

# Aqualux

Water Disinfection

## Tethys



### Product Brochure

Artechno Growsystems B.V.  
Pastoor Verburghlaan 20a  
2678 NE, De Lier, The Netherlands

 [www.artechno.nl](http://www.artechno.nl)  
 [info@artechno.nl](mailto:info@artechno.nl)  
 +31 (0)174 512 051





# The Story Behind Tethys

**Tethys, the goddess of fresh water that nourishes the earth.** As one of the first gods, Tethys played an essential role in nature - purifying, filtering and cleaning water day in and day out - making sure that all water sources, streams, rivers and lakes worldwide are supplied with fresh, purified water.

Now, in the 21st century, Aqualux Tethys also contributes to returning water to its original, purest form.





# Aqualux

Tethys

***For Responsibly Discharging Drainwater***

## Standard Equipment

- **800W UV-C Lights**  
Guaranteed lifetime of 12.000 hours
- **Low Pressure Water Pump**  
Available in capacities from 0,6 to 1,8 m<sup>3</sup>/h.
- **Level Measurement Start/stop**  
Min/max sensor with automatic start/stop
- **Nitric Acid Dosing**  
For maintaining optimum light performance and regulating PH value
- **Hydroperoxide Dosing**  
In combination with UV-C light, eliminates more than 95% of fertilizers and pesticides in drain water.
- **BZG Certification Pending**  
Certification by Wageningen Universiteit & Research pending for discharging drain water.

## Specifications

<b>System Capacity range</b>	0,6 - 1,8 m <sup>3</sup> /h
<b>Purification grade</b>	> 95%

## Dimensions

<b>Length</b>	1090 mm
<b>Width</b>	800 mm
<b>Height</b>	2440 mm



## Introduction - What is Aqualux Tethys?

**Aqualux Tethys is a water purification system for responsible and sustainable discharge of water from various horticultural applications. Aqualux Tethys removes more than 95% of the fertilizers and pesticides from the drain water, in line with Dutch BZG regulations.**

When growing on substrate, a large part of the water is reused. Because water becomes polluted by salts, among other things, after extensive re-use, it is often discharged. However, the drain water also contains remaining fertilizers and crop protection products, which can cause damage to nature when discharged. In order to prevent permanent damage, regulations for the discharge of drain water (BZG) have been tightened in 2013 in The Netherlands.

Aqualux Tethys is a water treatment system specially designed for entrepreneurs in horticulture who have to comply with new regulations and that care about protecting the environment. The installation uses UV-C light and hydrogen peroxide to remove more than 95% of the contaminants present in drain water, allowing responsible discharge.

With a very compact design, plug & play installation and compatibility with common horticultural control software, the system is quickly and easily integrated. With a pure focus on the purification of drain water, Aqualux Tethys offers a very compact and affordable system that fully complies with the regulations of BZG and protects nature.

### ***Sustainable Drain Water Discharge with Compact and Affordable UV Purification***



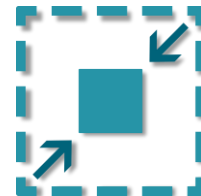
#### **BZG Cert. pending\***

Removes more than 95% of pesticides and fertilizers present in water, in line with BZG regulations.



#### **Easy Integration**

Installation is Plug & Play, controls integrate quickly and easily within your operating software.



#### **Compact Design**

Takes up a limited amount of space due to its very small footprint and compact construction.



#### **Minimum Investment**

Guarantees a low investment by fully focusing on treatment of drain water and no extra fuss.

# Drainwater Treatment - Responsible with Minimum Effort



The purification of drain water is an obligation that contributes to the preservation of nature and water quality. Nevertheless, the purification of drain water can be cumbersome. Aqualux Tethys is equipped with functions and equipment that, with a minimum of effort required, exceeds the required purification degree of 95%, in order to prevent drain water treatment from costing a lot of time and energy.



## High Quality UV-C

Inside the UV chambers, the 800W UV-C lamps work to neutralize substances that are harmful to nature. The UV-C spectrum damages the DNA and make-up of these substances, neutralizing and eliminating them in the process.



## Treatment with hydrogen peroxide

Hydrogen Peroxide (H<sub>2</sub>O<sub>2</sub>) is considered the safest disinfectant in the world. When it comes into contact with bacteria, a reaction takes place that transforms the bacteria into water and oxygen.



## Automatic Cleaning

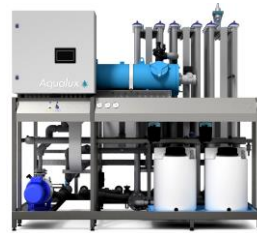
To ensure that the UV lamps deliver top performance, they are automatically cleaned with acid after each purification cycle. This keeps the lamps 100% bright and saves on expensive labour costs for cleaning.



## Plug & Play Installation and Integration

The system is quickly and easily connected and integrated within your current operation. It's just a matter of setting it down, connecting it and starting purification.

# Aqualux Family - Choose The Right Solution For You



**Professional**



**Slim Fit**



**Retro Fit**



**Tethys**

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

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

## Next Steps

### Get in touch with us

Are you interested in an Aqualux Tethys and looking for a local dealer? Or are you already working with a local trusted installer, let us know by phone or email and we will guide you in the right direction.

### Visit our website

Artechno Growsystems innovates in horticulture and vertical farming, on our website you will find more information about what we can do for you.

### Would you like to know more?

If you have any questions you can always call us or send us an e-mail, we will be happy to help you.



[www.artechno.nl](http://www.artechno.nl)



[sales@artechno.nl](mailto:sales@artechno.nl)



+31 (0)174 512 051



[artechnogrowsystems](https://www.instagram.com/artechnogrowsystems)

## Contact



