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New Ozone Research

In research published by the National Academy of Sciences, it was found that the interaction of skin-oil and ozone produced a host of volatile chemicals. When human skin oils come into contact with ozone – a chemical emitted by many office appliances, ionizers, and ozonators – subsequent reactions produce respiratory and skin irritants. Previous research had shown that ozone rapidly bound to skin oil, but this study was the first to pinpoint the oil component, squalene, at the heart of the interaction and was the first to detail the numerous chemical reactions that followed.

Vapor Intrusion

Vapor Intrusion was the topic in a recent EMSL publication. Vapor intrusion is defined as a gaseous substance emanating from petroleum products or chemicals which seep through cracks in foundations or sewer lines. When left unchecked, these vapors can concentrate to a point that the risks become more significant. When investigating vapor intrusion cases, testing for VOCs is common. Using a 6-liter Summa canister can be helpful.



HVAC Systems and Contaminants



As an example, unfiltered air bypasses filters due to problems such as filter tracks being loose, poorly-maintained filters can sag when they become overloaded with dirt, and filters are often the wrong size. In addition, HVAC systems can recirculate air that contains dust or other contaminants from rooms containing pollutant sources, or return air plenums draw air from rooms that should be exhausted (like a janitor's closet), and return air plenums can draw soil gases from interiors of block corridor walls that terminate above ceilings.

Featured Product



Elite 1000 Humidifier

The model Elite 1000 is a Fan Powered Humidifier that mounts on your furnace distribution system. The integral fan pulls heated air from your furnace and draws that air across a highly evaporative Vapor Pad®. At this point, humidity is absorbed into your air and distributed into the home for improved comfort during those winter months.

Specifications

- Unit Size
16" w x 16-1/2" h x 10" d
- Plenum Opening
14" wide x 12" high
- Evaporator pad replacement number GA19. May also use 990-13.
- 10 year warranty

What They Want

IAQ mitigation strategies that are durable and low-maintenance are more attractive to owners and building staff than approaches that require frequent adjustment or specialized maintenance skills.

Pressure Tactics

Ventilation equipment can be used to isolate or contain contaminants by controlling pressure relationships. If the contaminant source has been identified, this strategy can be more effective than dilution.

A Simple Solution

Sometimes certain IAQ situations may dictate a simple solution such as relocating a susceptible individual away from the area where they experience symptoms.