

The M3 System®

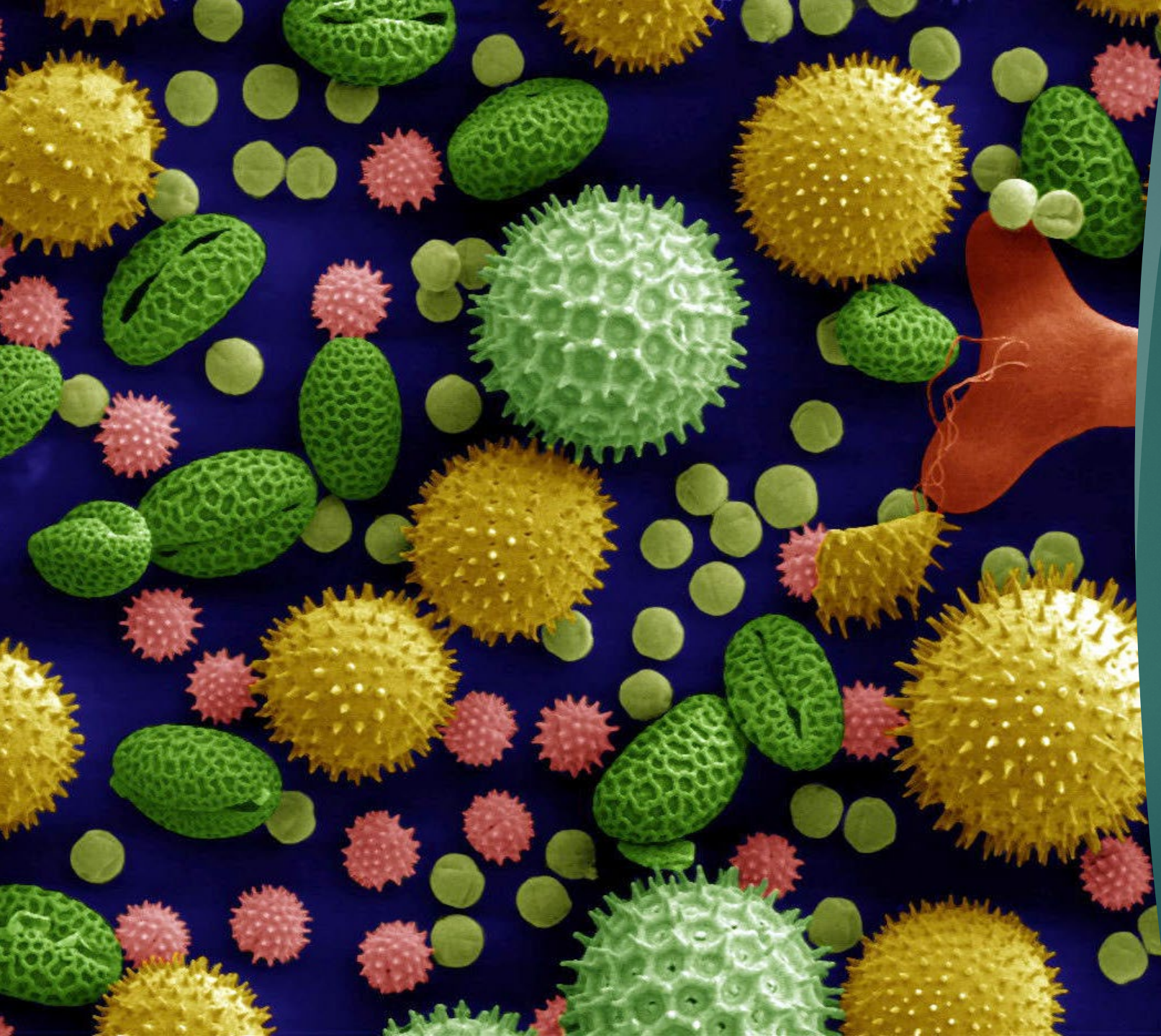
24/7/365 PRO-ACTIVE PANDEMIC PROTECTION FOR FACILITIES

The M3 System®

- ▶ Innovative solution to improving indoor air quality (IAQ) and protecting the health of people who occupy your indoor facilities.
- ▶ Based on The Brownian Theory of Motion Principal
- ▶ Adaptable to buildings of any configuration
- ▶ U.S.A. based technology developed by an award winning scientist/engineer
- ▶ ***Nobel Prize nominated technology***

The M3 System®

- ▶ Continuously eliminate bacteria, viruses, mold, yeast, fungi as well as nonvolatile/nonviable particulates:
 - ▶ **Covid-19 (SARS-CoV-2)**
 - ▶ MRSA BAA 811
 - ▶ Clostridium Difficile
 - ▶ E. Coli
 - ▶ Salmonella typhimurium
 - ▶ Staphylococcus aureus
 - ▶ Pseudomonas aeruginosa
 - ▶ Candida albicans
 - ▶ And many many others



The M3 System®

REDUCE 100% OF
CIRCULATING POLLEN
GRAIN & VOLATILE
ORGANIC
COMPOUNDS

A photograph of an industrial facility, likely a power plant or refinery, silhouetted against a bright orange and yellow sunset sky. Two tall smokestacks are visible, each emitting a thick plume of dark smoke that drifts to the left. The foreground shows a body of water and some industrial structures. The right side of the image is overlaid with a dark teal graphic containing text.

Indoor Air Quality MATTERS

SARS- CoV-2 "COVID-19"

- ▶ 900,000 Americans have died as a result of complications associated with Covid-19.
- ▶ 33% of individuals infected with Covid-19 reporting symptoms consistent with Long Covid.
- ▶ Children are vectors for transmission to adults.
- ▶ Can last between 5-9 days on inanimate surfaces.
- ▶ Covid-19 most commonly spreads when an infected person breathes out droplets and very small particles that contain the virus. These droplets and particles can be breathed in by other people or land on their eyes, noses, or mouth.
 - ▶ People who are in close contact with each other, typically within 1 meter (short-range)

Why Air Quality Matters?

- ▶ **Asthma** is the most common chronic condition among children, currently affecting an estimated 6.1 million children under 18 years in the United States, of which environmental pollutants are one of the major factors contributing to the incidence of asthma in our pediatric population.
 - ▶ Leading cause of school absenteeism due to chronic illness
- ▶ Each day **11** Americans die from complications of asthma
- ▶ There is substantial evidence that indoor environmental exposure to allergens (such as dust mites, pests, and molds) plays a role in triggering asthma symptoms.
 - ▶ Commonly found in schools

Why Air Quality Matters?

- ▶ EPA studies of human exposure to air pollutants indicate that indoor levels of pollutants may be two to five times — and occasionally more than 100 times — higher than outdoor levels.
 - ▶ These levels of indoor air pollutants are of particular concern, because most people spend about 90 percent of their time indoors
- ▶ Comparative risk studies performed by EPA's Science Advisory Board have consistently ranked indoor air pollution among the top five environmental risks to public health
- ▶ Good IAQ is an important component of a healthy indoor environment, and can help schools reach their primary goal of educating children
- ▶ Failure to prevent or respond promptly to IAQ problems can increase long- and short-term health effects for students and staff, such as:
 - ▶ Coughing; Eye irritation; Headaches; Allergic reactions; Aggravating asthma and/or other respiratory illnesses; and In rare cases, contribute to life-threatening conditions such as Legionnaire's disease or carbon monoxide poisoning

Why Air Quality Matters?

- ▶ Protecting special populations:
 - ▶ Asthma, allergies, or chemical sensitivities
 - ▶ Respiratory diseases
 - ▶ Cardiovascular disease
 - ▶ Suppressed immune systems (due to radiation, chemotherapy, or disease)
- ▶ Contact lenses
 - ▶ People with heart disease may be more adversely affected by exposure to carbon monoxide than healthy individuals.
 - ▶ People exposed to significant levels of nitrogen dioxide are also at higher risk for respiratory infections.

Manifestations of Poor IAQ

- ▶ Negative impact on student attendance, comfort, and performance
- ▶ Reduce teacher and staff performance.
- ▶ Accelerate the deterioration and reduce the efficiency of the school's physical plant and equipment.
- ▶ Increase potential for school closings or relocation of occupants.
- ▶ Strain relationships among school administration, parents and staff.
- ▶ Create negative publicity.
- ▶ Impact community trust.
- ▶ Create liability problems.

Standards of Indoor Air Quality

Standards of IAQ

- ▶ Air Change Rate as the airflow in volume units per hour divided by the building space volume in identical volume units.
 - ▶ Replacing the air in a defined space with clean air.
 - ▶ Air Change Rate is typically expressed in Air Changes per Hour (ACH).
- ▶ ACH matters — especially during the Covid-19 Pandemic — because as the ACH increases, the likelihood of exposure to airborne viruses and other harmful pathogens decreases.
- ▶ The Harvard T.H. Chan School of Public Health suggests schools aim for 4-6 air changes per hour in typical classrooms.
 - ▶ Many schools struggle to meet the 4-6 ACH benchmark, especially if their building has poor ventilation or outdated HVAC systems
 - ▶ Opening a window or door is not a long-term solution to this problem.
- ▶ ASHRAE recommends MERV-13 or higher for COVID-19 mitigation.
 - ▶ Not all HVAC systems can accommodate these high-efficiency filters.

Standards of IAQ

Cubic feet per minute (CFM) airflow

- 20 CFM of fresh air per student in a 980 sf classroom occupied by 30 students
- 40 CFM of fresh air per student in a 980 sf classroom occupied by 15 students

Providing exhaust ventilation to janitorial closets:

- 10 CFM of air exhausted from the room will typically make it negative and prevent the buildup of air pollutants

- ▶ Appropriate building pressurization reduces introduction of unconditioned moist air and pollutants from outdoors
 - ▶ The building should be designed to operate between zero and 0.03 in. w.g. (0 to 7 Pa) positive, relative to outdoors

Why Choose the M3 System®?

M3 System®

The M3 System® Module is designed to infuse an efficacious organic based solution to come in contact with airborne pathogens. It is designed to kill viable pathogens such as fungi, bacteria, yeasts and viruses.

The M3 System® has a proprietary sequence of operation built into a compact pumping and control module that can be installed inside your air handler, on the exterior or on an adjacent wall. This module is designed to input one of two authorized organic based products effective against harmful pathogens.

Our proprietary sequencing of frequency and amount of product input has been scientifically tested. Our proprietary product has been used in more than 4,000 applications worldwide.

We assure you of maximum results with minimum costs. The unit is UL Listed in numerous countries.
U.S.A. Patent #17/304,404

M3 System®

- ▶ The M3 System® utilizes the **Brownian Theory of Motion**
 - ▶ “The erratic random movement of microscopic particles in a fluid, as a result of continuous bombardment from molecules of the surrounding medium”
- ▶ The M3 System® micro-infuses billions of molecules of our organic, extremely high efficacy, botanical based product(s) into and onto the surfaces of the buildings HVAC system so that any pathogenic bioaerosols such as **viruses, fungi, bacteria, yeasts** and non-viable particulates such as **pollen** will come into contact with each other through circulation and recirculation of the air in the occupied space.

M3 System®



- ▶ The M3 System® functions automatically, constantly and safely with innovative technology that is “Organic based, Non-GMO, Tested, Proven and Approved.” It provides a steady stream pathogen control function with self-regulatory product infusion to overcome sudden elevated pathogen intrusion.
- ▶ **The developer/manufacturer currently authorizes only two anti-pathogenic solutions for use in The M3 System® Module.**
 - ▶ **Path-Away®**, **NatShield** (Path-Away® “branded”) **and Thymox** are organic based, soluble, fully tested by MICROBAC Laboratory, authorized by the USA EPA and USA CDC for product efficacy testing against the current COVID-19(SARS CoV2) virus. Laboratory certified kill time is **two (2) minutes or less**. The solution has also been efficacy tested against numerous other commonly found pathogens giving it a broad range of pathogen protection far superior to a simple “trapping” filter device.

M3 System®

The M3 System® has been specified and selected by numerous United States facilities for installation to provide permanent pandemic protection.

The M3 System® and the developer have been nominated for a Nobel Prize for 20+ years of research and development leading up to this technology.

M3 System®

The M3 System® has been utilized successfully in a wide range of building applications. A single M3 System® unit is capable of in excess of 50,000 Sq. Ft. coverage.

The M3 System® and the developer have been nominated for a Nobel Prize for 20+ years of research and development leading up to this technology.

Questions?

Contact Oynxx Medical Group to schedule a consultation or to become a corporate sales representative