Catch Hold Kill!

The Most Effective Way to Apply UVC Protection to an Airstream.

New, patented Sterile Sweep uses a powerful UVC beam to scan and inactivate airborne pathogens.
The impact of airborne bacteria, molds and viruses on our health is in the news almost daily. More importantly, these pathogens are in the air we breathe in our homes and work places, causing a wide range of problems. Control of them must go beyond simply catching them on a filter: to truly protect, these pathogens must be killed.

There is no question that UVC (Ultraviolet light of the 250-260nm wavelength) is a powerful germicide. Given sufficient intensity, UVC will inactivate pathogens on a surface. But since the intensity depends on contact time and proximity to the light, the question has been how to effectively apply UVC to pathogens moving at 500 fpm through the ducts in an HVAC system. UVC lamps by themselves cannot guarantee sufficient intensity to kill organisms as they move by in the airstream. And while high-efficiency passive filters may capture pathogens, UVC cannot penetrate the dense media, allowing them to remain active.

Now there is a solution, the new Sterile Sweep.

The Sterile Sweep
The breakthrough design of the new Sterile Sweep brings the proven effectiveness of Dynamic’s Germicidal Systems to commercial and residential HVAC installations. The Sterile Sweep couples a high-output UVC lamp with an oscillating parabolic reflector to produce an intense, focused beam of scanning UVC.

Effective: The oscillating reflector focuses the UVC into a potent sterilizing beam which penetrates deep into the media, killing collected pathogens.

Consistent: The upstream housing shields the lamp from dust in the airstream, keeping it clean and maximizing output.

Economical: The patented sweep reduces the number of lamps required.

Versatile: Ideally used with Dynamic Air Cleaners, the Sterile Sweep is effective on coils, passive filters, and other surfaces as well.

Dynamic Panels and the Sterile Sweep: an unbeatable combination
When the Sterile Sweep is coupled with Dynamic Panel Air Cleaners, they create a uniquely effective system that provides the proximity and contact time necessary for UVC to do its job. The Dynamic Panel captures and holds the pathogens on its translucent, polarized media, while the Sterile Sweep beam penetrates the media, repeatedly exposing the pathogens and killing them. This allows for the inactivation of even highly resistant molds and bacteria such as Anthrax.

Protecting Your Most Valuable Asset
Whether a home, a hospital or a corporate headquarters, the most valuable assets in any building are the people inside. The Sterile Sweep and Dynamic Air Cleaners offer maximum protection for the people (and your other assets) from the harmful effects of airborne molds, bacteria, and viruses.

Dynamic Air Cleaning Systems are used to deliver superior air quality and lower operating costs at major facilities throughout the world.