



PYURE

DYNAMIC PROTECTION™

Bring the Cleansing Power of the Sun Indoors

Proven Reduction of the COVID-19 Virus by **99%**

Introducing PYURE for Commercial Air Purification

Delivering pathogen protection and improved indoor air quality

Studies

Study Confirms PYURE Technology™ Kills the COVID-19 Virus

PYURE Technology is scientifically proven to rapidly and progressively kill SARS-CoV-2 (the virus that causes COVID-19) in air and on surfaces.

Study Highlights

Airborne SARS-CoV-2 Destruction

99% reduction after **20** minutes

Undetectable in air after **80** minutes

Surface SARS-CoV-2 Destruction

99% reduction after **1** hour

Undetectable on surfaces after **3** hours

The study was designed and conducted by Innovative Bioanalysis LLC, a biosafety level 3 laboratory. The study demonstrated the efficacy of the PYURE device in destroying SARS-CoV-2, both in aerosolized form and on surfaces. Innovative Bioanalysis is a certified laboratory located in Costa Mesa, California.



Company

Air Purification Technology That's Safe and Natural

Destroy viral, bacterial and mold pathogens and eliminate volatile organic compounds (VOC) and odors from indoor air.



Purifies and sanitizes air

- Kills airborne viruses, bacteria and mold
- Neutralizes and decomposes VOC and other chemicals



Sanitizes surfaces and porous materials

- Kills viruses, bacteria, yeast and mold
- Does not negatively impact materials



Eliminates odors

- Cigarette smoke
- Chemical odors
- Mildew



Helping Customers Improve Health, Wellness and Peace of Mind

We work with customers in many industries who have **critical sanitization** and air quality considerations.

Our **customers choose** PYURE because our products help them deliver the greatest economic, social and environmental returns.

Serving

- Healthcare
- Senior living
- Commercial
- Education
- Hospitality
- Food & agriculture
- Industrial applications

Delivering Air Purification Solutions for Over 15 Years

The PYURE Company is a privately-owned enterprise with corporate headquarters and manufacturing facilities located in Boynton Beach, Florida. We were **established** over **15 years** ago as HGI Industries Inc, and changed our name to The PYURE Company in 2020.

Values

- Innovation
- Quality
- Continuous improvement
- Customer satisfaction

Our portable and wall/in-duct products are marketed under the Odorox® brand. Our custom solutions are marketed under the PYURE Dynamic Protection™ trademark. All of our products and custom solutions carry our Powered by PYURE Technology™ logo, to denote our unique technology inside.



Products

Solutions Designed to Fit Your Needs

Portable Units

“Plug and play” systems that are ideal for smaller spaces or temporary use. No installation required.



In-Duct Units

Inserted into air ducts, these devices are both silent and hidden. They leverage existing ductwork and require installation.



Wall-Mounted Units

Permanent solutions that are out of the way. They can require some installation.





Custom Solutions

Our centralized, HVAC integrated systems can treat large spaces and entire buildings and are designed for our customers' needs.

How To Work With PYURE

✓ Order Products

Purchase through our network of distributors and channel partners in your market.

✓ Build a Custom Solution

We provide comprehensive design, installation and maintenance services to meet your needs.



To locate your rep, contact:

sales@pyure.com | 1-877-735-3701



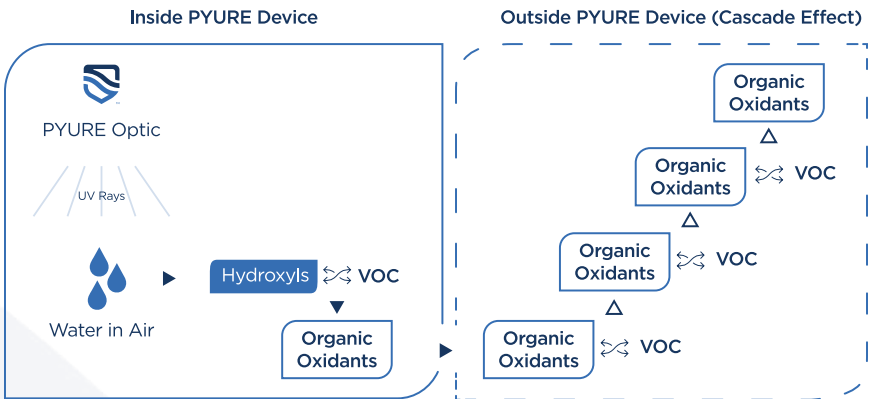
Technology

Powered by PYURE Technology™

PYURE uses **ultraviolet** (UV) energy to **mimic** the way **sunlight** sanitizes our outdoor environment by **safely** generating and dispersing hydroxyls and organic oxidants **indoors**. The hydroxyls react with volatile organic compounds (VOC) to generate powerful organic oxidants.

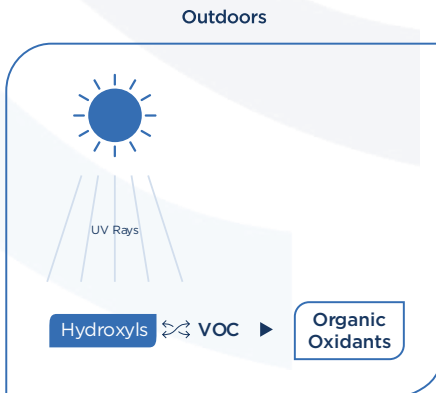
Indoors with PYURE Dynamic Protection™

PYURE produces the same concentrations of hydroxyls & organic oxidants as the sun generates outdoors



Nature's Process Outdoors

Sunlight produces hydroxyls & organic oxidants



1 million times more reactive than ozone

20-40 milliseconds hydroxyl reaction time

$3.25 \times 10^6 / \text{cm}^3$ hydroxyl production same as in nature: $3-10 \times 10^6 / \text{cm}^3$

(David R. Crosley, Connie J. Araps, Melanie Doyle-Eisele & Jacob D. McDonald (2017) Gas-phase photolytic production of hydroxyl radicals in an ultraviolet purifier for air and surfaces, Journal of the Air & Waste Management Association, 67:2, 231-240, DOI: 10.1080/10962247.2016.1229236).

What are Hydroxyls and How Do They Work?

Airborne hydroxyls are ideal sanitizing agents. By decomposing natural and man-made pollutants and killing pathogens, they keep air safe to breathe.

Hydroxyls are natural and the most important cleansing agent in our outdoor environment.

Hydroxyls do not exist naturally indoors - they are consumed within milliseconds when produced by sunlight. PYURE Technology is designed to bring the cleansing power of the sun indoors, producing the same concentrations of hydroxyls and natural oxidants as found in nature.



Safety & Efficacy

Safe and Natural Protection

PYURE Technology produces the same concentrations of hydroxyls and organic oxidants that are naturally present in our outdoor environment.

Safe concentrations:

PYURE devices are engineered to produce safe levels of total oxidants when operating guidelines are followed.

<50 PPB (Parts Per Billion)

**Total oxidants,
including ozone**



Scientific literature:

There is no evidence in the scientific literature that suggests any safety issues with atmospheric hydroxyls and organic oxidants at these concentrations.

**No adverse evidence
in databases**

- NIH
- CDC
- FDA
- OSHA



Independent toxicity study:

As further evidence of safety, PYURE had an independent lab undertake a 13-week GLP toxicology study that showed there were no adverse effects.

Toxicity Study

- **13 week** study
- **24/7** continuous exposure
- **3X higher** treatment levels
- **No effect** on exposed rats



Airborne Pathogen Destruction

PYURE Technology kill rates on airborne viruses, bacteria and mold.

>99% kill rate in under **30** minutes

SARS-CoV-2 virus (COVID-19 virus) aerosolized		MS2 virus aerosolized (simulant for coronavirus)		PhiX174 virus aerosolized (simulant for smallpox)	
Reduction	Time	Reduction	Time	Reduction	Time
99%	20 min	99.9%	30 min	99.9%	30 min
Not Detected	80 min	99.999%	90 min	99.99%	60 min

Staphylococcus E. aerosolized (gram + bacteria*)		E. herbicola aerosolized (gram - bacteria*)		Aspergillus Niger (black mold) aerosolized	
Reduction	Time	Reduction	Time	Reduction	Time
99%	30 min	99%	30 min	99.9%	30 min
Not Detected	90 min	99.99%	120 min	Not Detected	90 min

Surface Pathogen Destruction

PYURE Technology kill rates on surface viruses and bacteria.

SARS-CoV-2 virus (COVID-19 virus) on glass		Influenza virus (H1N1) on glass		Norovirus (Murine) on glass	
Reduction	Time	Reduction	Time	Reduction	Time
99%	1 hour	96%	1 hour	94%	1 hour
Not Detected	3 hours	99.999%	6 hours	99.998%	6 hours

Poliovirus 1 (Sabin) on glass		Adenovirus 5 on glass		E. Coli/Bacteria stainless steel (s.s)/cotton	
Reduction	Time	Reduction	Time	Reduction	Time
90%	1 hour	90%	1 hour	99.99%	3 hours (s.s)
99.99%	6 hours	99.99%	6 hours	99.9%	3 hours (cotton)

Differentiation

Powerful and Natural Sanitization Solution

PYURE Technology effectively treats **air** and **surfaces** in **occupied spaces**. By recreating the natural cleansing action of the sun indoors, PYURE delivers safe and effective performance that is unmatched.



	PYURE	Filters (HEPA)	Photocatalytic Oxidation	Ionization	Germicidal UV In-Duct	Hydrogen Peroxide
Safe for Occupied Spaces	Yes	Yes	Yes	Yes	Yes	Yes***
Reduce Pathogens in Air - Inside the Device	Yes	Yes	Yes	Yes	Yes	No
Reduce Pathogens in Air - Outside the Device	Yes	No	Limited*	Limited**	No	Limited***
Kills Pathogens on Surfaces	Yes	No	Limited*	Limited**	No	Limited***
Safe for Materials	Yes	Yes	Yes	Yes	Yes	No
VOC & Odor Removal in Air Inside the Device	Yes	No	Yes	Yes	No	No
VOC & Odor Removal in Air Outside the Device	Yes	No	Limited*	Limited**	No	No
Remove Particulates	No	Yes	No	Yes	No	No

* Hydroxyl production is restricted to the catalyst surface, very limited production of organic oxidants

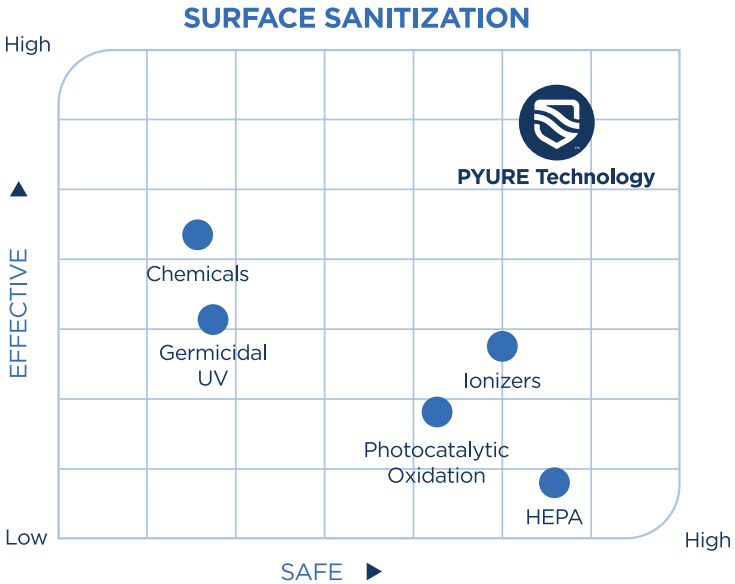
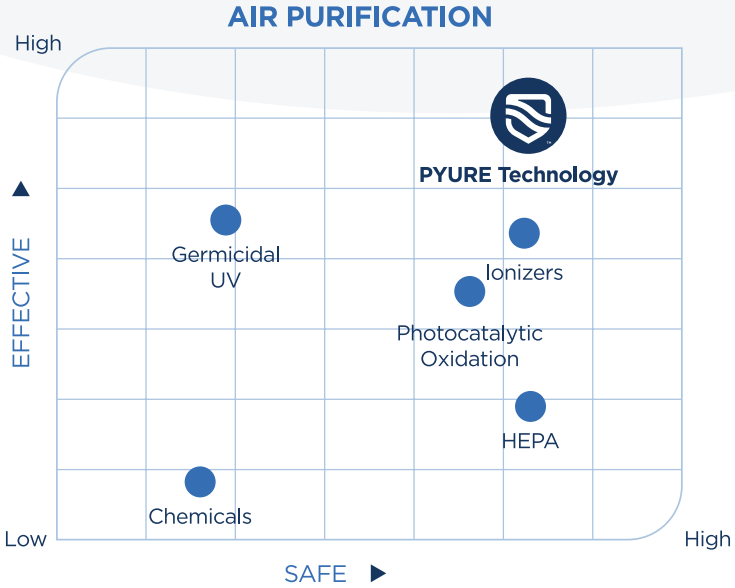
** Reactivity of ions and O2 are short lived, effect drops off quickly as distance from ion source increases

*** At concentrations that are safe for human exposure (less than 1 PPM), pathogen reduction is limited



Unique Positioning

Only PYURE Technology offers high efficacy and safety for both indoor air purification and surface sanitation.





How to Work With PYURE

To learn more about our
products and solutions

 sales@pyure.com

 +1 (877) 735-3701

 [PYURE.COM](https://pyure.com)