

Reference case

Removal of plant protection products from drainage water in a individual horticultural area

The background

Increasing numbers of pesticides and other micro pollutants enter our water cycle with our waste water. Dutch horticulture is proven to give the highest yields per square meter couple with the lowest water and pesticide use in the entire world. Despite that further regulation has been implemented to make sure no unwanted compounds from our greenhouses enter the environment through their drainage.

The case

Ridder Growing solutions, then Hortimax, an old and valued partner of Van Remmen for years, wanted to develop a system that could comply with these rules while giving growers an affordable and robust solution. Since owners of greenhouses are effectively forced to buy a system the goal was to keep it as simple as possible, while at the same time complying with the strict regulations with a high degree of robustness. Van Remmen was chosen to develop this system for Ridder using their Advanox™ technology.

The solution

A system was developed that used only UV-C light in combination with hydrogen peroxide, the Advanox™ technology. The reasoning behind it was that with few parts also few things can go wrong, which proved to be an excellent choice. Because horticulture is constantly changing



and growing flexibility was an added design criterium which is implemented easily with the inherent scalability of UV-C based systems. By making the entire system staged from the start, and approving it like that, a wide range of capacities can easily be offered and integrated.

Results

The system was fully approved, for drainage water treatment, but also for use with Imidacloprid that has even higher restrictions. The Cleanlite™ system is now sold worldwide with great success.

Facts

Contractor

Ridder Growing Solutions

Location

The Netherlands, Maasdijk

Purpose

Removal of plant protection products

Solution

Ridder Cleanlite

Customer quote:

Jerre de Blok, Ridder Growing Solutions: "we have been working closely with Van Remmen UV Technology since 2013 because of their in-depth knowledge of UV systems and the components that are required for this. At Van Remmen, people are always willing to think along to meet challenges and to respond to new opportunities. I always appreciated that. This partnership has led to the Ridder CleanLite. In a short time we have been able to develop this device and have received BZG approval for it. Almost 200 gardeners in the Netherlands now use it to purify their discharge water."