

Articles

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° UVC For Home and Office °

UV has been used to destroy airborne pathogens since the early 1900's. Common uses were in food processing plants, butcher shops and slaughterhouses. It's only been in the last ten years that UV systems have been developed to operate effectively in environments such as HVAC systems where cold moving air passes over the lamp.

Today, UV technology is used to improve the indoor air quality and save on energy costs in hospitals, schools, office buildings and homes.

Simply put, every HVAC system is a mold factory...with no exemptions. This is caused by the condensation that occurs at the cooling coil. This dark damp environment is the perfect breeding ground for mold and other harmful microorganisms; they don't stop reproducing until you do something about it. Costly coil cleaning is a short term fix (30 days).

May 2005

{In:UVC For Your Home 'Read Full Article)/ ° Download Article

° UVC Technology Eliminates Coil Cleaning, Improves HVAC Performance °

by Thomas J. Kelly

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Nearly every service technician has had the experience of starting an air handler and being greeted by an odor one could only describe as a "locker room." This experience, also known as the "dirty socks syndrome," is first-hand evidence happens when mold grows on the coil and in the drain pan of an air-conditioning unit. Every service technician has also had the experience of opening a unit to find the drain pan and coil covered with a slimy residue.

These conditions can be as unhealthy for building occupants as they are unpleasant. While the smell associated with mold growth is a bad situation, mold growth on coils also has a detrimental effect on system performance. This degradation of performance ultimately leads to higher energy costs and poor cooling performance.

{In:Coil Cleaning 'Read Full Article}

° Recent Study published in The Lancet 2003; 362: 1785-91 °

Summary: Effect of ultraviolet germicidal lights

installed in office ventilation systems on workers'

health and well-being: double-blind multiple crossover trial

Background: Workers in modern office buildings frequently have unexplained work-related symptoms or combinations of symptoms. We assessed whether ultraviolet germicidal irradiation (UVGI) of drip pans and cooling coils within ventilation systems of office buildings would reduce microbial contamination, and thus occupants' work-related symptoms.

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