



HEALTH



SAFETY



VAPE

HALO Helps Fight the Spread of Infectious Disease with Health Index



Infectious diseases are commonly transmitted through the air as the virus is attached to very fine particulates. The EPA and ASHRAE recommend cleansing the air by using MERV rated filtration systems or bringing fresh, clean, outside air into buildings through ventilation.

How do you know that these systems are working? HALO knows!

As part of its Health Index measurements, HALO monitors Carbon Dioxide (CO₂), Particulate Concentrations, Humidity, Volatile Organic Compounds (VOC), and Nitrogen Dioxide (NO₂) in the air. By monitoring various particulate sizes, HALO can track their levels and when unsafe levels are reached it will inform the occupants or send this information to the building automation systems for immediate filtering and circulation. Keeping our rooms filled with safe and healthy air can be accomplished automatically in buildings equipped with HALO and an HVAC system with a BACnet controller. When HALO detects high CO₂ levels or particulate levels, HALO can notify the HVAC system via its BACnet interface, instructing the HVAC to open its dampers and allow more fresh air into the room. When the levels return to normal, HALO notifies the HVAC system to return to normal operation which allows the HVAC to increase its efficiency in keeping the building heated and cooled.

HALO keeps occupants of a building safe while, at the same time, saving money by efficiently running the HVAC system. Occupants can also open windows to bring in fresh air and lower these levels, thus making the room a safer environment for working or learning. ASHRAE recommends the use of specific MERV rated filters to capture particulates that the virus can live on. HALO can provide a vital layer of protection by notifying facilities staff if levels are not rectifying fast enough, a clear indication that crucial filter or system maintenance is needed.

Another indication of an unhealthy workplace or learning environment are rising CO₂ levels, which are a byproduct of human presence in a room. When air in a space is stagnant, CO₂ levels rise as people occupy a room. The more occupants, and the longer the occupation, the higher the levels rise. Not only is this a clear indication of poor air circulation, but studies also show that high CO₂ levels result in sleepiness, loss of concentration and headaches. A simple solution to lower the CO₂ levels in a room is to open the windows until the levels drop to safe readings or utilize the HVAC system to bring in fresh clean air. HALO can notify room occupants or building automation systems when they need to do so. HALO is a key component in the solution to providing a low-risk environment utilizing your existing HVAC system.



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