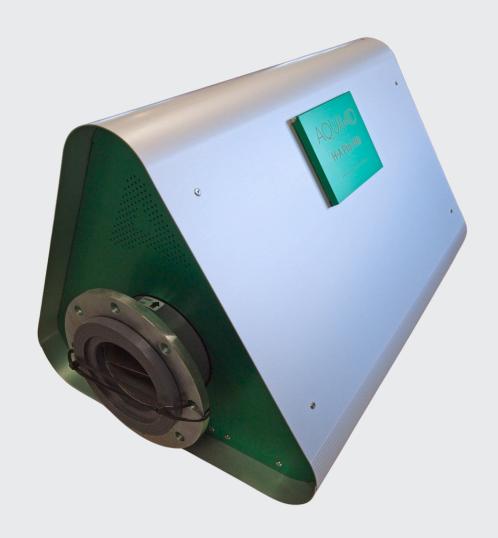
# AQUA4D

## H-A PRO 100 M



User Manual 2025 v1

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## Safety Instructions



Only qualified personnel are authorized to perform the installation, commissioning, configuration and maintenance of AQUA4D® systems. He or she must have received the operator's authorization to carry out the specific operations. The electrical connections for the electronic Control Unit (CU), as well as the installation of the Treatment Units (TU), may only be established by specialized staff. These staff must have read this operating manual and must comply with the instructions therein. Before commissioning the system, check once again that all the connections have been correctly established and that the electric cables and pipe fittings are not damaged. Do not operate damaged machines and ensure that you protect them from being started up accidentally. Mark these machines as defective. Any repairs that are not set out in this manual may only be carried out by an authorized after-sales service.

The AQUA4D® system was built and inspected in accordance with our quality requirements and left our facility in perfect technical condition, in compliance with applicable European technical and safety directives and standards. As the installer and/or user, you are responsible for complying with the safety instructions set out in the installation instructions in this manual and the local standards and directives.

If your AQUA4D® system has to be repaired, please clean it before returning it to the after-sales service and use the original packaging.

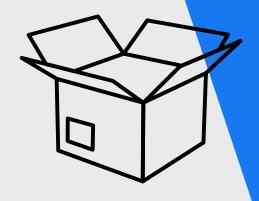


### Introduction

The AQUA4D team is very glad that you choose to put your trust in our product and acquire a **H-A Pro 100 M** system for your exploitation.

This document will help you install and start using your AQUA4D **H-A Pro 100 M** system, but please feel free to call your AQUA4D contact or distributor if you need any help, we will be glad to help you get started and improving the way you can irrigate with AQUA4D.

# Package Contents



1x H-A Pro 100 M
2x Alignment compensator
1x Set of nuts and bolts
1x Grounding rod and cable
1x Documentation leaflet





### Installation

This document will cover all the points to setup your new AQUA4D H-A Pro 100 M system for optimal operation. Please read the entire document before you start working on the system itself.

### Safety and equipement

The empty structure, not linked to the water network, weight around 65kg (143 lbs). We recommend to be at least **2 persons** to install it. To secure the flanges, to following tools or equivalent are required:

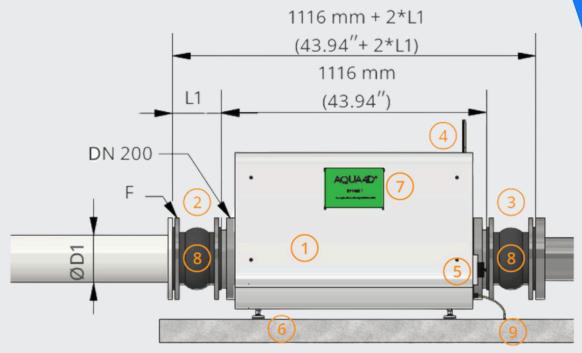
- Torque wrench equipped with a 30mm socket
- 30mm wrench
- Level
- Philips 2 screwdriver (PH2)
- Adjustable wrench



For optimal operation and stability, the system should be settled on a concrete slab with at least **80cm** (32 in) of free space around it to provide enough room for a comfortable installation and to intervene if maintenance is needed. The **adjustable feet** are not mounted to avoid problems during shipping. You may now screw them under the structure and adjust them accordingly. Use the level to make sure the system is straight.

The system is rated for a H-A Pro 100 Mimum pressure of **10 bars** (145 psi), Do not exceed this limitation.

### General Diagram



- 1. Main Structure
- 2. Water inlet DN 200 flange
- 3. Water outlet DN 200 flange
- 4. Communication and GPS antennas
- 5. Power Box

- 6. Adjustable foot
- 7. Control Unit
- 8. Alignment compensators
- 9. Grounding cable => to ground rod

The mechanical specifications can be found on the datasheet of your specific product. You can download that document from our website

#### docs.aqua4d.com/products

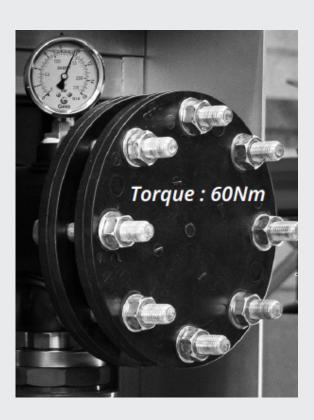
#### Connecting the water input and output

The flanges on the water input and output are of **DN 200** type. You will need equivalent flanges on the connecting pipes from your water network.

If your network is of a different size, adaptors are available. Please contact your local supplier our the AQUA4D support if you need more directions on this matter.

Both input and output will use the **same mounting method** to the existing water network. Connect the input/ output with it's counterpart and ensure a good sealing between the pipes.

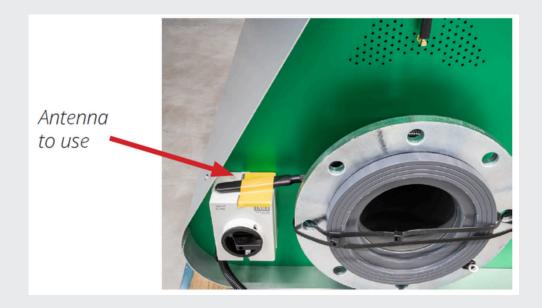
Use the provided nuts and bolts, **8 of each per side**, do not tighten them at first, just place them all around the flange. Then start to tighten the bolts progressively until you achieve 60 Nm with your torque wrench.



### Connecting the antenna

The H-A Pro 100 M system requires two antennas, one for the GPS (localization) and the other for the LTE-M (data)

One is already mounted and ready to go, the other one is located either on the side of the system or in the accessories box, if applicable.



Detach the antenna and screw it on the top connector, above the hole drilled in the top cover panel.



The antenna is now connected to the control unit and will be able to communicate if an LTE-M network is available in the area.

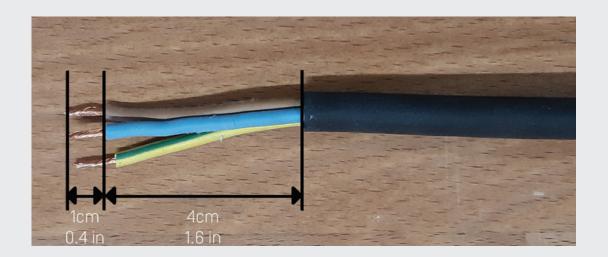
### Connecting the power supply

The system needs to be connected to the power network. 3 wires need to be connected to the power box, Phase Line (L), Neutral (N) and Ground (PE)

- First of all, make sure that the power is <u>shut</u> <u>down</u> in your main breaker box to avoid any electrical injury.
- Open the power box on the side of the AQUA4D H-A Pro 100 M, by removing the two screws on the top and bottom.



• There is a dedicated cable gland for your power cable. Pass the cable through it with a sufficient length to be able to work comfortably. Then strip the cable of 5cm of insulation (total) and the copper wires of 1 cm.

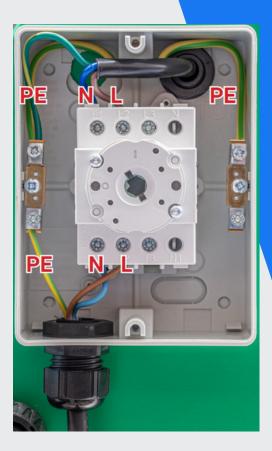












Before inserting the power cable

After the power cable connexion has been completed

- T1 = L1 = L wire (brown)
- T2 = L2 = **N wire** (blue)
- PE on the side terminals (yellow-green)
- Put back the lid of the power box with the two screws and tighten them with your screwdriver.
- Put the power back on (circuit breaker) and turn the rotary switch of the power box in the ON position.
- The Control Unit will initialize and after a few seconds the system will start automatically.

### Opening the water flow

The system is now ready to treat the water. To ensure a smooth start, increase the water flow gradually to avoid damage to the piping network.

During this process, if you notice any leak on the flanges, stop the water flow and tighten the bolts a bit more. Then start again and see if the leak is gone.

If you are unable to achieve a watertight system, please contact a specialist of the AQUA4D support.

Once you have reached the optimal water flow and pressure for your network, the **installation** of your AQUA4D H-A Pro 100 M system is **done**.



# Control Unit Operation



The Control Unit is preconfigurated in our factory and is ready to go as soon as it is powered.

Here's a list of the settings that can be changed or updated if the need arises.

- Language
- Time
- Date
- Number of Treatment Units connected

To access these settings, restart the CU either by using the "power" con on the screen or by turning it off and on again with the main electrical switch

The system will reboot and you will see a "**START**" button below the AQUA4D logo, press that button to enter the initialisation menu. (Be mindful that if you don't press that button, the Control Unit will start itself using the last known configuration.)

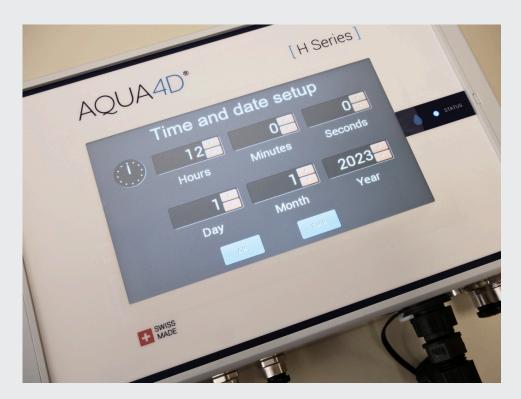




You will then be guided through the different settings and when you're done the Control Unit will go to its normal operation mode.



Language selection



Time and date setup

# Troubleshooting

#### The Control Unit screen stays dark and the "status" light is off

Verify that the power supply is turned ON and the power cable correctly connected to the power box

#### Their is water coming from inside the H-A Pro 100 M system

Stop the water flow and contact your distributor or the AQUA4D support.

#### **Unable to connect the flanges**

Make sure that your flanges are compatible with a DN 200 diameter, we can also provide adapters if needed.

#### Water is leaking from one of the flange

Use your torque wrench to verify that the correct force is being applied to all the bolts around the flanges.

#### My problem is not listed here

Please contact your supplier or the AQUA4D support and describe your problem.



### Contact Us

Thank you for choosing our company for your needs. We hope this user manual has been helpful to you. If you have any questions, feedback, or require further assistance, please do not hesitate to contact us. Your satisfaction is our priority, and we are here to help in any way we can.



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