

Puradigm Solutions
Authorized Puradigm Distributor
(248) 449-1104



Child Care / Day Care / Schools:

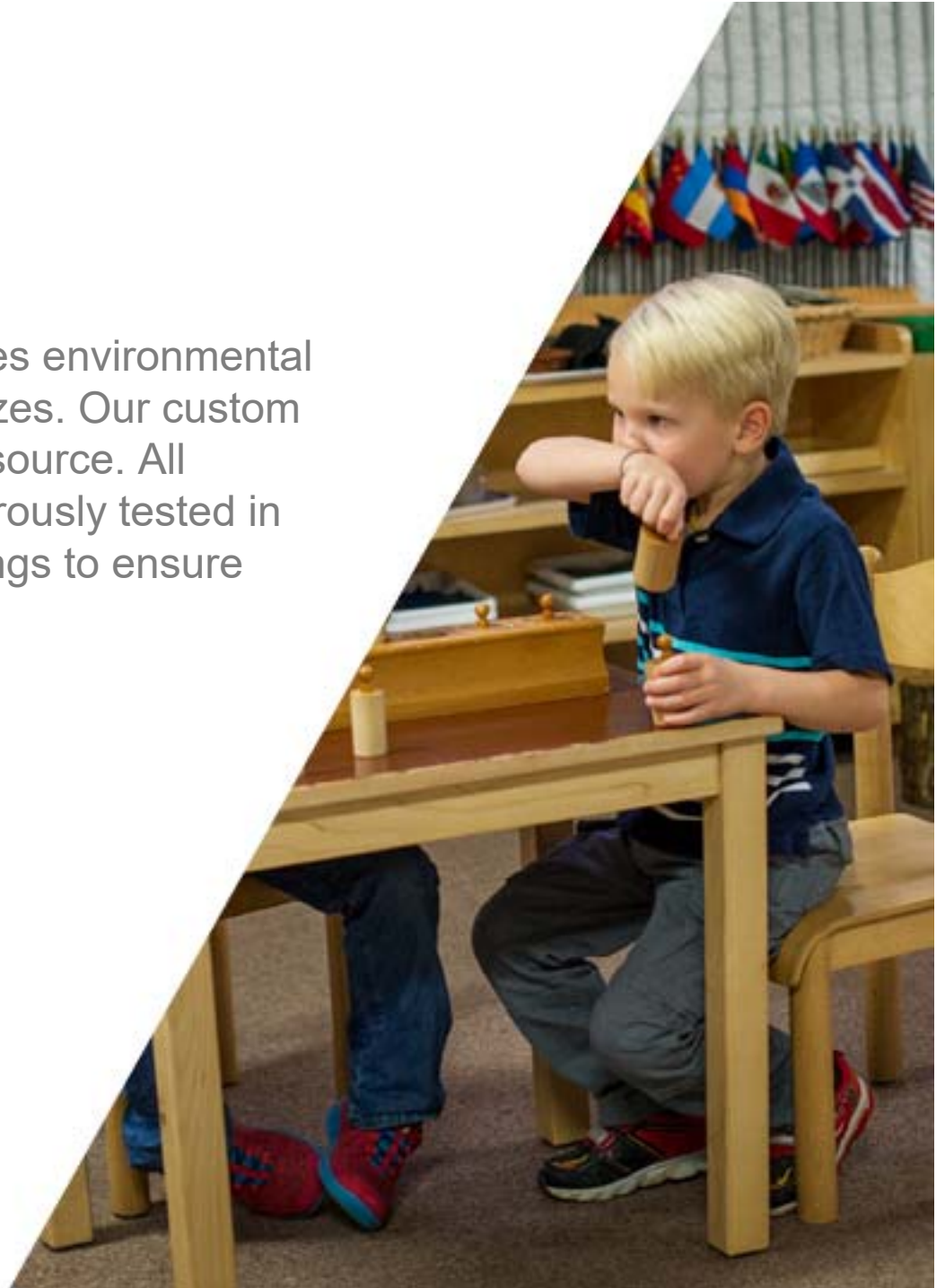
**Proven Solutions
for
Serious Challenges**

www.puradigmsolutions.com

PURADIGM®

Puradigm designs and manufactures environmental solutions for indoor spaces of all sizes. Our custom solutions address problems at the source. All Puradigm solutions have been rigorously tested in both university and real-world settings to ensure they are:

- Active
- Scalable
- Safe



Why Paradigm?...Why Now?

The Vicious Cycle of Daycare Germs

Ask Dr. Sears: Daycare Center Germ-Swapping

Put a few coughing kids together in a room and inevitably, the germs *will* spread. Children in early daycare or preschool are simply more susceptible to respiratory and intestinal infections. It also seems like every child, regardless of whether or not they are in daycare, goes through a stage where they are always ill. While daycare children do tend to contract more infections early on, they also seem to build up their immunity by the time they start school, while children who were not in daycare tend to become sick more often during the first few years of school. It's simply a normal rite of passage as children build up their immune systems. That said, there are several things you can do to lessen your child's risk of acquiring infections at daycare.

Daycare Germs: Talking to Your Child's Teacher About Fighting Illness

Aseelah El-Amin is a self-proclaimed germophobe. When the Atlanta mom was looking for [daycare](#) for her 18-month-old daughter, she visited many child-care centers, always asking the directors lots of questions. She asked how they kept toys clean, what the policy was about sick kids, and how they worked to fight germs. "I knew that when children started daycare, they got sick a lot," she says, "so I was really picky." Toys were cleaned every day with natural cleaning products. Parents were given a list of symptoms -- such as [diarrhea](#) and [pinkeye](#) -- that meant sick kids had to stay home. Like El-Amin, you may be concerned about germs, hygiene, and sanitation when choosing a daycare center. Then your worries may surface again when [cold and flu](#) season starts. That's when you may notice several other children with runny noses and [coughs](#) playing side by side with your child. These concerns are valid, pediatricians say. With so many small kids together in a small place, daycare can be a breeding ground for bacteria and viruses.

Why Puradigm?...Why Now?

Child Care Environment:

- It's a known fact that a myriad of virus and infections are spread from child to child to parents through general interaction at schools and day care facilities.
- Generally, children who attend childcare are 2 to 3 times more likely to acquire an infection than children who do not use such services.
- A normal Daycare environment. One child comes in with a cold or other virus and it is spread to others through the air and normal interaction as well as surfaces such as toys, chairs, and play areas.
- Regular handwashing helps, but is not enough and will not treat the air and surfaces within the facility. Childcare providers are frequently at a loss as to how to combat these epidemic conditions.
- The Puradigm technology provides a safe, organic, and scalable air and surface purification solution to any size facility.

Why Puradigm?...Why Now?

Puradigm Benefits:

- Provides a safer, healthier environment for your employees and children.
- Reduces or eliminates odors, viruses, VOCs and other Indoor Air Quality issues.
- Reduces Bacteria and Mold on surfaces and in the air.
- Enhances reputation of facility and provides a more clean and pleasant atmosphere and experience for the children and their parents.

Financial Benefits:

- Daycares competing for customers can advertise the Puradigm Purified Environment Safety Strategy.
- Customers who enjoy the environment will stay and refer your center to other potential customers.
- Reduced child absenteeism and increased income.
- Reduced staff absenteeism removing the supervision coverage chaos.

Puradigm: **What is it?**

- Puradigm specializes in proactive air and surface purification with a patented technology that has been university tested and validated to be effective against Listeria, E. coli, Staph, MRSA, Strep, mold, and other pathogens as well as airborne VOCs (volatile organic compounds).
- Puradigm technology is a patented enhancement of a NASA-developed technology, Photo-catalytic Oxidation (PCO).
- Puradigm's active technology works 24/7 to manage microbial pathogens, VOCs and odors at their source - in the air and on surfaces - in all indoor environments.
- Puradigm creates a cleaner, safer environment for employees, customers and produce by duplicating nature's process, indoors...purification as nature intended it.
- Puradigm mitigates the risk of illness, outbreaks, and cross-contamination linked to any indoor environment.
- Puradigm is a preventative and proactive solution for employees and customers
- Puradigm is Active, Scalable and Safe – 24/7

Puradigm: **Does it Work?**

University Tested and Validated



KANSAS STATE
UNIVERSITY



Kansas State University Validation

	S. aureus	MRSA	E. coli O157:H7	E. coli	B. globigii	L. Mono	P. aeruginosa	S. pneumonia	C. albicans	S. chartarum	CRE	Average
24 Hrs	2.07	2.12	2.23	2.39	2.71	2.9	2.34	1.93	3.87	4.12	3.79	2.77
O3 ppm	0.02	0.02	0.01	0.02	0.03	0.02	0.02	0.01	0.03	0.02	0.01	0.02
H2O2 ppm	0.4	0.4	0.4	0.5	0.4	0.4	0.45	0.5	0.45	0.55	0.21	0.42

Log reduction shown in row 1 of the table above describes Puradigm's kill rate on the associated pathogen

- 1 = represents a kill rate of 90%
- 2 = represents a kill rate of 99%
- 3 = represents a kill rate of 99.9%

Testing conducted in 2x2x4 chamber. Maximum O3 limit 0.05ppm. Max H2O2 limits 1.0ppm



OXIDIZERS

- Produces H_2O_2 and $O^3 =$ Hydrogen Peroxide and Ozone



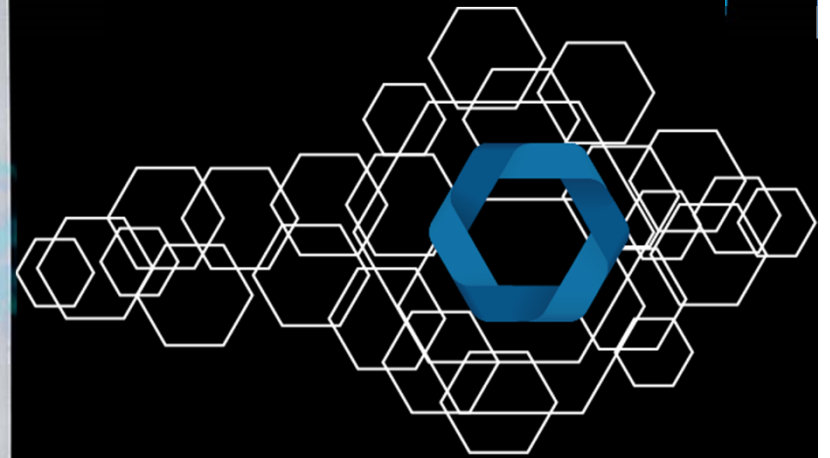
HIGH ENERGY CLUSTERS

- Produces $+H$ and $-O^2$
- Combines the positive Hydrogen and negative Oxygen ions along w/ other electrons to create High Energy Clusters

- Puradigm emits High Energy Clusters (HECs) and advanced oxidation into the environment. These elements combine to create continuous reactions throughout the space, actively attacking viruses, bacteria and other pathogens in the air and on surfaces.
- Puradigm is Active, Scalable and Safe – 24/7

PURADIGM[®] Technology

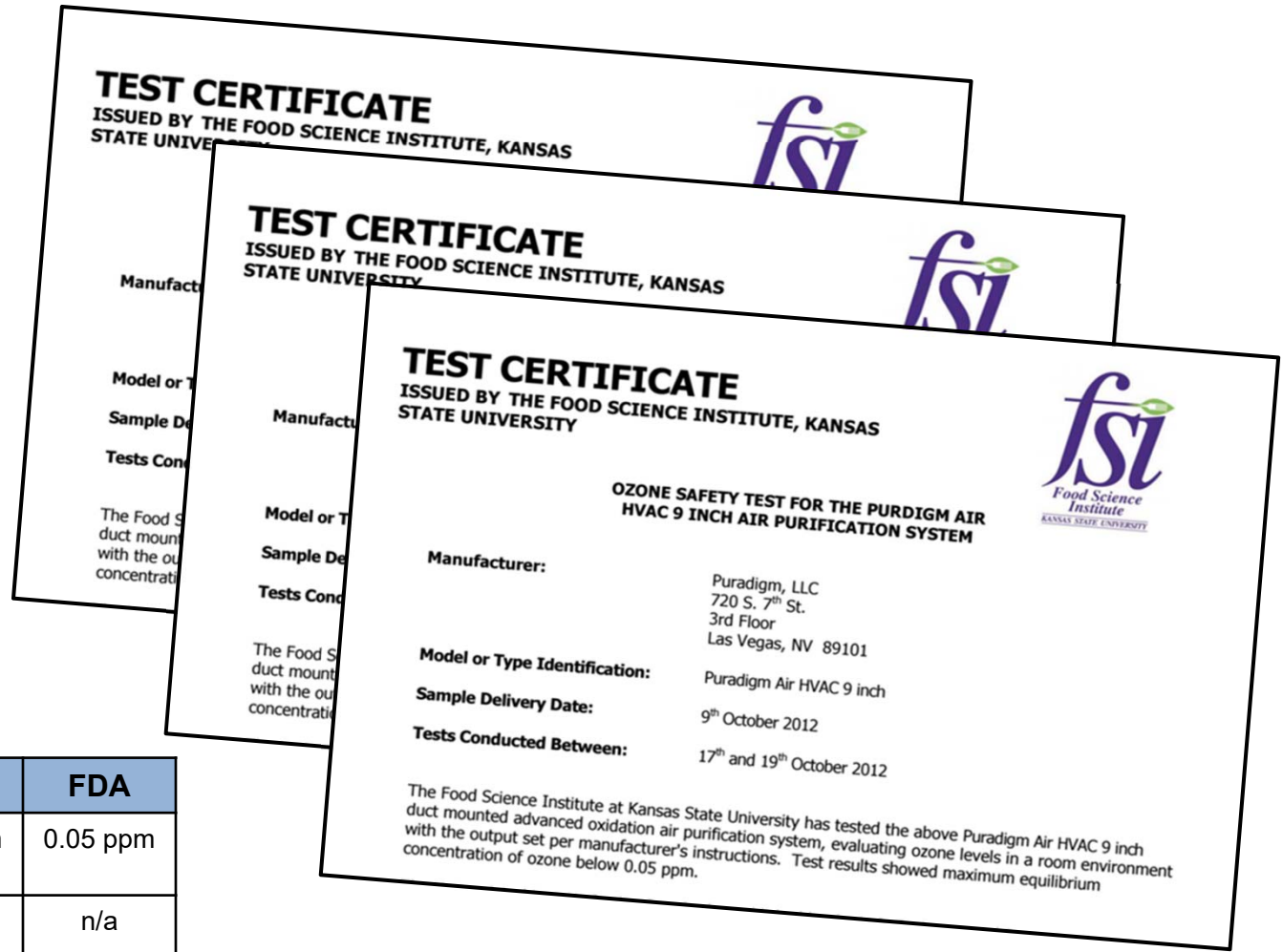
AIR & MOISTURE



ADVANCED OXIDATION
+
HIGH ENERGY CLUSTERS

Puradigm: **Is it safe?**

** Maximum concentration of Ozone and Hydrogen Peroxide are well below OSHA, EPA and FDA limits.



Standards	OSHA	EPA	FDA
Ozone (O3)	0.1 ppm	0.08 ppm	0.05 ppm
Hydrogen Peroxide (H2O2)	1.0 ppm	n/a	n/a

Puradigm: **Does it work for my environment?**

Puradigm Day Care Test Results

VOCs	Before (CFU/Swab)	After (CFU/Swab)
Day Care # 1	6,500*	<1**
Day Care # 2	6,500*	<1**
Day Care # 3	6,500*	<1**
Reduction for Total Study	99.9%	

* Too numerous to count

** Too few to count

Microbiological Lab Tests October 2014



Puradigm: **Does it work for my environment?**

Puradigm Test Results

Summary

Staph (Staphylococcus Aureus): over 99% reduction

MRSA (Methycillin Resistant Staphylococcus Aureus): over 99% reduction

E. coli (Escherichia coli): over 99% reduction

Bacillus spp.: over 99% reduction

Streptococcus spp.: over 99% reduction

Pseudomonas aureuginos: over 99% reduction

Listeria monocytogenes: over 99% reduction

Candida albicans: over 99% reduction

Black mold (Stachybotrys chartarum): over 99% reduction

Avian influenza H5N8: over 99% reduction



Puradigm Sales Process: **What makes Puradigm different?**

Key Points of Differentiation: Active, Scalable and Safe

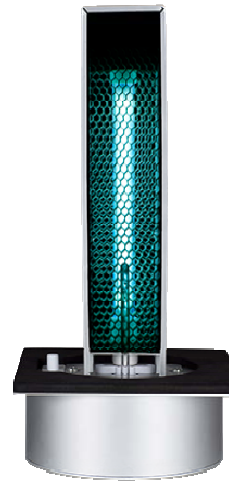
- Puradigm is Active vs. current Passive technologies (filtration and standard PCO)
 - Puradigm actively attacks pathogens in the air and on surfaces, taking the solution to the problem
- Puradigm is Safe and Scalable vs. Oxidation, Germicidal UV, Ionization
 - Scalable to any size indoor environment - Safe for humans 24/7
- Patented enhancement of current PCO technology to multiply the reactions within the cell creates higher energy levels - results in Puradigm High Energy Clusters. Puradigm HECs (+hydrogen ions, -oxygen ions, O₃ and H₂O₂) continue to react throughout the environment, attacking pathogens and VOCs
- Produce both +ions and –ions (standard PCO only creates –ions)
- Produce safe levels of O₃ and H₂O₂ - advanced oxidation (scalable and safe)
- Trade secret mixture of 6 metals in our catalyst coating increases energy and reactions
- It's the unique combination of all the components that differentiate Puradigm
- Puradigm offers HVAC and in-room units to customize the solution for each unique environment
- Puradigm is university tested and validated
- Puradigm is the 24/7 solution to controlling pathogens.

Products

In-room



Induct



PURADIGM[®] FLOW

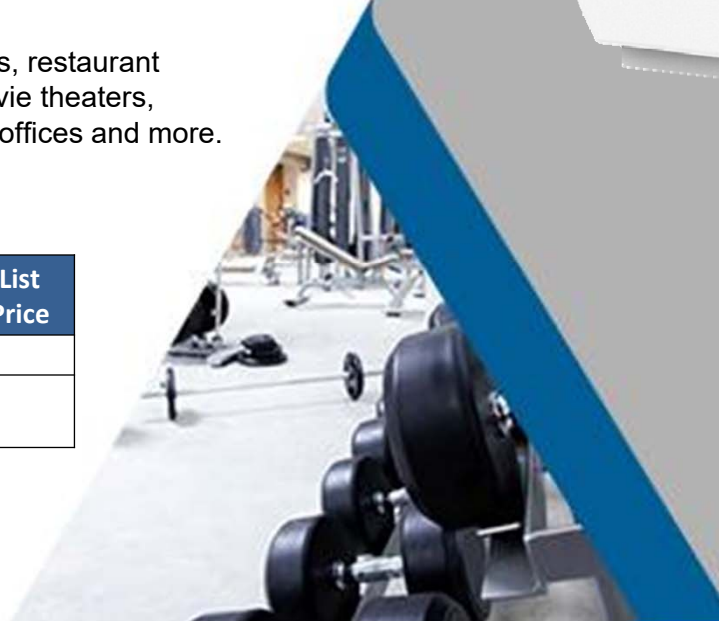
The PURADIGM[®] FLOW[™] has been designed and engineered to deliver PURADIGM Technology that is proven to reduce & eradicate surface and airborne pathogens for almost any application.

The PURADIGM[®] FLOW[™] is easy to install and maintain as it operates 24/7 in both residential and commercial facilities. This product has been tested and validated by reputable labs across the world to ensure safety and effectiveness in reducing bacteria, viruses, VOCs and other dangerous pathogens.

Applications include: storage facilities, restaurant kitchens, day care/nursery schools, movie theaters, spas, assisted living, veterinary clinics, offices and more.



Maximum Coverage (sf)	Typical Coverage (sf)	Minimum Coverage (sf)	List Price
3,000	1,000	150	
* coverage based on 10' ceiling			
* consult product comparison sheet			



PURADIGM[®]

HVAC

The PURADIGM[®] HVAC[™] has been designed and engineered to deliver PURADIGM Technology that is proven to reduce & eradicate surface and airborne pathogens for almost any application.

The PURADIGM[®] HVAC[™] is typically installed in HVAC Systems. This product has been tested and validated by reputable labs across the world to ensure safety and effectiveness in reducing bacteria, virus, VOCs and other dangerous pathogens.

Applications include: HVAC Systems in any facility

HVAC Unit Size	Maximum Coverage (sf)	Typical Coverage (sf)	Minimum Coverage (sf)	List Price
5 inch	2,000	1,000	300	
9 inch	4,000	1,500	500	
14 inch	6,000	2,500	750	

* coverage based on 10' ceiling
* consult product comparison sheet



PURADIGM[®] ZONE

The PURADIGM[®] ZONE[™] has been designed and engineered to deliver PURADIGM Technology that is proven to reduce & eradicate surface and airborne pathogens.

The PURADIGM[®] ZONE[™] is easy to install, maintain and operates 24/7 in both residential and commercial facilities. This product has been tested and validated by reputable labs across the world to ensure safety and effectiveness in reducing bacteria, viruses, VOCs and other dangerous pathogens.

Applications include: Homes, offices, daycare facilities, healthcare facilities, and more.

Maximum Coverage (sf)	Typical Coverage (sf)	Minimum Coverage (sf)	List Price
3,000	1,000	200	
* coverage based on 10' ceiling			
* consult product comparison sheet			

