

Uniform Dose Distribution

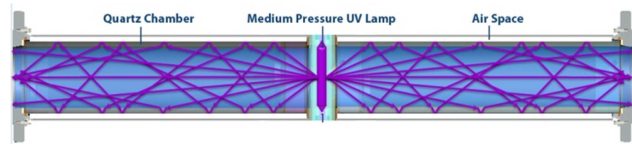
Changing the Way UV is Delivered

Atlantium has changed the paradigm for how UV can be used. The Hydro-Optic™ system leverages fiber optic and hydraulic principles to harness the full power of UV (ultraviolet) light using Total Internal Reflection (TIR) - an optical phenomenon applied in the field of fiber optics where quartz or glass is used to guide and extend the paths UV light photons take.

Harnessing the Full Power of UV Light

The core of the Hydro-Optic system is a water disinfection chamber made of high-quality quartz (instead of the traditional metal) surrounded by an air block. This unique configuration uses fiber-optics principles to trap the UV light photons and repeatedly bounce them through the quartz surface back into the water chamber at different angles, effectively lengthening their paths—and their opportunities to inactivate microbes.

Atlantium uses Medium Pressure broad-spectrum UV light - in fact, the entire UV germicidal spectrum - including the short, potent wavelengths that feature heavily in the disinfection of some very resistant viruses – photons which could otherwise be lost almost immediately. And higher frequency wavelengths tackle algae not affected by traditional UV.

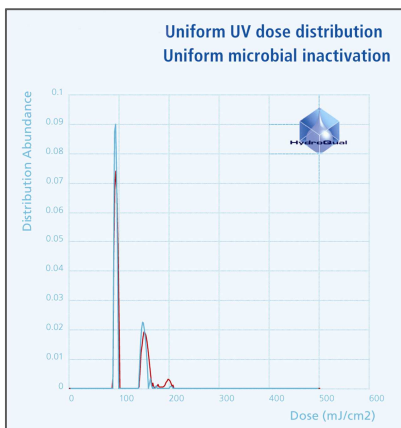


Key to Successful UV Treatment

The long UV paths combined with optimally engineered flow of water in the water chamber maximize UV efficacy, ensuring that all micro-organisms in the quartz chamber are exposed to a uniform UV dose.

With an average dose, not all the water receives the required UV dose; therefore not all the microbes are inactivated. You can't afford to take that risk! With Atlantium systems, there is no risk. All the water receives at least the minimum regulated dose, all the time.

That's one reason Atlantium UV systems are validated for consistently achieving high log reductions – whether it is adenoviruses, IPN or other very resistant yeasts, spores, viruses, algae and molds, including the heat-resistant types.



Validation tests conducted by Hydroqual Inc. used dyed microspheres to characterize different UV systems' true required UV dose distribution. The tests consistently demonstrated that the Atlantium system – more than any other UV system in the market – delivers a uniformly-distributed UV dose throughout the water with no low-dose tracks. This prevents waste of energy and ensures that all target pathogens are inactivated.

For more information, please contact your Atlantium representative.
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