



Air Purification Brochure

Stationary and Portable Units



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.

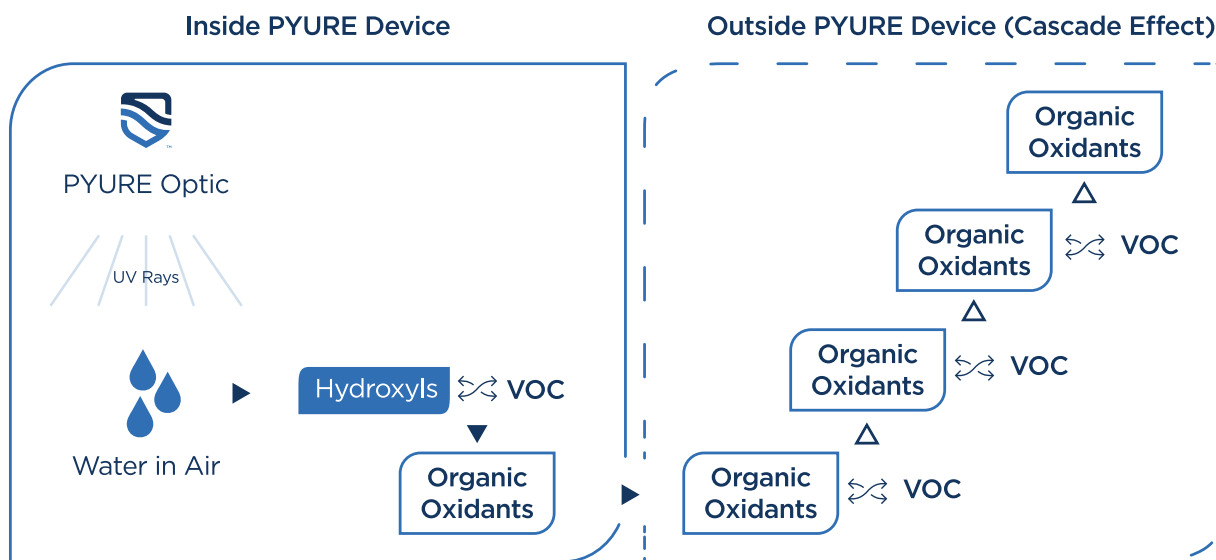


Technology

Powered by PYURE Technology™

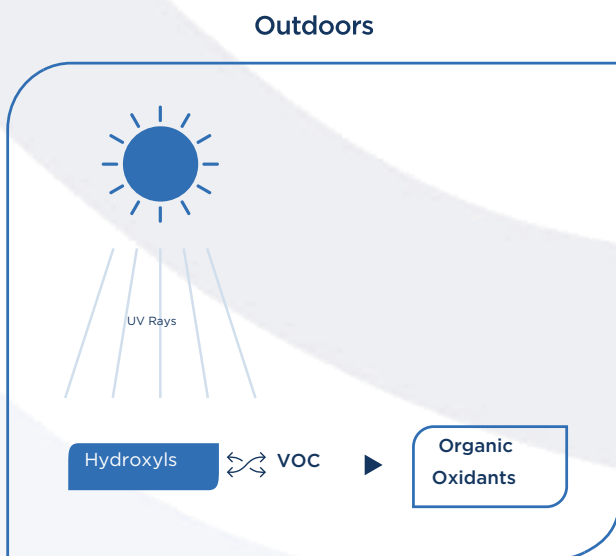
Indoors with PYURE Dynamic Protection™

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. 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).

Safety & Efficacy

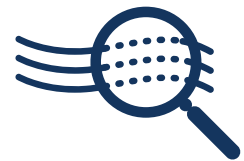
Safe and Natural Protection

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)



GREEN TECHNOLOGY AT WORK™



ITEM #BS129430



MySpace™

THE MYSpace™ UNIT IS DESIGNED FOR CRITICAL GERM / VIRUS ELIMINATION. IT PROCESSES A HEAVY CONCENTRATION OF HYDROXYL PARTICLES USING AMBIENT MOISTURE FROM THE AIR.

ADDITIONAL USES INCLUDE:

- *Fire and Water Damage*
- *Toxic Odors*
- *Volatile Organic Compounds (VOC)*
- *Mold*

SPECIFICATIONS:

Dimensions	13" x 4.5" x 11.5" (LxWxH) [330mm (L) x 110mm (W) x 290mm (H)]
Weight	8 lbs (3.8kg)
Air Inlet/Outlet	14" (355.6mm) Round
Power	110 – 240 V AC, 50- 60 HZ, 12- 24 V DC 45 Watt FAN
Controls	Variable Fan Speed Control Variable hydroxyl output Selector Switch PLC Touchscreen
Noise Level	32 – 38 dBA @ 3'
Coverage	100 to 500 Ft ² (50 m ²)
Certifications	ETL (US/CA), CE, FCC, CTIC, CQC, CSA

The MySpace™ unit protects against pathogens and improve indoor air quality with safe and effective technology that mimics the way sunlight sanitizes our outdoor environment. The MySpace™ uses the same PYURE technology as the Odorox™ line of commercial air purifiers.

Each unit can treat UP TO **500** SQ.FT. Ideal for classrooms, waiting rooms, retail spaces, conference and meeting rooms, and office spaces.



ITEM #BS118664

GREEN TECHNOLOGY AT WORK™



SLIMLINE™

THE ODOROX® SLIMLINE™ UNIT IS DESIGNED FOR CRITICAL GERM / VIRUS ELIMINATION. IT PROCESSES A HEAVY CONCENTRATION OF HYDROXYL PARTICLES USING AMBIENT MOISTURE FROM THE AIR.

ADDITIONAL USES INCLUDE:

- *Fire and Water Damage*
- *Toxic Odors*
- *Volatile Organic Compounds (VOC)*
- *Mold*

The **SLIMLINE™** unit is equipped with a variable speed fan control and a washable filter. The built-in fan only draws 1.4 amps and is adjustable up to 500 cfm. It is perfect for small buses, medical offices, classrooms, commercial offices, etc.

Each unit can treat UP TO 900 SQ.FT.

SPECIFICATIONS:

- **Dimensions:** 18" x 5.2" x 25"
(457mm x 133mm x 635mm)
- **Weight:** 17.6lbs, 7.9kg
- **Voltage:** 120V @ 60Hz / 220V @ 50/60Hz
- **Power:** 170 Watts (Max)
- **Control:** Speed Control
- **Mobility:** Handle / Stand Brackets
- **Finish:** Black or Beige powder coat
- **Noise Level:** <55dBa
- **Number of Optics:** 1
- **Air Inlet / Outlet:** Louvered panel
- **Fans & Rating:** One 500 CFM
- **Fan Speed:** 200ft³/m
(based on 230VAC, 50Hz fan set on high speed)
- **Filters:** One, 5" x 12.5" x 0.25"
(127mm x 317.5mm x 6.4mm), Washable
- **Certification:** Meets Canada / US – CSA & UL Standards, Meets CE, REACH, & RoHS, Residual O₃ / Non-accumulative



GREEN TECHNOLOGY AT WORK™



ITEM #BS118662

BOSS™

THE ODOROX® BOSS™ UNIT IS DESIGNED FOR CRITICAL GERM / VIRUS ELIMINATION. IT PROCESSES A HEAVY CONCENTRATION OF HYDROXYL PARTICLES USING AMBIENT MOISTURE FROM THE AIR.

ADDITIONAL USES INCLUDE:

- *Fire and Water Damage*
- *Toxic Odors*
- *Volatile Organic Compounds (VOC)*
- *Mold*

The BOSS™ unit is equipped with a selector switch for 1 or 2 hydroxyl generating optics and a washable filter. The built-in fan only draws 1.9 amps and is adjustable from 250 to 500 cfm. Using the fan's low setting treats small areas such as nurse's offices, buses, small classrooms, offices, etc. The high setting to treats larger areas such as locker rooms, large classrooms, conference rooms, etc.

Each unit can treat UP TO 2500 SQ.FT.

SPECIFICATIONS:

- **Dimensions:** 18.25" x 12.1" x 25.25"
(464mm x 308mm x 641mm)
- **Weight:** 39lbs, 17.7kg
- **Voltage:** 120v @ 60Hz / 220V @ 50/60 Hz
- **Power:** 230 Watts (max)
- **Control:** Speed Control / Selector Switch
- **Meter:** 1/10 quartz hour meter
- **Mobility:** Handle / Rubber feet / Optional wheeled cart
- **Finish:** Bronze powder coat
- **Noise Level:** <55 dBA
- **Number of Optics:** 2
- **Air Inlet / Outlet:** Louvered Panel
- **Fans & Rating:** One 629 CFM
- **Fan Speed :** 230 ft³/m
(based on 230VAC, 50Hz fan set on high speed)
- **Filter:** One 9" x 18" x 1"
(228.6mm x 457.22mm x 25.4mm), Washable
- **Certification:** Meets Canada / US – CSA Meets CE, REACH, & RoHS, Residual O₃ / Non-accumulative

BOSS XL3™ Hydroxyl Processor



GREEN TECHNOLOGY AT WORK™



ITEM #BS118663



*air mover not included

POWERED BY
PYURE TECHNOLOGY™

BOSS XL3™

THE ODOROX® BOSS XL3™ UNIT IS DESIGNED FOR CRITICAL GERM / VIRUS ELIMINATION. IT PROCESSES A HEAVY CONCENTRATION OF HYDROXYL PARTICLES USING AMBIENT MOISTURE FROM THE AIR.

ADDITIONAL USES INCLUDE:

- *Fire and Water Damage*
- *Toxic Odors*
- *Volatile Organic Compounds (VOC)*
- *Mold*

The **BOSS XL3™** unit is equipped with a selector switch for 2 or 3 hydroxyl generating optics and a washable filter. The built-in fan only draws 1.6 amps and is adjustable from 250 to 500 cfm. Using the fan's low setting treats locker rooms, large classrooms, conference rooms, etc. The high setting treats hallways, athletic facilities, and other similar large areas.

Each unit can treat UP TO 3250 SQ.FT.

SPECIFICATIONS:

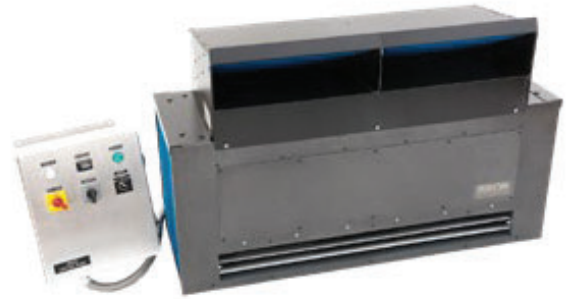
- **Dimensions:** 11.12" x 20.25" x 20.25 (514mm x 283mm x 514mm)
- **Weight:** 25lbs, 11.4kg
- **Voltage:** 120V @ 60Hz / 220V @ 50/60Hz
- **Power:** 180 Watts (max) Without Blower
- **Control:** Selector Switch & Pressure / Switch which activates from positive air flow
- **Meter:** 1/10 quartz hour meter
- **Mobility:** Handle / Rubber feet
- **Finish:** Bronze powder coat
- **Number of Optics:** 3
- **Air Inlet / Outlet:** Louvered panel / 7" (117.8mm) Spout
- **Filter:** One 9.75" x 10.68" x 0.50" (247.7mm x 271.3mm x 12.7mm)
- **Certification:** Meets ETL Canada / US – CSA & UL Standards, Meets CE, REACH, RoHS, Residual O₃/Non-accumulative

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 ft² (316 to 604 m²)*
- Noise level: 60 dBA 10 feet from unit
- Weight: 141 lbs. (64 Kg)
- 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

- Noise Level: silent (no fan)
- Weight: 13 lbs. (6 Kg)
- 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.

Predicament

Pathogen contaminants are released into the air from coughing, sneezing, breathing, or talking.

Active Purification Result

pureAir "Active" Air Purification technologies produce and send natural purifying agents into the air to meet and destroy pathogens before they can contaminate the air and surfaces.



**Active Air attacks pathogens in the air and on surfaces
Everywhere the air goes!**



Item #: BS137327

Keep passengers and staff safe from germs with pureAir EcoBus, a direct wire air purification system. Germs, air pollutants, and odors are all reduced with the effective purifying combination of UV germicidal disinfection, hydroxyl, plasma, and other oxidation generation. Distributes sanitized air evenly throughout the space.

Stationary purification, its small size and ability to direct wire into 12v or 24V systems is perfect for any large transportation vehicle holding passengers: coach buses, school buses, tour buses, and more. Breathe fresh clean air during your travel, feeling confident you are safe from disease causing germs.

Benefits of EcoBus

Active Purification

UV Germicidal Disinfection

Direct Wires to 12V/24V

Compact

Hydroxyl/Plasma Generation

Low Maintenance



Item #: BS137310



pureAir SOLO is one of the best options in personal air purification. Weighing in at a sleek 2.22 ounces, this unit purifies your breathing space with the most powerful output available. It also comes with a breakaway lanyard for user safety and a Solid Platinum Emitter and Electroplated Gold Grid. pureAir SOLO is the ultimate in advanced plasma discharge design.

pureAir SOLO propels cleaner, fresher air into your breathing zone with its solid platinum permanent emitter. The emitter produces ions, which repel VOC's, bacteria, allergens, viruses and other harmful particulates from the air you breathe. pureAir SOLO makes using a N95 mask 3000 times more effective.

Benefits of pureAir SOLO

Self-Created Personal Space

Silent, Fanless Operation

Breathe Clean Air on the Go

Ultra-Light & Wearable

Minimal Upkeep

Features & Specifications

Unit

- Dimensions: 2.95" H (75mm) x 1.94" W (49mm) x .67" D (17mm)
- Weight: 2.22 oz (64g)
- Accessories: Breakaway Neck Lanyard (may differ from image)
- Warranty: 1 Year Manufacturer's Warranty

Technologies

- Technology Name: Solid Platinum Permanent Emitter and Gold Plated Stainless Steel Collectors
- Ion Density: 50 Million Ions/cc
- Ion Wind: 90ft/Minute

Power

- Power Source: Rechargeable Lithium Battery
- Power Usage: 0.2 W
- Battery Life: 28 Hours Operating Time
- Charge Time: 3-5 Hours (Micro USB)

Packaging

- Dimensions: 1.6" H (40.6mm) x 3.1" W (78.7mm) x 4.1" D (104mm)
- Weight: 4.6 oz (130.4g)





Item #: BS137311

Reduce some of the strongest odors in your small spaces with pureAir 50, a plug-in air purifier for your bedrooms, bathrooms, offices, or other small spaces. Odors caused by bacteria, pets, cigarette smoke, mold, and mildew are all reduced with the effective purifying combination of activated oxygen and ionization.

Portable purification! Its small size is perfect for travel, allowing you to take fresh air anywhere. Simply plug it in and turn the dial to your desired level of purification. The solution for stale, stinky air pollution is just an outlet away!

Benefits of pureAir 50

 Active Purification

 Reduces Smoke & Odors

 Plugs Into Your Outlet

 Compact and Portable

 Scalable Activated Oxygen

 Low Maintenance

Features & Specifications

Unit

- Dimensions: 4.25" H (108mm) x 3.50" W (89mm) x 2.50" D (51mm)
- Weight: 6.35 oz (180g)
- Effective Area of 325 ft²
- Warranty: 1 Year Limited Warranty

Technologies

- Scalable Purification
- Adjustable Low Level Ozone
- Ionization

Power

- Power: 100V-240V; 50-60 Hz

Packaging

- UPC: 855819003472
- Dimensions: 7.75" H (197mm) x 4.7" W (119mm) x 3.25" D (83mm)
- Weight: 11 oz (0.31kg)



pureAir FRIDGE reduces embarrassing odors by purifying the air within your refrigerator. Using ionization and ozone technology, pureAir FRIDGE cuts odors caused by bacteria such as E-coli and Staphylococcus and neutralizes pesticides. Produce even stays fresher longer because pureAir FRIDGE diminishes ethylene gas from decaying food. Enjoy freshness every time you open the door, no baking soda required!

Powered by a rechargeable lithium-ion battery and equipped with photosensor technology, pureAir FRIDGE intelligently displays a battery life notification LED light and activates a pleasant audible alarm when it's time to charge. pureAir FRIDGE is simple to maintain and clean, and a 4 hour charge will purify your fridge for up to 24 days (charging cable included). Smaller than a soda can, pureAir FRIDGE is easy to place anywhere in your fridge.



Item #: BS137309



Benefits of pureAir FRIDGE

 Reduces Foul Fridge Odors

 Extends the Life of Your Food

 Neutralizes Pesticides

 Rechargeable Long-Lasting Battery

 Audible Battery Notification

 Easy to Use; Easy to Clean

Features & Specifications

Unit

- Dimensions: 3.44" H x 2.875" W x 2.875" D
- Weight: 4.41 oz (250g)
- Effective Area of 17.7 ft.²
- Low Level Ozone Output: .03ppm
- Warranty: 1 Year Limited Warranty

Technologies

- Low Level Ozone & Ionization - Low level ozone and negative charges are propelled into the fridge to reduce odors and other contaminants.
- Battery Notification - When your battery is expired, and fridge is opened, an audible alarm and LED indicator will activate.
- Energy Efficient Operation - 5 minutes of purification every hour provides results with less energy.

Power

- Power: DC 5V, Lithium Battery
- USB Micro Cable Included
- 2800mA Hours
- Battery Life: 18-24 Days

Packaging

- UPC: 855819003274
- Dimensions: 7.75" H (197mm) x 4.7" W (119mm) x 3.25" D (82.5mm)
- Weight: 10.5 oz (298g)



Frequently Asked Questions

What type of purification systems do you use?

Many of our products use more than one form of air purification. We believe layering purification systems provides the most effective use. Depending on the product you purchase: Hydroxyl Generation, Ionization, Low Level Ozone, ARC technology (converting ambient air and moisture into advanced oxidation products), and Plasma Generation.

Is any amount of Ozone safe for use indoors with people present?

Yes, OSHA's safe limit is 0.10 over 8hrs, EPA is 0.07, and FDA is 0.05. In NJ when you walk outdoors, you are breathing anywhere between 0.04-0.08 ozone levels. In a forest, you breathe between 0.01-0.04. Since humans have been living for centuries, I would say it is safe.

Why would I use your units indoors?

When a building is sealed up, we prevent natural air cleaning processes from entering our buildings. This leaves germ ridden, stagnant, stale air in our buildings for us to breathe most of our life time. The natural outdoor air cleaning process is oxidation through low level ozone, hydroxyls, and other oxidants. Introducing these processes indoors is safe and effective in germ killing, removing odors, preventing and killing mold, and more.

What about High Level Ozone Generators?

These types of units should only be used when the room they are used in has its own hvac system. When these units are used, the ozone needs to stay contained within the room you want to use it in. You set the timer, leave the room, close the door, label the door, and come back 20 minutes after the timer has gone off. Ozone dissipates after 20 minutes. Using an ozone sensor, is the best way to know if levels are safe for re-entry. If you need fast turn around, our units can be used for 1 hr to achieve sanitization in a room.

Are Hydroxyls safe to use with people present?

Yes, our normal breathable air is filled with an abundance of hydroxyls every day outdoors. It is how the outdoor air is cleaned, and therefore introducing them indoors helps clean indoor air.

