

Creating healthier senior living environments



Senior living environments are challenged with transmission risks and odor management.

Bacteria, viruses, mold, fungi can propagate in the air and on surfaces creating health concerns and unpleasant odors. Their presence can increase transmission risk in vulnerable populations, leading to sick residents, higher healthcare and employer costs, and less hospitable environments for patients, healthcare workers, and visiting family and friends.

Pyure Dynamic Protection® offers active air purification solutions that can be easily installed into existing buildings, providing significantly cleaner air and surfaces and reducing the risk of pathogen transmission.

Pyure takes care of these issues:



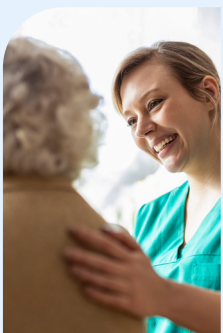
Odor elimination

- Pleasant living conditions
- Increased employee satisfaction
- Improved visitor experience



Viral transmission

- Reduced transmission (influenza, respiratory infections)
- Employee absenteeism due to sickness
- Employee reluctance to return to work



Bacterial reduction

- Infection risks (UTI, skin)
- Surgical site infections
- Wound care



Allergen control

- Mold spores are reduced
- Less allergic reactions
- Protection for compromised immune systems

Replicating nature to deliver safe and effective cleaning.

Pyure produces the same natural cleansers present outdoors in the same concentrations — ensuring effective purification of air and cleaning of surfaces in occupied spaces.

What Pyure treats:

Bacteria

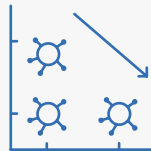
Viruses

Mold

Fungus

Odor

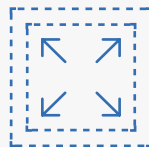
Why Pyure is better:



Provides superior performance in reducing microbial loads in the air and on surfaces.



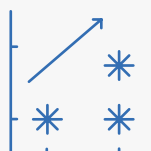
Runs continuously 24/7 while treated spaces are occupied.



Treats any size space with the same efficacy.



Delivered through an existing air handling system or installed as a stand alone solution.



Improves the effectiveness of existing cleaning and sanitation protocols.

Proven to reduce microorganisms in the air and on surfaces.

Reduction in air

PATHOGEN	REDUCTION	TIME
MS2 (simulant of RNA viruses ie. Corona)	99.9%	30 mins
	99.999%	90 mins
Phi-X174 (simulant for DNA viruses ie. Smallpox)	99.9%	30 mins
	99.99%	90 mins
Staphylococcus epidermis (Gram-positive bacterium)	99%	30 mins
	Undetectable	90 mins
Erwinia herbicola (Gram-negative bacterium)	99%	30 mins
	99.99%	120 mins
Aspergillus niger (black mold)	99.9%	30 mins
	Undetectable	90 mins
SARS-CoV-2 (COVID-19 virus)	99%	20 mins
	Undetectable	80 mins

Reduction on surfaces

PATHOGEN	REDUCTION	TIME
Escherichia coli	99.99%	180 mins
Salmonella enterica	99.97%	180 mins
Staphylococcus aureus	99.98%	360 mins
Vancomycin-resistant enterococcus (VRE)	99%	360 mins
Bacillus Subtilis	99.99%	48 hrs
Candida Albicans	99.99%	48 hrs
Aspergillus Niger	99.99%	48 hrs
H1N1 Influenza virus	99.999%	360 mins
Murine norovirus	99.99%	360 mins
SARS-CoV-2 virus	99.999%	120 mins

Case studies

Geriatric hospital

Problem

A geriatric hospital had a population of elderly patients at increased risk of infection in an isolation ward. Many had compromised respiratory systems and/or sores on their skin. The hospital was looking for additional ways to reduce the risk of pathogen transmission by treating the air and surfaces.

Pyure impact

A Pyure solution was introduced into the isolation ward. Swabs of patient skin were taken before the activation of Pyure and then again after Pyure had been operating for two weeks. The hospital recorded a reduction in the microbial counts in over half of the patients swabbed.

Customer benefit

The reduction in microorganisms detected in patients following Pyure air treatment was considered a meaningful reduction and potential mitigator of transmission risk. The hospital is now equipping an entire wing of the hospital with Pyure controlled solutions in the air handling system to assess the long-term impact of Pyure on respiratory infections, skin lesions, and other clinical endpoints.



Hospital infectious disease ward

Problem

The infectious diseases ward of a teaching hospital had elevated airborne pathogen levels in patient recovery rooms. In the two weeks before initiating Pyure treatment, CFU levels for total microbes were approximately 1,000, spiking to 9,800 during an afternoon with several visitors. The hospital's goal was to reduce airborne total microbial CFU levels to below 200.

Pyure impact

Following treatment with Pyure, the hospital measured a statistically significant reduction of airborne pathogen load (p-value of 0.011). Levels dropped to below 200 within a few hours of treatment and continued to decline to 40 CFUs after 15 days.

Customer benefit

The hospital quickly reduced airborne microbial levels below its 200 CFU target and maintained levels below the target throughout the study. The expectation is that these reduced airborne pathogens levels over an extended period will reduce the risk of pathogen transmission for patients in the infectious disease ward.



Hassle free installation and upkeep.

Pyure solutions are simply plugged into a standard outlet or added to an air handling system.

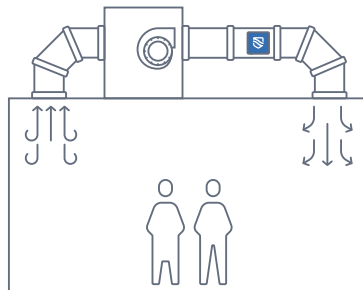
Standalone

- Discreet portable, stand alone units
- Wall mounted units
- Large stand alone units with blowers



Decentralized air handling

- Smaller units inserted in ducts throughout the building
- Wall mounted units where there is no ductwork



Pyure makes maintenance easier.

Little impact on existing handling system

- Minimal increase in airflow resistance
- Virtually no extra wear and tear
- Marginal impact on energy consumption

Low frequency maintenance and a system that helps clean

- Annual replacement of UV optics and sensors
- Periodic cleaning of filters (frequency depends on the dust and oil concentrations in the air)
- Reduces the frequency and intensity of duct decontamination



Non-controlled solutions.

The simplest to install, our non-controlled products can be added to air ducts, wall mounted or plugged into a standard outlet. Switch them on for instant air purification and surface cleaning in small to medium size environments.



Pyure Mini® Purifier

The Mini series is designed to fit in with its small proportions, modern design and low noise levels. This makes it ideal for cleaning and deodorizing air in offices, waiting rooms or any other small commercial space.

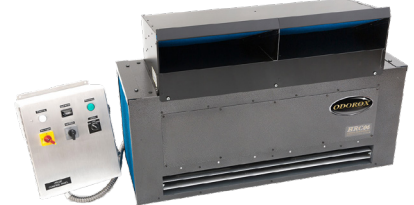
TREATMENT AREA: up to 500* sq ft



Pyure IDU™ Purifier

The IDU purifier is a duct mounted purifier that is easy to install and requires only an electrical connection for operation.

NOMINAL TREATMENT AREA:
2,000* sq ft (model dependant)



Odorox® HRC06™ Air Purifier

The HRC06 purifier is wall mounted and can modulate its output to purify and deodorize commercial and industrial applications.

TREATMENT AREA: up to 6,600* sq ft



Odorox® Slimline™ Purifier Family

A rugged purifier with a durable exterior beneficial for public spaces and commercial or industrial installations that require a portable unit.

TREATMENT AREA:
up to 900 - 1,500* sq ft



Odorox® Boss™ Purifier

Designed for tough environments, the Boss purifier is suited to applications like remediation following fire or water damage. It's also ideal for areas with frequent movement and contact.

TREATMENT AREA: up to 2,500* sq ft



Odorox® Boss XL3™ Purifier

By adding an external fan to provide greater air movement, the Boss XL3 purifier is ideal for spaces that have been affected by smoke, flooding, wastewater, and other air pollutants.

TREATMENT AREA: up to 3,250* sq ft

Let's discuss a solution tailored to your needs or plan a trial.

At Pyure, we're dedicated to finding the right solution for solving your challenges and delivering the outcomes you need.

Get in touch to find out more about how we can help.

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