

VitaLite 500

- This UV sterilization system was developed in close collaboration with our water treatment partner Beeckman
- The VitaLite 500 sets itself apart in terms of durability and effectiveness
- Thanks to its many configuration options, the unit can be tailored to the exact needs of any operation
- The VitaLite 500 has been successfully implemented in tree nurseries and nurseries using ebb/flow systems
- Provides excellent safety at a reasonable price
- The UV radiation is highly effective in killing micro-organisms
- Low on energy usage



For Optimum Sterilization of Your Drainage Water

Do you reuse your drainage water? If so, sterilizing the water is a must, because pathogens from one plant can infect your entire crop. As you can imagine, this can have dramatic consequences for production. To prevent this from happening, HortiMaX has designed the VitaLite 500.



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- Sterilization using low transmissions also possible thanks to special radiation chambers
- No changes in fertilizer mixture or temperature increases because of low-temperature lamps
- Automatic sterilization based on water level in tanks
- Dose debit control ensures that the correct dose is applied by adjusting the flow through the unit independently from the transmission
- Sterilization process based on water level in tank can be stopped to sterilize small quantities
- pH-control of the water keeps radiation chambers clean longer because of absence of crystallizing salts
- No formation of nitrites because the low-pressure UV radiation does not affect nitrate ions.
- Check and modify your settings and summaries anywhere and at anytime with Synopta® and Pocket Synopta®

The Right Radiation Chamber for Each Transmission

The three main factors that have to be considered when building a UV sterilization unit are transmission of UV light through the water, the required capacity and the desired radiation dose. Three different types of radiation chambers are available for the VitaLite 500: type LDS for transmissions of 5-30%, type GDS for transmissions of 15-40% and type ADS for higher transmissions. The UV-unit can be tailor-made for both large and small companies, because the radiation chambers are modular in design. An important parameter for effective UV sterilization is the radiation dose. A radiation dose of 100 - 150 mJ/cm² effectively kills nematodes, fungi and certain other pathogens, while a dose of 250 mJ/cm² also kills water-borne viruses. One of main benefits of the VitaLite is the high specificity of the UV-light it uses. Only micro-organisms are killed, while the properties of the water remain unaltered. There is also no need to add large quantities of acid or peroxides, which could potentially harm your plants and which you may have to neutralize later by adding extra lye.

Control Software Includes Complete Range of Options

The control software integrated in the VitaLite 500 includes a comprehensive range of options. For instance, it is possible to set the sterilization process to start based on the water level in your drainage tanks. Other options enable you to sterilize water from up to four drainage tanks, recirculate the water already sterilized through the VitaLite 500, or use the UV unit for pre-mixing drainage water and fresh water based on EC.

This is important if you want to ensure that not only your drainage water but also your fresh water is totally free of diseases. The flow can be adjusted automatically based on the measured radiation to ensure the desired dose is given. Finally, the software automatically regulates the cleaning cycles of the UV-lamps and the sand filter or automatic self-cleaning sieve filter (SAF/AZEZ).

Remote operation with Synopta® and Pocket Synopta®

The VitaLite 500 is easy to operate, especially in combination with the well-known PC-driven Synopta® interface software. This program also enables you to operate any other HortiMaX fertilization and climate computers installed at your company. Fully integrated process control of your entire greenhouse is within your reach!

The components used to build the VitaLite 100 are of the same high quality as those used for the VitaLite 500, but the VitaLite 100 costs less because the control software is not as extensive. The table below shows the main differences in functionality.

More Information?

For more information, please contact HortiMaX at +31 (0)15 362 03 00 or one of our local dealers near you. You can also visit our website at www.hortimax.com.