



Available Through Dealers Worldwide

Aqualux




Water Disinfection

Professional

al.

Product Brochure

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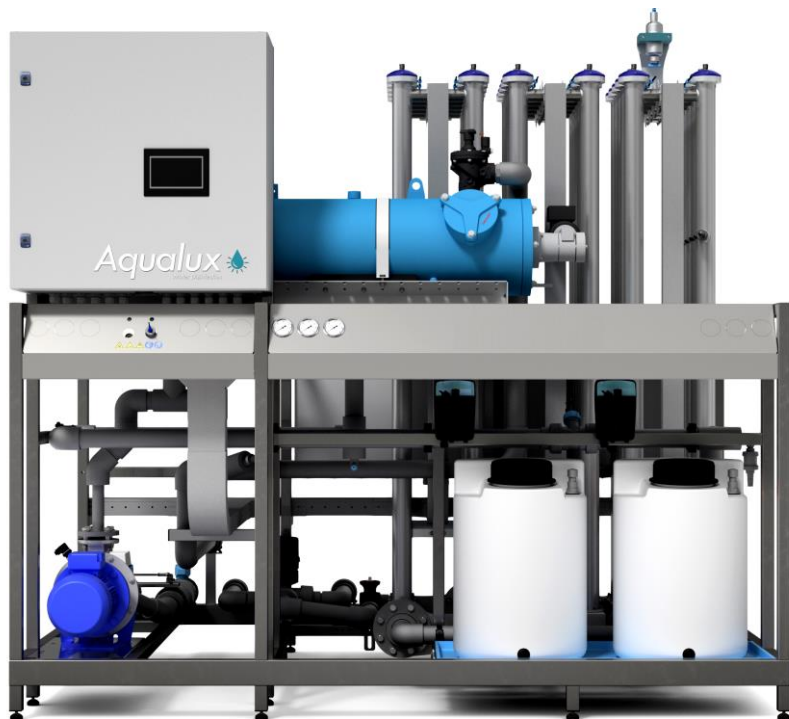
LOWARA

Modello: PUM11254220115 E3

Codice: PUM11254220115 E3

Versione: P2 11.0

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Aqualux Professional



For Drain and Waste Water Disinfection

Specifications

System Capacity Range	6 - 60 m ³ /h*
UV dosage	80, 180 or 250 mJ/cm ²
T 10 Range	Min 15% - Max 100%

Dimensions

Length	2040 mm
Width	2420 mm
Height	2440 mm

* > 60 m³/h is possible on request

Standard Equipment

- **800W UV-C lights**
Guaranteed lifetime of 12.000 hours
- **Low Pressure Water Pump**
Available in capacities from 6 to 60 m³/h*
- **External start**
Easily integrates with greenhouse process computers
- **Nitric Acid Dosing**
For maintaining optimum light performance and regulating PH value
- **Automatic Screen filter**
Removes particles as small as 25 micron
- **Automatic Pressure Control**
Regulates pressure to keep water flow optimal, no need for manual adjustments to pressure valve
- **Remote Cloud Control**
Control disinfection anywhere with smartphone and other devices

Additional Equipment Options

- **Level Measurement Start/stop**
Min/max sensor with automatic start/stop
- **Multiple Water Recipes**
Allows you to attach multiple water systems with different water recipes
- **Fresh Water Mixing**
Ability to regulate transmission with an external water source
- **EC Measurement & Control**
For mixing different water sources based on EC value
- **Hydroperoxide Dosing**
Voegt de mogelijkheid toe om GBM en wortel exsudaat uit het water te verwijderen.
- **Power Grid Customization**
Necessary when power grid compatibility is different than standard (European), in compliance with local power grid and technical regulations

Introduction - What is Aqualux Professional?

Aqualux Professional is a water disinfection system that allows safe use and re-use of water in horticulture applications. Aqualux Professional kills 99.99% of the threats to crops and unlike other disinfection methods delivers affordable, large capacity and high quality disinfection - in one unit.

The **right quality water** is an important ingredient for a greenhouse in helping crops grow strong and healthy. In horticulture water is also often re-used in a closed loop because it is environmentally friendly and lowers cost. Water however, can contain organisms that pose a threat to the health of the crops, increasing risk of viruses, bacteria and pathogens spreading and ruining production.

Aqualux Professional is perfect for growers that care about protecting their crops and want the best water treatment possible. The system uses UV-C light and filtration to eliminate the common threats in water. These techniques together have proven to be the most effective method for disinfection and achieve at least a 10.000-fold reduction of waterborne threats.

A disinfection system should be easily installed and work without requiring much attention. With that mind the Aqualux Professional is designed to be as efficient as possible with minimal costs for use. The intelligent flow technology and self cleaning functions allow full autonomous operation and requires minimal maintenance, lowering costs. The system is available in a capacity starting at 6 m³/h and up to 60 m³/h*.

Safe Water Use With High Quality, Affordable UV-C Disinfection



Optimal Water

UV-C light and filtration achieve a minimum 10,000-fold reduction of threats. Giving you the right disinfection of your water.



Lower Expenses

Self cleaning and Intelligent flow functions enable the system to run with minimal attention, lowering cost. Maintenance can be easily performed by your own TD.



High Efficiency

Autonomous operation and remote controllability save precious time. Enabling you to focus on other important things.



Large Capacity

Smart engineering allows our modular units to start at a capacity of 6 m³/h and expand all the way up to 60 m³/h*.

* > 60 m³/h is possible on request

UV Water Disinfection - Achieving Optimum Water Quality

It all starts with water, one of the essentials for strong and healthy crops. Waterborne organisms can however influence the quality of your water, endangering your crops. Disinfecting with UV-C prior to irrigating, allows you to achieve optimum water quality and almost completely reduce the risk of threats spreading among your crops through water.

UV-C has traditionally been used in water industries for disinfection, providing safe water, free of harmful organisms. UV-C has proven to be one of the most efficient methods for eliminating these organisms because it damages their DNA, leaving them unable to reproduce and killing them in the process.

Compared to other disinfection methods, the benefit of UV-C is that it leaves no by-products and doesn't influence or change the composition of water with the minerals in it. Most importantly of all: eliminates 99.99% of harmful organisms.



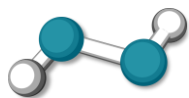
Filter For Maximum Efficiency

Dirty water influences disinfection efficiency and can even damage the UV lights. Before disinfection water goes through an **automatic screen filter** that removes particles as small as 25 micron, enhancing disinfection and system lifetime.



High Quality UV-C, With a Guarantee

Inside the UV-tubes, the **800W UV-C lights** work to eliminate potential waterborne threats. The **UV-sensor** inside measures and adjusts flow speed of the pumps to achieve the desired disinfection rate (mJ/cm^2).

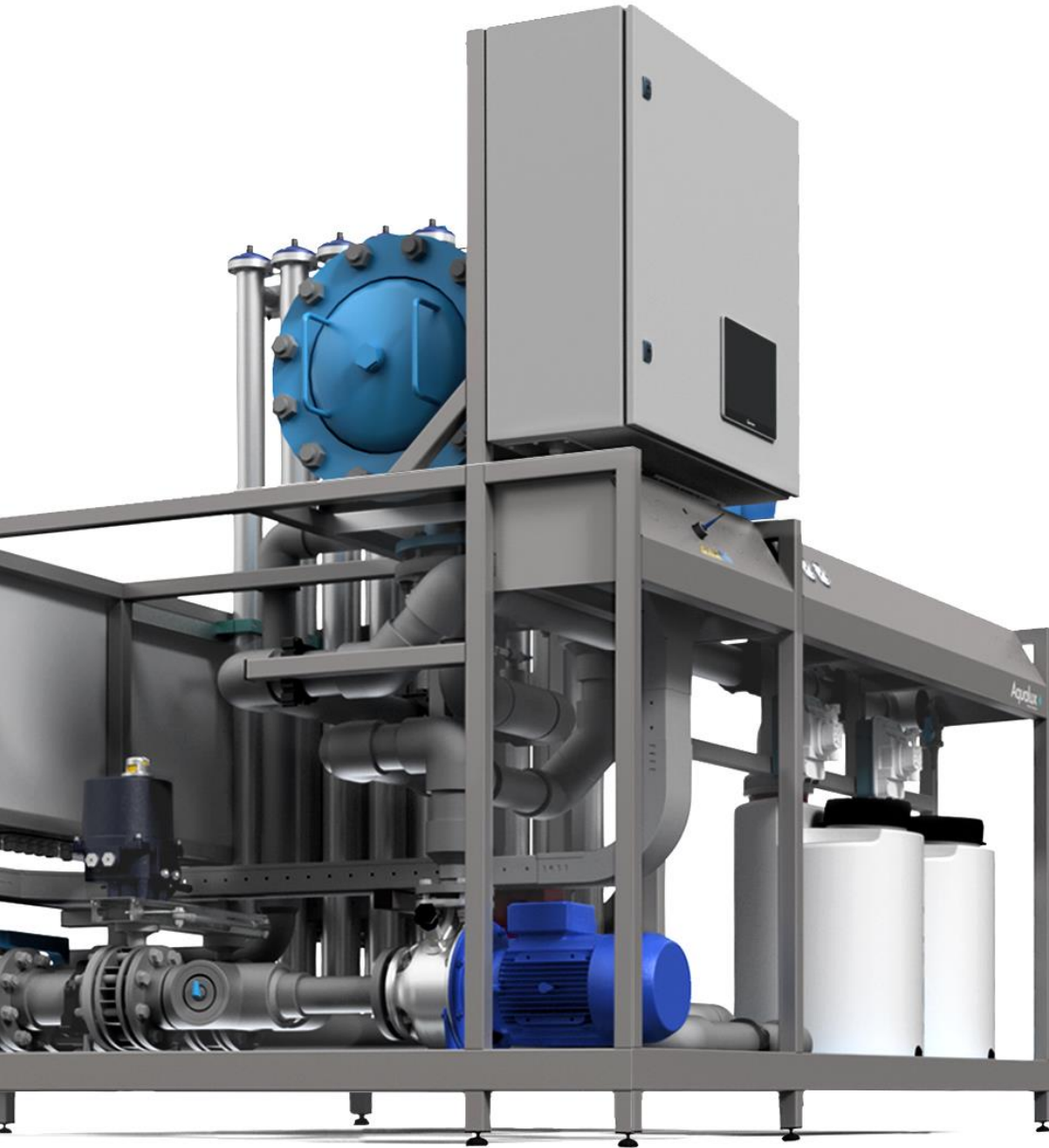


More Disinfection Power

To eliminate PPP and root exudates out of the water, **Hydroperoxide** (H_2O_2) can be added to the Aqualux. This will make the Aqualux an advanced oxidation unit. This way the optimal disinfection of the water is reached. The Aqualux will not only eliminate ales, bacteria and viruses but also the root exudates that attract the bacteria.



Simple Operation - Functions That Make Work Easy



We believe that a disinfection system should perform consistently and save your time and energy. Aqualux Professional comes equipped with functions like intelligent flow, automatic self cleaning and remote control to allow it to work on its own without having to manually operate the system.

Checking in on the process is easily done from your computer, smartphone or tablet where you can make adjustments as well. In the end you'll have a system that helps you to focus on the parts that are most important, growing crops.



Autonomous Operation

Aqualux Professional uses its **Intelligent flow** ability to handle the disinfection cycles with minimum intervention. Combined with automatic self cleaning and remote control you'll achieve maximum efficiency in your disinfection process.



Remote Cloud Control

Aqualux can be controlled remotely from any location. At any time it's possible to follow the disinfection process and adjust settings when necessary, without being physically present.



Automatic Self Cleaning

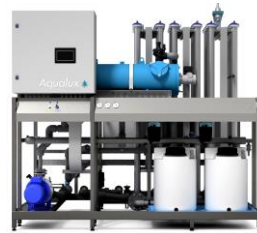
To ensure that the UV lights deliver top performance they are automatically cleaned with acid after every disinfection cycle. This keeps the lights at 100% clarity and also saves on costly labor expenses for cleaning.



Plug & Play Installation

Aqualux is easily installed within existing greenhouse management software thanks to **external start** capabilities. With just a few actions your disinfection is up and running.

Aqualux Family - Choose The Right Solution For You



Professional



Slim Fit



Retro Fit



Tethys

Irrigation Water Disinfection			
System Capacity Range	6 - 60 m ³ /h	1 - 12 m ³ /h	-
UV dosage	80, 180 or 250 mJ/cm ²	80, 180 or 250 mJ/cm ²	-
T10 Range	Min 15% - Max 100%	Min 15% - Max 100%	-
Standard Power Grid	400V 3P+N+PE @50hz	400V 3P+N+PE @50hz	-
Dimensions			
Length	2040 mm	2040 mm	-
Width	2420 mm	800 mm	-
Height	2440 mm	2440 mm	-

Drain Water Purification	
System Capacity Range	0,6 - 1,8 m ³ /h
Purification Grade	> 95% of pesticides
T10 Range	N.A.
Standard Power Grid	400V 3P+N+PE @50hz
Dimensions	
Length	1090 mm
Width	800 mm
Height	2440 mm

Next Steps



Contact Us

Whether you are looking for a dealer or already have a local installer that you've always worked with. Give us a call and we will guide you in the right direction.

Find a local dealer

We work with top class dealers and will gladly direct you to a dealer in your area.

Visit Our Website

Artechno innovates in Horticulture and Vertical Farming, take a look at our website to learn more about what we can do for you.

Want To Know More?

If you have any questions that you would like answered, give us a call or an email and we'll help you out with a smile.



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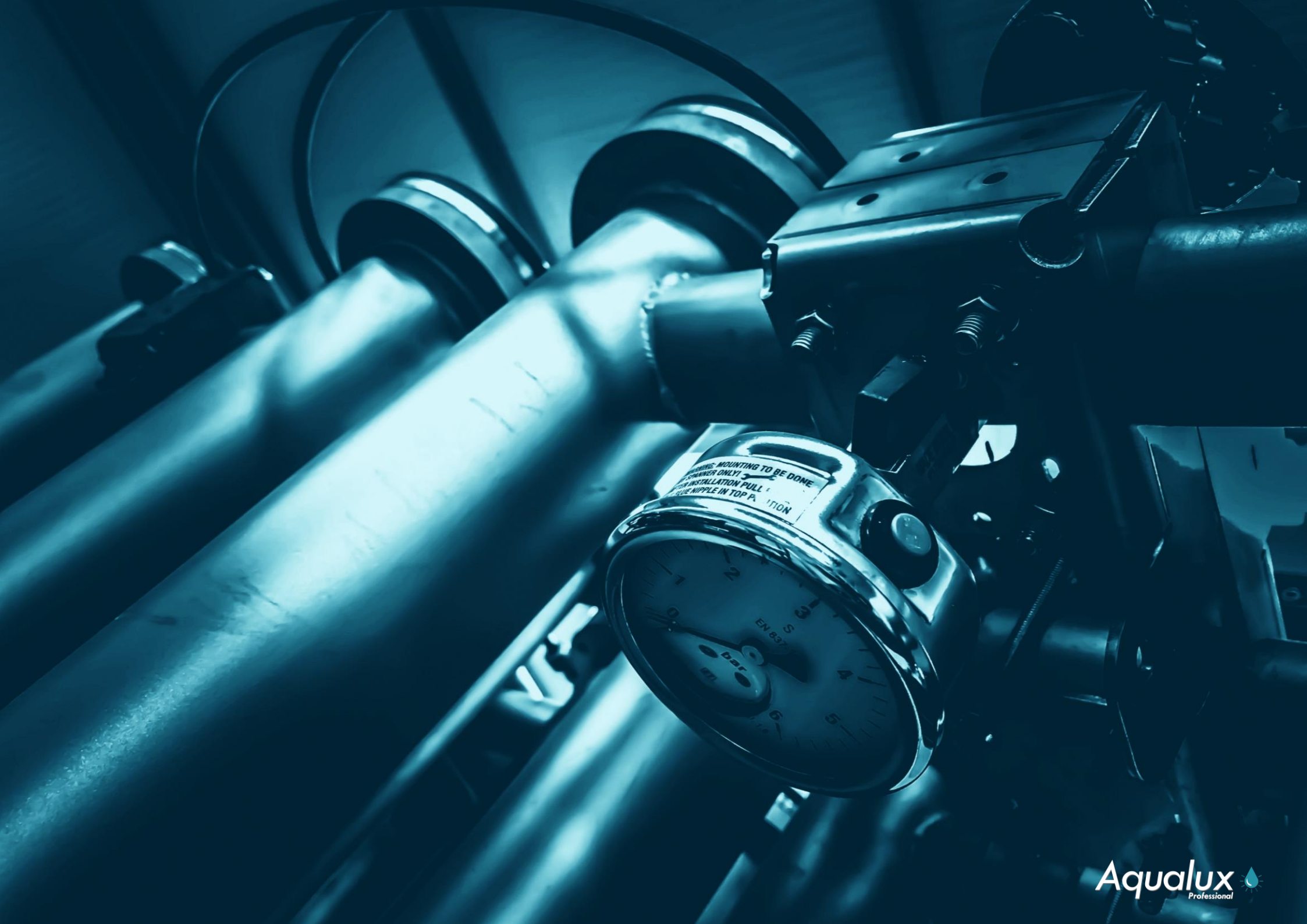


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Contact



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WARNING: MOUNTING TO BE DONE
BY A QUALIFIED PERSON ONLY
BEFORE INSTALLATION PULL
THE BLUE NIPPLE IN TOP POSITION

