



Available Through Dealers Worldwide






Aqualux

Water Disinfection

Slim Fit

Product Brochure

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LOWARA

Modello: P2 11.0

Code: 55A110M02

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Aqualux

Slim Fit

For Drain and Waste Water Disinfection

Specifications

System Capacity Range	1 - 12 m ³ /h
UV dosage	80, 180 or 250 mJ/cm ²
T 10 Range	Min 15% - Max 100%

Dimensions*

Length	2040 mm
Width	800 mm
Height	2440 mm

* Sand bed filter not included in dimensions

** An external pump is necessary to backwash the sand filter

Standard Equipment

- **800W UV-C lights**
Guaranteed lifetime of 12.000 hours
- **Low Pressure Water Pump**
Available in capacities from 1 to 12 m³/h
- **External start**
Easily integrates with other greenhouse process computers
- **Fixed Water Recipe**
Easily integrates with other greenhouse software
- **Nitric Acid Dosing**
For maintaining optimum light performance and regulating PH value
- **Filter Connection**
Enables the attachment of an external filter (e.g. sand bed filter)

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 source
- **EC Measurement & Control**
For mixing different water sources based on EC value
- **Hydroperoxide Dosing**
Adds the possibility to eliminate PPP and root exudates out of the water.
- **Sand bed Filter & backwash valve****
Removes particles out of the water
- **Remote Cloud Control**
Control disinfection with smartphone and other devices
- **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 Slim Fit?

Aqualux Slim Fit is a water disinfection system that allows safe use and re-use of water in small and medium size horticulture applications. Aqualux Slim Fit kills 99.99% of the threats to crops and unlike other disinfection methods delivers affordable, high quality disinfection while requiring minimal effort for operation.

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 Slim Fit is perfect for growers that care about protecting their crops and want the best water treatment possible. The system uses UV-C light, H₂O₂ and filtration to eliminate 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 effort. With that mind the Aqualux Slim Fit is designed to work efficient with minimal costs. The intelligent flow technology and self cleaning functions allow for autonomous operation and requires minimal maintenance, lowering costs. The system is available in a capacity starting at 1 m³/h and up to 12 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 confidence that you're water is completely safe for use.



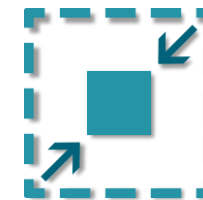
Lower Expenses

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



High Efficiency

Autonomous operation and remote control (*optional*) save precious time. Enabling you to focus on the things that are most important.



Compact Build

Specifically designed for small and medium scale operations, to take up the least amount of space, while offering maximum disinfection

* For larger capacities please inquire into Aqualux Professional

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.

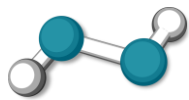
UV-C has traditionally been used in water industries for disinfection, providing safe water, free of harmful organisms. UV-C has proven to be one of the most efficient methods for eliminating these organisms because it damages their DNA, leaving them unable to reproduce and killing them in the process.

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.



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/cm²).



More Disinfection Power

To eliminate PPP and root exudates out of the water, **Hydroperoxide (H₂O₂)** 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.



Filter For Maximum Efficiency

Dirty water influences disinfection efficiency and can even damage the UV lights. To ensure the water is ready to be disinfected, it is filtered with either an already present filtration system, or an optional **sand bed filter**. Filtering enhances disinfection and system lifetime.



Simple Operation - Functions That Make Work Easy



We believe that a disinfection system should perform consistently and save your time and energy. Aqualux Slim Fit 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 Slim Fit uses its **Intelligent flow** ability to handle the disinfection cycles with minimum effort. 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 saves on costly labor expenses for cleaning.

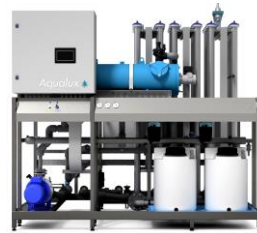


Plug & Play Installation

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

* Optional

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 Growsystems 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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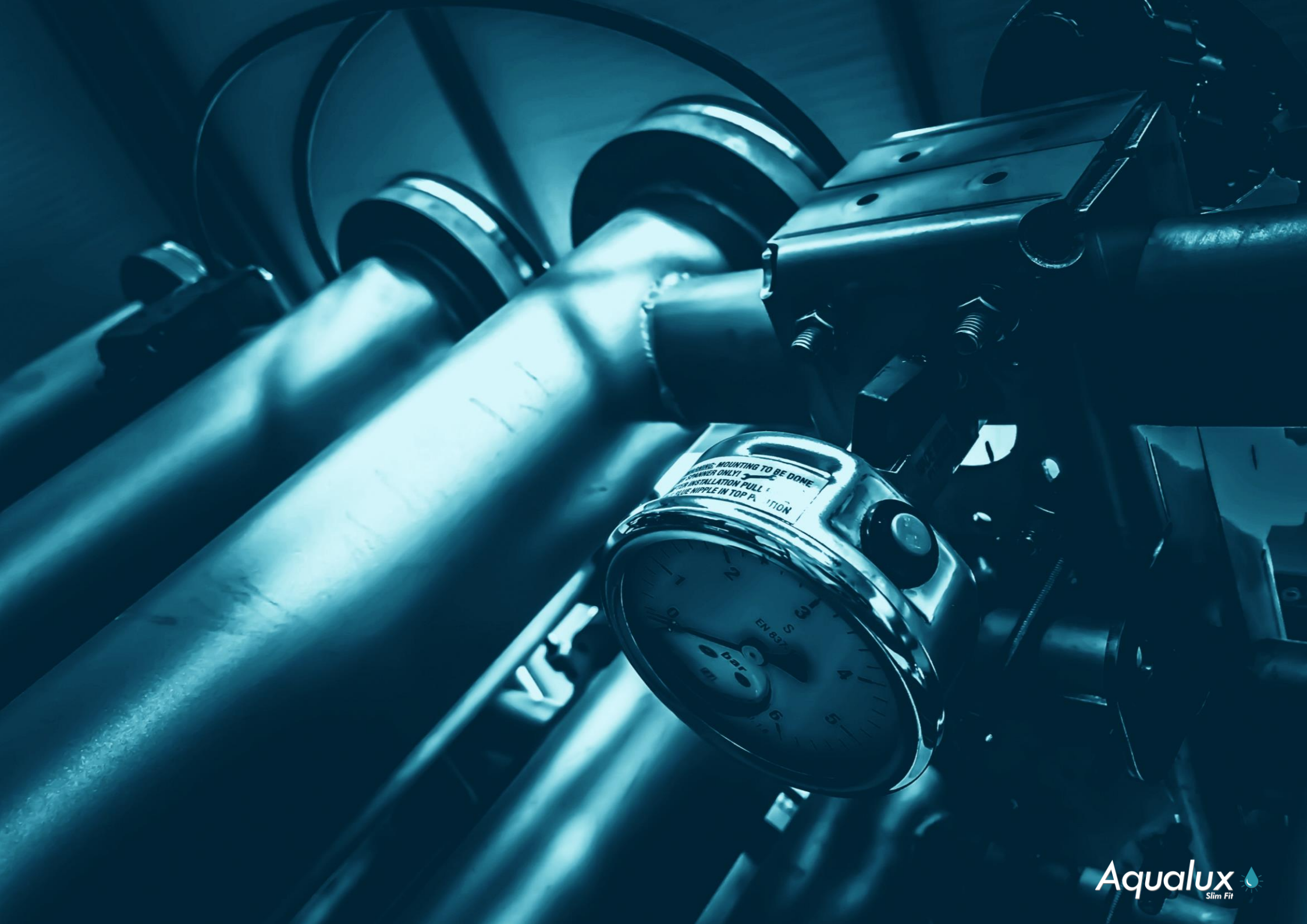


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Contact



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WARNING: MOUNTING TO BE DONE
BY QUALIFIED PERSONNEL ONLY
AFTER INSTALLATION PULL
THE BLUE NIPPLE IN TOP POSITION

