment is in a state of alert due to: a) Overflow or flooding. b) Alarm due to component failure. c) Electrical fault.



The cabling used for the electronic circuit must be supplied by the manufacturer. Under no circumstances may extensions be used.

## 10. Use of the equipment

### Preparation prior to use

- Install the equipment as set out in the previous point.
- Connect the equipment; plug the transformer intake to the mains socket of the installation.
- Open the water valve and ensure that the equipment starts to produce osmotised water.



For reasons of hygiene, the osmosis membrane contains chemical preservatives. This means that the first water produced cannot be used, and therefore it **is very important to empty the first two tankfuls**, by operating the tap until the pump stops (for each emptying operation).

From this moment, MIAWA will supply with water of guaranteed quality.

### Conditions of use

- ***This equipment requires an appropriate supply of water. Should the installation set up not meet certain minimum standards this could cause malfunctioning.***
- Miawa is fitted with an automatic washing system (flushing), programmed to work for 1.5 minutes every 6 hours. (The user can modify this parameter using the app)\*
- The UV light comes on for 1 minute every 6 hours. (The user can modify this parameter using the app)\*

*\*Only user number 3 (distributor)*

### Use of the equipment

The tap on the equipment itself activates the internal mechanisms when opened to provide the user with the water filtered up to that moment.

The internal functioning of the equipment is:

- a. Through the inlet electrovalve, the mains water enters the equipment. This is activated when the tank level gauge is at minimum or when we actuate the tap.
- b. The water enters the filter assembly: sediment; booster pump (if this is installed), activated carbon and osmosis membrane.
- c. The waste water from the membrane is sent to the drain.
- d. The permeate water from the membrane passes through a re-mineralisation post-filter for subsequent storage in the tank.
- e. The user, by means of the tap, opens the outlet valve, activating the permeate pump to extract the accumulated water. As it leaves, the conductivity is measured to give a reading of the water quality.

## 11. Maintenance

---

The MIAWA reverse osmosis equipment requires little maintenance:

Components such as the sediment pre-filter, activated carbon filter, reverse osmosis membrane and the re-mineralisation post-filter are subject to wear and have a limited duration. Their lifespans depend on local circumstances, as the water of each region has its own composition. As guidance, we now show the duration of the cited components:

- Sediment pre-filter: 12 months (depending on inlet water)
- Activated carbon filter: 12 months (depending on inlet water)
- Reverse osmosis membrane: 3-5 years (depending on inlet water)
- Re-mineralisation post-filter: 2 years
- UV lamp: 7000 hours

The duration of the elements shown is determined by certain parameters under laboratory conditions. Excessive variation in these parameters could shorten the lifespan of these components, as could the use of non-original spare parts and consumables.

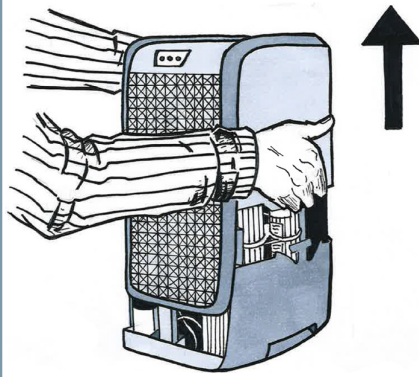
To guarantee hygiene, the equipment needs to be sanitised on a regular basis, which involves cleaning the elements that make up the filtering system.



**Attention:** even when the valve is closed, the filter container vessels still contain a significant amount of water. Have a container to hand when emptying to avoid water spillage.

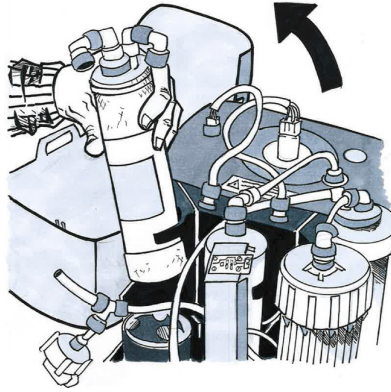
**Note:** if you replace the pre-filter or the post-filter, it is not imperative to replace the rest. If you replace the reverse osmosis membrane, then the sediment pre-filter, the activated carbon filter, and the re-mineralisation post-filter should also be replaced.

## 12. Steps for replacing the filters

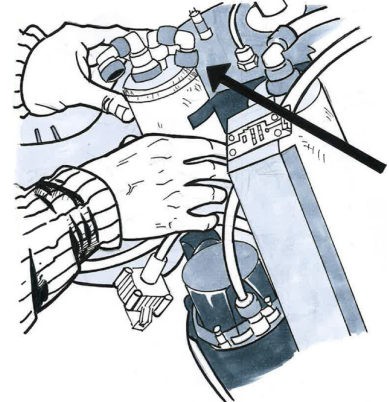


**1. OPEN THE EQUIPMENT:** open the lid of the equipment by pressing the side clips. On raising the lid, be careful with the LED panel and in the event that this comes off, put it back in its position on the front of the base.

### A. REPLACEMENT OF SEDIMENT, ACTIVATED CARBON FILTERS AND RE-MINERALISATION POST FILTER

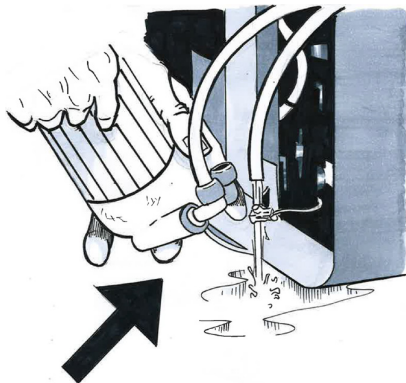


**2. DISCONNECTION OF FILTERS:** disconnect the pipes of the filter to be changed by pressing the quick-released clip, and undo all the connections between the filter and the valve.

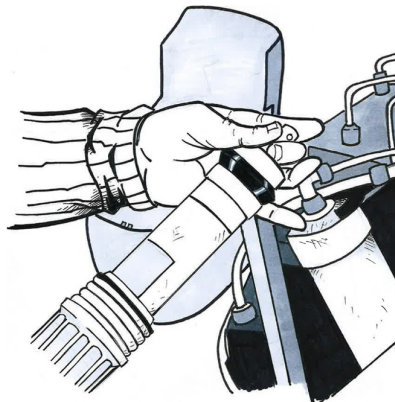


**2.B SUBSTITUTION OF FILTERS CARTRIDGES:** effect all the connections between the new filter and the valve just as they were.

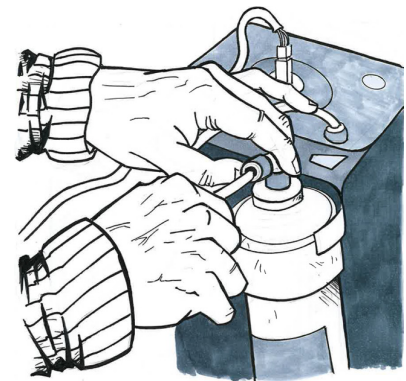
### B. SUBSTITUTION OF MEMBRANES



**3.A DISCONNECTION MEMBRANE-HOLDER:** disconnect the pipes of the membrane-holder by pressing the quick-release clip and opening the membrane-holder with its key.

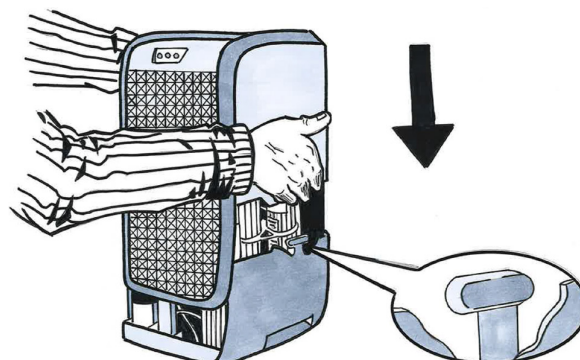


**3.B SUBSTITUTION OF MEMBRANES:** substitute the new membrane by placing it in the same position and close the membrane-holder.



**4:** put the new filter or membrane-holder back in the original position and connect the pipes, making sure they are held in place by the quick-release clip.

**5. CLOSING:** replace the lid and secure it with the side clips, verifying that the LED panel is properly in place.





## 13. Troubleshooting

The following table shows the most common problems and how to resolve them:

ANOMALY	SOURCE	SOLUTION
It makes noise	<ul style="list-style-type: none"> <li><b>A)</b> Defective outlet pump</li> <li><b>B)</b> Inlet valve partially blocked</li> </ul>	<ul style="list-style-type: none"> <li><b>A)</b> Contact the authorised technical service</li> </ul>
It works continually	<ul style="list-style-type: none"> <li><b>A)</b> Lack of water</li> <li><b>B)</b> Inlet valve closed</li> <li><b>C)</b> Membrane saturated</li> </ul>	<ul style="list-style-type: none"> <li><b>A)</b> Check the general water inlet valve</li> <li><b>B)</b> Contact the authorised technical service</li> <li><b>C)</b> Change the membrane (authorised technical service)</li> </ul>
The equipment has halted	<ul style="list-style-type: none"> <li><b>A)</b> Power cable not plugged in</li> <li><b>B)</b> Defective control circuit</li> </ul>	<ul style="list-style-type: none"> <li><b>A)</b> Connect the mains power</li> <li><b>B)</b> Contact the authorised technical service</li> </ul>
It loses water	<ul style="list-style-type: none"> <li><b>A)</b> It has overflowed</li> <li><b>B)</b> Defective o-ring</li> </ul>	<ul style="list-style-type: none"> <li><b>A)</b> Check the movement of the float</li> <li><b>B)</b> Check the outlet pump closure gasket</li> <li><b>C)</b> Check the connection of the internal pipes Contact the authorised technical service</li> </ul>
No water comes out of the tap	<ul style="list-style-type: none"> <li><b>A)</b> The tank is empty</li> <li><b>B)</b> The sediment filter is clogged</li> <li><b>C)</b> The water circuit is blocked</li> <li><b>D)</b> Outlet pump disconnected or defective</li> <li><b>E)</b> Reverse osmosis membrane clogged</li> <li><b>F)</b> Water inlet closed</li> <li><b>G)</b> Lack of mains pressure</li> </ul>	<ul style="list-style-type: none"> <li><b>A)</b> Check the mains pressure</li> <li><b>B)</b> Contact the authorised technical service</li> </ul>
Unsuitable flavour	<ul style="list-style-type: none"> <li><b>A)</b> Water stored for too long</li> <li><b>B)</b> Tank dirty</li> <li><b>C)</b> Filters used for too long</li> </ul>	<ul style="list-style-type: none"> <li><b>A)</b> Empty the circuit and clean the tank, pipes and taps</li> <li><b>B)</b> Clean the tank</li> <li><b>C)</b> Change the filters</li> <li><b>D)</b> Change the reverse osmosis membrane. Contact the authorised technical service.</li> </ul>

*... Pending new information with possible modifications...*