

Air disinfection

In-duct UVC for central ventilation systems

With a market presence since 1939 sterilAir® is one of the worldwide oldest and most experienced companies in manufacturing and development of high-end UVC disinfection systems. We are pleased to present our air disinfection module **sterilAir® ESD**



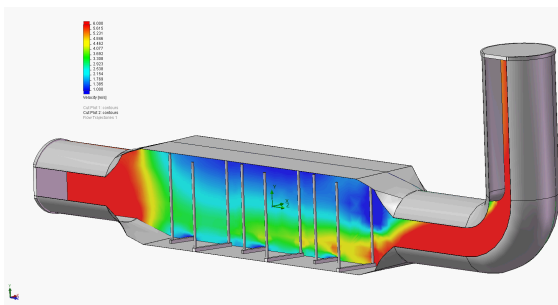
Why air disinfection?

Airborne micro-organisms are not visible, so the ambient air in food production facilities – and the influence it has on the product quality – is often dramatically underestimated. Once airborne, spores and bacteria can settle directly on food products and accelerate their spoilage. But also machines, conveyors and packaging materials get contaminated by airborne micro-organisms.

Integrating a UVC disinfection directly into your ventilation system brings your indoor air hygiene to the next level and is the perfect addition to filtration. UVC inactivates airborne microbes 24/7, safe and reliable, without the use of chemicals or the risk of residues.

Calculation and layout

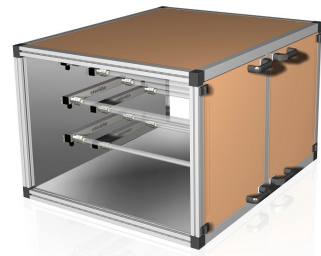
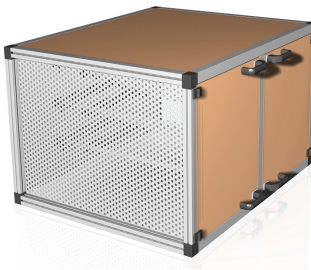
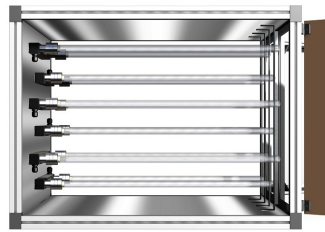
A scientific calculation is the fundamental basis for a successful UV air disinfection. Using one of the most advanced flow simulation software, sterilAir® calculates the UVC disinfection according to your requirements for your specific situation, considering all parameters which influence the efficiency of the installation.



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Layout examples:



Benefits sterilAir® ESD

- + Reduces the risk of product contamination through the air in the production facilities
- + Inactivates bacteria, viruses, phages without interruption of the production process
- + Constant low microbial counts in indoor air
- + Can be easily retrofitted into an existing air-duct
- + Perfect addition to indoor air filter technology
- + For use in all temperature ranges
- + Tube replacement only every 12'000 hours
- + No tools needed for maintenance
- + Low maintenance costs
- + Optional: Glass shatter protection (FDA compliant)
- + Optional: Function monitoring

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Installation examples:

