

FAQ – UVC Water Trap Disinfecter

How does the UVC Water Trap Disinfecter work?

The UVC Water Trap Disinfecter has chrome polish and a nano-coating inside which avoids biofilm to cover the surface inside. At the same time the UVC lamp reduces the number of microorganisms in the water, thus reducing the risk of spread of infections.

Why use a UVC Water Trap Disinfecter?

A growing number of scientific articles point out that the water traps within healthcare facilities very often are the source of spreading hospital infections. By installing UVC Water Trap Disinfecters you reduce this risk.

How to use a UVC Water Trap Disinfecter?

The UVC Water Trap Disinfecter is installed like all other water traps. The only difference is the need of a power supply for the UVC-lamp.



Where to use a UVC Water Trap Disinfecter?

The microbiologists in Copenhagen University Hospital recommend the UVC Water Trap Disinfecter to be used in the following departments, which are all departments with patients who have a weak immune system.

- Department for burned patients
- Department for neonates
- Intensive care units - patients treated with artificial ventilation
- Department for neutropenic patients

The advantages and benefits of using a UVC Water Trap Disinfecter?

It is an inexpensive solution to a challenge which we so far have not seen any other solution for. By reducing the number of CFUs in the water trap you might reduce the spread of hospital infections.

The effect of using a UVC Water Trap Disinfecter?

According to the test reports issued by Copenhagen University Hospital, Rigshospitalet using the UVC Water Trap Disinfector results in a reduction of 3-6 log₁₀ which may prevent spread of carbapenase producing organisms (CPO).

What is the UVC irradiation dose in the UVC Water Trap Disinfector?

The dose of the UVC lamp is 2.850 J/m² +/- 10%, measured at a distance of 13 cm from the lamp after 5 minutes warm up and thereafter 15 minutes of measurement and with a max loss of doze over 12 month of 10%.

Which microorganisms are reduced/eliminated?

According to the test performed by Copenhagen University Hospital, Rigshospitalet, the total number of CFUs are reduced 3-6 log₁₀.

Kathrine Hartung Hansen, MD, PhD, has published a scientific poster which describes the following results:

Species identified:

- **UV-C decontamination reduced the total number of different bacteria identified in water traps exposed to UV-C light (UV-C active=5; controls=9).**
- **After exposure to UV-C light was interrupted the total number of species identified increased.**
- **Under UV-C light exposure *Pseudomonas aeruginosa* and Gram negative intestinal commensals disappeared while *Stenotrophomonas maltophilia* was markedly reduced.**

Is there any documentation for the efficacy of the UVC Water Trap Disinfector?

Copenhagen University Hospital, Rigshospitalet has tested the UVC Water Trap Disinfector and has issued a test-report which document that the UVC Water Trap Disinfector is reducing the number of CFU by 3-6 log₁₀. The scientist Kathrine Hartung Hansen, MD PhD has published a scientific poster describing the same results.

How long time is needed to eliminate bacteria, viruses, spores etc. in the water trap?

The UVC Water Trap Disinfector needs to be turned on 24/7 to provide the necessary reduction of CFU to reduce spread of hospital acquired infections.

How do I know, that the UVC Water Trap Disinfector is decontaminating the water efficiently?

The testing of the UVC Water Trap Disinfecter proves that the device is efficiently reducing the number of CFU.

You can see the UVC light through the drain and thereby know that the disinfection process is on.

You will need to change the lamp once a year to secure the same high efficacy as described in the test-report.

How do I install the UVC Water Trap Disinfecter?

The UVC Water Trap is installed like every other water trap. The only difference is that you will need a power-supply near by for the UVC light.

We have a video which shows in detail how to do the installation.

Does the UVC Water Trap Disinfecter fits to all washbasins/plumbing installations?

Yes, the UVC Water Trap Disinfecter is delivered with a range of fittings which meets the most commend standards.

What are the running costs for the UVC Water Trap Disinfecter?

The UVC Water Trap Disinfecter has the following power consumption:

0,26 kW/24 hour

You need to change the UVC lamp once a year to keep the high efficacy of the UVC Water Trap Disinfecter. You can either purchase the service pack, which include new UVC-lamp and new valves and do the installation yourself or you can sign a service agreement with your local Dolphin Care partner.

Is there a warranty and what does it cover?

The UVC Water Trap Disinfecter comes with a 3-year warranty which covers the water trap and the electrical parts.

How do I maintain the UVC Water Trap Disinfecter?

You need to add a spoon full of citric acid once a month to keep the nano-coating in the drain free of lime-scale.

Does the UVC irradiation disinfect the water that will come out of the faucet or the drain water?

The UVC Water Trap Disinfecter the wastewater from the washbasin.

Will there be any negative effect when people wash their hands often when the UVC Water Trap Disinfectant is active?

No there is no negative effect. The UVC-light will not harm the human skin or the eyes, and there is no bi-products from the process.

Do I have to turn off the UVC-lamp occasionally?

No there is no need to turn off the UVC-lamp. If you see the blue light in the drain everything is working all right.