

**Aqua Exclusive™**

**Green Line UV-C 30  
OWNER'S MANUAL**



**Version: 2023.2**

## **YOUR OWNER'S MANUAL**

For the latest and most accurate information about your filter you can find the owner's manual online. To download or view this manual, please go to <https://www.aqua-exclusive.com/manuals>.

**To ensure that your new filter functions properly and safely, we advise you to read this manual thoroughly before usage.**

## **ILLUSTRATIONS AND PRODUCT SPECIFICATIONS**

The illustrations provided in this document are for demonstration purposes only. All specifications and descriptions contained in this document are verified to be accurate at the time of printing. However, because continuous improvement is a goal at Aqua Exclusive™, we reserve the right to make product modifications at any time. To communicate any inaccuracies or omissions in this document, please send an email to: [support@aqua-exclusive.com](mailto:support@aqua-exclusive.com).

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# Aqua Exclusive™ Overview

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## 1.1 What is the Green Line UV-C?

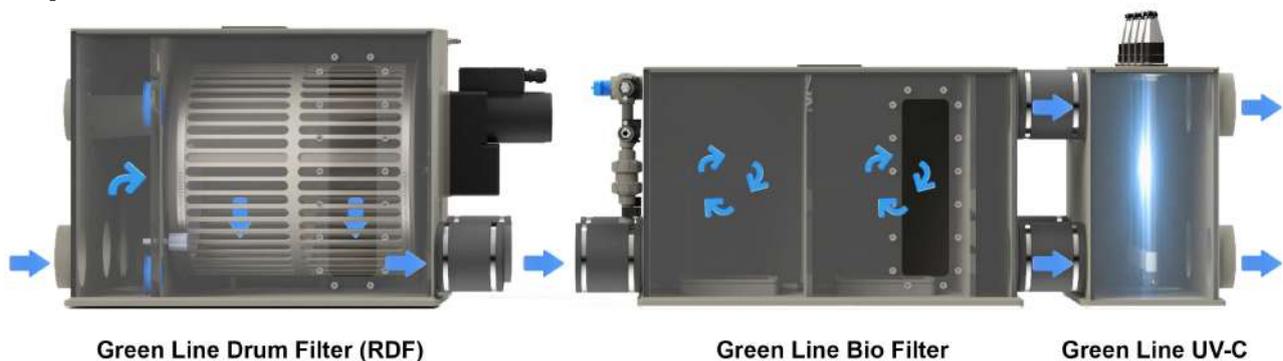
The Aqua Exclusive Green Line UV-C system is a very efficient and compact UV-C system. This system has four 110mm (4 inch) inlets and six 110mm (4 inch) outlets. Up to 4 lamps can be connected. These lamps have a power of 50 watts each, which equates to a total of 200 watts. The polished stainless steel 316L interior of the housing reflects the UV light and makes the UV light 35% more effective.

## 1.2 How does the Green Line UV-C work?

The main function of this system is killing algae and other unwanted microorganisms. When the water containing these organisms passes through the UV-C light, the light damages the DNA and RNA of the organisms, preventing them from reproducing and ultimately killing them. This helps to reduce the overall population of harmful microorganisms in the pond, which leads to clearer and cleaner water.

However, it is important to note that UV-C light is not a complete solution for maintaining a healthy ecosystem. While it can help control harmful microorganisms, it does not remove physical debris from the water, such as leaves or fish waste. A proper filtration system should be in place to remove these particles and keep the water clean.

## 1.3 Aqua Exclusive™ Green Line



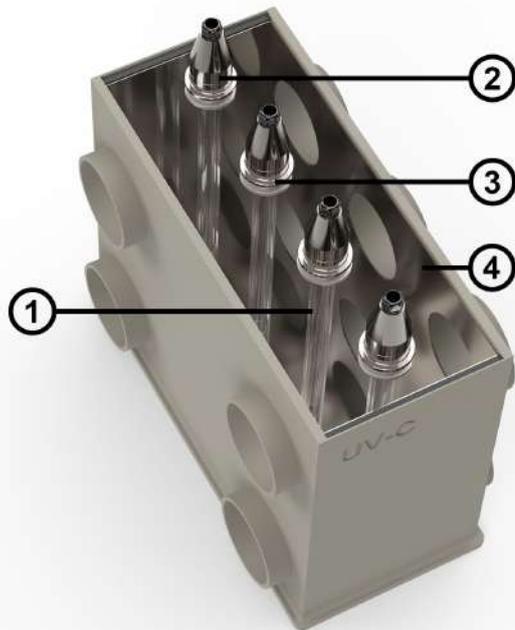
**Figure 1: Green Line overview**

## 1.4 What is included

- Aqua Exclusive™ Green Line UV-C
- UV-C system box
- 24 months manufacturer's warranty
- Lifetime customer support

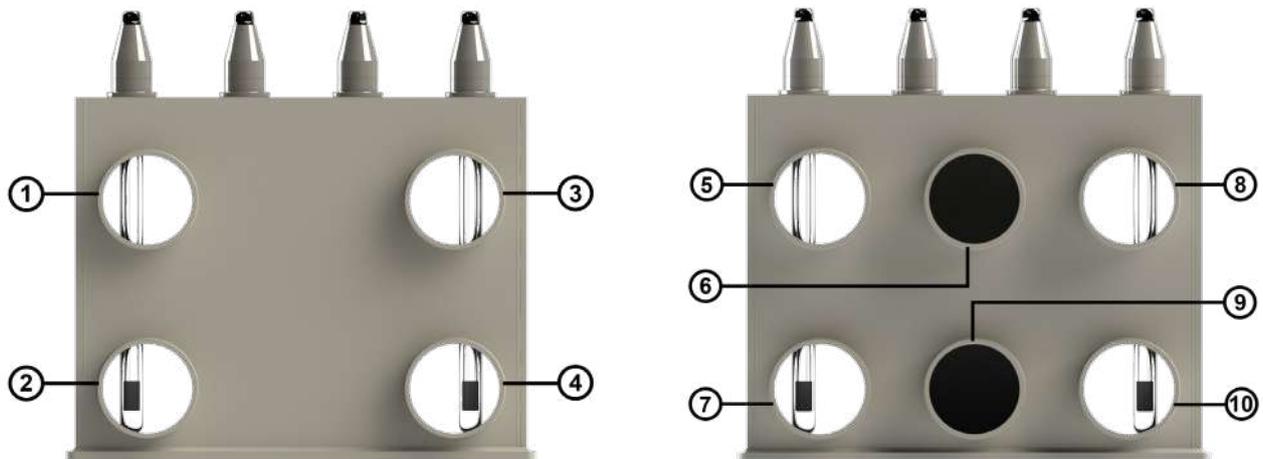
The filter is delivered ready to use in a box. You don't have to assemble the filter, what makes it easy to install.

## 1.5 Filter overview



**Figure 2: Green Line UV-C overview**

- |                             |                            |
|-----------------------------|----------------------------|
| 1. Quartz sleeve            | 3. Flange (SS 316L)        |
| 2. UV-C connector (SS 316L) | 4. Stainless steel housing |



**Figure 3: Green Line UV-C front and back view**

- |   |   |
|---|---|
| 1. Inlet 110mm (4 inch)                   | 6. Outlet 110mm (4 inch) - Pump fed setup |
| 2. Inlet 110mm (4 inch)                   | 7. Outlet 110mm (4 inch) - Gravity setup  |
| 3. Inlet 110mm (4 inch)                   | 8. Outlet 110mm (4 inch) - Pump fed setup |
| 4. Inlet 110mm (4 inch)                   | 9. Outlet 110mm (4 inch) - Gravity setup  |
| 5. Outlet 110mm (4 inch) - Pump fed setup | 10. Outlet 110mm (4 inch) - Gravity setup |

# Aqua Exclusive™ Specifications

## 1.6 Specifications

Specifications	
<b>Model:</b>	Green Line UV-C System 30
<b>Brand:</b>	Aqua Exclusive™
<b>Product number:</b>	300112/300113/300114/300115
<b>Model Year:</b>	2023
<b>Type of filtering:</b>	Ultraviolet (UV) disinfection technology
<b>Type of filter:</b>	UV-C system
<b>Water volume:</b>	Up to 100.000 Liters (26400 Gallon)
<b>Minimum water flow:</b>	No minimum flow required
<b>Maximum water flow:</b>	30.000 LPH (8000 GPH)
<b>Installation:</b>	Gravity / Airlift / Pump fed setup
<b>Filter weight:</b>	16kg (35 lbs)
<b>Inlet pipes:</b>	4x 110mm (4" inch)
<b>Outlet pipes pump fed:</b>	3x 110mm (4" inch)
<b>Outlet pipes gravity:</b>	3x 110mm (4" inch)
<b>Materials:</b>	Stainless steel 316L, Polypropylene, ABS
<b>UV lamps:</b>	2x 50 watt /4x 50 watt
<b>Wavelength</b>	254nm
<b>Suitable for:</b>	Aquaculture, Aquaponics systems, Hydroponics systems, Fish farms, (koi) ponds, (Large) aquariums, Natural swimming pools and more!
<b>Dimensions (Length x width x height):</b>	240 x 520 x 410 mm (29.9" x 20.5" x 9.45")
<b>Manufacturer:</b>	Aqua Exclusive B.V.
<b>Country of origin:</b>	Netherlands

## 2. Safety information

This system may cause bodily harm or damage to property if you do not use it properly and in accordance with all safety guidelines, or if you attempt to use it for any purpose other than that for which it was designed. This system must never be operated by children or anyone under the age of 16, or by anyone who has a physical, mental or sensory impairment or lack of experience and knowledge, unless they are under supervision and have been instructed on the safe usage of the system and are informed of the dangers associated with it. Children must be made aware that this system is not a toy. Cleaning and maintenance must be performed by an adult. This must never be performed by a child, even if they are under supervision.

- Before commissioning, check the entire device, mains lead and plug for damage. If damage is found, the device may not be used. Contact our support team about the damage.
- When opening the lid/maintenance cover, the power to the device/control box must always be switched off.
- We advise to install the filter in a dry, sheltered place. Not in direct sunlight. The filter can be placed outside, but this shortens the lifespan of the filter.
- The device is suitable water temperatures between +4 to +35 °C.
- Outside this temperature range, the filter material may lose its strength and can break.
- The device may only be switched on when there is sufficient water flow.
- For your own safety, always consult a professional electrician in case of any problems.

If you have any questions or concerns about your filter, you can email [support@aqua-exclusive.com](mailto:support@aqua-exclusive.com) or open the live chat at [www.aqua-exclusive.com](http://www.aqua-exclusive.com). Our support team is 24/7 available to help you.

# Aqua Exclusive™ Installation

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## 3. Suitable for many applications

The Green Line UV-C system 30 is a part of the Aqua Exclusive Green Line.

With the launch of the Aqua Exclusive™ Green Line, we bring a professional and complete automatic filter line to the market. A very efficient and compact filter line with the latest techniques in the field of water purification. This premium filter line offers exceptional performance with very low energy consumption.

The Aqua Exclusive Green Line filter is suitable for many applications because you can compose your own filter setup. The different filter parts can be ordered separately so you can make it suitable for the following applications:

- **Aquaculture**
- **Fish Farms**
- **Koi Ponds**
- **Natural ponds**
- **Natural swimming ponds**
- **Aquaponics systems**
- **Hydroponics systems**
- **Aquariums**
- **And more...**



## **4. Filter installation**

In this manual we show you how to install the Green Line UV-C System 30 on a pond, but the filter is suitable for almost all freshwater applications. If you plan to install this system in a way that deviates significantly from the recommendations in this user manual, allow for a specialist to inspect the installation to ensure that all technical specifications have been met.

The filter must always be placed in a level position. The bottom of the filter must be completely supported. When positioning the filter, ensure that there is adequate space on all sides so that you have room to perform maintenance.

Always use high-quality pipes with an adequate wall thickness. Lay the pipes at a downward angle so that they can be fully emptied during the winter to protect them against frost.

# Aqua Exclusive™ Installation

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## 5. Pump Fed or Gravity setup?

Before you start with the installation you need to know how you want to install your filter. The Green Line UV-C System 30 can be used for both, gravity and pump fed setup.

## 6. Pump Fed setup

In a pump fed setup, a pump moves the water from the pond the filter. The water flows through the filter and must be able to flow freely back into the pond. These filters are therefore always placed above water level, otherwise the filter will overflow.

### 6.1 Advantage pump fed setup

The advantage of a pump fed setup is that the filter is quick and easy to install. The disadvantage is that you use more power than with a gravity setup.

### 6.2 Example pump fed setup

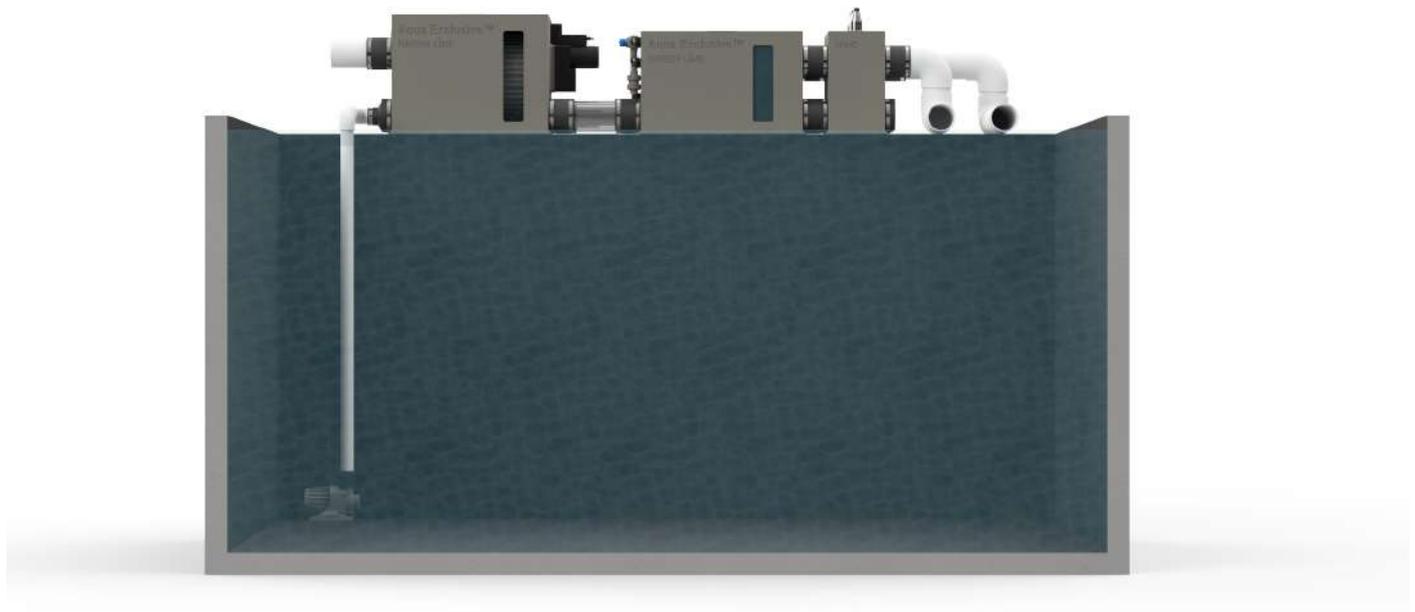


Figure 4: Pump fed setup overview

## 7. Gravity setup

A gravity fed filter works in the opposite way to a pump fed filter system, with the pump drawing water away from the filter either via a suction hose, or been situated in the filter's final chamber. Because gravity will always keep the water levels equal, when the pump pulls water from the filter, pond water is replaced in the filter via the bottom drain. Gravity fed systems are generally more efficient when compared to pump fed systems; bottom drains require very little maintenance and are able to remove all pond waste, whereas pump cages can become blocked over time. The pump in this system is pumping clean, filtered water and therefore does not need as much maintenance. There are no cables or hoses coming from the pond which can look unsightly and may trap debris in the pond. Water entering the filter is not as turbulent as in a pump fed system.

### 7.1 Advantage gravity setup

The big advantage of a gravity setup compared to a pump fed setup is that you need less power to run the same amount of water through the filter. The disadvantage is that it takes more time to install everything.

### 7.2 Example gravity setup

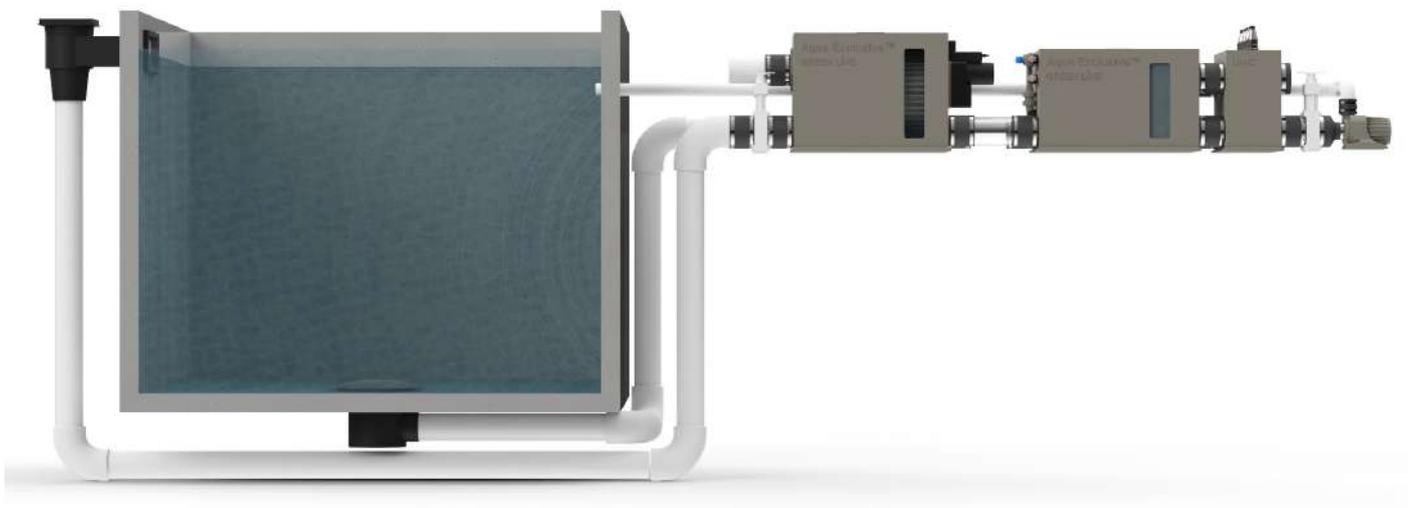


Figure 5: Gravity setup overview

# Aqua Exclusive™ Installation

## 8. Water level

It is important to maintain the correct water level for an optimal operation of the filter system. A lower water level will not make the system work properly and higher water levels can cause leaks.

### 8.1 Water level gravity setup:

- Min. water level: 320mm from the bottom (20mm below the max. level line)
- Max. water level: 340mm from the bottom (max. level line)

### 8.2 Water level pump fed setup:

- Min. water level: 320mm from the bottom (20mm below the max. level line)
- Max. water level: 340mm from the bottom (max. level line)

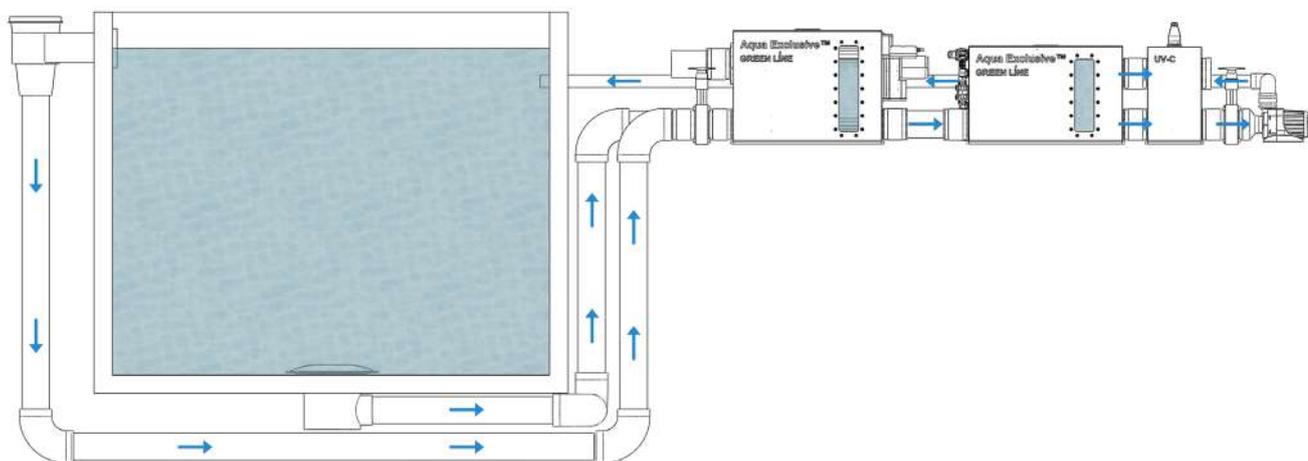


Figure 6: Water level gravity setup

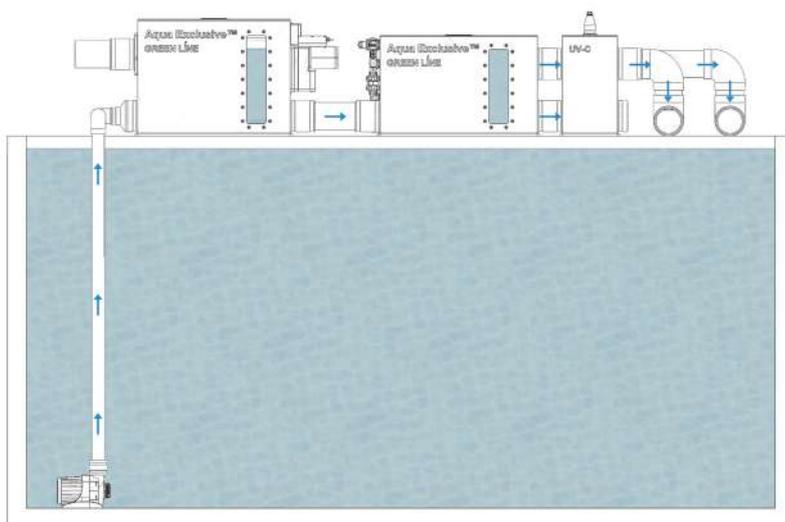


Figure 7: Water level pump fed setup

## 9. Flexible couplings

It is recommended to use flexible rubber couplings when connecting the water lines. These can compensate for small differences in dimensions and also absorb vibration. This allows you to connect the pvc pipes and various filter parts and makes the installation easy.

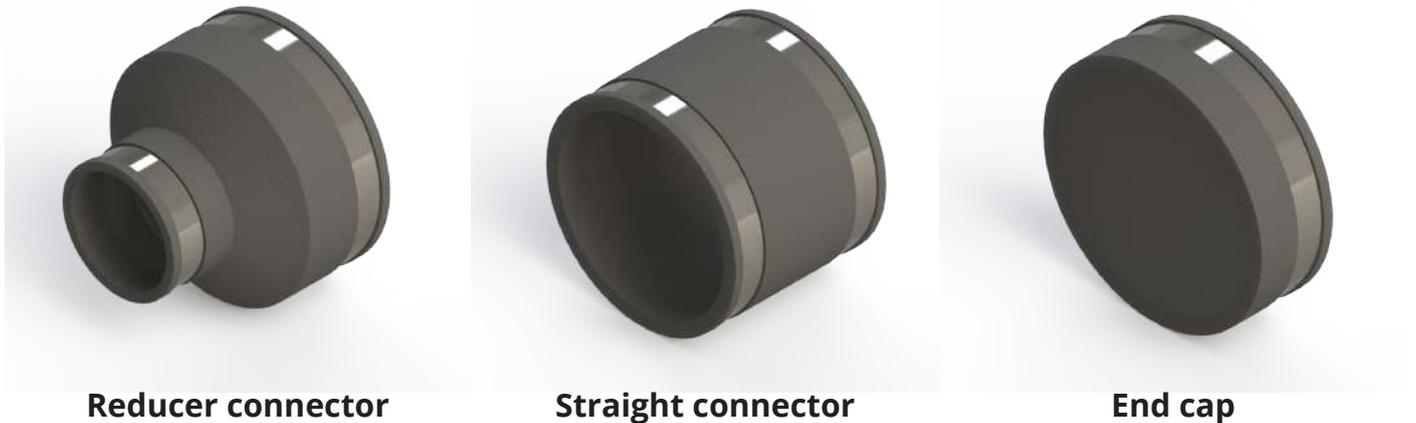


Figure 8: Flexible rubber couplings

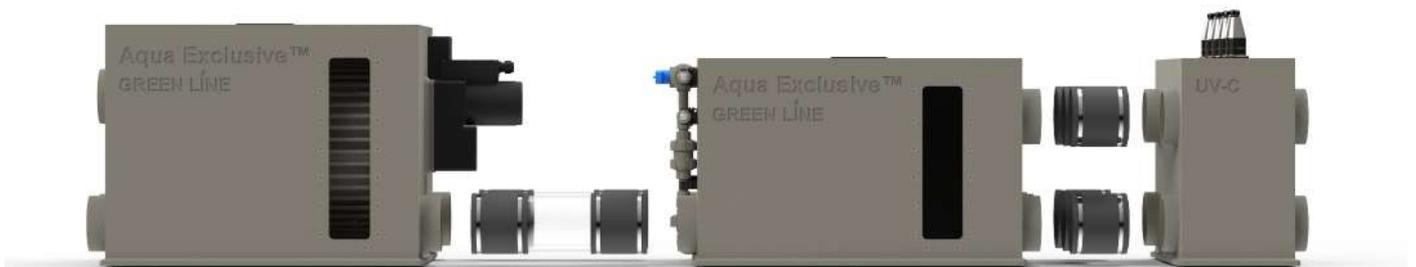


Figure 9: Green Line RDF, BIO and UV-C

## 10. Slide Valve

For a gravity setup we advise to install slide valves or ball valves in front of and behind the filter, so that the filter can be emptied or removed when necessary.

# Aqua Exclusive™ Installation

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## 11. Connecting correct outlets

Connect the correct outlets for your setup. For a pump fed setup use the upper outlets and for a gravity setup use the lower outlets.

### 11.1 Outlets pump fed setup

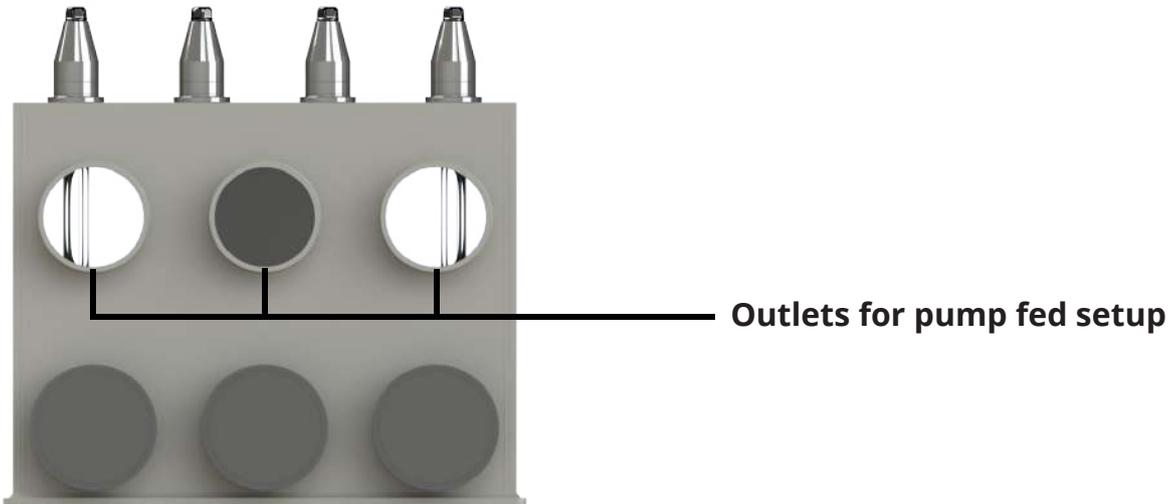


Figure 10: Pump fed outlets

### 11.2 Outlets gravity setup

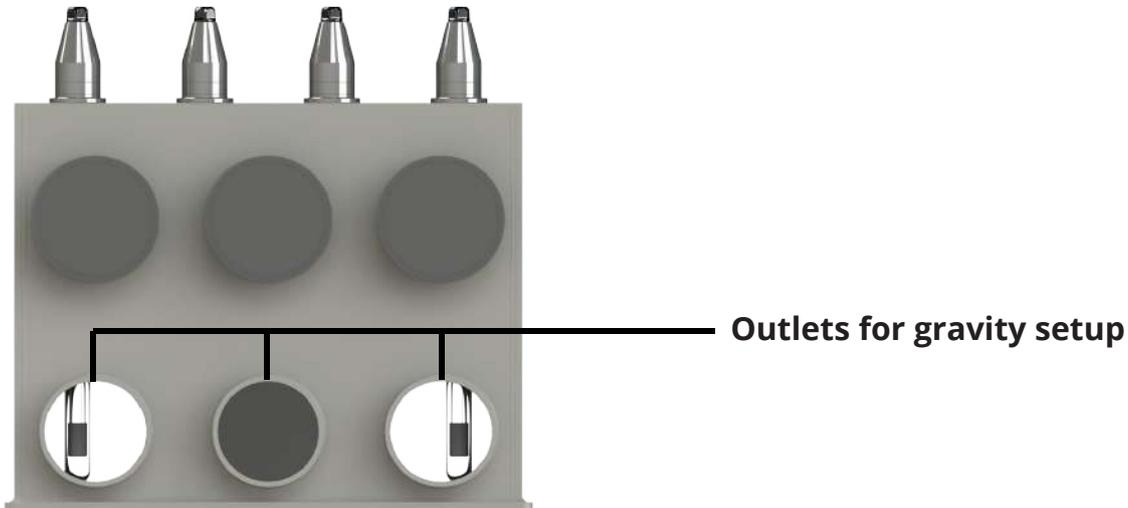


Figure 11: Gravity Outlets

## 12. Connecting the UV-C System

The stainless steel 316L head consists of several parts. Below you can see how to assemble it correctly. Make sure that you always have the power off when you unscrew the head.



**Figure 12: UV-C System**

- |    |                |    |               |
|----|----------------|----|---------------|
| 1. | UV-C connector | 5. | Quartz Sleeve |
| 2. | UV-C head      | 6. | Rubber O-ring |
| 3. | UV-C bulb      | 7. | Flange        |
| 4. | Rubber O-ring  |    |               |

# Aqua Exclusive™ Installation

## 13. Electronic enclosures



Figure 14: Electronic enclosures

### 13.1 How to install the uv-c system box

Mount the uv-c system box on a wall. The cable from the uv-c system box must be connected to the uv-c head. The uv-c system box must be connected to the drum filter control box.



Figure 14: UV-C system box overview

1. Main Supply Cable
2. UV-C system cable
3. UV-C system cable

## 14. Maintenance

We advise to check your filter system at least once a month, to make sure everything is working properly.

**ATTENTION:** the radiation of UV is harmful! When opening the lid/maintenance cover, the power to the UV box must be OFF.

We recommend replacing the UV lamps every year, the quality of the UV radiation decreases after a year.

# Aqua Exclusive™ Technical Drawing

## 15. Technical drawing

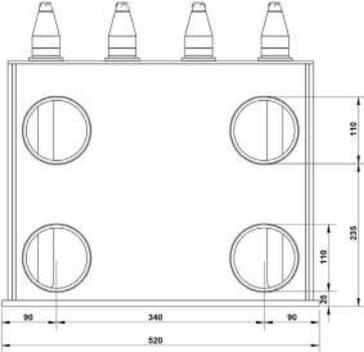
The technical drawing can be downloaded online at [www.aqua-exclusive.com](http://www.aqua-exclusive.com).

**TECHNICAL DRAWING**

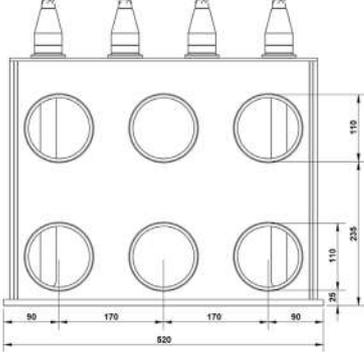
# Aqua Exclusive™

## GREEN LINE UV-C 30









<b>Model:</b>	Green Line UV-C 30	<b>Minimum water flow:</b>	No minimum flow required
<b>Product:</b>	300111	<b>Maximum water flow:</b>	30.000 LPH (8000 GPH)
<b>Model year:</b>	2023	<b>Water volume:</b>	Up to 100.000 L (26400 G)
<b>Type of filter:</b>	UV-C system	<b>Aqua Exclusive B.V.</b> The Netherlands <a href="http://www.aqua-exclusive.com">www.aqua-exclusive.com</a>	
<b>Type of filtering:</b>	UV disinfection		
<b>Max water height:</b>	340mm		

All dimensions are in millimeter (mm)  
 Patented Design: This system may not be modified, reproduced or copied, in whole or in part, without the prior written permission of Aqua Exclusive B.V.

**Aqua Exclusive™**

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