



POWERED BY
PYURE TECHNOLOGY™

Distributed By
Bio-Shine dba. OdoroxAir

Full Line Brochure Hydroxyl Generators

Bring the Cleansing Power of the Sun Indoors

Odorox® Commercial Air Purifiers
Powered by PYURE Technology™

Delivering pathogen protection and improved
indoor air quality

Company

Air Purification Technology That's Safe and Natural

Odorox® commercial air purifiers provide **dynamic pathogen protection** and **air quality improvement** using ultraviolet (UV) energy that mimics the way sunlight sanitizes our outdoor environment.



Portable Units



Wall-Mounted Units



In-Duct Units



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

What are Hydroxyls and How Do They Work?

Hydroxyls are natural and the most important sanitizing agent in our outdoor environment. By decomposing natural and man-made pollutants and killing pathogens, they keep air safe to breathe.

Hydroxyls do not exist naturally indoors - they are **consumed within milliseconds** when produced by sunlight. That is why PYURE Technology is designed to bring the cleansing power of the sun indoors.



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 & 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

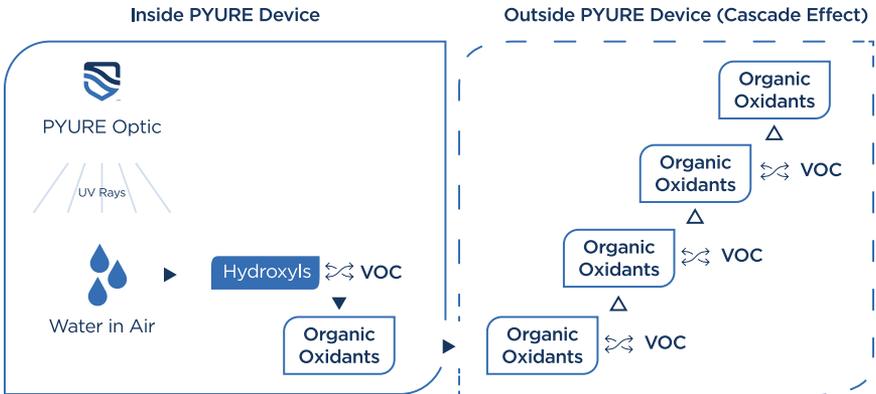


Technology

Powered by PYURE Technology™

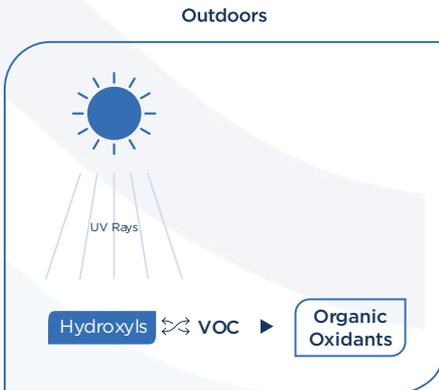
Indoors with PYURE Dynamic Protection™

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



Nature's Process Outdoors

Sunlight produces hydroxyls & organic oxidants



20-40
milliseconds

hydroxyl reaction time

2-4 million
molecules/cm³

hydroxyl production
similar to nature: 3 to 10 million
molecules/cm³

(David R. Grosley, 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).

Portable Units

Our portable units are the easiest to install and use wherever you need indoor air purification.

Odorox® MySpace™ Unit

- Coverage rate up to 500 Sq Ft
- Integrated fan
- Noise level: less than 38 dBA
- Weight: 8.4 lbs.



Odorox® Slimline™ Unit

- Coverage rate up to 900 Sq Ft
- Integrated fan
- Noise level: less than 55 dBA
- Weight: 17.6 lbs.



Odorox® MDU/Rx™ Medical Device

- Coverage rate up to 500 Sq Ft
- FDA registered Class II medical device
- 510(k) number: K133800
- Indicated for reduction of virus & bacteria in air
- Noise Level: less than 40 dBA
- Weight: 39 lbs.



Odorox® Boss™ Unit

- Coverage rate up to 2500 Sq Ft
- Integrated fan
- Noise level: less than 55 dBA
- Weight: 39 lbs.



Odorox® Boss XL3™ Unit

- Coverage rate up to 3250 Sq Ft
- The external fan provides greater air movement to treat larger spaces or those that are heavily contaminated.
- No internal fan: couples to high speed external fans
- Weight: 25 lbs.



Features

Simply plug the device into an electrical socket and turn on

No calibration, no programming, no installation

No costly maintenance – change the UV optic every 9,000 hours

How to Choose a Portable Air Purification Unit

1. Prioritize your needs.

FDA Registered

If FDA registration is sought, the Odorox® MDU/Rx™ Class II medical device is recommended.

General Purpose

If a general purpose unit is required, the Odorox® Slimline™ or Boss™ units are recommended.

Heavy Duty

If a heavy-duty industrial use is required, the Odorox® Boss XL3™ unit is recommended.

2. Consider the size of the space to treat.

Odorox® Model	Area in square feet*	Area in square meters*
MYSpace™ Unit	100– 500	10 – 50
Slimline™ Unit	215 – 900	20 – 84
MDU/Rx™ Medical Device	130 – 500	12 – 46
Boss™ Unit	1,500 – 2,500	139 – 232
Boss XL3™ Unit	1,700 – 3,250	158 – 302

* Treatment area range under typical operating conditions: 3 air changes per hour, 90% recirculated air, and 9 foot (2.7 m) ceilings. Refer to the product specification sheet or contact PYURE for more details on operating guidelines



Wall-Mounted Units

The Odorox® HRC06™ air curtain is a unit designed to generate a powerful continuous blanket of **purifying air** in a set direction, such as downward from above a door or outward when fastened on a wall. The HRC06™ unit is equipped with a panel that allows the unit to be controlled by remote sensors or timers.

Odorox® HRC06™ Air Curtain

- Covers 3,400 to 6,500 Sq Ft
- Noise level: 60 dBA 10 feet from unit
- Weight: 141 lbs.
- Comes with a separate control panel
- Installation requires an electrician



* Treatment area range under typical operating conditions: 3 air changes per hour, 90% recirculated air, and 9 foot (2.7 m) ceilings. Refer to the product specification sheet or contact PYURE for more details on operating guidelines

Another option is to purchase PYURE Brackets and mount a portable Odorox® unit on a wall.

Features

Offers a permanent installation that is out of the way

Provides powerful hydroxyl generation that can treat up to 6,500 ft² (604 m²)

Requires support brackets or in the case of the HRC06™, wiring to a power source

In-Duct Units

This device is inserted inside an air duct to generate hydroxyls and deliver organic oxidants to the **air stream** passing through the duct, effectively treating areas that are downstream. This unit is not portable. It is permanently installed inside an air duct.

Odorox® IDU™ In-Duct Unit

- Coverage rate up to 2500 Sq Ft
- Noise Level: silent (no fan)
- Weight: 13 lbs.
- Comes in three models with different hydroxyl strengths
- Installation requires an electrician



Features

Leverages the air circulation of an air handling system

Sanitize coils, filters and multiple rooms

Does not contain a fan and does not generate noise

Hidden from view – inserted within an air duct

How to Install an In-Duct Purification Unit

This unit is permanently inserted inside a heating or cooling duct and requires an electrician (wired to furnace / AC or electrical panel).

How to Buy

Our in-duct units can be purchased through authorized distributors.

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 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**



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** exposure levels
- **No effect** on exposed rats



Airborne Pathogen Destruction

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

>99% reduction in **30** minutes

SARS-CoV-2 aerosolized (COVID-19 virus)		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 aerosolized (black mold)	
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 (H1N1) virus 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)

Uniquely Differentiated & 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

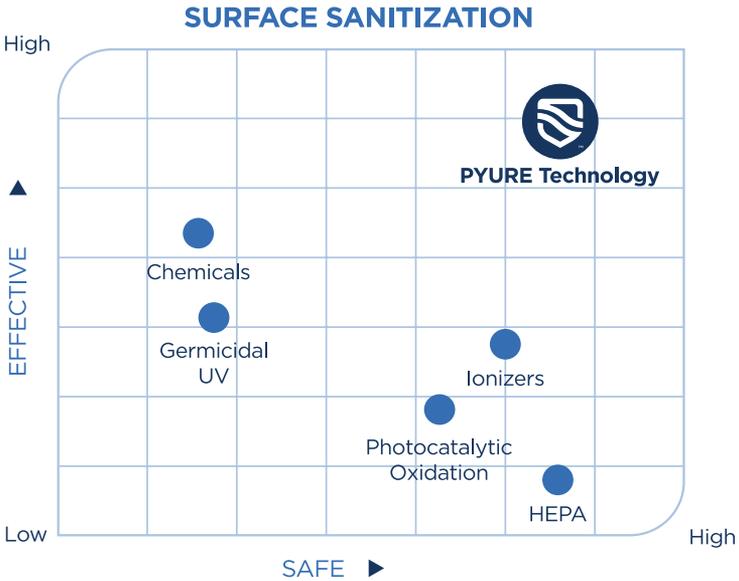
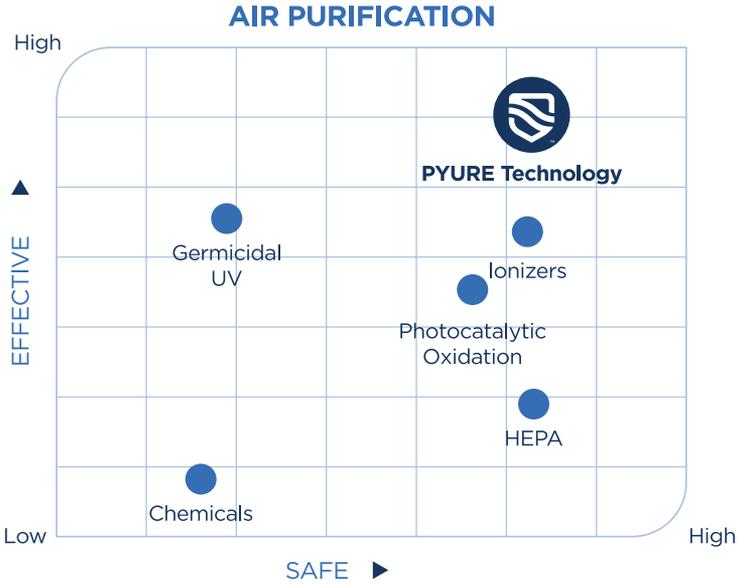
* Hydroxyl production is restricted to the catalyst surface, very limited production of organic oxidants

** Reactivity of ions and 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.





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