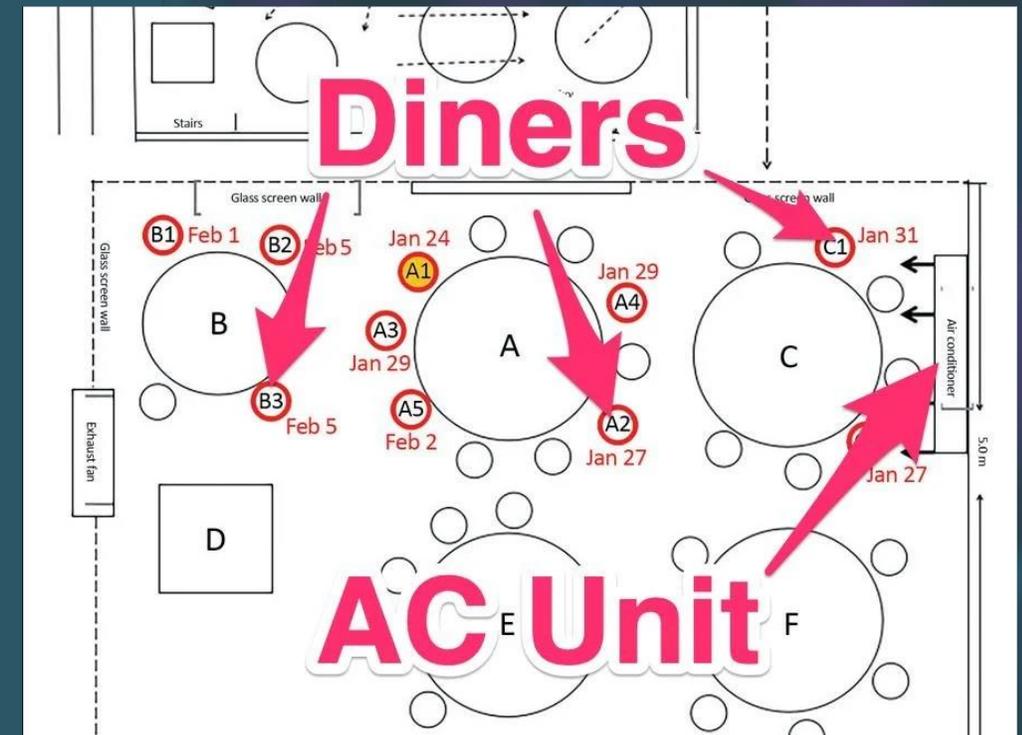


Ultra Violet Air-scrubber in HVAC systems

"DROPLET TRANSMISSION WAS PROMPTED BY AIR-CONDITIONED VENTILATION."

PICTURE SHOWS HOW A RESTAURANT AIRCON IN CHINA GAVE 9 PEOPLE COVID-19

- A diagram shows how an AC unit at a restaurant in Guangzhou helped infect nine people with the coronavirus.
- Patient A1 was infected with Covid-19, but asymptomatic when they dined with their family (A2-5) on January 24.
- The AC picked up air droplets from the breath of patient A1 and blew them around the room. Water droplets usually don't travel more than a meter without assistance.
- Nine other people (four members of A, three of B, and two of C) later tested positive for Covid-19 and were traced to A1.
- "The key factor for infection was the direction of the airflow," a group of scientists from Guangzhou wrote in a letter published in the Emerging Infectious Disease Journal. "Droplet transmission was prompted by air-conditioned ventilation."
- For more info go to <https://www.businessinsider.co.za/how-restaurant-air-conditioning-gave-nine-people-covid-china-2020-4>.



BENEFITS

1

MOULD AND BACTERIA
CONTROL

2

REDUCES SPREAD OF
COLDS AND FLU

3

ODOR CONTROL

4

REMOVE VOC'S
"Volatile organic
compounds"

5

IMPROVED AIR
QUALITY

6

IMPROVED COOLING
EFFICIENCY

BENEFITS

- 1 CONTROLS MOULD AND BACTERIA
- 2 REDUCE COLDS AND FLU
- 3 REDUCE SMELLS / ODORS
- 4 REMOVE VOC
- 5 IMPROVED AIR QUALITY
- 6 IMPROVED COOLING

Fungal contamination via HVAC units is a common issue you can't ignore.

It spreads allergic rhinitis, infectious diseases and asthma-inducing organisms as well as other diseases.

Ultraviolet (UV) lights help you develop a robust air purification system in your home or business. They eliminate fungi, germs, bacteria, pathogens and viruses to keep your people safe.

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Germs are not re-circulated by HVAC system.

Your HVAC system circulates air throughout every room of the house or building, so if someone is sick, their germs circulate airborne viruses and bacteria to healthy family members or co-workers.

UV lighting eliminates organic buildup on cooling coils, drain pipes, and ductwork, so it kills pathogens and microorganisms that would otherwise attack other people.

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Some airborne contaminants merely make us pinch our nose; however, some are extremely hazardous.

Recent studies show that our indoor air harbors invisible odor contaminants that are two to five times higher than the air outdoors.

A major benefit of using UV light for air conditioners is the elimination of VOCs from your ventilation system and thus removing them from your breathing space

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Volatile Organic Compounds, VOCs for short, are a source of odor causing chemicals that infiltrate our air.

According to the EPA, VOCs can be attributed to a long list of health problems such as eye, nose and throat irritation along with nausea and headaches.

We often bring VOCs into our immediate area without even knowing it. Tobacco products, cleaning agents, paints, craft supplies and even personal products such as hair spray and perfumes can be dangerous.

A benefit of using UV light for HVAC is the elimination of VOCs from your ventilation system

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UV lights improve air quality by killing irritants that can make you sick or cause sinus passage to inflame. They combat contaminants that originate in the air-handling units, fiberglass insulation and airborne fungi.

UV lights get rid of drug-resistant bacteria in hospitals by better than 97 percent. Bring this protection to your home and business.

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Overtime the parts inside your HVAC system can become coated with dirt, germs and pollutants that will diminish efficient output. Heating and cooling systems that have compromised functioning will work harder to achieve a desired output.

Increased energy consumption will drive up monthly energy bills and cause unwanted wear and tear on your unit.

Choosing the best UV light for HVAC units will organically clean coils and restore system capacity by 10-35%.

Smoother airflow will reduce maintenance expenses and provide cleaner air.

FACTS

about UV light protection in HVAC system

1

It is scientifically proven. Fungal contamination in HVAC units is a widespread issue that shouldn't be ignored.

This contamination often contributes to building-related diseases, like infectious diseases, allergic rhinitis, asthma and hypersensitivity pneumonitis, according to the [National Center for Biotechnology Information](#).

Ultraviolet (UV) lights can be used in a variety of applications, including air purification. The UV light can help eliminate many types of fungi, bacteria, germs, viruses and pathogens

2

Your home is susceptible to fungus. In 1996, an [NCBI study](#) installed UV lights on certain floors (and not on others) of an office building for four months to measure and compare the fungal levels of each floor.

FACTS

about UV light protection in HVAC system

3 UV lights reduced fungal contamination within air-handling units.

4 UV lights reduced levels of fungal contamination in the fiberglass insulation

5 UV lights reduced levels of airborne fungi in the floor space.

6 In 2012, researchers at [Duke University Medical Center](#) used ultraviolet radiation to nearly eliminate drug-resistant bacteria in 50 hospital rooms, reducing the number of bacteria by more than 97 percent. Many factors play a part in the effectiveness of a UV light in your home's HVAC system, so it needs to be done methodically.