



Agriculture Applications

Fresh-Aire UV Commercial Series ultraviolet germicidal irradiation (UVGI) systems have been used in agricultural applications for over a decade. UV-C light is proven to sterilize mold, bacteria, and viruses safely and effectively, reducing the need for dangerous, expensive chemicals. UVGI systems are most often used in HVAC equipment to inhibit mold and other biological contaminants from growing on air system surfaces and being spread throughout the facility by the air stream. HVAC cooling coils are particularly prone to mold growth.

UVGI is also often used directly on agricultural produce to sterilize bacteria such as e-coli, particularly on delicate products that don't hold up well to washing.

Where odors are a concern our APCO series of photocatalytic oxidation products are unmatched in their ability to neutralize odor causing and potentially toxic volatile organic compounds (VOCs) without producing harmful ozone.



Mushrooms

The conditions required to grow edible mushrooms are also ideal for growing other types of fungus and mold. For this reason it is critical for mushroom growers to prevent the transmission of spores and other biological contaminants in the air stream. UVGI changes the HVAC system from a threat to an ally.

Cannabis

Legal cannabis, particularly that used for medicine, must be held to the highest standards of safety. These medicines are often given to people with compromised immune systems, such as cancer patients, who should not be exposed to health risks from mold, bacteria, and viruses. UVGI is the ideal solution for reducing the risk of biological pathogens spread by the HVAC system because it sterilizes microbes without the use of toxic chemicals. UV technology is also used in several other aspects of this rapidly growing industry.



Blueberries

These delicious and healthy berries are, like all agricultural produce, prone to biological contamination. Unlike most other types of produce blueberries are very fragile and are damaged by washing. UVGI surface disinfection is the answer. The berries are placed on a conveyor and exposed to UV-C light which sterilizes the types of microbes present in fertilizers and soil.



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