



PURADIGM[®]
a paradigm shift in purification

Why is PURADIGM[®] Different?

PURADIGM[®] represents a paradigm shift in purification. Surface cleaning is limited by available staff and frequency. Air filtration takes time to work and is limited by the grade and condition of the filter. Neither addresses the real time spread of infections, diseases, and pathogens. How can you do better?

PURADIGM[®] technology works faster than filtration and continues working beyond the static limitations of cleaning. PURADIGM[®] instantly engages and rapidly reduces pathogens both in the air and on surfaces as soon as they are introduced to an indoor environment.

PURADIGM[®] is tested and validated against pathogens for virtually every indoor application. Our particle emitting technology is revolutionary, and will raise the industry standard of what it means to purify.

"In our hospitals, clinical facilities, inpatient and outpatient facilities we have not had a single patient or personnel catch the virus [Covid-19] while on site."

Dr. Jawad Shah, MD
Insight Institute of Neurosurgery

In Air

2400x faster than filtration

University of Florida: PURADIGM[®] shows efficacy of 98.7% on airborne COVID in 10 minutes.

1. Load dependent. Based on UoF study showing estimated reduction of 20k-20m viral particles per second compared to 40 minutes for an average filter with an average cough containing 10k viral particles

On Surfaces

Up to 8x more effective than cleaning

Ankara Oncology Hospital. PURADIGM[®] shown to be 3 to 8 times more effective than cleaning at reducing pathogens in infected patient rooms.

Absenteeism ROI for an office equipped with PURADIGM[®]

Payback period: 7 months
ROI (1 year): 104%
ROI (10 year): 774%

*Includes replacement cells and filters

How Does it Benefit Me?

PURADIGM[®] attacks pathogens in your indoor space, making your environment healthier for people, animals, and plants. This reduces operating costs, increases productivity and ensures a happier, healthier indoor environment.

PURADIGM[®] was introduced in the 5th year of a 5-year study on absenteeism. With PURADIGM[®], absenteeism was reduced by 23% over the previous 4-year average,* helping to alleviate a problem that costs US businesses \$228 billion per year in lost wages and productivity.

US food borne pathogens leading to illness and food waste costs up to \$16 billion annually. PURADIGM[®] has been proven to reduce this risk by reducing pathogens that lead to outbreaks, increasing crop yields normally lost to bacterial rot, as well as extending the shelf life of fresh products.

How Much Does it Cost?

PURADIGM[®] can help reduce the cost of sickness and infections but also gives peace of mind that you have the most effective technology available. The value delivered far outweighs the cost. Depending on the level of protection you require for your facility, your objectives, and your budget, PURADIGM[®] costs roughly between \$0.50-\$3.00 per sq ft. The average cost to install PURADIGM[®] technology into a facility is typically \$1.20 per sq ft.

Is it Safe? Yes.

PURADIGM[®]'s patented technology replicates nature's purification process. Kansas State University has tested PURADIGM[®] for any harmful byproducts and demonstrated the technology poses no risk to people, plants or animals. PURADIGM[®] is registered with the EPA, meets all NIOSH, OSHA, and EPA safety guidelines. PURADIGM[®] is a certified organic purification process.

As featured on:



PURADIGM.COM

Has it Been Proven? Yes.

PURADIGM® is the most validated purifier on the market and was the first to prove efficacy against SARS-CoV-2 (COVID-19). It has been tested by world recognized organizations including the University of Florida, Central Michigan University, Kansas State, University of Colorado Hospital (UCH), Insight Institute of Neurosurgery and Neuroscience, Ankara Oncology Hospital, Pontiac General Hospital, NSF, Ultimate Labs, and the CDCs of various different countries. Some of PURADIGM®'s most important studies include:



Ankara Oncology Hospital

PURADIGM® shown to be 3 to 8 times more effective than cleaning at reducing pathogens in infected patient rooms.



Illinois High School

PURADIGM® showed a 23% reduction in absenteeism. During COVID, the high school had over 90% less infections compared to average schools

Infectious Disease Journal

Researchers independently publish the first peer reviewed paper on PURADIGM®



Ultimate Labs Office Study

The largest space used in a study (22,000 ft³) shows one PURADIGM® device effectively reducing pathogens by 87% in the air and on surfaces



MCR Indoor Growing

Bacterial counts reduced on organic produce while maintain the quality of plants and crop yields.



University of Florida

PURADIGM® is the first to show efficacy on SARS-CoV-2 with reductions of 98% and 99% on air and surface.

Why is PURADIGM® Better Than Other Technologies?

We believe that every technology has its place, and every improvement in air and surface quality makes us all safer. We encourage improvements in all forms of purification. With PURADIGM®, we believe we have developed something truly unique: With our world-wide patented process, we have replicated the sun's natural, safe purification process indoors. The use of our unique charged particle emitting technology can have a dramatic impact on the safety of our indoor spaces and how we keep people healthy and happy. PURADIGM® is more effective and faster at reducing harmful pathogens both in the air and on surfaces.

Solutions for Air

Ventilation or Filtration: Ventilation and filtration are essential parts of any purification system, especially in removing harmful particulates like pollen, dust and smoke.

Germicidal UV: Germicidal UV bulbs, 254 nm, are usually mounted in the duct but can be added to stand alone units.

Ionization: Needle point bipolar, negative ions, positive ions. Ionization has had some bad press but it has shown promise and when combined with filtration it has shown capacity improvements

PCO: A reaction between a UV light and a catalyst called photocatalytic oxidation. It's typically mounted in the duct system.

Why is PURADIGM® Different?

PURADIGM® excels here because it doesn't require pathogens or contaminants to move through the device like simple filtration. PURADIGM® shields the entire room, and immediately starts to reduce pathogens as they are introduced to the environment. PURADIGM®'s charged particles exist throughout the room, making our process thousands of times faster.

Similar to filtration, GUV is limited by contaminants needing to enter the device, where PURADIGM® actively seeks and destroys harmful pathogens by shielding the entire room, without needing direct line of sight to a UV bulb.

The limiting factor for ionization is scalability. It has shown to be effective on surfaces in the lab (35ft³) and in the air (1000 ft³) but not so much in a large-scale practical setting. PURADIGM® has shown efficacy in studies completed in 22,000 ft³ facilities.

PCO used in an HVAC duct system has shown efficacy but suffers from the same time delay as filters and GUV, as well as weak particle dispersion. PURADIGM® actively distributes charged particles thus having much greater reach and speed of action.

Solutions for Surfaces

Cleaning Chemicals: Most common form of surface purification, requires chemicals and labor

Far UV: Far UV bulbs 222 nm. An innovation that has been around for sometime but has gained more traction recently. It continues to be studied.

Fogging: Typically ozone, hydrogen peroxide or other chemical gasses. Can be very effective at disinfecting a large space.

PCO: A reaction between a UV light and a catalyst called photocatalytic oxidation.

Why is PURADIGM® Different?

While we don't recommend you stop cleaning, you may be able to reduce its cost. PURADIGM® is an essential addition to the process. We neutralize what you don't see, the dangerous pathogens that are left behind or missed from cleaning, as well as VOCs off-gassed from the leftover cleaning chemicals.

The limiting factor of Far UV is that efficacy drops with distance and it only works on line of sight. Some products may not protect against leakage outside 222nm range, potentially creating dangers for users. PURADIGM® has been shown to be more effective and safer at less than 20% of the cost of Far UV.

The important difference here is that fogging cannot be used continuously, which requires costly downtime and an inability to actively use a space. While fogging is very effective during operation, it lasts only as long as anything capable of transporting pathogens remains outside of the space. PURADIGM® also achieves this purification effect, while remaining safe to operate 24/7/365, actively working on pathogens while people, animals, and plants are present.

While PCO has shown to be effective in a closely controlled setting, proof of scalability remains a limitation in large spaces. PURADIGM® amplifies the power of this technology, making it scalable and effective in the real world.

THE MOST VALIDATED PURIFIER ON THE MARKET

Puradigm Test Results Summary



Air Reductions

VOC	Reduction	Testing Organization
Acetaldehyde	96.00%	Hye-sung Environment Inc. Korea
Acetone	97.81%	Ministry of Healthcare of Ukraine
Acetone	89.75%	Atmospheric Analysis-Consulting
Ammonia	82.90%	Guangdong Detection Center of Microbiology
Ammonia	93.00%	Hye-sung Environment Inc. Korea
Ammonia	97.57%	Ministry of Healthcare of Ukraine
Bacteria	95.50%	Ultimate Labs
Benzene	80.00%	Guangdong Detection Center of Microbiology
Butanone	97.00%	Hye-sung Environment Inc. Korea
Butyraldehyde	87.00%	Hye-sung Environment Inc. Korea
Carbon Disulfide	99.99%	Atmospheric Analysis-Consulting
COVID 19 (BETA Variant)	98.70%	University of Florida College of Medicine
Dimethyl Disulfide	71.00%	Hye-sung Environment Inc. Korea
Dimethyl Sulfide	87.00%	Hye-sung Environment Inc. Korea
Formaldehyde	81.10%	Guangdong Detection Center of Microbiology
Hydrogen Sulfide	97.00%	Hye-sung Environment Inc. Korea
i-Valeric Acid	94.00%	Hye-sung Environment Inc. Korea
Methyl isobutyl ketone	99.99%	Hye-sung Environment Inc. Korea
Mold	99.99%	Ultimate Labs
n-Butyric Acid	98.00%	Hye-sung Environment Inc. Korea
n-Valeric Acid	69.00%	Hye-sung Environment Inc. Korea
Propanol (IPA)	60.69%	Atmospheric Analysis-Consulting
Propene	99.99%	Atmospheric Analysis-Consulting
Propionaldehyde	92.00%	Hye-sung Environment Inc. Korea
Propionic Acid	75.00%	Hye-sung Environment Inc. Korea
Styrene	86.00%	Hye-sung Environment Inc. Korea
Toluene	99.00%	Hye-sung Environment Inc. Korea
Toluene	99.99%	Atmospheric Analysis-Consulting
Total VOC	83.20%	Guangdong Detection Center of Microbiology
Trimethylamine	93.00%	Hye-sung Environment Inc. Korea
Xylene	95.00%	Hye-sung Environment Inc. Korea

Puradigm © 2020

Puradigm Test Results Summary

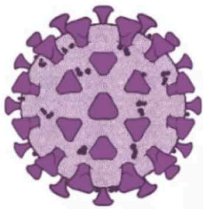


Surface Reductions

Pathogen	Reduction	Testing Organization
Acinetobacter baumannii	98.22%	Ankara Oncology Hospital
Aspergillus brasiliensis	84.15%	UC Colorado Hospital
Bacillus atrophaeus	99.81%	Kansas State University Food Science Institute
Bacteria	99.45%	Institute Jantung Negara PICU Malaysia
Bacteria	99.98%	Quadrants Scientific Inc - Golds Gym
Bacteria	99.63%	Quadrants Scientific Inc - Nail Salon
C. Diff	99.53%	NSF International Lab
Candida albicans	99.99%	Kansas State University Food Science Institute
CRE	99.98%	Kansas State University Food Science Institute
Coronavirus 229E	99.00%	Central Michigan University College of Medicine
COVID 19 (SARS-CoV-2)	97.70%	University of Florida College of Medicine Australia
COVID 19 (DELTA Variant)	99.78%	Government Lab
Dengue virus type 2	99.00%	Central Michigan University College of Medicine
E. coli	99.59%	Kansas State University Food Science Institute
E. coli	99.99%	Ministry of Healthcare of Ukraine
E. coli O157:H7	99.41%	Kansas State University Food Science Institute
Enterococcus faecalis	99.99%	Ministry of Healthcare of Ukraine
Fungus	99.99%	Ministry of Healthcare of Ukraine
H1N1	99.60%	Guangdong Detection Center of Microbiology
Legionella	99.99%	Kansas State University Food Science Institute
Listeria monocytogenes	99.87%	Kansas State University Food Science Institute
Mold	89.00%	Ultimate Labs
MRSA	99.24%	Kansas State University Food Science Institute
Pseudomonas aeruginosa	74.88%	UC Colorado Hospital
Pseudomonas aeruginosa	99.54%	Kansas State University Food Science Institute
Stachybotrys chartarum	99.99%	Kansas State University Food Science Institute
Staphylococcus aureus	99.99%	Ankara Cancer Education and Research Clinic
Staphylococcus aureus	99.15%	Turkey Kansas State University Food Science Institute
Staphylococcus aureus	99.90%	Institute Pontiac General Hospital
Staphylococcus aureus	74.88%	UC Colorado Hospital
Staphylococcus epidermidis	99.99%	Ministry of Healthcare of Ukraine
Streptococcus pneumoniae	98.83%	Kansas State University Food Science Institute
Total Aerobic Count	66.49%	Meat Production Plant
Total Coliforms	93.88%	Meat Production Plant
VRE	98.22%	Ankara Oncology Hospital

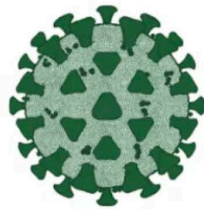
Puradigm © 2020

PURADIGM® has successfully tested against more variants of coronavirus than any other purifier:



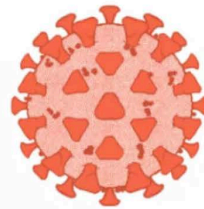
SARS-CoV-2

↓ 97.7%



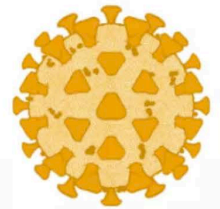
Beta Variant

↓ 98.7%



Delta Variant

↓ 99.8%



Corona 229E

↓ 99.0%

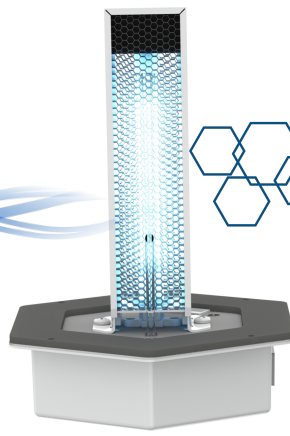
*Tested on both aerosolized and surface bound coronavirus

How Does it Work?

PURADIGM® offers real time protection against mold, bacteria, and viruses, including COVID, by creating a shield of charged particles. These charged particles continuously attack pathogens as soon as they are introduced, both in the air and on surfaces.

Step 1

Using its patented photocatalytic reactor PURADIGM® technology converts air and water molecules into charged particles.



Step 2

These charged particles are released into the space at a constant and steady flow, attacking pathogens instantly. PURADIGM® attacks the problem at the source, eliminating the time delay of regular filters.



Step 3

These particles revert back to their natural state, air and water, leaving no harmful byproducts. PURADIGM® is certified organic.

Commercial Products



	ZONE™ 20	ZONE™ 50	ZONE™ 100
Maximum Coverage	750 sq. ft.	1500 sq. ft.	3000 sq. ft.

Industrial Products



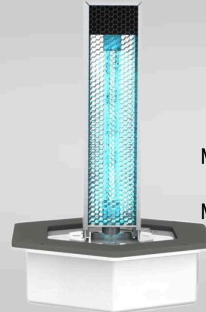
	FLOW™	PRO™
Maximum Coverage	1000 sq. ft.	4000 sq. ft.

Greenhouse Products



	FLOW™	PRO™
Maximum Coverage	500 sq. ft.	2000 sq. ft.

HVAC Products



	HVAC 5"	HVAC 9"	HVAC 14"
Maximum Area	1600 sq. ft.	2400 sq. ft.	4000 sq. ft.
Maximum CFM	3000 CFM	6500 CFM	9000 CFM

Notable PURADIGM® Customers



To find out more call or email:

(877) 611-0171 sales@puradigm.com

*PURADIGM® protects people, plants and animals
from the world's most dangerous pathogens*