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Success, Significance...



From The Desk of Arthur V. Martin, PhD., Principal Senior Scientist

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The Science Behind the M3 System® and Path-Away® Pandemic Protection

Current control of Pandemic Pathogens revolves around conventional, prevalent materials and methods. It took several months for the medical and scientific industries to recently affirm the premise that COVID-19 (SARS CoV2) is in fact transmissible through air.

Prevalent materials and methods are dealing with the phenomenon the way they did ten and twenty years ago. Solutions such as Uv (Ultraviolet light), increased filtration and the application of chemical based products to kill on surfaces have expanded exponentially by those who do not or cannot apply themselves to see abstractly.

The shortcomings of Uv and filtration methodologies are well documented and well know by anyone with a basic understanding of building environmental control systems and their application. The current explosion of the “liquid application” market exposes yet another group of people and companies who can’t conceptualize that true progress comes from the innovative application of existing principals modified to meet current demands.

What Is Brownian Motion?

Brownian motion is the random movement of particles in a fluid due to their collisions with other atoms or molecules in the surrounding medium. Even though a particle may be large compared to the size of atoms and molecules in the surrounding medium, it can be moved by the impact with many tiny, fast-moving masses. Brownian motion may be considered a macroscopic (visible) picture of a particle influenced by many microscopic random effects.

Because the movements of atoms and molecules in a liquid and gas is random, over time, larger particles will disperse evenly throughout the medium. If there are two adjacent regions of matter and region A contains twice as many particles as region B, the probability that a particle will leave region A to enter region B is twice as high as the probability a particle will leave region B to enter A. Diffusion, the movement of particles from a region of higher to lower concentration, can be considered a macroscopic example of Brownian motion.

Any factor that affects the movement of particles in a fluid impacts the rate of Brownian motion. For example, increased temperature, increased number of particles, small particle size, and low viscosity increase the rate of motion. Random movement and collision with other particles are highly affected by air velocity and space limitation. Thus, pathogenic particles (COVID-19 (SARS CoV2) randomly moving in a confined spatial environment have an extremely high probability of coming in contact with a potentially lethal counter particle.

The M3 System® Distribution Module coupled with ***Path-Away Anti-Pathogenic Aerosol Solution®*** completely shatters old concepts, old materials and old methodology. An analysis of The Theory of Brownian Motion and its application to the now acknowledged admission that COVID-19 (SARS CoV2)

can in fact be transmitted people to people provides a solution that outpaces, outmatches and outperforms any current available technology.

Path-Away Anti-Pathogenic Aerosol Solution[®] is a broad spectrum antipathogenic and anti-parasitic liquid solution, in some ways like many others on the market. It is, however, uniquely different than anything on the market. Tested, proven and approved in numerous applications and countries of varying geographic and climatic conditions it is Organic Based. More and more so called “Organic” products are entering the market but none have the credentials of Path-Away Anti-Pathogenic Aerosol Solution[®]. Organic based, non-GMO, no added chemicals, biodegradable, amazing low toxicity to people, plants and animals, environmentally safe and tested against more pathogens than any competing product, it has other unique characteristics in built in by the developer.

The M3 System[®] ***Distribution Module*** will apply the product with a direct relationship to the Theory of Brownian Motion. Path-Away Anti-Pathogenic Aerosol Solution[®] when used in a confined space such as a building interior and dispersed through The M3 System[®] Distribution Module micro vaporized in the eight (8-10) micron range is ground breaking pathogen control technology. The M3 System[®] Distribution Module was conceptualized to take advantage of the fact that virus-laden small (<5µm) aerosolized droplets can remain in the air and travel long distances allowing for the potential aerosol transmission of COVID-19-(SARS-CoV-2).

The M3 System[®] ***Distribution Module*** has an average dispersion rate of 5 gallons/18.927 liters per 3-week period. The total dispersion is not critically tied to HVAC system total cfm (volume of air) but rather to the fact that the total number of cubic feet of molecular volume can reach 1 billion individual ***Path-Away Anti-Pathogenic Aerosol Solution***[®] molecules per 1,000 cubic feet of conditioned space circulating per hour.

The M3 System[®] ***Distribution Module*** provides introduction of ***Path-Away Anti-Pathogenic Aerosol Solution***[®] in small amounts over a constant period of time (the very essence of toxicity: dose x duration). Since fresh air makeup will introduce additional pathogens there is a constant reintroduction of fresh anti-pathogenic solution to address both those recirculating airborne pathogens and provide continued surface protection on a daily basis. Surface protection is achieved through the addition of a non-chemical binding agent which allows some of the circulating molecules to adhere to surface in the system and on surfaces it comes in contact with.

In order for any anti-pathogenic product to attack and neutralize any pathogen, physical contact must be made. Physical contact with ***Path-Away Anti-Pathogenic Aerosol Solution***[®] by the COVID-19-(SARS CoV2) seems to result in disruption of the viral envelope membrane structure thereby nullifying the pathogenicity of the virus. With the extraordinary volume of molecules toxic to COVID-19-(SARS CoV2) in proximity to the virus and in a defined spatial enclosure the possibility that the pathogen would not come into contact with the toxin that destroys it is infinitesimally small.

Recent validation.

The below correspondence was received by Arthur V. Martin and Charles Cole on Friday July 10, 2020 following a recent installation of the M3 System on Blue Teams Corporate Offices in Florida. While the conclusions drawn by Blue Team are in fact anecdotal based on historical testimony on the product and increasing M3 Systems Installations these types of testimonials will continue with our ever increasing installations of the M3 System.

Hi Art, ***“As you know Blue-Team purchased and installed the Path Away M3 System on our corporate office Roof Top Units a couple of months ago. Recently, two of our employees were informed that they***

had, in one case been living with and in the other case been in extended contact with persons that had tested positive for Covid-19 and passed the virus on to others in the same employee meeting our employee attended. It's important to note that both our employees had been at the corporate offices for a couple of hours prior to their exposure and after the exposure with others that tested positive for Covid-19.

Upon notification the two employees immediately left the office and went directly to testing facilities and quarantined away from the office; that is until today. While others that experienced the same exposure at the time our employees were exposed tested positive, both of our exposed employees tested NEGITIVE for Covid-19! We understand that this is only anecdotal evidence that the Path Away M3 System works but those of us at Blue-Team, especially the two employees, are true believers!"

Best regards,
Jeffrey
Morrow

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