

# Reverse Osmosis IFU



Aqua Pro +

# Instructions for use

Please read these instructions before using the device.

Keep these "Instructions for use" in a safe place close by the unit for future reference.

**UK Customer care line:** 01254 844 116

**E-mail:** customerservice@prestigemedical.co.uk

The Prestige Medical Customer Service Team is available to provide advice and assistance during normal office hours. To avoid delays when making contact, please have the unit's Model and Serial Numbers at hand.

For additional information visit www.prestigemedical.co.uk

#### **UK Customers**

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#### **Overseas Customers**

Contact your local distributor. In case of doubt contact Prestige Medical Ltd

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# Contents

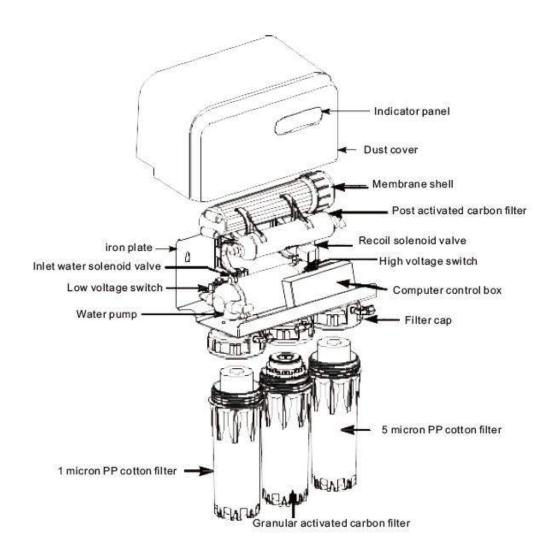
Section	Page
1: INTRODUCTION	2
FORWARD	2
2: SPECIFICATION	3
FILTER STAGES:	4
COMPONENTS:	4
PPM - MICROSIEMEN CONVERSION TABLES	5
AQUA PRO + DIMENSIONS:	5
AQUA PRO + AND STAND DIMENSIONS:	5
3: INSTALLATION	6
1. Preparation before installation	6
2. Layouts	6
3. Installation	9
4: INITIAL SETUP	13
5: OPERATION	14
DISPLAY	15
GOOSENECK TAP	16
WATER GUN	16
6: MAINTENANCE	17
1. Flushing the RO Membrane	17
2. LED Display	17
3. Water Filter Cartridges	19
4. Replacing the Filter Cartridges	19
7: TROUBLESHOOTING	22
8: IMPORTANT SAFETY INSTRUCTIONS	23
WATER REGULATIONS ADVISORY SCHEME (WRAS)	23
GENERAL SAFETY INSTRUCTIONS	23

#### 1: INTRODUCTION

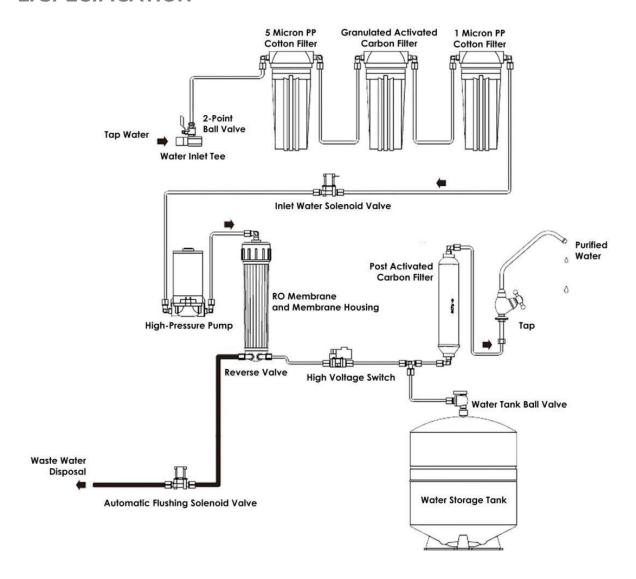
#### **FORWARD**

The user is responsible for reading the operating manual and strictly complying with its instructions including installation, operation and maintenance. Prestige Medical is not liable for any damage to people or things or to the unit should the operator not comply with the operating conditions.

Such instructions are confidential and the customer is liable not to disclose any information to third parties. What is more such operating instructions and its annexes cannot be changed, tampered, modified, violated, copied or sold to anybody without Prestige Medical approval.



# 2: SPECIFICATION



Specification		
Connections	Supplied with 1/4" tubing for connection to mains water supply	
Rated Voltage	AC 220V 50Hz	
Rated Power	28.8W	
Pressure (Min/Max)	1.5 - 3.5 Bar	
Filter System	5 – Stage Reverse Osmosis Filter Membrane	
Storage Tank Volume	7.68 Litres	
Max Daily Water Production	284 Litres	
Inlet Max TDS Limit	≤1000ppm	
Filtration Performance	0 - 20 ppm	
Net Weight Gross Weight	8.2kg 11kg	

#### **FILTER STAGES:**

#### First level: 5 micron PP cotton filter

PP cotton filter has a pore size of 5 microns, which can effectively filter out large solid impurities such as rust and sand in water.

#### Second stage: granular activated carbon filter

It can effectively absorb residual chlorine, humus, disinfection by-products, odour and other substances in water.

#### Third stage: 1 micron PP cotton filter

Effectively remove harmful substances such as bacteria, viruses, heavy metal ions and pesticide residues in water.

#### Fourth stage: reverse osmosis membrane

It can further remove particles, suspended solids and colloids of smaller particle size in water. (Effectively remove residual chlorine, chemical pesticides, odours, and filter fine impurities, etc.)

#### Fifth stage: post activated carbon filter

Adjust the taste of pure water and keep fresh water fresh

#### **COMPONENTS:**

Computer control box: control the entire water production process, including water shortage shutdown, water full shutdown, automatic flushing of reverse osmosis membrane.

High-pressure pump: It acts as a pressurizer to create a stable environment for the reverse osmosis membrane to work properly.

Low voltage switch: Prevent the pump from spinning. When the raw water pressure is lower than 0.03MPa or the water is low, the power is automatically disconnected to stop the whole machine.

High voltage switch: Prevent the pump from running completely. When the pure water end of the faucet is turned off to reach the set pressure, the power will be automatically disconnected to stop the machine.

Inlet water solenoid valve: Switch on or off the raw water, using a pressure range of 0.6MPa

Check valve: Also list the valve to control the direction of water flow

Recoil solenoid valve: The reverse osmosis membrane is automatically flushed by the computer box.

Flow Controller: Control wastewater flow.

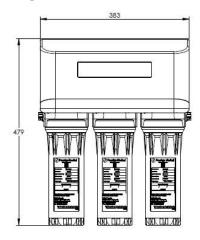
Transformer: Convert 220V AC to 24V DC (machine work safety)

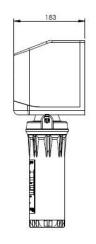
# **PPM - MICROSIEMEN CONVERSION TABLES**

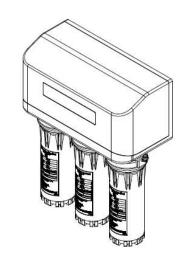
Parts per million	Microsiemens
lppm	1.6µS
2ppm	3.1µS
3ppm	4.7µS
4ppm	6.2µS
5ppm	7.8µS
6ppm	9.4µS
7ppm	10.9µS
8ppm	12.5µS
9ppm	14.0µS
10ppm	15.6µS

Parts per million	Microsiemens
11ppm	17.2µS
12ppm	18.7µS
13ppm	20.3µS
14ppm	21.8µS
15ppm	23.4µS
16ppm	25.0µS
17ppm	26.5µS
18ppm	28.1µS
19ppm	29.6µS
20ppm	31.2µS

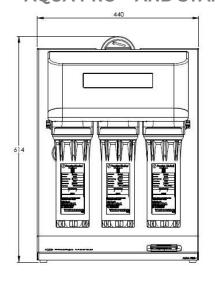
# AQUA PRO + DIMENSIONS:

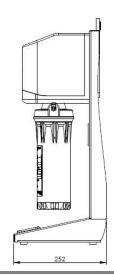


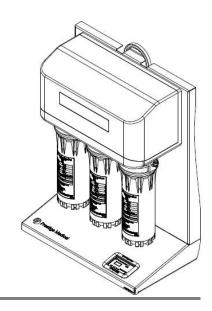




# **AQUA PRO + AND STAND DIMENSIONS:**





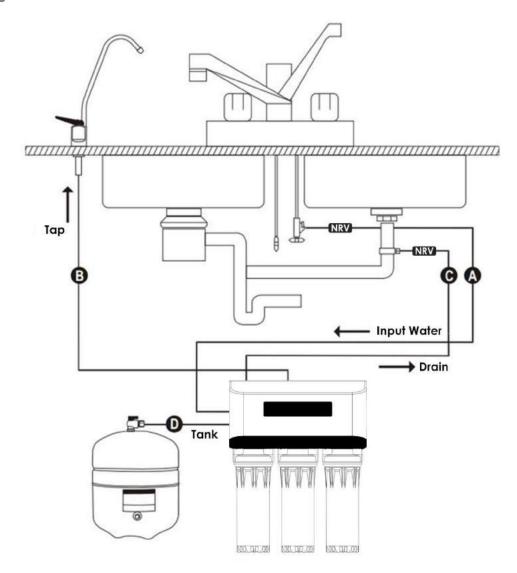


#### 3: INSTALLATION

# 1. Preparation before installation

- Confirm the location the Aqua Pro + is to be installed (depending on the installation scenario)
- Please ensure all required tools are available for installation
- Please ensure mains water supply has been isolated prior to any installation
- Ensure all required parts and accessories are included

#### 2. Layouts



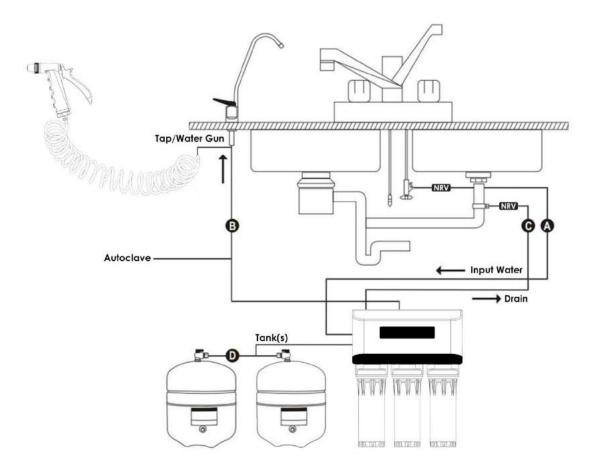
#### Aqua Pro + Labelled Ports:

A – Inlet - This port is connected to the mains water supply.

B – Outlet - This port is connected to output devices such as a tap.

C – Drain
This is a drain port to remove any waste water from the system.
Tank
This port is connected to external tanks for storing filtered water.

This is the basic setup for the Aqua Pro +. Please make note of the use of Non-Return Valves (NRVs) on the inlet and outlet pipes to prevent any backflow that could contaminate the system and allows it to comply with WRAS.



Aqua Pro + Labelled Ports:

A – Inlet - This port is connected to the mains water supply.

B – Outlet - This port is connected to output devices such as a tap or water gun.

C – Drain
This is a drain port to remove any waste water from the system.
Tank
This port is connected to external tanks for storing filtered water.

This is an alternative layout for the Aqua Pro +. Please note in this layout there is an additional tank for storage. The outlet has been teed off to the water gun to make use of its flexibility. The outlet has also been fitted directly to a Prestige Medical Autoclave to utilise the Prestige Medical direct feed function available.

Please note that the layout is completely customisable as the installation of the system will depend on the setup of the decontamination room and the additional accessories.

The Aqua Pro + is available as a wall mounted unit or a stand mounted unit. It is recommended that the unit is wall mounted if space is a restriction within the decontamination room. The wall mounted unit can be mounted inside a cabinet underneath the sink as an option to save space (pictured below).





The stand mounted version is recommended if space is available on the countertop as this allows all components to be accessible within one integrated stand. It also includes a grommet for easy pipework management.





#### 3. Installation

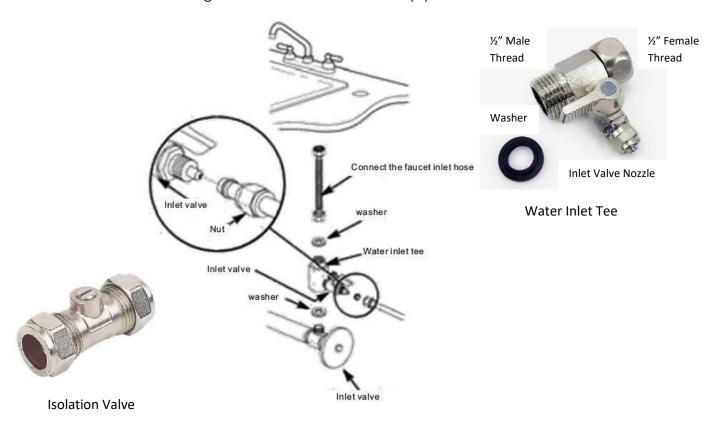
Depending on the plumbing available, different installation methods will be required for each scenario.

#### 1) Installation using Water Inlet Tee

If standard ½" tap inlet hose fittings are used and available under the sink the included water inlet tee may be connected directly onto the tap inlet hose:

First ensure the water supply is isolated before making any alterations to the plumbing. Disconnect the tap inlet hose from the isolation valve. Take out the water inlet tee from its packaging and make sure it is set to the isolated position and all washers and seals are included. Install the water inlet tee between the tap inlet hose and the isolation valve. The water inlet tee male thread will mate up with the tap inlet hose and the water inlet tee female thread will fix onto the isolation valve.

Place the inlet valve nut over the inlet pipe from the Aqua Pro + and connect it to the inlet valve nozzle. Tighten the nut to secure the pipe and seal.



#### 2) Installation using Washing Machine Tee:

If non-standard tap inlet hoses are used a ¾" Washing Machine Tee can be installed into the plumbing system to allow the use of our ¾" Washing Machine Adapter.

First ensure the water supply is isolated before making any alterations to the plumbing. Remove a section of pipe and use the 15mm compression fittings to secure the washing machine tee into the system.

Fix the Aqua Pro washing machine adapter to the  $\frac{3}{4}$ " washing machine tee and tighten until the seal is made. Insert the  $\frac{1}{4}$ " Aqua Pro + inlet pipe into the push fitting until it is secure.





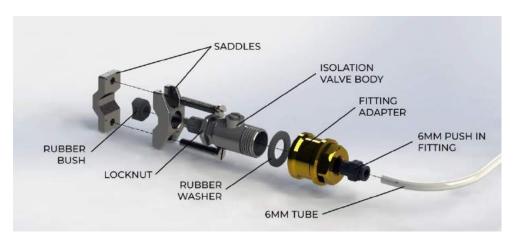


Washing Machine Adapter

After everything is connected open all isolation valves and proceed to the first time use of the Aqua Pro +.

3) Installation using Self-cutting Isolation Valve: If no space is available to use compression fittings an alternative is to use the Self-cutting isolation valve.

Before installing the self-cutting isolation valve, ensure that the valve is in the **CLOSED** position and the mains supply has been isolated.



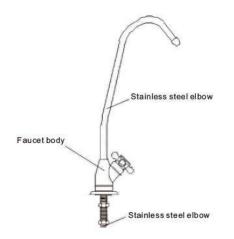
- 1. Unscrew the valve body from the saddle clamp and set aside.
- 2. Insert the concave rubber bush into the recess of the saddle clamp ensuring correct orientation.
- 3. Clamp the saddle around a cleaned 20mm section of pipe, ensuring the rubber bush remains in the seat of the saddle.
- 4. Insert slotted screws and tighten clamp onto pipe with a suitable flat head screwdriver. **DO NOT OVER TIGHTEN.**
- 5. Ensure the lock nut is close up against the main body leaving the maximum amount of thread exposed.
- 6. Screw the main body into the saddle by hand, taking care not to cross thread.
- 7. Finish with the valve pointing in the desired position and ensuring access to the operating slot.

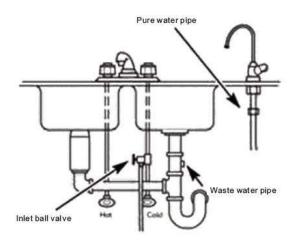
- 8. With a suitable spanner tighten the locknut in a clockwise direction towards the saddle. **DO NOT OVER TIGHTEN.** Insert the 6mm flexi-tube from the Aqua Pro's inlet into the push fitting ensuring the tube is fully inserted
- 9. Place a bowl beneath the valve, open the valve and ensure that water flows free without leaks.
- 10. When not in operation close valve and check for leaks.



# 4) Installing the tap:

Drill a 14mm hole in a suitable position on the sink countertop. Install the stainless steel elbow on the tap body (as shown below), then insert the tap into the drilled hole. Slide the gasket over the thread on the underside of the tap then screw the fixing nut into the lower end of the tap and fix the tap onto the countertop. Connect the relevant 1/4" pipe fitting to the bottom of the tap. Connect the 1/4" inlet tube from the Aqua Pro + to the inlet fitting and ensure the pipe is fully inserted into the collet. The tap is now fully installed and ready to use. If the tap is to be installed onto the wall, use the included wall bracket and supplied wall fixings.





#### 5) Installation for waste water

To install the RO Waste Water Clamp drill a 6mm hole in a suitable position on the drain pipe. Attach the collet Drain Saddle ensuring the gasket lines up with the drilled hole. Attach the other side of the drain saddle and insert the screws on either side and tighten to clamp the saddle onto the drain pipe. **DO NOT OVERTIGHTEN**. Insert one end of a ½" tube into the waste water clamp collet and insert the other end to the drain point on the Aqua Pro +.

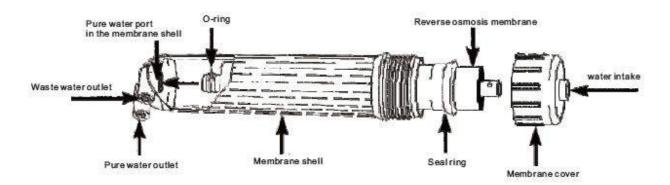


# 6) Installing the RO membrane

To install the RO membrane the Aqua Pro + housing needs to be removed. There are screws located on both sides of the unit on the underside of the moulding. Remove these screws with a suitable Philips screwdriver to remove the housing. Once the housing has been removed the RO filter housing is accessible. The RO membrane housing is the large filter housing at the top of the Aqua Pro + (shown below). Remove the housing from the plastic clips and remove the pipe from the membrane cover collet. Once the pipe has been removed from the collet you can remove the membrane cover from the housing, use the spanner if necessary. Once you have access to the inside of the membrane housing, insert the RO membrane into the housing ensuring the membrane is in the correct orientation (shown below).

#### **PLEASE NOTE:**

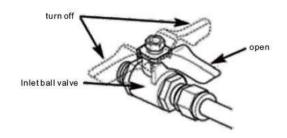
- The RO membrane must be installed in the correct orientation. Check the membrane and locate the O-rings.
- Please ensure when the membrane is inserted into the housing, the end with O-rings is inserted first.
- The membrane should slide into the housing easily and is completely installed once the cover is replace. Please do not force the reverse osmosis membrane into the membrane housing; this could cause permanent damage to both components.



#### **4: INITIAL SETUP**

Once the pipe layout has been correctly installed and checked it is recommended that the unit is tested to check the control board operates correctly. Do not replace the housing until after testing so that you can see the components and check for any leaks within the system:

- 1) Plug in the power supply to the Aqua Pro + to switch it on and open all closed isolation valves. The filter housings will begin to fill with water. Open the gooseneck tap and check water is flowing out (Please note the system is required to flush during first time use and the storage tank should remain closed, all water should be passed out the external tap).
- 2) Check the piping and joints of the components within the unit. Ensure there is no water leaking at the interface of the membrane filter housings.
- 3) Close the tap and wait for 30 seconds to check if the machine waste water stops.
- 4) Open the external tap and check whether the water produced is pure and has a low PPM value. If there is no pure water flowing out, check if the tap water pressure is too low or the high pressure switch cannot reset.
- 5) While the machine is running, close the inlet valve and check whether the machine stops working after a period of time.
- 6) Once all the tests have been confirmed; the Aqua Pro + can be used safely.



#### 5: OPERATION



Please ensure the cartridges are fully tightened and sealed before first time use.

In order to prevent bacterial contamination during storage and transportation of membrane elements, the reverse osmosis membrane element package contains a small amount of protective liquid, and the UDF carbon filter is activated by the activated carbon powder when water is passed through it, it is recommended to run the water through the tap during first time use. Do not open the water storage tank within the first hour. It is recommended that the purified water produced during this period of time be discarded. Otherwise the output water could contain chemicals from the filters that may be damaging to other units.

During the first operation of the Agua Pro +, the TDS value of the pure water may be high. After a period of time, the TDS value of the purified water will gradually decrease to a stable level. We recommend anything between 0 - 12ppm to be comfortable level.



PLEASE NOTE - Please regularly check the TDS meter. Once the ppm level is 20ppm or above, contact prestige medical or your local dealer.

During normal use of the Agua Pro +, the switch on the inlet ball valve should be in the open position. When operation of the Aqua Pro + is finished and units are turned off overnight it is recommended to switch the inlet ball valve to the closed position isolating the mains water supply reducing any risk to the unit overnight.



# ! DO NOT LEAVE THE SHUTOFF VALVE OPEN OVERNIGHT!



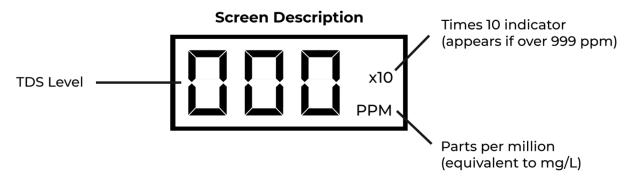
#### **DISPLAY**

Press the "ON/OFF" button to display TDS level. To display the TDS level for the mains water feed, slide the switch to the IN position. To display the level of the water product side (Filtered), slide the switch to the OUT position, as indicated by the images below. Please note – the displayed TDS will be most accurate after approximately 10 seconds.





If the "x10" icon appears, this means the TDS level is above 999ppm. Therefore, multiply the reading by 10. For example if the display shows 143ppm **with** the "x10" icon, the actual TDS level is 1430ppm. (If the "x10" does not appear, the reading on the display is the actual TDS level).



Please note - The monitor will automatically shut off after 10 minutes.



Avoid removing the fittings from the sensors. Excessive removal and insertion of the fittings could ultimately scratch the sensor and potentially cause leakage.

#### **GOOSENECK TAP**

The Aqua Pro + comes with an external tap that can either be mounted onto a sink top, a countertop or against any wall with the use of its mounting bracket. Once the tap is installed it makes filling bottles and beakers with purified water much easier. Simply operate the valve on the side of the tap to open and close.

#### **WATER GUN**

The Aqua Pro + comes complete with an optional water gun. It can be installed alongside or instead of the gooseneck tap. Fitted directly to the outlet of the Aqua Pro + it can be used to quickly fill autoclave fresh water tanks. It can also be used to decanter into bottles for chairs and other storage devices to be used at a later date.



The water gun comes with a bracket that allows the user to mount the water gun to an easily accessible location. The bracket can be fixed to countertops easily using 2 small wood screws.

The water gun is simple to use and works exactly like a garden hose. Simply press the trigger to open the valve and release to close the valve. There is also a locking function so the valve can be left open without having to keep pressure on the trigger.

#### **6: MAINTENANCE**

## 1. Flushing the RO Membrane

The Aqua Pro + is equipped with the microcomputer automatic control system. When the unit is turned on for the first time, the system automatically flushes the reverse osmosis membrane for 1 minute and 40 seconds. The cumulative water production time of the machine is 2 hours. The system automatically flushes the reverse osmosis membrane for 1 minute and 40 seconds (cycle), and then restores the water. There is a button located on the board when pressed it is automatically flushed for 1 minute and 30 seconds.

# 2. LED Display

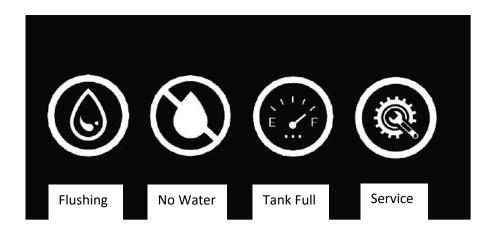
The Aqua Pro + uses an LED Display to indicate different functions in operation. The display will show a solid colour until a function is in operation it will begin to flash (from left to right):

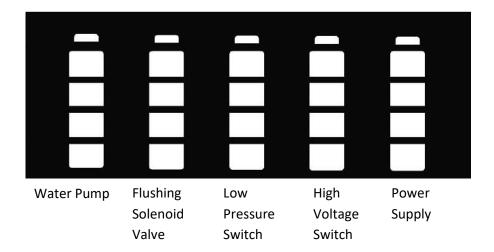
Flushing – The unit is dumping waste water through the RO membrane to prevent scaling or fouling and washes away any impurities and keeps the membrane clean.

No Water – When this icon indicates, the unit is not receiving any water from the mains water supply. Please check the water input for any issues.

Tank Full - When the external storage tank is full this icon will indicate.

Service – The icon will indicate when the unit requires a service and any filters older than 12months should be checked for a replacement.





The LED Display also displays the power supplied to each electrical component within the system. In the case of a short circuit and a component is damaged the LED icons will indicate. As default the LEDs will indicate a solid colour and will turn off to indicate an issue.

#### 3. Water Filter Cartridges

Over a period of time the unit will filter a large volume of water and the filter cartridges will need to be replaced. Each filter cartridge has a different life span depending on the materials or chemicals used as the filtration media. Areas across the country have different water hardness levels and can also impact the life span of the filters. It is recommended to change the filter cartridges at least once a year (24 months for RO membranes) but as a guide please use the table below to check the quality of the water and ensure the filters are still suitable to use.

#### **Filter Stage**

#### Average Life Span (Months)

First Stage - 5 micron PP cotton filter	3-6
Second Stage - granular activated carbon filter	6-12
Third Stage - 1 micron PP cotton filter	6-12
Fourth Stage - reverse osmosis membrane	24
Fifth Stage - rear activated carbon filter	24

# 4. Replacing the Filter Cartridges

Before carrying out any maintenance on the unit first isolate the mains water supply by turning the isolation valve and storage tank shutoff valve to the off positions (as a rule if the valves handle is perpendicular to the water flow direction it is in the off position). Release any built up pressure from the unit by opening the tap and/or water gun until the pressure drops and the unit stops producing water.

To replace one of the three lower filters use the large filter spanner provided to loosen the cartridge by turning the cartridge clockwise. Once the cartridge has been loosened it can be unscrewed by hand and carefully removed. Please note that the cartridge may still be holding water and will need to be emptied before removing the cartridge safely. Replace the cartridge and screw the housing back onto the filter housings thread and lock with the filter spanner hand tight.

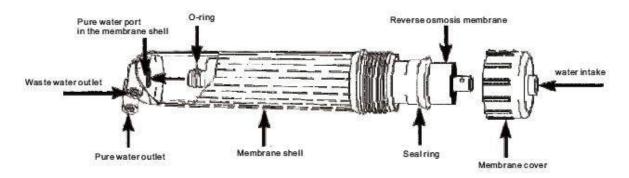


To replace one of the filters located inside the housing first lift the housing by removing the 2 screws located on either side of the unit. The housing will lift directly up along the plastic runners.

To remove the RO membrane, disconnect the RO Membrane housing from the inlet and use the small filter spanner to loosen the lid. Once the lid has been loosened it can be unscrewed by hand and carefully removed.



To replace the post membrane filter simply disconnect the filter from the inlets by activating the collets on the push in fittings. Replace the filter and ensure the pipe inlets are fully inserted into the collets.

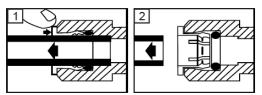


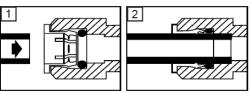
Once the required filters have been replaced check all the pipe fittings to ensure they are fully inserted into the collets then open the isolation valves and wait until the unit has filled all the empty cartridges. The unit can then be used as normal.

To remove the ¼" plugs; push in the bulkhead fitting collet to release the grips as indicated below and pull the plug out. To insert the tubing; push the tubing into the fittings sleeve as far as it goes, it may need some force to overcome the O-ring. For more information on the usage of optional extras please contact Prestige Medical or your local distributor.

#### **Bulkhead Fitting**







To remove, push in small collet and pull the tubing out.

Push tubing straight in as far as it can go.

The water production of the reverse osmosis membrane element is affected by the inlet water pressure and the inlet water temperature. The nominal 75GPD of the machine is tested at the normal working pressure of 0.5MPa and the inlet water temperature of 25 C. The normal working pressure is less than 0.5MPa. When the inlet water temperature is less than 25 C, the water production of the reverse osmosis membrane element will be lower than 75 GPD (Gallons Per Day).

#### Disposal of used filter elements

The old filter element that has been replaced cannot be cleaned before being recycled. Please dispose of any used water filter cartridges in accordance with local laws and recycling guidelines.

# **∧** Note

- Disconnect the water source (close the inlet ball valve) and remove the power supply to the Aqua Pro + immediately if any leaks or component failures arise.
- It is recommended that the mains water supply is disconnected (close the inlet ball valve) and power supply removed when the unit is not being used or left overnight.
- If components of the Aqua Pro + are damaged, it is recommended that the manufacturer or distributor of the Aqua Pro + or a professional technician be contacted to arrange a replacement. Please do not operate the unit until it has been confirmed safe to do so.
- If the Unit is used in any way not according to these instructions the manufacturer is not responsible for any damage caused.

# 7: TROUBLESHOOTING



Fault phenomenon	cause of issue	Method of exclusion
The machine does not start	Power is not connected	Check the power supply or power plug
	Raw water pressure is small or water is stopped	Check raw water pressure
	The low voltage switch is out of order and cannot be powered on.	After connecting the raw water, measure its resistance and replace it.
	High voltage switch cannot be reset	After the pressure is released, measure its resistance and replace it.
	Transformer burnout	Measure its output voltage and replace it
	Computer box has no output voltage	Measure its output voltage and replace it
The high pressure pump works normally but cannot make water	High pressure pump pressure loss	Measure the water pressure of the pump and replace it
	Inlet solenoid valve cannot enter water	Replace the water inlet solenoid valve
	Front filter plug	Observe the pure water and waste water, replace the pre-filter
	Check valve blocked	Replace the check valve
	Reverse osmosis membrane blockage	Cleaning or replacing the reverse osmosis membrane
	If the computer case is faulty, the recoil solenoid valve cannot be closed.	Measure whether the recoil solenoid valve has input voltage and replace the computer case (refer to the microcomputer type)
The machine is shut down, but the waste water is not stopped	Inlet water solenoid valve fails, can not effectively cut off water	Observe the wastewater and replace the water inlet solenoid valve
	Backstop valve pressure relief (small wastewater flow)	Observe the wastewater and replace the check valve
Afterthe wateris full, the machine repeatedly jumps	Check valve relief	Replace the check valve
	High voltage switch failure	Replace the high voltage switch
	The system has a pressure relief phenomenon	The system has a pressure relief phenomenon
	Front filter plug	Replace the pre-filter
	Reverse osmosis membrane blockage	Cleaning or replacing the reverse osmosis membrane
Machine pure water flow is small or no water	Inlet water solenoid valve failure	Replace the water inlet solenoid valve
	Check valve blocked	Replace the check valve
	Insufficient pressure of high pressure pump	Me asure the pressure of the high pressure pump and replace it

## 8: IMPORTANT SAFETY INSTRUCTIONS

## WATER REGULATIONS ADVISORY SCHEME (WRAS)

Because the UK's water supply is very high quality and suitable for consumption it is important that all measures are taken to maintain the water quality. Backflow preventers are one way to do this as it ensures that water contamination of any kind is kept to a certain location, piece of equipment or pipework.



The Aqua Pro + is fitted with a Non Return Valve (NRV) which is a form of backflow prevention as it only allows the water to flow in one direction. To restrict any chance of backflow the NRV is the first fitting in the circuit, meaning any air gaps within the circuit are kept between the outlets and the NRV.

Please note the Aqua Pro is also fitted with a 1000ml flow restrictor to ensure a steady flow is present as to not interrupt the resin beads.

#### **GENERAL SAFETY INSTRUCTIONS**

**WARNING** – To reduce the risk of burns, electrocution, fire or injury to persons;

Do Not:



Disassemble the Aqua Pro. This should only be undertaken by an authorised service engineer.



Fill the filter housings with abrasive or corrosive chemicals.



Immerse the Aqua Pro in water.



Use the Aqua Pro when sleepy or drowsy.

Please use the Aqua Pro as instructed in this operating manual. Do not use attachments not recommended by the manufacturer.



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Due to a continuous process of development, Prestige Medical reserves the right to amend the specification of products and services without notice.