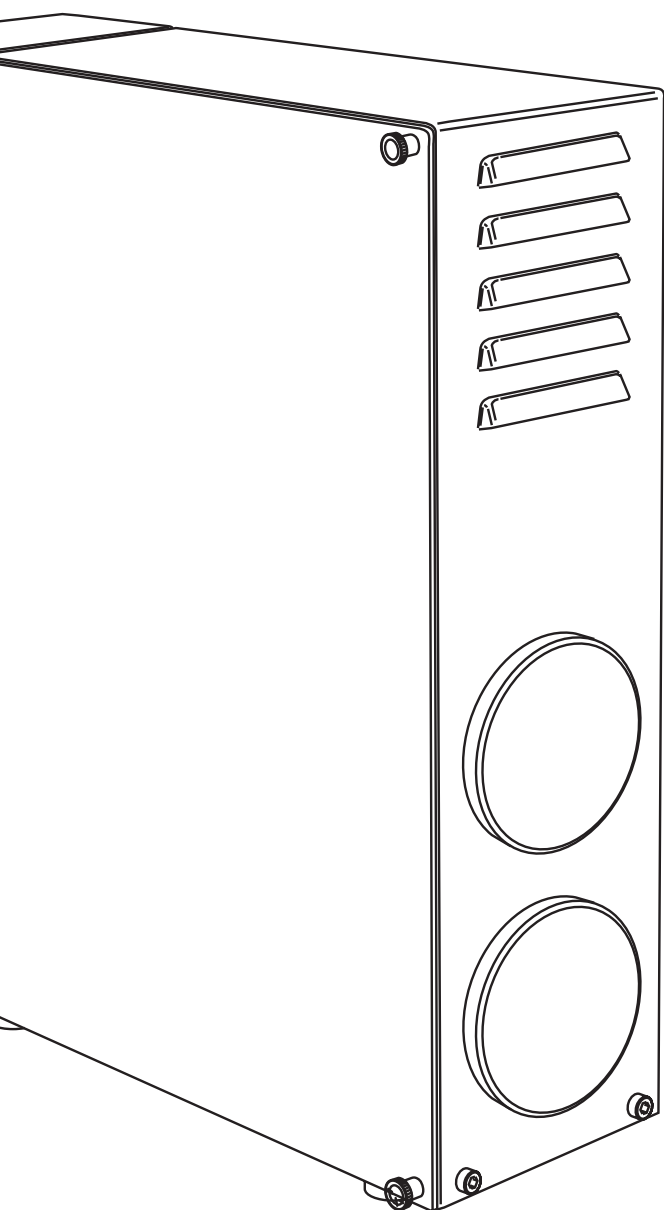


# Aquablu®

Manual

**Aquablu Pro**



Manufactured in The Netherlands

Dear Customer,

Thank you for purchasing this Aquablu purification system.

The system is designed and produced in the Netherlands with great care and attention. Ease of installation, maintenance and use with a minimum of electrical power consumption and maximum sustainability were the leading design parameters and we are confident you like the result.

Best regards from the Netherlands,

The Management and Staff of Aquablu

## **ABOUT THIS MANUAL**

In spite of its simplicity, it is essential that the system is correctly installed, maintained and used. Please allow yourself sufficient time to read and understand this manual, before you install, maintain or use the Aquablu Pro. With proper installation and regular maintenance, the system will provide many years of reliable service, protecting you and your family.

Failure to adhere to the information provided in this manual may lead to significant risks for the health and safety of people or damage to goods.

## **STORAGE, USE AND TRANSFER OF THIS MANUAL**

This manual, and other relevant documentation (such as proof of purchase, inspection and maintenance records) must be kept in a suitable and safe location for future reference. If a change of ownership occurs during the lifetime of the machine, make sure all relevant documents are transferred to the new owner.

In case the manual is lost, a replacement can be downloaded from [www.aquablu.com](http://www.aquablu.com). Downloading the manual ensures that the latest information on the system can be obtained. This manual reflects the technical specification of the system at the time of writing. The manufacturer reserves the right to amend and extend the contents of the manual to reflect the technical progress of the purification system, without rendering this publication obsolete. Contact the Aquablu technical department in case further information is needed about maintenance and repair.

We encourage our customers to share their suggestions about this manual and the product with us. Please send an email to [info@aquablu.com](mailto:info@aquablu.com) with your remarks and observations.

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## REQUIRED SKILL LEVEL

There is no need for the person who installs the system to be an accomplished plumber. Understanding how the system works and is installed and some DIY skills are however needed for a successful and reliable installation.

## REQUIRED TOOLS AND MATERIALS

Only some basic tools (screw drivers, electric drill, pliers, etc.) found in most homes will be required. In addition to the fasteners supplied in the kit, specific fasteners may be needed to suit your specific installation, depending on the nature of the surface the components are to be mounted on.



### DANGER / WARNING

This symbol indicates situations of serious danger which, if ignored, may result in serious risks to the health and safety.



### IMPORTANT

This symbol indicates important and technical information

# Health and safety instructions

## YOUR HEALTH AND THE PURIFICATION SYSTEM

The system is processing future drinking water and therefore, good care and cleanliness is required while installing and/or maintaining the system to prevent potential health risks. In particular the introduction of any polluting or contaminating materials into the system during the replacement of the membrane filter insert must be prevented.



Always wash your hands carefully when replacing filter inserts or filter cartridges to avoid the introduction of undesired materials into the filtering system.

## SAFETY INSTRUCTIONS

- Please read the instructions carefully and keep them in a safe place.
- The operator must understand the instructions before operating the purification system, and must follow all safety and operational guidelines.
- The system is intended for purification of fresh water from any source that is considered potable.
- Only use the system for the intended purpose.
- In spite of the system complying to the applicable rules and safety regulations for electrical machinery, there is always risk of injury when using electrical systems improperly.
- The voltage of the power source must be the same as specified on the rating plate of the power converter unit supplied with the machine.
- Make sure there is an earth leakage switch or automatic current differential switch in the power line to the filtering system. (e.g. 30 or 500mA).
- Do not pull the power cable over sharp edges, clamp it into place or allow it to hang down. Keep the cable away from hot and damp areas and abrasive surfaces.
- Check the system at regular intervals for damaged or defective parts. The system should not be used when it shows any visible damage, or has damage to components or any other conditions that may affect its safe operation.
- Have any damaged or defective parts repaired or replaced by an authorized Aquablu dealer. Improper repairs can cause considerable danger.
- Never attempt to remove or replace any parts other than those specified in this manual.
- Do not open/remove the plastic cover of the purification unit. Only authorized Aquablu dealer may take system components apart, unauthorized opening of system components makes any warranty void.
- Before performing any maintenance work on the filtering system, ensure that the power supply is switched off and disconnected.
- Do not operate a purification system that has not been properly maintained or equipped.
- Do not mount any purification system components on unsafe or unstable surfaces.



This Aquablu equipment does not have an ATEX certification and must NOT be operated in hazardous or potentially explosive environments.

## MAINTENANCE

The operational safety and efficiency of the purification system is largely dependent on the observance of the indications provided by the system and the instructions in this manual. Pay in particular attention to the following points:

- Only operate the purification system within the operational limits.
- Take corrective and/or maintenance action immediately when prompted or required
- Only use original cartridges and spare parts.
- The instructions in this manual are not a substitute for, but a supplement to the applicable local health and safety regulations.

## What is in the box?

### 1. GENERAL

The Aquablu Pro purification system consists the following parts, delivered in two separate boxes:

#### Box 1:

- Aquablu Pro purification unit

#### Box 2:

- Triplex pre-filtration
- Spare 5- and 20 micron filter

#### Optional:

- UV unit
- AC block post-filtration
- Float-switch

According to your local raw water quality and pressure provided by your mains connection, the size and the type of your application (house, professional kitchen, etc) further accessories are required.

Storage tanks, booster pumps (feed/distribution) and piping between the components are not included and have to be customized to your specific application. Please contact your local dealer or Aquablu HQ for further information on accessory parts.

## 1.1 PRE-FILTRATION UNIT

The filtration unit is produced in a number of specifications to be compatible with the feed water available on site. Physical appearance and installation are the same.

The filtration unit consists of three separate filters, attached to a communal connection block. All parts are made from engineering plastics suitable for drinking water systems. See figure 1a for appearance of the filtration unit.

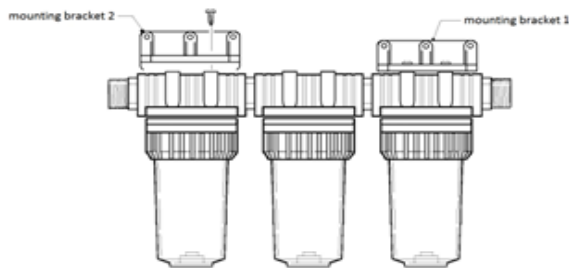


Fig. 1a: Filtration Unit

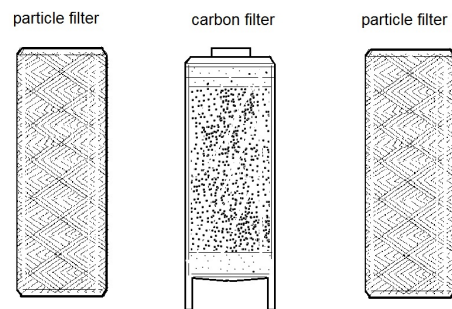


Fig. 1b: Filtration elements

The standard 9¾" triplex unit exists of two string wound filters and one activated carbon cartridge which prevent any particles larger than 20 micron in the first stage, chlorine, odor, taste in the second stage and any particles larger than 5 micron in the third stage to harm the membranes of the purifier. See figure 1b for their identification.

The individual filters can easily be removed from the connection block for replacement purposes. The filtration must be installed in between water supply and purification unit, in case a softener is part of your pre-filtration the triplex unit must be installed before it. The unit has a dedicated direction of flow indicated with an arrow on top the filter head, ensure yourself that the arrows of all filter housings pointing in the same flow direction.

Care must be taken during installation that the filters are installed in the correct order. Starting from the inlet side, first filter is the 20 micron string wound element, second the activated carbon block cartridge and third the 5 micron sting wound filter element.

## 1.2 AQUABLU PRO WATER PURIFICATION UNIT

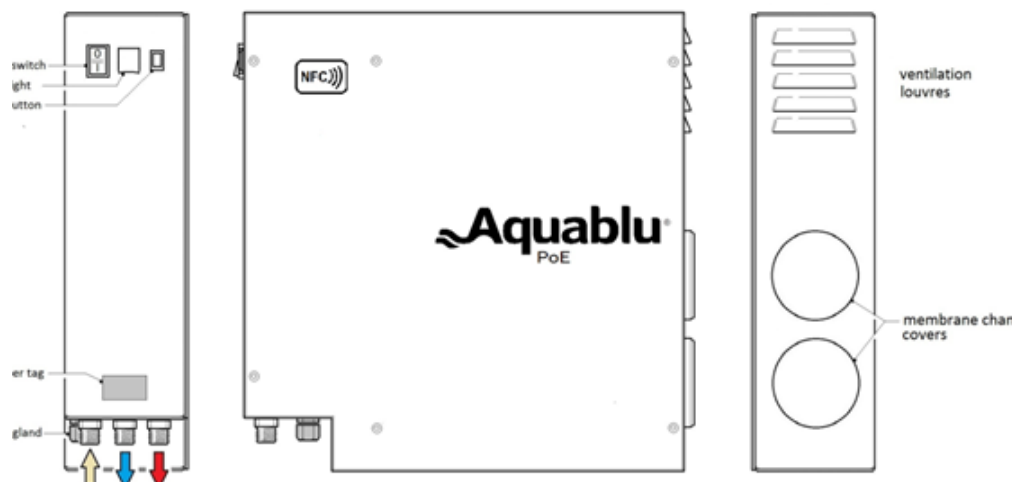


Fig. 2: Purification unit

The purification unit is housed in a stainless steel frame, enclosed by a plastic cover. The cover must not be removed, other than by an authorised Aquablu dealer. Unauthorized removal makes any warranty void.

On the left hand side (LH) of the unit are the master switch, status light and the mode button located. Below that the serial number tag is placed, just above the water connections. The front of the unit facilitates in the left upper corner the NFC contact area.

On the right hand side (RH) of the unit the two white covers of the membrane chamber are presented. At the bottom of the system there is an air inlet that must have a free space 10cm to take in air and for maintenance. All control and the central processing equipment is contained inside the enclosure.

### SERIAL NUMBER TAG (UNIT ID)

Each system can be identified by means of a Unit ID (serial number) which can be found by making contact with NFC using your Aquablu phone app. If no phone is near you the serial number tag can be found at the bottom of the system. See Fig. 3 for the appearance of the tag.

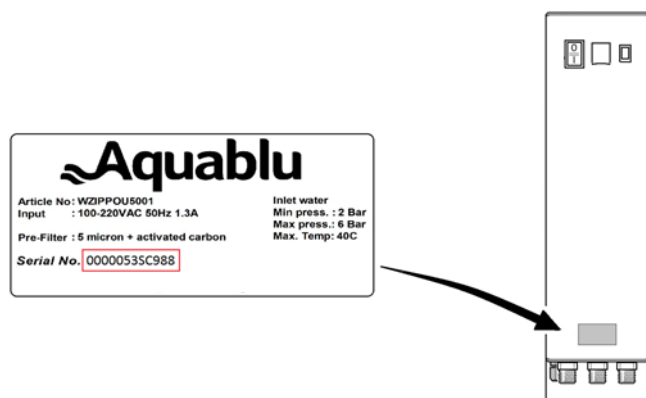


Fig. 3: Aquablu unit ID

Always include the Unit ID of the unit in all communication with your dealer or Aquablu service department when requesting support or spare parts.

When requesting support for a technical issue, make sure the trouble shooting procedure in de Aquablu app has been consulted and followed first.

# How does it work?

## SYSTEM DESCRIPTION

Purification takes place in three stages. Pre-filtration – purification – post-filtration. The pre-filtration unit exist of three cartridge filters, a 20 micron string wound, a 10 micron activated carbon block and a 5 micron string wound cartridge to provide ideal protection for the membranes. Please note that according to your water source quality additional pre-filtration such as sand-filters and/or a softener may be required. Please see max. raw water specifications on page 31 under technical data.

After having passed the pre-filtration unit, the water is pushed into the purification unit where a pump pressurizes the water stream to 6-8 bar initializing the purification process through the membrane. In the membrane two separate water streams are generated.

1. The permeate water stream, which is led through the controller block, and then leaves the purification unit. Optionally this could go towards a permeate tank. The permeate may then be further treated by an UV unit to eliminate possible bacterial contamination accumulated while in storage.
2. The rejected water stream, which rinses and flushes the membrane from collected impurities. The rejected water may be collected for further use as shown in figure 10 overview or needs to be discarded.

## MEMBRANE PURIFICATION AND REGENERATING PRINCIPLE

The pre-filtered water is pushed into the membrane at maximum pressure of 8 bar by the pump, in the membrane the flow is pushed in 2 directions, one direction is the reject and the other direction is through the membrane. The reject is pressurized by a spring that creates a resistance of 2 bar, this is a factory set control valve in the reject circuit.

As the feed water is pushed through the membrane filter, the suspended dissolved pollutants collide with the membrane tissue and stick to it. Most of the pollutants are flushed away with the reject water. As a result of this the efficiency of the membrane will slowly deteriorate. If the efficiency drops below a certain value, the CPU of the system will initiate a flush cycle, in which water is pumped through the membrane without back pressure. The contamination is pushed out, and washed away into the drain through the reject water port. This action is known as membrane flush. After flushing the membrane performance is restored nearly to the initial value. During a flush (30 - 60 sec) the system cannot produce purified water.

## HOW IS THE PROCESS CONTROLLED?

When the system is powered up, and a correct feed water pressure (>1.5 bar <3 bar) is detected, the solenoid valve in the feed water inlet tube is opened, and water from the filtration unit fitted between the feed water source and the purification unit is admitted to the purification unit. At this entry point also a temperature sensor and a non-return valve are fitted.

From the entry point the feed water is pushed under feed water pressure to an electrical pump that forces the feed water under high pressure through the membrane. Pump pressure is monitored in the pressure line to the membrane, while pump motor current is also measured as a process parameter.



Once the purified water is through the membrane its temperature, electro-conductivity and flow rate is measured to monitor the quality and quantity which are the main parameters that determines the membranes condition.

A pressure regulator provides the correct back-pressure in the reject stream to reach the nominal pressure on the membrane. During a flush an additional solenoid valve opens a by-pass channel which makes it possible to use the full pump pressure. All flushes are automatic but can also be initiated manually.

All sensors and valves are contained in the measuring and control block that also houses a CPU that translates pressure and temperature into digital information. From the purification unit when placed as a point of use installation the water is led through the mineral cartridge and then to the faucet. When placed as a vending or whole house solution the water will go to a permeate tank.

See figure 8 for an explanation of the valve block.

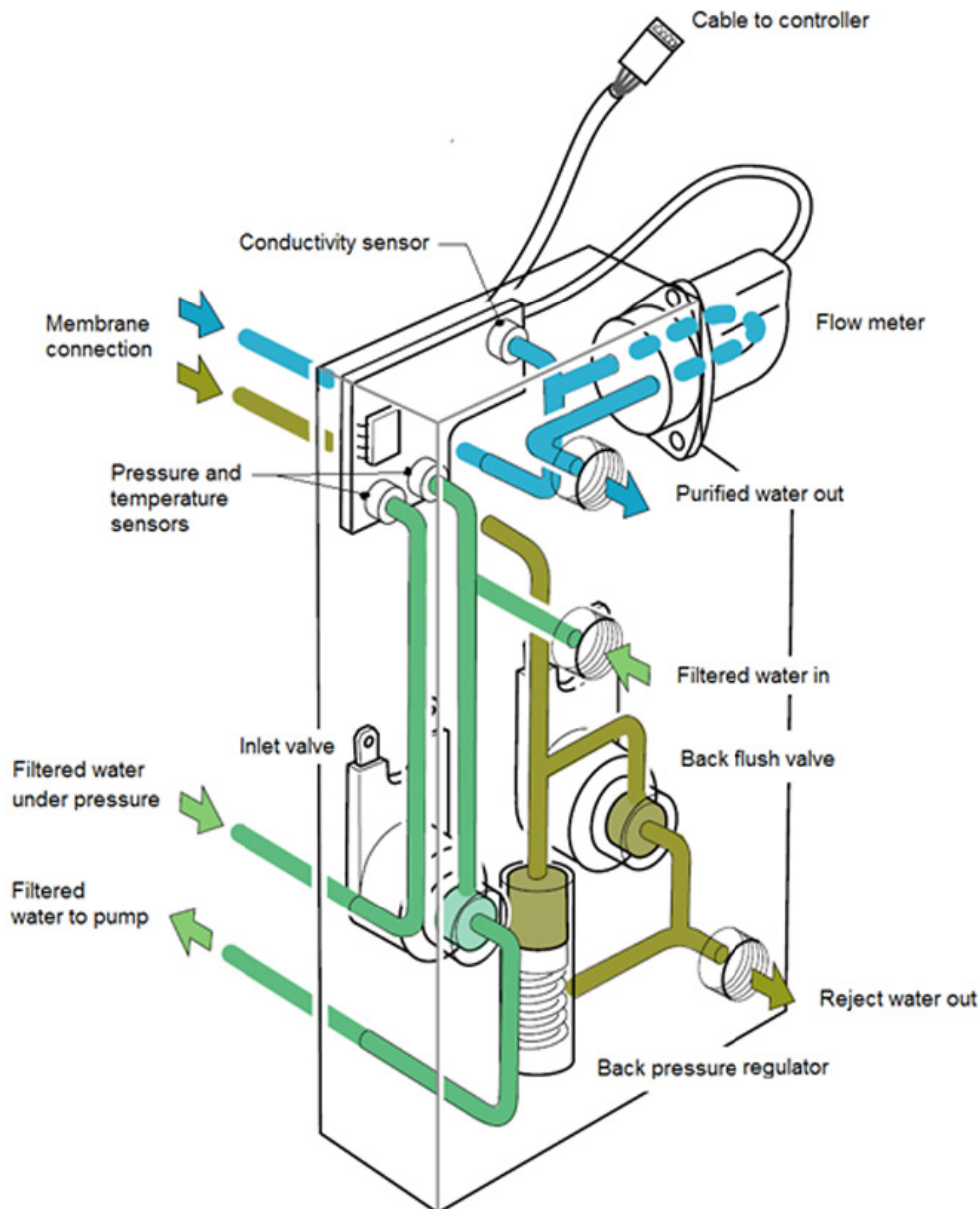


Fig. 8: Valve block

# What is under the bonnet?

To give an impression of the relative simplicity and compactness of the Aquablu Pro see figure 9a below for an overview of the major components in the unit.

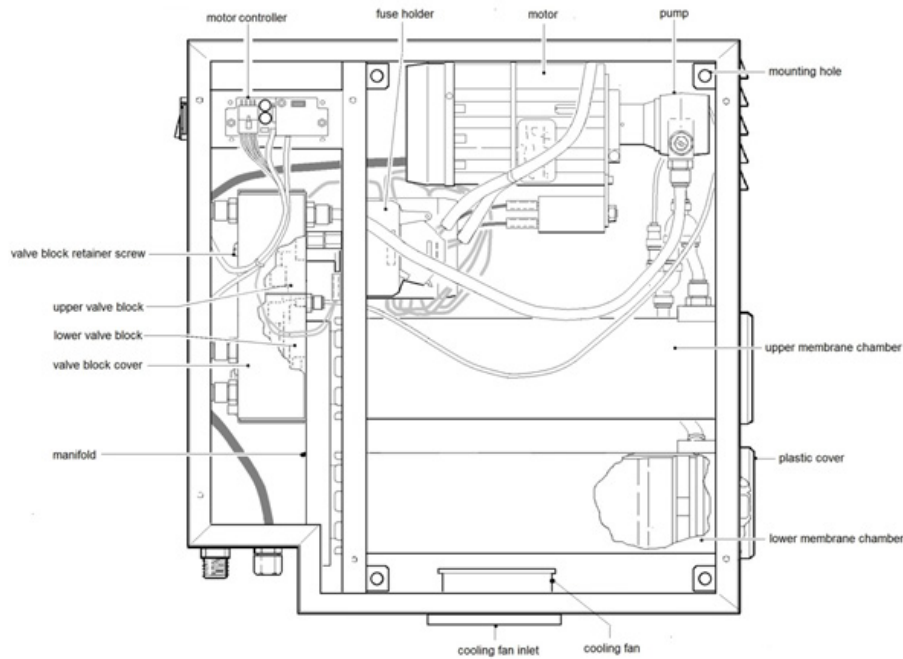


Fig. 9a Front view of unit with cover plate removed.

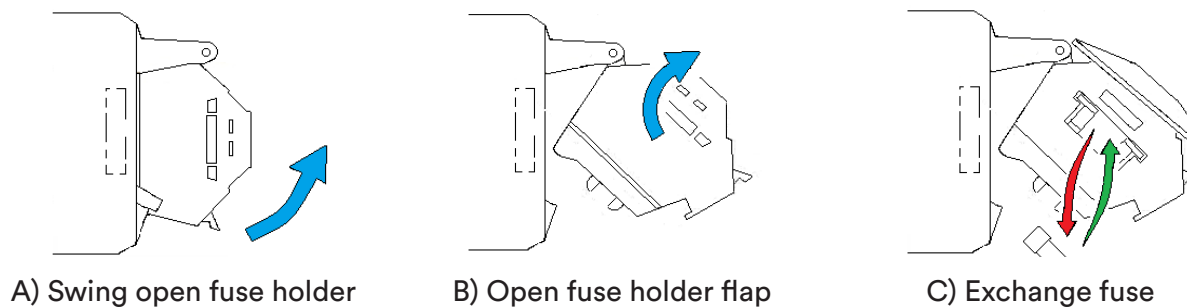


Fig. 9b Changing the electrical fuse

# System overview (as whole house solution)

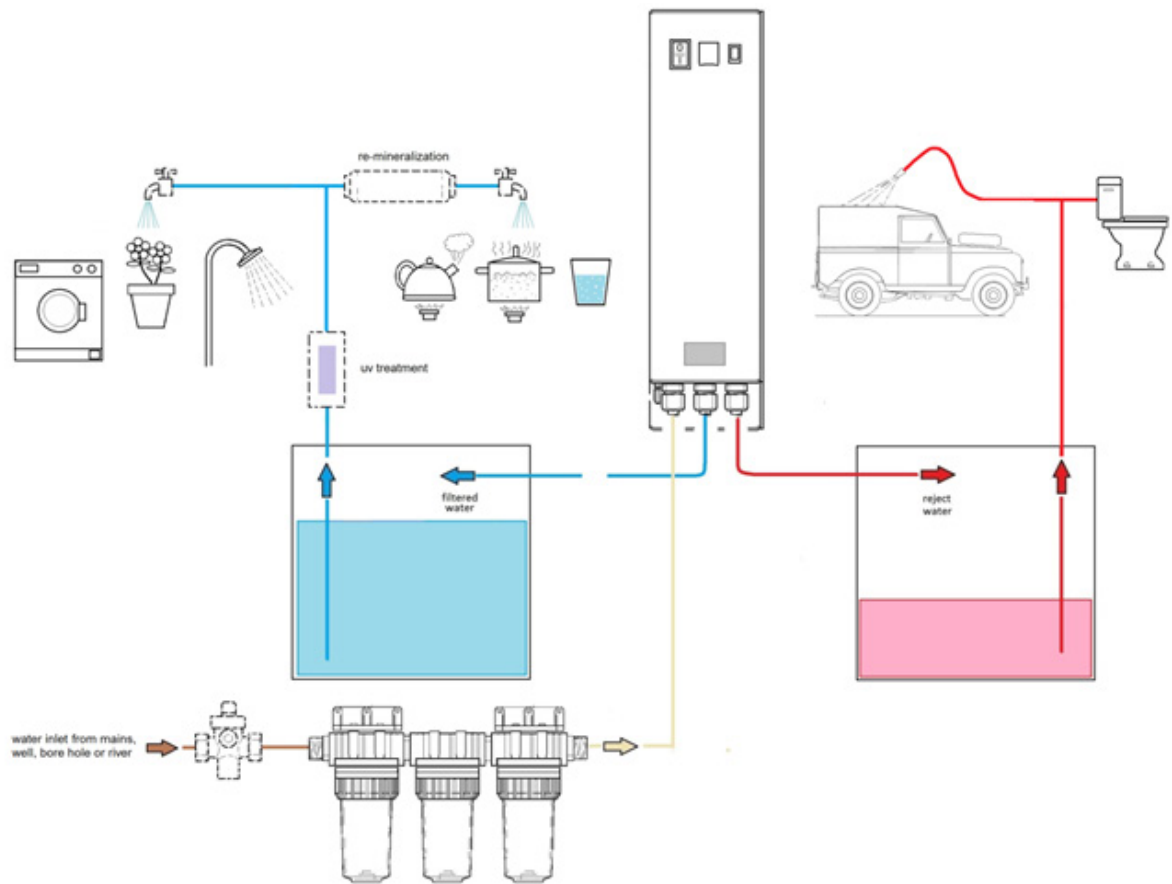


Fig. 10: System overview



In water mains fed systems, the reject water may under no circumstances be fed back into the system. Not observing this may cause a serious health hazard to the water mains system! Discard the reject water in the sewage system or (preferably) in a grey water system.

# How does it communicate?

Simple communication between any machine and its user is the basic rule to gain trust in technical equipment. Understanding that not all Aquablu owners are chemical engineers nor masters of fluid technologies, simple communication is one of the corner stones of our development.

Smart communication via NFC enables you to get direct insights into the technical status of your system and the water quality at any moment of time. The read out is performed using the Aquablu app. The more scans you perform the better it allows you to share the responsibility for the maintenance directly with your local Aquablu service partner without any additional costs or effort. On top of that, the Aquablu Pro is also fitted with a multi color light and a LED indication on tap level which indicate the system status in a more conventional way.

## NFC (NEAR FIELD COMMUNICATION)

The CPU of the purifier controls over 96 parameters and thereby monitors the water quality as well as the technical status of the system. This data can be read out by holding the Aquablu app close to the NFC sign on the left side of the Aquablu Pro casing. The NFC will launch the service web page and will provide you with a list of all vital information. Subsequently, the whole list of 96 parameters is sent to your local Aquablu service partner, as well as to the Aquablu HQ. This information allows technical insight into the system and determines if any physical maintenance is required.

In order to activate the NFC in your smartphone, you must download the Aquablu app in the IOS or Google play store.

## MAKE SURE YOU HAVE THE LATEST AQUABLU APP INSTALLED

Download: [Google Play Store](#)

Download: [Apple Store](#)

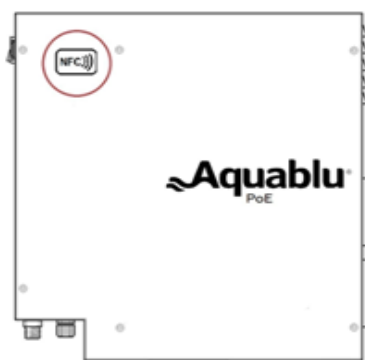


Fig. 11a Location of the NFC contact area

# 1 INSIGHT INTO THE WATER QUALITY

Simply scan the NFC chip and let the App give you insight into the quality of your drinking water.

# 2 AN OVERVIEW OF YOUR PURIFIERS

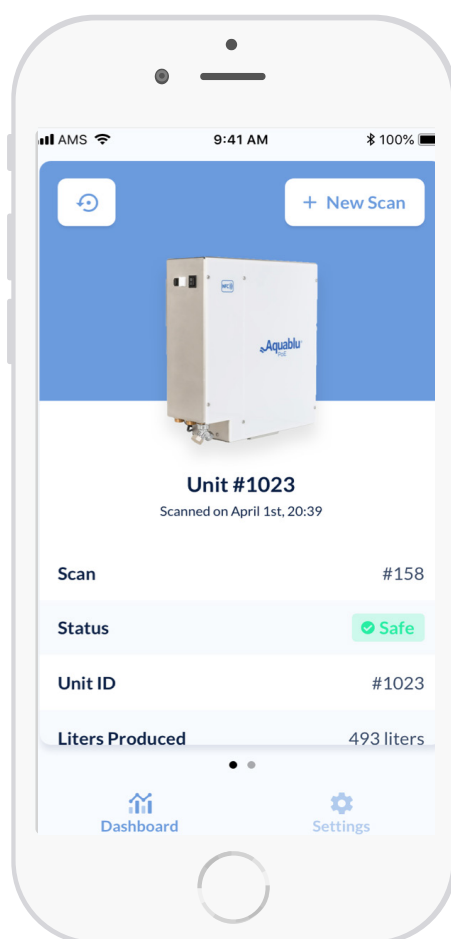
Check and compare the results for each system.

# 3 HELP WITH TROUBLESHOOTING

No need for thick manuals or unnecessary maintenance visits. The answer is right in your hand.

# 4 OFFLINE & ONLINE

The NFC does not require internet, allowing the dealer to service the system in remote locations. The App automatically sends the info when back online.



## DESCRIPTION OF CONTROLS AND VISIBLE AND AUDIBLE SIGNALS

Please see Fig. 2 for the location of the multi color light and NFC contact area.

The purification unit itself communicates its status by means of the status light on the front of the unit, and by audible signals. To provide detailed communication, both the status light and the audible signalling have a range of different signals available. Light signals are used for normal communication, and audible signals are only used in “emergency” situations, where immediate action of the operator is required.

### VISIBLE SIGNALS

The status light can show different colours in differing patterns to indicating the status of the unit. The possible colours are:

White ○      Green ●      Yellow ●      Red ●      Purple ●

#### The available patterns are:

Steady	○
Single flash	○ ∪ ∪ ∪ ∪ ∪ ∪ ∪
Double flash	○ ∪∪ ∪∪ ∪∪ ∪∪
Triple flash	○ ∪∪∪ ∪∪∪ ∪∪∪
Quintuple flash	○ ∪∪∪∪ ∪∪∪∪ ∪∪∪∪
Quick flash	○ ∪∪∪∪∪∪∪∪∪∪∪∪

The default “no problem” standby status is a steady green light.

### Audible signals

Audible signals are only used in “emergency” situations, where immediate action of the operator is required. The possible sound patterns are:

Constant	(( ————— ))
Intermittent	((●)) ((●))
Quick	((●)) ((●)) ((●)) ((●)) ((●)) ((●))

# How do I install it?

The installation of a complete Aquablu Pro solution includes as mentioned three main stages of water treatment. Pre-filtration, purification and post-filtration. Besides the treatment equipment a variation of feed, respectively storage tanks as well as feed and/or booster pumps may be required.

The Aquablu Pro package includes the three main stages, configuration. It is recommended to involve your closest Aquablu dealer or your local plumber for the complete installation. Below find the installation procedure for the components provided in this package. Each additional equipment such as specific pre-filtration

## INSTALLATION CONSISTS OF THE FOLLOWING STAGES

- 1) Mechanical installation
- 2) Hydraulic installation
- 3) Electrical connection
- 4) Commissioning

## MECHANICAL INSTALLATION

Mechanical installation consists of mounting the pre- filtration unit on the wall, taken into account that some space is needed below the system in order to exchange the filters. Be aware that while opening the pre-filters water can splash out the housing. Make sure to install all components, hoses and cables in such a manner that they are not in contact or exposed to a heat source.

## PRE-FILTRATION UNIT

The pre-filtration housing has mounting holes on top to which the white mounting plate supplied in the set must be attached. Make sure to install it that way that the vent plugs can be reached. For this purpose mounting screws of the correct diameter and length are supplied. It is imperative only these screws, or screws with identical dimensions (4.8×19mm) are used to prevent damage to the filter housing.

The mounting plate can be attached to the filter housing from both sides according to the available space. The direction of flow is indicated on the housing.

See figure 12 below for a visual reference.

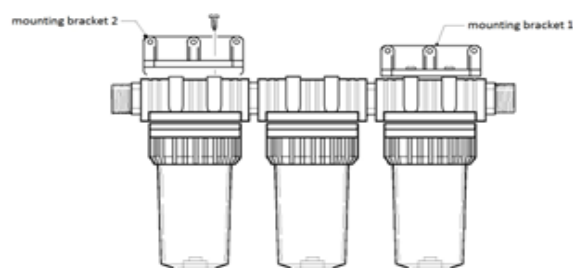


Fig. 12 Bracket mounting

With the mounting plate fitted to the top of the filtration unit, the unit must be attached to an appropriate side place on the wall. Keep in mind that the vent plugs must be accessible. The unit must be located in such a way that the clear plastic filter containers can be removed later for installing and/or changing the filter elements. The unit must be located in such a way that the connecting hoses can be fitted without sharp bends or kinks. Please install the unit as close to horizontal as possible to prevent air gapes.

It is advised to fit the filter cartridges to the unit at this stage. Starting with 20 micron, the activated carbon and 5 micron filter.

## MOUNTING THE AQUABLU PRO PURIFIER

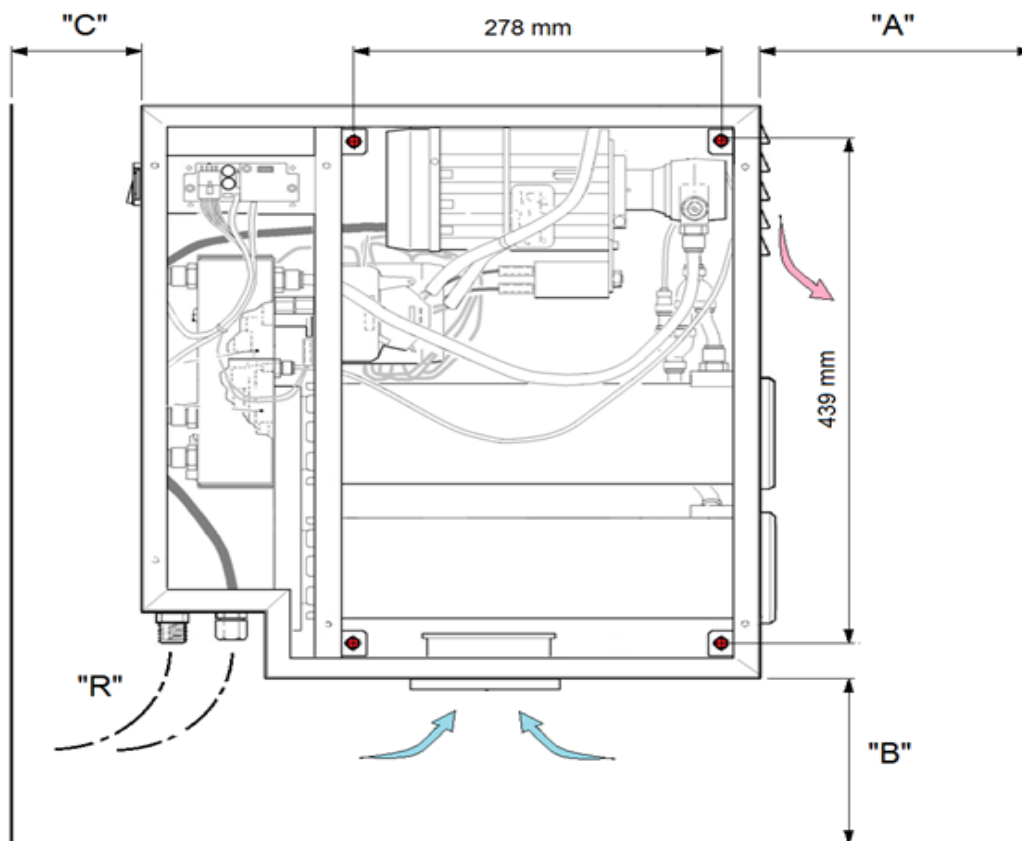


Fig. 13 Installation dimensions

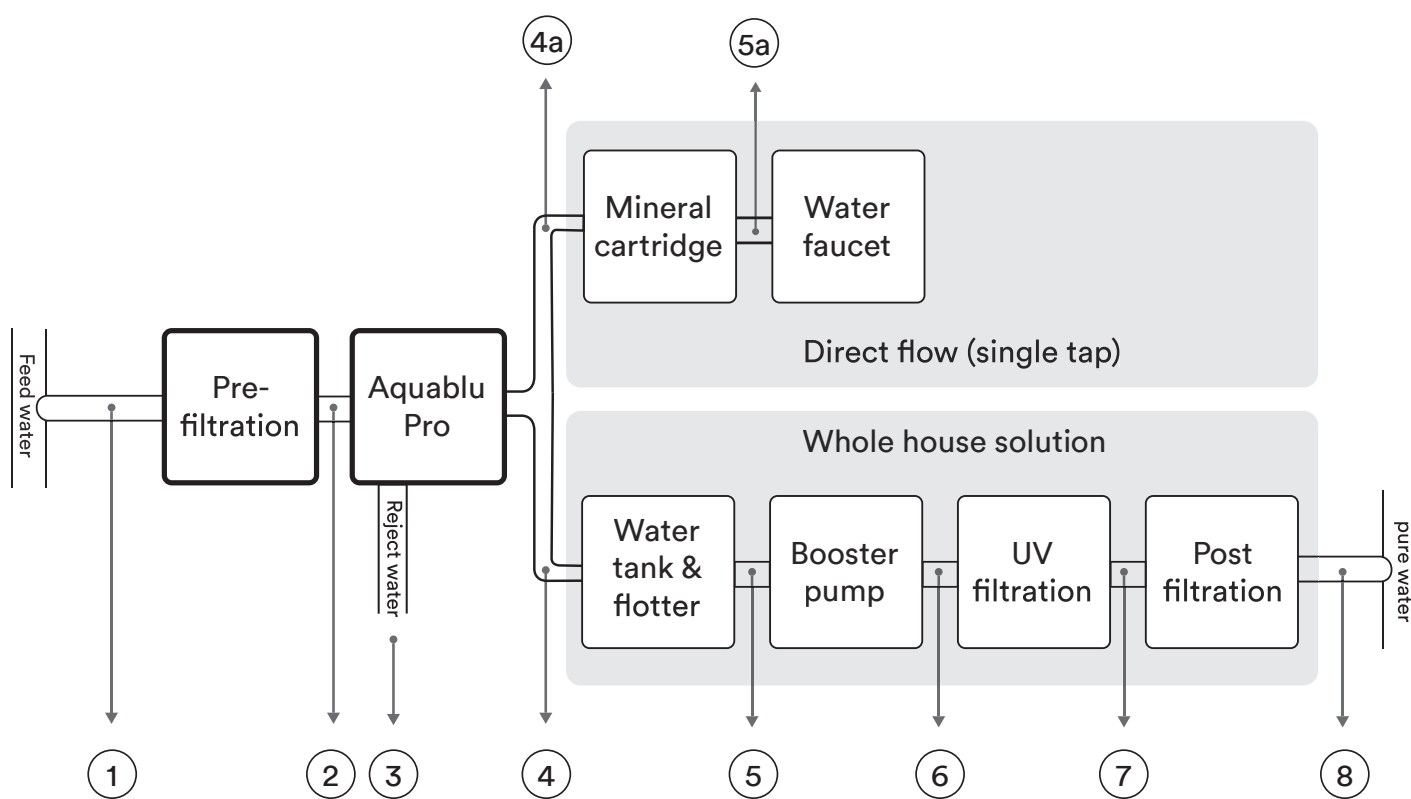
	Function	Dimensions
●	Location of wall mounting hole	See drawing
A	Space required to remove the membranes	500 mm
B	Ventilation space	500 mm
C	Space required to operate the device switch	250 mm
R	Minimum bend radius of cable and hose	100 mm

Mounting the unit to a solid back wall with the rubber plugs and screws that are delivered within the box. The rubber plugs will fit a 14mm hole that is 6cm deep, these plugs will reduce possible vibrations. Free space is needed in order to exchange the membranes. Take into account that water can drop out while exchanging the membranes. (approx.. 0.5l per vessel)



# Hydraulic installation

The Aquablu Pro system can be used in different ways. For direct flow (single tap) installation follow guide 1. For a whole house solution please follow installation guide 2.



Independent of your installation guide, it is important to read the following information carefully.

**BE AWARE:** Aquablu systems are delivered with either direct flow or whole house solution software pre-installed. This cannot be changed after delivery so make sure your purchase matches with the installation guide you follow.

## HOSE PREPARATION

The system holds 3 hoses 300mm long and have a  $\frac{3}{4}$ " female connector. Look before connecting these hoses if the o-rings are in place. Make sure to install all hoses in such a manner that they are not in contact or exposed to a heat source.

## HOSE LENGTHS

With the components fitted and placed in their respective final locations, the hose connection can be established. The hoses must be dimensioned in such a way that they can be fitted to the individual components without sharp bends or kinks, or over stretching. Make sure that when purchasing extra hose from external sources the hoses are of the correct diameter and are genuine food grade quality.

**WARNING: INSTALLATION IN AREAS WITH MAINS PRESSURE ABOVE 3 BAR**

In areas with a mains pressure above 3 bars, the pressure reducer supplied with the kit **MUST** be installed to prevent damage to the equipment. The pressure reducer must be installed directly onto the mains supply tap, to ensure the water pressure on the pre-filtration unit does not exceed the 3 bar maximum. The screw/push in connector must be attached to the low pressure side of the pressure reducer.

**WARNING: INSTALLATION IN AREAS WITH LOW WATER PRESSURE**

In installations where the pressure on the input side of the purification unit is below 1,5 bar, it is **RECOMMENDED** to install a feed pressure pump that provides an input pressure between 1,5 and 3 bar.

**1. CONNECTING THE WATER MAINS TO THE FILTRATION UNIT**

A threaded (G 3/4") connector is supplied in the kit to connect the system to the water supply. If the water supply has another connection, a suitable coupling must be sourced locally. The filtration unit can be connected directly to the feed water line, we advise to mount a closing faucet for maintenance use. Make sure the hoses does not apply any lateral or axial forces on components when installed. Make sure the connections are watertight.

**2. CONNECTING THE PRE-FILTRATION UNIT TO THE PURIFICATION UNIT**

The outlet connection of the filtration unit and water intake connection of the purification unit are both 3/4" connectors.

**3. CONNECTING THE AQUABLU PRO TO THE WATER DRAINAGE**

A threaded (G 3/4") / push-in connector is supplied in the kit to connect the system to the drain. If the drain system has another connection, a suitable coupling must be sourced locally. In either case, a length of 10 mm diameter hose must be securely fitted to the push-in coupling side of the coupling. The other end of the hose must be securely fitted to the push-in coupling of the reject water port of the purification unit.

**INSTALLATION GUIDE 1 - DIRECT FLOW****4a. CONNECTING AQUABLU PRO TO MINERAL CARTRIDGE**

Only follow this step if you have purchased an additional mineral cartridge with your Aquablu Pro. Connect the Aquablu pro with a 15 mm hose using a threaded G 3/4" M - 15 mm push-in connector. Use a 15 - 12 mm converter to connect the Aquablu Pro with the mineral cartridge.

**5a. CONNECTING THE MINERAL CARTRIDGE TO FAUCET**

The mineral cartridge has a build in 15 mm push - in connector. Cut a piece of 15 mm hose long enough to connect the mineral cartridge with the faucet. To connect the hose to the faucet you need a 15 mm - 8 mm diameter converter and a 5/16" M - 5/16" F connector. For instruction of installing the faucet please follow the faucet installation guide.

## **INSTALLATION GUIDE 2 - WHOLE HOUSE SOLUTION**

### **4. CONNECTING THE PURIFICATION UNIT TO THE WATER TANK**

A threaded (G 3/4") float switch is supplied in the kit to connect the system to the permeate (clean water) tank. It is used to maintain a pre-fixed level inside a storage tank. The fitting on the water tank can vary and a connector must be sourced locally.

Make sure the float switch is mounted correctly and that it can move vertical in a free way to ensure a proper closing of the water flow from the purification unit. There must be an overflow in the tank that is connected to the drain. If the tank drain system has another connection, a suitable coupling must be sourced locally.

### **5. CONNECTING THE WATER TANK TO THE BOOSTER PUMP**

If your system required a booster pump the required accessories need to be sourced locally or through your plumber.

### **6. CONNECTING THE BOOSTER PUMP TO THE UV FILTER**

Dependant on the booster pump acquired a connector to a 15 mm hose needs to be made. The hose can be connected to the UV filtration filter using a threaded G 3/4" M - 15 mm push-in connector. If the UV system is not yet installed please follow step 1-11 on page 19.

### **7. CONNECTING THE UV FILTER TO THE POST FILTRATION**

A threaded G 3/4" connection is supplied in the kit to connect the post filtration to the UV system.

### **8. CONNECTING THE POST FILTRATION TO YOUR MAIN WATER PIPE**

A threaded G 3/4" connection is supplied in the kit to connect the post filtration to your water pipe. The connection with your water pipe can vary and need to be sourced locally.

## UV SYSTEM

Description:	304 Stainless Steel Ultraviolet Water Disinfection System
Applications:	Drinking water, food processing, medical and industrial etc.
Function:	Killing bacteria, viruses, molds and algae in water.
Power consumption:	8W-72W
Power supply:	110V or 220V 50/60Hz (12V on special request)

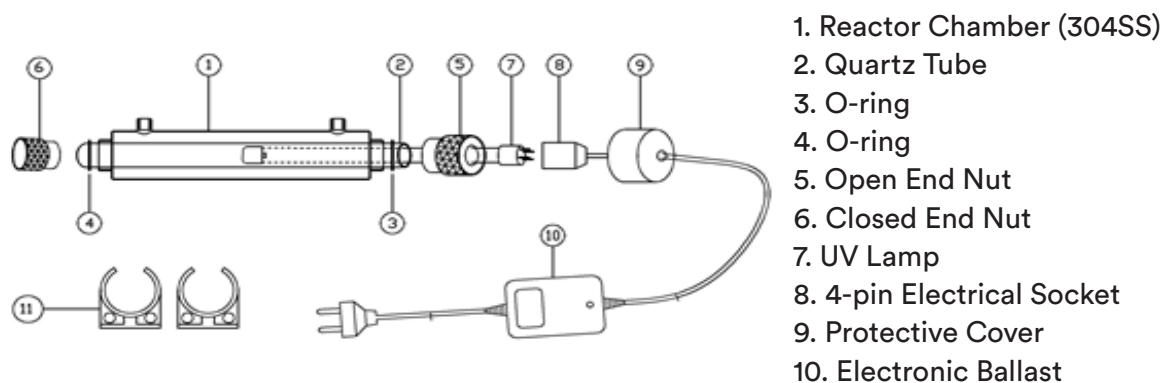


Fig. 14 UV unit

### UV INSTALLATION STEPS:

1. Open the package to check all components are there: Reactor Chamber, UV Lamp, Quartz Tube, O-ring, Electronic Ballast and Support.
2. Make the Quartz Tube and UV Lamp clean before installation (clean with alcohol or mild detergent). Wear soft non-abrasive gloves to prevent finger marks.
3. Remove both Open and Closed End Nut from the Reactor Chamber.
4. Install O-ring onto the open end of Quartz Tube (12mm from the edge).
5. Insert the Quartz Tube into the Reactor Chamber.
6. Install O-ring onto the closed end of Quartz Tube.
7. Hand-tighten the Closed End Nut on the Reactor Chamber (closed end of Quartz Tube). To protect the O-ring, do not over tighten.
8. Hand-tighten the Open End Nut on the Reactor Chamber (open end of Quartz Tube). To protect the O-ring, do not over tighten.
9. Tightly connect the 4-pin Electrical Socket with the UV Lamp pins.
10. Carefully insert the UV Lamp into the Quartz Tube through Open End Nut.
11. Install the Protective Cap on the Open End Nut by hand.

## SYSTEM OPERATION

### a. Water Quality Guidelines

The Ultraviolet Disinfection System is intended for the use with visually clear water, not colored, cloudy or turbid.

- Ambient Water Temperature: 2-45 ° C
- Iron: <0.3ppm (0.3mg/l)
- Hardness: <7gpg (120mg/l)
- Turbidity: <1 NTU
- Manganese: 0.05ppm (0.05mg/l)
- UV Transmittance: >75%

- b. Recheck the installation before plug the sterilizer into power.
- c. Do not proceed to install the equipment when UV Lamp or Sleeve Tube is broken, buy one again and continue.
- d. Ultraviolet Disinfection System is designed for continuous operation and frequent switching will reduce Ultraviolet radiation and service life.
- e. If this unit falls into the water, turn main power off and then retrieve it. Do not attempt to use this sterilizer if it has been submerged.
- f. Do not operate this unit if it has a damaged cord or plug, if it is malfunctioning or if it has been dropped or been damaged in any manner.
- g. The UV system should be installed after the filter on the return line.
- h. Always disconnect the water supply and completely drain the water purifier if it will be subjected to temperatures below freezing for extended periods of time.

## IMPORTANT SAFEGUARDS

- a. UV light is not visible to human eye, but harmful to eyes and skin. Never look directly at the light tube while device is in operation.
- b. Do not remove the UV Lamp from the Reactor Chamber when applying electrical power. WEAR SAFETY GOGGLES if you need to look necessary.
- c. Basic safety precautions should always be followed to reduce the risk of fire, electric shock. Make sure the leakage protection switch is installed before use.
- d. Please do not touch the UV lamp directly in case of burning. A pair of gloves would be better when maintenance is performed. Never look direct into the UV lamp/ unit when power is on.

## SYSTEM MAINTENANCE

- a. Testing monthly or before each use.
- b. Lamp replacement is recommended every 8000 hours of operation. After 8000 hours, the lamp may still light, but the UV intensity has diminished.
- c. Cleaning of the quartz sleeve once 3-6 months with alcohol or a mild detergent.

### NOTE:

To save the energy, turn off the power and water supply if you do not use the equipment for a long time.

## POST FILTRATION

Attach the post filtration after the permeate tank. This filtration is installed similarly to the pre-filtration unit. The post-filtration consists of one housing containing a Activated carbon (AC) filter.

# Commissioning the system

Once all hardware components are installed the commissioning sequence can be started. Make sure that the AC power supply unit is plugged in on the mains 230V-50Hz plug while the power on the Purifier is still at “0”.

**THE COMMISSIONING SEQUENCE BELOW MUST BE FOLLOWED TO LETTER.**

**Use these commissioning steps if you connect the Aquablu Pro to a tap (direct flow)**

1. Open the raw water supply (feed water).
2. Slowly fill the pre-filtration unit with water by slightly opening the vent plugs (Flathead screw on top of the filtration head) until it is completely filled. Follow this process with the pre-filters one after the other, be prepared that there will be some water coming out. If the process is complete, fasten the vent plugs hand tight.
3. Open the Aquablu water faucet.
4. Press and hold the mode button on the rear of the unit (black rectangular button).
5. Push the power switch on the rear of the unit from “0” to “1” and hold the button pressed until you hear the pump motor starts. After applying power, the system will show a single flash in white, green, red, blue, purple, yellow. After flashing all colours once the pump will start up and a green single flash will be shown during the whole preparation and commissioning cycle (ca. 9-10 minutes). During the commissioning cycle the system switches between flushing and production to rinse out the membrane storage solution and any air which might have been accumulated during in transport.  
\* Due to air in the newly installed piping it is possible that the systems “low input pressure” alarm is triggered, the system will come in operation when pressure is back to normal).
6. After approximately 10 minutes the control light on the unit will change to steady green and the water faucet needs to be closed within 30 seconds. A constant acoustic tone will indicate that the commissioning start is finished.
7. If you successfully close the water faucet within 30 seconds, the commissioning start is finished and the unit is standby and ready to use. The light on the water faucet will display double flashing blue light.  
\* Failing to close the water faucet within the following 30 seconds, a yellow triple flash will be shown in combination with a steady audible signal, urging the operator to close the tap. Having closed the water faucet outside the 30 seconds available the machine will stop, the mode button on the rear of the unit must be pressed once, to initiate a bacteria flush (ca. 30 sec.) to ensure the safety of the purified water. After completing the bacteria flush operation a steady green light will be shown indicating that the commissioning start is finished.
8. If you have purchased a mineral cartridge the cartridge monitor must be set. It is set by the system to 9.000 liters and will count down as the water is being mineralized. Press the reset button three times (fast), open the faucet for 3-5 sec and close it. A steady green light will be shown on the unit, a steady blue light on the faucet.

-end of the commissioning-

**Use these commissioning steps if you connect the Aquablu Pro to a water tank.**

1. Open the raw water supply (feed water).
2. Slowly fill the pre-filtration unit with water by slightly opening the vent plugs (Flathead screw on top of the filtration head) until it is completely filled. Follow this process with the pre-filters one after the other, be prepared that there will be some water coming out. If the process is complete, fasten the vent plugs hand tight.
3. Disconnect the hose from the external water tank and replace it with the cap on the Y-fitting underneath the system.
4. Press and hold the mode button on the rear of the unit (black rectangular button).
5. Push the power switch on the rear of the unit from “0” to “1” and hold the button pressed Until you hear the pump motor starts. After applying power, the system will show a single flash in white, green, red, blue, purple, yellow. After flashing all colours once the pump will start up and a green single flash will be shown during the whole preparation and commissioning cycle (ca. 9-10 minutes). During the commissioning cycle the system switches between flushing and production to rinse out the membrane storage solution and any air which might have been accumulated during in transport.  
  
\*Due to air in the newly installed piping it is possible that the systems “low input pressure” alarm is triggered, the system will come in operation when pressure is back to normal).
6. After approximately 10 minutes the control light on the unit will change to steady green and the system will shut down.
7. Set the power switch back to “0” and connect the clean water hose (mentioned in point 3) back to the clean water tank and close of the Y-fitting with the cap.
8. Power up the purifier by pushing the power switch from “0” to “1”, a flush is performed and the system will start producing. The system will stop purifying once the water tank is filled up completely or if you close the water tap.
9. When the tank is full the float switchv will be closed, when the purifier reaches the pre set pressure level, the system will go into stand-by.

-end of the commissioning-

# Using and supervising the system

In essence using the system consists of operating the water faucet, and enjoying the safety and good taste provided by the Aquablu Pro unit.

The system is designed in such a way that routine checks and regeneration of the membrane is taken care of by the system itself.

During normal operation, the blue light on the water faucet will be illuminated, and the indications in the App will state “SAFE” and the indications shown will be visible on the purification unit.

**INDICATION:** 

Steady green light – Water faucet closed:

**Status:** Unit is ok, and in standby mode

**INDICATION:** 

Green single flash – Water faucet closed or open

**Status:** Unit is ok, but performing a membrane flush

Membrane flushing is started automatically when one of the following conditions is met:

- A) When production volume drops below 40 liters per hour for more than 6 seconds.
  - B) When the water faucet has been opened and closed 10 times since the last flush.
  - C) When 5 liters of water has been produced.
- Flushing (for whatever reason) resets the 10 minutes and 10 openings counters to zero.

If during normal operation, the light on the water faucet will be illuminated in RED, you should scan the NFC chip and let the App give you the insights. If no phone is near you, the system status can be read out in a more conventional way using the status light on the purification unit.

**Immediate attention is required if an audible signal is given in addition to a red light on the water faucet.**

Blue flushing on the faucet indicates a flush when the system is in standby, blue flash while in production indicates “Warning” on water quality or quantity. The Indication light will flash yellow.

Please consult the Chapter “Trouble shooting” for the actions to be taken, or consult your local dealer immediately.



# Troubleshooting the system

## THE APP

Trouble shooting has never been this easy! No need for complicated manuals or unnecessary phone calls. The answer to all your technical issues is right in the Aquablu app. By scanning the NFC chip with your phone you get all the insights into the system. When a problem may occur the App will guide and help you with the troubleshooting. By clicking on the info sign (i) in the “status” row in the App, it is able to explain you the problem (error code) and provide you with the steps necessary to solve any technical issue. Still need help with troubleshooting? No worries! Use your account to log into the app, make a new scan and communicate your Unit ID to your closest dealer or Aquablu HQ and we help you further. Always make sure to update the App to have the latest version.

## VISIBLE SIGNALS SYSTEM

Troubleshooting may sound a bit daunting, but in most cases the troubleshooting consists of a quick inspection of the purification unit. See section “How does it communicate” for the signal combinations. The faucet lamp is designed to give real time information on the systems status. Standby and ready for production, Quality/quantity warning and error. Details are indicated in the app but also on the signal light on the front of the purification unit. If a red light is shown in combination with an audible signal, the under sink unit must be inspected immediately for further indications.

**INDICATION:** 

Light on water faucet constant blue, Light on unit green,  
water is available from faucet:

**Status:** Standby-by, ready for production.

**INDICATION:** 

Light on water faucet blinking blue , Light on unit green double flash,  
water is available from faucet:

**Status:** Mineral cartridge depleted.

## REQUIRED ACTION

Replace mineral cartridge and reset system (see “mineral cartridge exchange and reset” in the “Servicing the system “section)

**INDICATION:** 

Light on water faucet blinking blue while in standby, Light on unit green  
blinking, no water available from faucet.

**Status:** Bacteria flush, repeating every eight hours. After flushing the system goes back to standby.

**INDICATION:** 

Light on water faucet blinking blue while in production, light on unit blinking green, suddenly no water available from faucet

**Status:** Membrane flush. Triggered after five litre have been produced consecutively.

**INDICATION:** 

Light on water faucet extinguished, light on unit extinguished, no water available from faucet.

**Status:** Power failure

#### **REQUIRED ACTION**

Restore power supply. Unit will automatically start bacteria flushing when power supply is restored and auto-restores to standby.

**INDICATION:** 

Light on water faucet extinguished, light on unit steady green, water available from faucet.

**Status:** Electrical connection between faucet and unit interrupted.

#### **REQUIRED ACTION**

Restore connection or contact a service technician.

**INDICATION:** 

Light on water faucet steady red, light on unit is a red single flash in combination with a quick intermittent sound

**Status:** Low Feed water pressure.

#### **REQUIRED ACTION**

Restore correct feed water pressure and/or flow up to 2-6 Bar. Unit will automatically start bacteria flushing when pressure rises above the threshold level, and auto-restore to standby.

**INDICATION:** 

Light on water faucet steady blue, light on unit yellow triple flash in combination with a continuous sound

**Status:** Water production has run for more than 8.5 minutes.

#### **REQUIRED ACTION**

Close the tap. If not closed within 30 seconds the unit will stop automatically.

INDICATION:       

Light on water faucet blinking blue red, light on unit steady red in combination with a continuous sound:

Status: Water production has run for more than 9 minutes, unit shuts down.

#### REQUIRED ACTION

Close the tap. Depress reset button, the unit will automatically start membrane flushing and auto-restore to standby.

INDICATION:                     

**Status:** Pump malfunction

#### REQUIRED ACTION

Operator to interrupt power supply, and reconnect. The unit should automatically start bacteria flushing and auto-restore to standby. When this indication returns immediately after resetting a service technician should be called.

**INDICATION:**   

Light on water faucet steady red, purple light on unit in combination with continuous sound

**Status:** Internal leakage

#### REQUIRED ACTION

Operator to interrupt power supply, check for leakage if no water is detected, and reconnect. The unit should automatically start bacteria flushing and auto-restore to standby. When this indication returns immediately after resetting the supply of feed water should be closed off, and a service technician should be called.

#### MALFUNCTION INDICATIONS DURING WATER PRODUCTION AND/OR TRANSITION FROM STAND-BY.

**INDICATION:**      

Light on the water faucet steady red, red Quintuple (5) flash in combination with continuous sound

**Status:** Pump over-current

#### REQUIRED ACTION

Operator to interrupt power supply, and reconnect. The unit should automatically start bacteria flushing and auto-restore to standby. When this indication returns immediately after resetting a service technician should be called.

**INDICATION:**      

Light on water faucet steady red, red Triple (3) flash in combination with continuous sound:

**Status:** Pump pressure to high

#### REQUIRED ACTION

Operator to interrupt power supply, and reconnect. The unit should automatically start bacteria flushing and auto-restore to standby. When this indication returns immediately after resetting a service technician should be called.

**INDICATION:**          

Light on water faucet steady red, red Single (1) flash in combination with continuous sound

**Status:** Feed water temperature too high (over 40°C)

#### REQUIRED ACTION

1. Operator to interrupt power supply, and reconnect.

2. The unit should automatically start bacteria flushing and auto-restore to standby.
3. When this indication returns immediately after resetting the temperature of the feed water is still too high and has to drop below the temperature threshold.
4. When the feed water temperature has dropped below 40°C the interrupting and restoring the power supply should result in bacteria flushing and auto-restore to standby.

**NOTE:**

High feed water temperatures lead to a significantly increased deterioration of the membrane, but does not influence the quality of the water produced.

## Servicing the system

### PRE-FILTRATION INSERTS

The replacement intervals are dependent on the degree of water contamination and total quantity produced by the system and should be replaced at least every six month in order to protect the membrane. To keep track of the replacement intervals it is advised to keep a record of the replacements.

### HOW TO REPLACE THE PRE-FILTRATION INSERTS

1. Disconnect the power supply. Close off the feed water supply.  
Depressurize the pre-filter housings by opening the vent plugs (See Fig.9a).  
The filtration inserts are fitted inside the plastic bowls fitted to the pre filter unit.
2. Access to the filtration inserts is gained by removing the locking ring that holds the transparent filter container by rotating it clockwise.
3. Carefully remove the plastic container with the insert in it and empty the water out in the sink. Place a bucket underneath the pre-filter unit to avoid spillage.
4. Remove the filter insert and clean the inside of the transparent container with water.
5. Unpack the new filter insert, and place in the container. The particle filter can be fitted with either side up, the carbon filter (black) needs to be fitted with the seal on one end pointing upwards as shown in figure 1b on page 4.
6. Place the plastic container holding the new filter insert back in its original location and tighten  
the assembly with the locking ring that holds the transparent filter container by rotating it counter clockwise.
7. Open the feed water supply again.

Make sure both vent plugs on the filtration housing are (still) open, and let air trapped in the filter run out, until water without any air comes from the ventilation holes.

8. Close both vent plugs by hand force only.
9. Check for possible leaks resulting from changing the membrane.
10. When no leaks are observed, initiate a commissioning procedure.
11. The machine is ready for normal use again.

### MINERAL CARTRIDGE EXCHANGE AND RESET

1. Disconnect the power supply.
2. Open the faucet until the water stops flowing.
3. Click out the existing mineral cartridge replace it with the new cartridge. Be aware some water may come out.
4. Check if the tap is still open.
5. Connect the power supply again. The system will directly perform a flush. To reset the remin counter in the machine, please click the black button at the back of the machine, 3

times within 1 second.

6. Let the faucet run for 2 minutes then close the faucet.

-end of changing the mineral cartridge -

## MEMBRANE FILTER

The replacement intervals are dependent on the degree of water contamination and will typically vary between one and two years. To keep track of the replacement intervals it is advised to scan the NFC chip and let the aquablu App show you when to replace the filters. If suddenly the replacement intervals significantly shorten, it is advised to contact your local dealer.

## HOW TO REPLACE THE MEMBRANE FILTER INSERT

1. Close off the feed water supply.
2. Depressurize the system by opening the water faucet. A “low pressure” alarm will be given by the system when the system is depressurized (indicated by a red light on the faucet and red single flash on the unit in combination with a quick sound from the purification unit).
3. Close the faucet.
4. Disconnect the electrical power supply to the purification unit.
5. Move the purification unit as far as you piping allows out of the cabinet and prepare a drip tray. Expect 0.5 liter of water coming out of the membrane vessel.
6. The membrane filter is mounted in a stainless steel tube that is an integral part of the purification unit frame.
7. Access to the membrane is gained by first removing the round plastic outer cover on the front of the purification unit by rotating it counter clock wise. Inside this plastic cover a small key-wrench is placed, see figure 20 below.

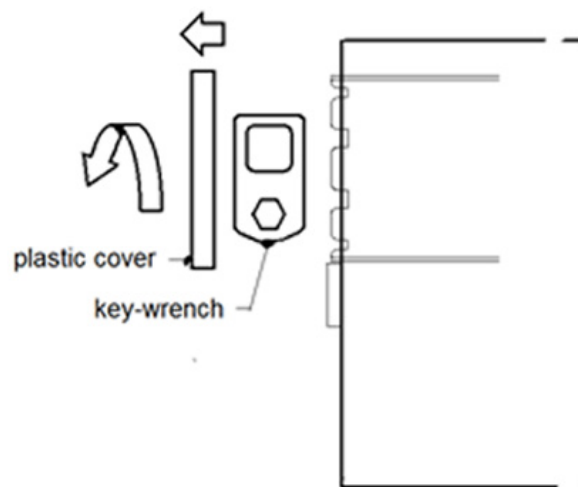


Fig. 21: Removal of front cover and key-wrench

8. After removing the plastic cover the stainless steel locking plate is visible. On the locking

plate a hexagon nut is visible, which should be completely removed with the key-wrench, or another properly fitting wrench.

9. After the nut is removed, the locking plate must be rotated counter clock wise to be released from the locking tabs in the membrane housing and withdrawn from the unit. See figure 22 below:

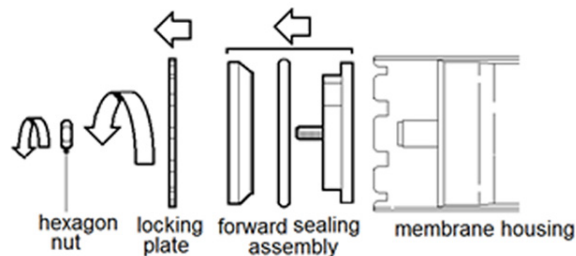


Fig. 22: Removal of locking plate and membrane chamber seal assembly

10. After removing the locking plate, the membrane chamber seal assembly is visible, and should also be withdrawn from the unit. Please note that approx. 0,5 liter of water is still in the unit and will be released when the end cap is removed. Place all parts in a secure and clean location for refitting later.
11. After removal of the membrane seal assembly, the membrane itself is visible. Place the square aperture in the key-wrench over the grey tube at the front of the membrane and place it in such an angle that the edges of the key-wrench bite into the surface of the tube. The membrane should be pulled forward up to the edge of the locking cams in the front of the membrane housing. A slight resistance will be felt as the sealing lip of the membrane reaches the locking cam edge.
12. With the key-wrench firmly locked on the membrane tube, the membrane should be pulled out of the membrane housing with a rotating pull movement. With the lip seal free of the membrane housing the membrane can be pulled out further without any effort. See figure 23 below for the membrane removal sequence.

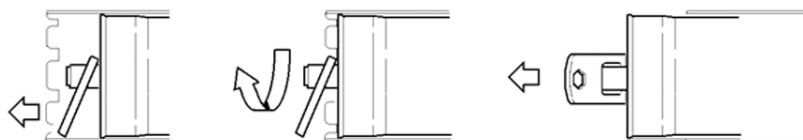


Fig. 23: Removal sequence of the membrane

Put the old membrane aside for discarding. If difficulties are encountered with removing the membrane as described, a pipe wrench or suitable pair of pliers may be used.

When placing the new membrane into the unit, care must be taken to insert the membrane into the unit in the correct way. On the membrane an arrow is placed, the membrane should be inserted in the direction of the arrow. In case of doubt, see figure 24 for the correct membrane position.

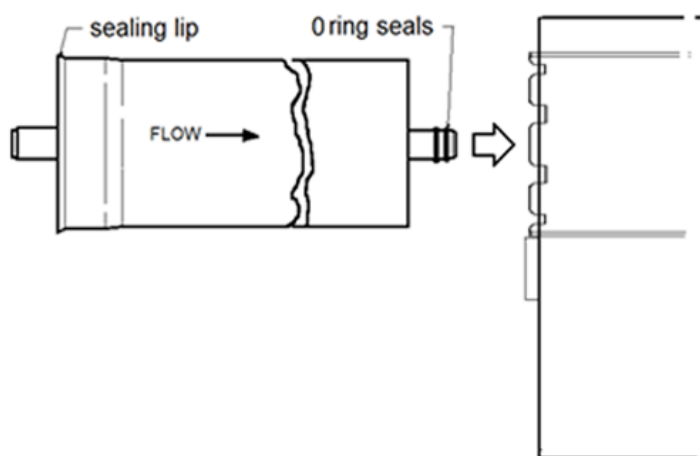


Fig. 24: Correct direction of membrane installation

13. Unpack the new membrane, and install in the correct manner. Push the membrane all the way back in the chamber. Some resistance can be felt with the membrane almost in position when the O ring seals enter the pick-up tube in the rear of the membrane chamber. The membrane must be fully pushed home until a clear end stop is noticed.
14. Clean and refit the stainless steel locking
15. Refit and tighten the securing, taking care not to over tighten. Check for leaks once the system has been restarted.
16. Open the feed water supply again and reconnect the power supply to the machine.

The machine will enter the commissioning mode. Look in the chapter “commissioning” for an explanation of this procedure.



## HOW TO PROPERLY STORE A WORKING MEMBRANE FILTER

When the Aquablu unit is not connected to power supply for a longer period of time, the membrane should be taken out and stored properly to avoid contamination and termination of the membrane. No power supply means the system cannot take care of the membrane itself as no automatic back-flush can be performed. Figure 25 shows the steps to be taken to store the membrane properly.

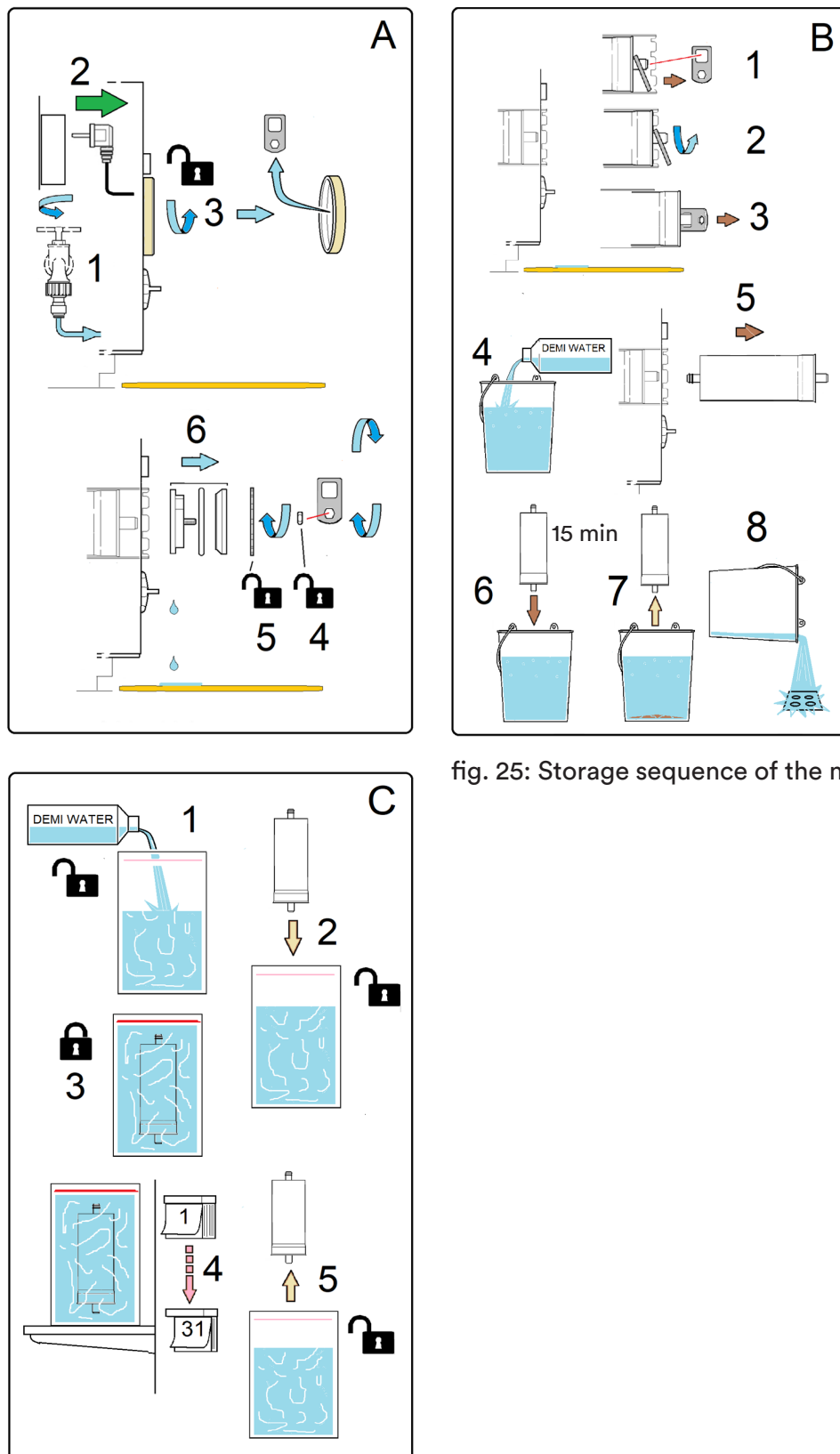


fig. 25: Storage sequence of the membrane

# Service History

- 0) Installing and commissioning the system
- 1) Replacing carbon pre filter
- 2) changing particle pre filter
- 3) changing membrane
- 4) Replacing mineral Cartridge
- 5) Dealer inspection/repair

Action	Date - Month - Year	By (name)	Remarks

# Decommissioning the system

At the end of its serviceable life, the system as whole or individual parts that have become unserviceable must be decommissioned and discarded in a responsible manner. The system is simply decommissioned by disconnecting it first from the mains electricity supply, then from the mains water supply. Empty the system, and take out the filter cartridges and the membranes, and discard these separately. Most of the materials and assemblies used in the system can be recycled due to their design and the materials used. Take the system or the involved part(s) to the municipal/district recycling yard, a commercial recycling company, or return the system to the dealer who will take care of this.

## Technical data

The system is designed to operate within the limits listed in the table below:

Max. Operating pressure	6/8 bar
Minimum ambient temperature	+5°C
Maximum ambient temperature	+45°C
Maximum feed water temperature	+45°C
Chlorine concentration	< 0,1 ppm
Water Turbidity	1 NTU*a
Max. TDS** inlet water at membrane	< 1200 ppm*** (2500 uS/cm****)
Max. TDS** inlet water at pre-filter	Depending on pre-filter configuration
Minimum Input Pressure	1,5 bar
Maximum Input pressure	3 bar
Purified water volume at 25°C	100 to 240 litres a hour
Max. Hardness	180 mg CaCO <sub>3</sub> /L or 10°DH

\*NTU = Nephelometric Turbidity Units

\*\*TDS = Total Dissolved Solids

\*\*\* PPM = Parts per million

\*\*\*\* uS/cm = Microsiemens per centimeter

# Warranty

Every Aquablu product is carefully designed to ensure excellent quality and optimal customer experience. Unfortunately, the situation can occur that your purifier does not work as it's supposed to.

In case this is a result from product failure, we will correct, free of charge, any defects in material (excluding replacement filters and membranes) or workmanship for a period of 24 months subject to the terms and conditions mentioned in this statement.

When properly installed and maintained, your Aquablu will give years of outstanding performance and service. Must something occur, the Aquablu Service team and certified Aquablu Dealers are always at your disposal.

## **A. Services included**

Adding to the correction of defects in material or workmanship during the warranty period, and subject to exclusions mentioned in this statement, Aquablu agrees to correct the cost of repair of parts and labour. Any parts replaced during the repair will become the property of Aquablu. If in the opinion of Aquablu, a water purifier is beyond economic repair, Aquablu reserves the right to provide customers with a new product of equivalent specification. If Aquablu replaces the product, the warranty will become invalid.

## **B. Exclusions**

In the event any of the following matters result in system failure to, Aquablu will reject any warranty claim and its complementary costs:

- Non-compliance with safety regulations and warnings given in the operating instructions.
- Faults caused by the user through operating errors or lack of care and maintenance.
- Non-domestic, commercial or inside (in home) use.
- Intentional damage by the owner or third parties.
- Incorrect installation, including but not limited to not meeting feed water requirements.
- Faulty repairs or repairs carried out by parties other than Aquablu or an Authorized Aquablu technician.
- External influences (e.g. fire, flooding, freezing, pressure spikes, weather, transit damage)
- Replacement parts subject to wear and tear e.g. filters.
- Visual blemishes such as marks and dents.
- Use of non-approved accessories, filters, membranes or spare parts.
- Damage to accessories.
- Accidental damage.

## **C. Claims Procedure**

I. only applies for the Aquablu One and Pro -

I. Check the Aquablu App during troubleshooting. This enables your Authorized Aquablu Dealer to get insight into the technical status of your system.<sup>38</sup>

1. Contact your authorized Aquablu dealer by whom you have purchased the product.
2. The dealer will request the proof of purchase (invoice, checkout receipt or similar including, date, vendor, price and conditions) or proof of ownership (copy of warranty registration app).
3. After reviewing 2), the Dealer or service partner will issue a Claims Authorization Number (CAN) if the warranty conditions are met. No claims will be accepted without a CAN.
4. Depending on the situation, the product will either be serviced on location by an Authorized Service Technician or brought/sent to an Authorized Service Station for repairs. Aquablu will only bear repair costs carried out by Aquablu's network of Authorized Service Providers. If during a service visit, no fault can be found for which Aquablu is responsible according to this policy, customers will be invoiced with call-out charges, and labour costs of 60 minutes in accordance with Aquablu's standard rates for the time being.

#### **D. Liability**

Aquablu assumes no warranty liability in connection with Aquablu water purifier systems other than specified herein. This Warranty is in lieu of all other warranties, expressed or implied, including warranties of fitness for a particular purpose. Aquablu does not authorize any person or representative to assume for us any other obligations on the sale of an Aquablu water purifier system.

Aquablu shall not be liable for loss of goods, loss of use, or any special, indirect, or pure economic loss, costs, damages, charges or expenses except for liability that Aquablu is not allowed to exclude by law. This Warranty gives you specific legal rights, and you may also have other rights, which vary from country to country, state to state or province to province. The laws of some jurisdictions do not permit the exclusion or limitation of certain rights or remedies provided by such laws.

As this Warranty is subject to such laws, some of the limitations or restrictions contained in this Warranty may not apply to you. The provisions of this Warranty are in addition to and not a modification of or subtraction from the statutory warranties contained in country, state or provincial laws. Some states or provinces do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

#### **Warranty Card & Serial Number:**



# Declaration of conformity

## Producer

Name: Aquablu  
Address: 's Gravendamseweg 53, 2215TC Voorhout, the Netherlands

## Details

Equipment: Water treatment solutions  
Model types: One, Pro, Custom  
Tradenames: Aquablu

## Reviewed Guide lines and standards

- |                                    |                                |
|------------------------------------|--------------------------------|
| 1. Equipment guide line 2006/42/EC | (EN12100)                      |
| 2. LVD guide line 2006/95/EC       | (EN60204-1, NEN3140, (NEN1010) |
| 3. EMC guide line 2004/108/EC      | (EN55011)                      |
| 4. PED guide line 97/23/EG         |                                |
| 5. DWD guide line 98/83/EG         |                                |

## Additional information

All components are applicable for drinking water. This is checked bij Euronorm Legislation & Norms and tested by Manitronica S.r.l. Report #221216A. The equipment is for the production of drinking water.

## Declaration

Hereby I declare that above mentioned equipment meets the guide lines and standards mentioned in this declaration.

Name:	Date:
M.J.P. Stokvis, CEO	01/01/2020



.....  
signature of authorized representative

# The small print

## Conformity

All filtering systems are developed and built in compliance with all applicable EU regulations regarding health and safety requirements, and carries a CE marking. All electric and electronic components are in compliance with the Low voltage directive 2006/95/EEC and the Electromagnetic Compatibility Directive 2004/108/EEC.

The system also complies to ISO 4000 and ruling EC 1275/2008 for energy conservation.

## Intellectual Property

The Aquablu brand name, the filtering system, models, drawings, engineering and documentation are the exclusive property of the Stokvis Holding in Voorhout. It is expressly forbidden to copy, use or hand over such information to third parties without prior, specific written permission.

## Product liability

The manufacturer declines all liability in case of:

- Use of the filtering system in contradiction with local health and safety laws or regulations.
- Incorrect installation, disregard or incorrect application of the instructions in this manual.
- Incorrect or faulty electrical power supply.
- Modification or tampering.
- Operation of the system with saline or brackish water.
- Work carried out on the filtering system by non-qualified or unsuitable persons.

## Disclaimer

Aquablu Innovative purification solutions reserves the right to modify, upgrade or improve their products at any moment without advance notice and will not be liable for any difference between actual unit supplied and the latest specifications stated in the sales material or the user manual. Contact the Aquablu Innovative purification solutions technical department in case extra information is required, for example, maintenance and repair. This User Manual has been created with great care, however Aquablu Innovative purification solutions cannot be held responsible for errors in this publication or for the impact of any of these possible errors. This User Manual has been written and published by Aquablu Innovative purification solutions in Voorhout

To all our deliveries the general delivery conditions of the Federation of Metal and Electro technical Industries (F.M.E.) as deposited in December 2010 at the district court in The Hague are applicable, apart from those articles for which alternative or complementary provisions have been included.



Just pure, even better.

member of Stokvis Group