



# Bring The Cleansing Power Of The Sun Indoors

Pyure Dynamic Protection®  
Portable Solutions for  
Commercial Air Purification



Delivering pathogen protection and  
improved indoor air quality

# Company

## Air Purification Technology That's Safe and Natural

Destroy viral, bacterial and mold pathogens and eliminate volatile organic compounds (VOCs) 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
- + Is not harmful to 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 social, environmental and economic returns.

### **Serving**

- + Healthcare
- + Senior living
- + Commercial
- + Education
- + Hospitality
- + Food and 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

# Pyure Products

Solutions Designed to Fit Your Needs



## Portable Units

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



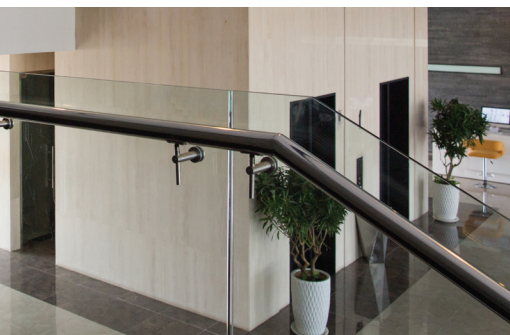
## In-Duct Units

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.



## Installed Solutions

Our centralized, HVAC-integrated systems can treat large spaces and entire buildings. They offer sensor-driven, interactive controls.

## How to Work with Pyure

### ✓ Order Products

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

### ✓ Build an Installed Solution

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

### To locate your rep, contact:

[sales@pyure.com](mailto:sales@pyure.com) | 1-877-735-3701

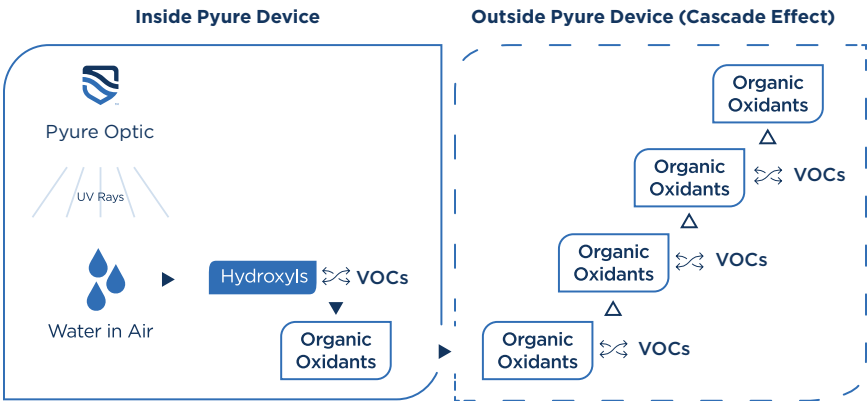
# Proven Technology

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 (VOCs) to generate powerful organic oxidants.

## Indoors with Pyure Dynamic Protection®

Pyure produces the same concentrations of hydroxyls and organic oxidants as the sun generates outdoors.



1  
million times  
more reactive than ozone

20 – 40  
milliseconds  
hydroxyl reaction time

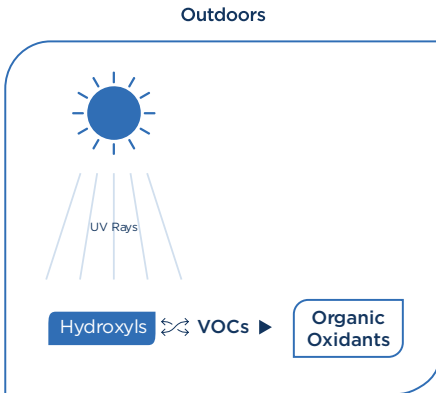
2 – 4 million molecules/cm<sup>3</sup>  
hydroxyl production similar to nature: 3 – 10 million molecules/cm<sup>3</sup>

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.

## Nature's Process Outdoors

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Sunlight produces hydroxyls and organic oxidants



## What Are Hydroxyls and How Do They Work?

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

**Hydroxyls are natural and the most important sanitizing 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 and Efficacy

## Safe and Natural Protection

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

<b>Safe Concentrations:</b> 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
<b>Scientific Literature:</b> There is no evidence in the scientific literature of any safety issues with atmospheric hydroxyls and organic oxidants at these naturally occurring concentrations.	No adverse evidence in existing databases + NIH + CDC + FDA + OSHA
<b>Independent Toxicity Study:</b> As further evidence of safety, Pyure had an independent lab undertake a 13-week GLP toxicology study that showed there were no adverse effects.	+ OSHA + 13-week study + 24/7 continuous exposure + 3X higher exposure level + No effect on exposed rats



# Airborne Pathogen Destruction

>99% Reduction in 30 Minutes

Pyure Technology\* kill rates on airborne viruses, bacteria and mold.

## SARS-CoV-2

aerosolized  
(COVID-19 virus)

Reduction	Time
99%	<b>20</b> min
Not Detected	<b>80</b> min

## MS2 virus

aerosolized  
(simulant for coronavirus)

Reduction	Time
99.9%	<b>30</b> min
99.999%	<b>90</b> min

## PhiX174 virus

aerosolized  
(simulant for smallpox)

Reduction	Time
99.9%	<b>30</b> min
99.99%	<b>60</b> min

## Staphylococcus E.

aerosolized  
(gram + bacteria\*)

Reduction	Time
99%	<b>30</b> min
Not Detected	<b>90</b> min

## E. herbicola

aerosolized  
(gram - bacteria\*)

Reduction	Time
99%	<b>30</b> min
99.99%	<b>120</b> min

## Aspergillus Niger

aerosolized  
(black mold)

Reduction	Time
99.9%	<b>30</b> min
Not Detected	<b>90</b> min

# Surface Pathogen Destruction

Pyure Technology\* kill rates on surface viruses and bacteria.

## SARS-CoV-2 virus (COVID-19 virus)

on glass

Reduction	Time
99%	<b>1</b> hour
Not Detected	<b>3</b> hours

## Influenza (H1N1) virus

on glass

Reduction	Time
96%	<b>1</b> hour
99.999%	<b>6</b> hours

## Norovirus (Murine)

on glass

Reduction	Time
94%	<b>1</b> hour
99.998%	<b>6</b> hours

## Poliovirus 1 (Sabin)

on glass

Reduction	Time
90%	<b>1</b> hour
99.99%	<b>6</b> hours

## Adenovirus 5

on glass

Reduction	Time
90%	<b>1</b> hour
99.99%	<b>6</b> hours

## E. Coli/Bacteria

stainless steel (s.s./cotton)

Reduction	Time
99.99%	<b>3</b> hours (s.s.)
99.9%	<b>3</b> hours (cotton)

# Uniquely Differentiated and Scalable

## Powerful and Natural Sanitization Solutions

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
Sensor-Driven Interactive Controls with Data Logging	Yes	No	No	No	No	No
Scalable	Yes	Yes	No	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 O<sub>2</sub> are short lived, effect drops off quickly as distance from ion source increases.

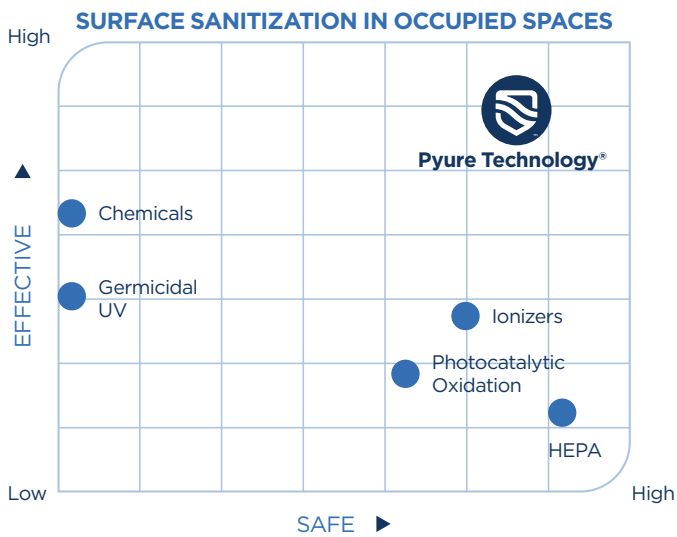
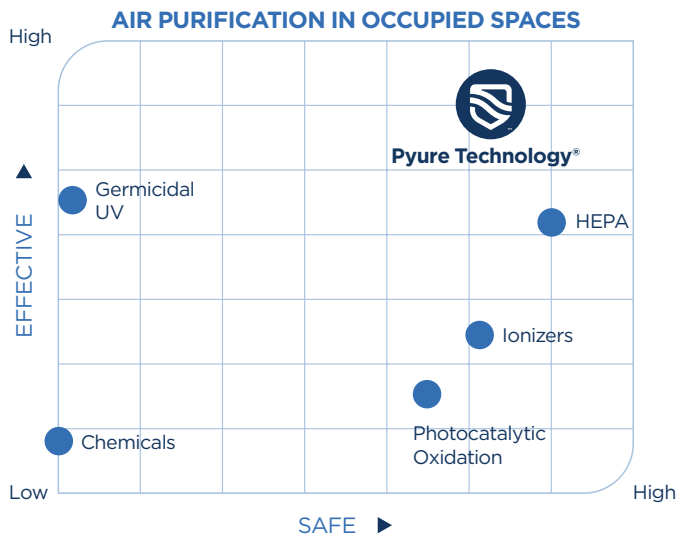
\*\*\* At concentrations that are safe for human exposure (less than 1 PPM), pathogen reduction is limited.



Over 15 years on  
the market

# Unique Positioning

Only Pyure Technology® offers high efficacy and safety for both indoor air purification and surface sanitization.





## Contact Us

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