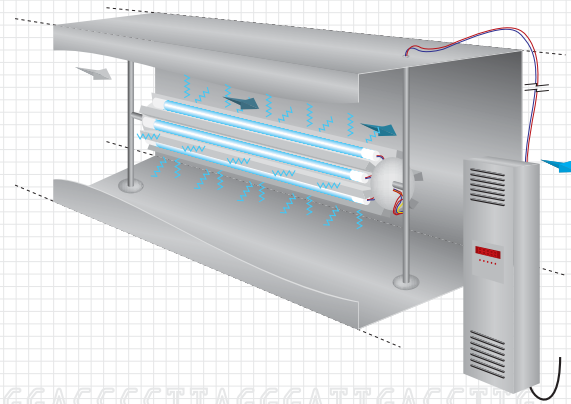


UV BIO-WALL

Standard Indoor Air Quality Installation

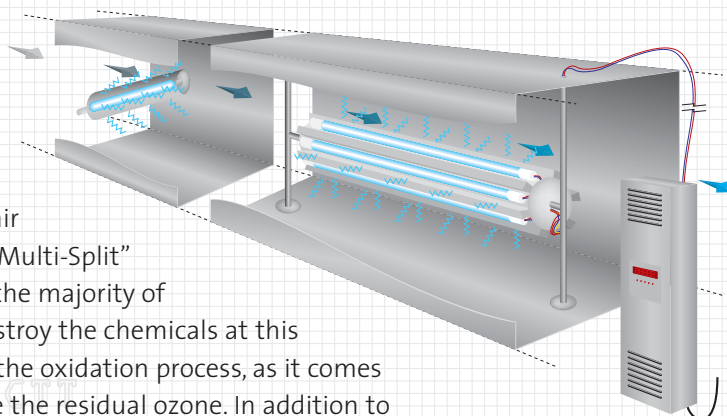
This installation uses the standard UV Bio-Wall. Designed for “all-around” chemical & odor control as well as drastic biological destruction. The UV Bio-Wall produces a UVC Germicidal wall destroying the biological contaminants passing through it. A small portion of UVV Oxidizing glass is used to destroy chemical contaminants and odors. The UV Bio-Wall can be sized for any duct size at any velocity of air, for any desired kill percentage on any biological contaminant.



UV BIO-WALL WITH MULTI-SPLIT

Elevated Chemical & Odor Option

If the application requires a higher level of odor/chemical control, “Multi-Split” fixture(s) are installed upstream of the UV Bio-Wall(s). This perpendicular mounted UV Lamp produces elevated oxidation levels, and insures that all of the air moving in the duct will be treated. The distance between the “Multi-Split” Lamp and the UV Bio-Wall acts as a Reaction Chamber where the majority of chemicals and odors will be destroyed. Oxidation is used to destroy the chemicals at this point in the process. If there is residual ozone remaining after the oxidation process, as it comes in contact with the UV Bio-Wall, the Bio-Wall will then catalyze the residual ozone. In addition to catalyzing the residual ozone, the UV Bio-Wall will also destroy the biological contaminants in the air.



TESTING

Tested by The Environmental Protection Agency (EPA) & The National Homeland Security Research Center (NHSRC) on Biological Warfare Agents (BWAs).

A SINGLE UV Bio-Wall 50” (available up to 60” Lamp lengths) showed greater than 99.97% destruction on one pass on airborne bacteria, 99% on viral & 93% on spore.

Testing under task order 112 of the contract between EPA and Battelle Memorial Institute for implementation of the Technology Testing and Evaluation Program (TTEP was established by the National Homeland Security Research Center with the U.S. Environmental Protection Agency’s Office of Research & Development).

<http://www.epa.gov/NHSRC/pubs/erUVSanuvexo62606.pdf>

See page 22 to read the EPA Executive Summary testing.

