HEALTHY AIR TECHNOLOGY

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CASE STUDY

SPIE WeWork Office Case Study

Situation:

SPIE is one of the world leading engineering firms for built environments, who from the beginning of the Covid-19 pandemic held a keen interest in emerging technology that could tackle the virus making workplaces unsafe. As an independent user SPIE cooperated with Healthy Air technology looking to find a solution which would overcome the problems of low air quality and the airborne transmission of illnesses. SPIE works hard to ensure that businesses are a safe place for people to work and looked for an innovative solution to protect their own workers and that they could protect their clients with. Customers looking to ensure their workspaces are safe to return to face a major problem in deciding which air purifier to purchase, as such the proposed solution would require quality technology that was verified to work and trusted. Meeting these criteria, Healthy Air Technology provided SPIE with two machines for their London office in Canary Wharf.

Solution:

Healthy Air Purifiers are high quality, combining the advantages of new novel technology with existing HEPA filtration, enabling the highest level of performance without drawbacks associated with other purification systems such as UVC light, which has negative side effects on ones health and cannot efficiently kill bacteria and viruses. Two primary attributes Healthy Air purifiers made them attractive to SPIE, namely the DNO Catalyst technology and it's Computational Fluid Dynamics (CFD).

The DNO catalyst is verified to breakdown a variety of pollutants such as NOx and Sox alongside killing bacteria and viruses, including coronaviruses, with a 99.9% effectiveness as certified by independent testing houses such as Intertek and SGS. While some other machines can kill these with similar levels of efficiency, they rely on UV lights or other technology which generates a higher level of ozone, a dangerous molecule in the modern office which is already exposed to high ozone layers from machines such as copiers or PC screens. These factors make the Healthy Air machines a significantly safer machine while being highly effective in increasing air quality, bringing about noticeable changes in the room using the machine's air quality sensors.

Healthy Air Purifiers use a CFD system initially designed for Formula One cars that allows them to fully distribute the clean air throughout the room without leaving any dead spots. It does this by creating an air flow which directs the air across the floor, avoiding any possible infection from dirty air being pulled towards the machine. People's comfort level is not impacted as people do not feel the air flow from the equipment, which significantly eliminate viral load instantly by high turbulence. Importantly the CFD system ensures every part of the room will have equally clean air.

Outcome:

The two machines in the London office are performing well, functioning quietly without generating any disturbing air flow. The HA800 is suitable for a large open office, having the power to ensure the room can stay clean. They take up little space in the office and automatically adjust their speed to the amount of PM2.5's in the room making them highly convenient. The machines have let people feel safe in their return to work, enabling them to go into the office without fear of infection from Covid-19 or other airborne viruses. SPIE felt there is no need to carry out further tests, as occupants are satisfied with the air conditions in the office.

DNO technology is unique to our machines and is **the most effective and safe form of air purification, being certified to completely destroy pollutants.**

Smart control technology

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