

UV - STYLO - E

subaqueous Disinfection for HVAC

Installed inside the humidifier collection tanks (Cooling System) Air Handling Units (A.H.U.) UV-STYLO-E sanitizes the water recirculation system. UV-C treatment in water inhibits the proliferation of viruses, bacteria, moulds, spores, very harmful to health, which commonly proliferate inside Air Conditioning Systems.

UV-STYLO-E has been designed to sanitize water directly within basins, sinks, washing systems, etc. totally submerging the device (up to 10 m) or under water splashes.

Most of the time inside the tank containing the percolating water, which is used to be sprayed in the evaporative panels, there, are sedimentation of mold and algae, and the interior surfaces are covered with an unpleasant biofilm. The most risky case is that there could be also deadly pathogens such as Legionella Pneumophila, for which there are several hundred deaths cases per year.

This happens because the water sprayed inside AC system spreads airborne diseases inside buildings, through infectious particles breathable in air.

UV-STYLO-E avoid also so called "Sick Building Syndrome", "Monday Fever", Asthma and Allergies, it allows the control of Hygiene high standards in Food industry and fights against Healthcare Associated Infections (HAI) in hospitals. UV-STYLO-E application is important for not only IAQ and health, but a cleaner AC system is also more efficient from an economic point of view, with less operative and maintenance costs. As a matter of fact, using UVGI the need of filters replacement and clean of inner surfaces is less necessary than usual.

With UV-STYLO-E you obtain a deep and continuous disinfection and cleaning of your AC system, without the use of expensive and polluting chemicals, , in few words with UV-STYLO-E you have better comfort for people in the building, saving money.



WHAT ARE UV-C RAYS?

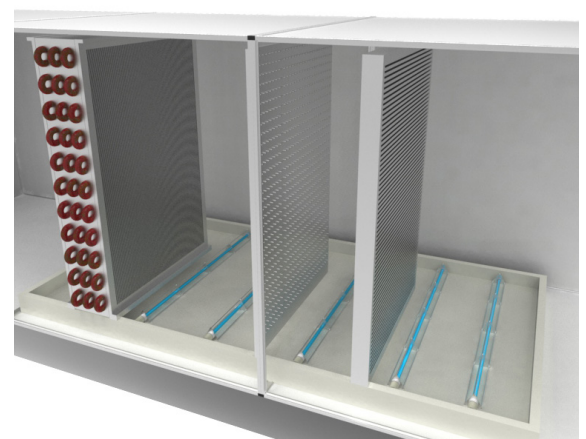
Light in a broad sense can be divided in visible, infra-red and ultraviolet rays.

Ultra-violet rays (invisible) can be classified in:

- UV - A (with tanning properties)
- UV - B (with therapeutic properties)
- UV - C (with germicidal properties)

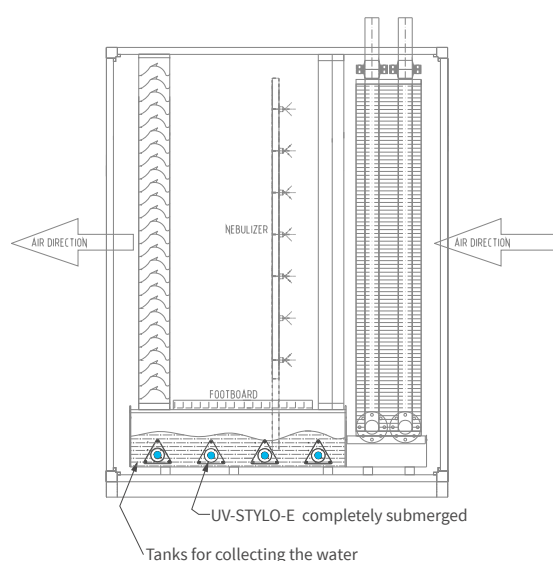
The germicidal effects of the UV-C radiation destroy DNA of Bacteria, Viruses, Spores, Fungi, Moulds and Mites avoiding their growth and proliferation.

UVGI technology is a physic disinfection method with a great costs/benefits ratio, it's ecological, and, unlike chemicals, it works against every microorganisms without creating any resistance.



A.H.U. Application

HUMIDIFICATION SYSTEM



Application scheme

UV - STYLO - E disinfection under Water



UV-STYLO-E Installation



TECHNICAL FEATURES

- Selective UV-C Light Progress lamp (emission peak at 253.7 nm.) high efficiency, ozone free, pure quartz.
- Triangular Frame in STAINLESS STEEL AISI 304
- All materials are tested for resistance to intense UV-C rays.
- Waterproof and dust-proof (IP 68) (Class II).
- Powered by electronic ballasts specific for Light Progress UV-C rays lamps.
- UVLON PIPE sleeve (optional).
- CE mark (LVD - EMC - MD - RoHS).



UV-STYLO-E family includes a choice of models from 23 to 160 cm lengths. The device consists of a triangular frame in stainless steel AISI 304 in which is housed a UV-C lamp protected by a pure quartz sleeve.

At one end a plastic cylinder supports the quartz and contains electrical connections too. Quartz sleeve has the dual function of protecting the UV-C lamp by low temperatures, creating a sort of air buffer that optimizes the performance of UV-STYLO-E.

The system is IP68, 10 m water resistant.

Ballasts are inserted directly inside are specific for Light Progress UV-C lamps, optimizing their performance and durability.

UV-STYLO-E is made with high quality and extremely durable components, and works perfectly in difficult operating conditions (high humidity, low temperature, etc.).