SPEED MATTERS

when you're combating nasty germs

Clean air beyond 99.99% efficacy

High-speed, High-performance

anti-germ air sterilizer

AZEN

INTRODUCTION

Are you aware that poor indoor air quality results in increased risk of aggravated or chronic respiratory illnesses, like asthma?

Respiratory hazards are very real. In USA alone, 15 million Americans suffer from asthma. Common airborne viruses or bacteria, or pathogens which they are clinically called, can be nasty if they are not eliminated.

Many air purifiers in the marketplace claim to be highly effective in eliminating nasty, hazardous germs. As we spend most of the time indoor, a "beyond 99.99% pathogen kill rate" is critical.

AZEN
ANTI GERM

Heavy-Duty Dust Loading Pre-filter

AZEN ANTI-GERM Air Sterilizer operates on a high efficient filter system. Pre-filtering is the first stage of the filtering process in the air sterilizer unit.

The unique design maximizes media usage which results in a more gradual rise in resistance and higher dust loading capacity. It provides a higher gross media area that is practically 5 times larger than what is commonly available in rival air sterilizers in the market.

The pre-filters are constructed and designed to be robust and sturdy. Thus, they do not degrade under harsh operating conditions.

Germicidal HEPA

HEPA is the most efficient air filter that was developed during WWI as a means of protecting soldiers from chemical attack. Since then, it has been a primary mechanism used for removing pathogens, micro-organisms and particles from the air at very high efficiencies.

Microscopic view of trapped pathogens of less than 0.3 microns.

HEPA filters have been the standard filtering means for clean rooms in the medical, operating theatre, pharmaceutical, industrial and military sectors. Azen's Germicidal HEPA filters are 99.97 - 99.99% efficient on particles of 0.3 microns or larger. Our HEPA is carefully checked for a specific set of physical and performance characteristics, including:

- Adsorption consistency
- Efficiency
- Thickness
- Tensile Strength
- Water Repellency
- Radiation Resistance
- Weight
- Binder Content
- Leak-Proof

High-Speed Air Circulation

The Problem The fastest available common air purifiers in the local market today can only cleanse all the air in a 150 ft² room within 10 to 100 minutes. Such low air exchange rates will not ensure adequate elimination of air impurities and pathogens.

Why? The pathogens left behind by the former patient will have to be eliminated before the next patient goes into the consultation room. The average time interval between 2 patients ranges from 1 to 2 minutes.

Which means.... That most air purifiers which are available in the market cannot cleanse the air in the whole room fast enough.

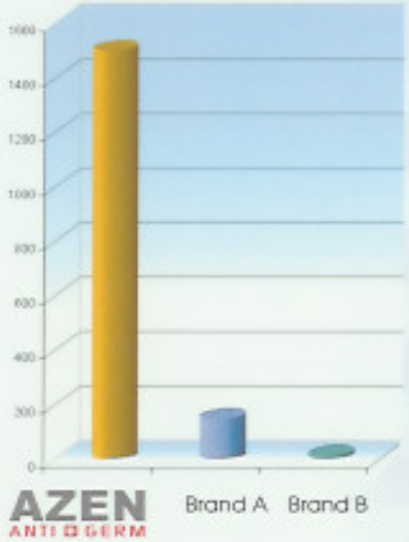
Thus, in order for a complete cleansing of air to take effect, fast air change mechanics must be incorporated in any purifier.

AZEN ANTI-GERM Air Sterilizer is the solution. Complete purification of air is ensured; pathogens and particulates are all reduced drastically, under an extraordinary rate.

How is it so? Leveraging on AZEN's air handling technology for more than 250 years, this innovative product is effective in eliminating pathogens and air particulates in a standard room in **LESS THAN ONE MINUTE.**

CDC recommended air change is 6 ACH. ***AZEN ANTI-GERM*** *averages 10 times the recommended rate.*

Comparison of Air Change Rate (CFM)



Ultra-Violet Germicidal Irradiation

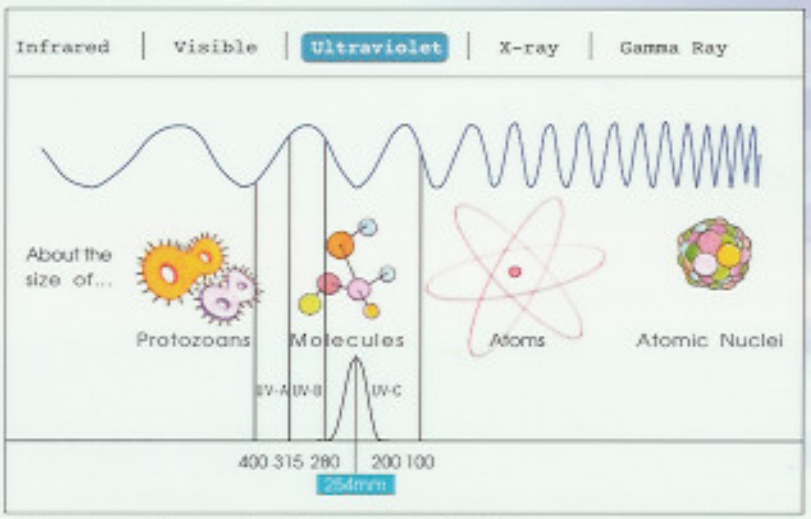
Maximum germicidal efficacy. AZEN ANTI-GERM Air Sterilizer has a very high ultra-violet dosage in the UVGI system that emits approximately 95% of the ultra-violet energy at the mercury resonance line 254 nanometers (UV-C).

Meaning... This wavelength is at the region of maximum germicidal effectiveness and is therefore highly lethal to viruses, bacteria and mold spores.

Proven Technology. Ultra-violet Germicidal Irradiation is an established time-proven technology widely used for inactivating microbes. Most reports have focused on the control of infectious diseases, such as tuberculosis (TB).

The kill rate in indoor environment varies from one pathogen to another, but can be anywhere from a few seconds to a few minutes for a 90 - 99% kill. Spores, and some environmental bacteria, tend to be resistant and may survive even longer exposures.

Electromagnetic spectrum



Optimum germicidal wavelength is centered on 254μm.

How UV light eliminates microbe

UV light disinfects by permanently altering its DNA, thus preventing it from replicating.

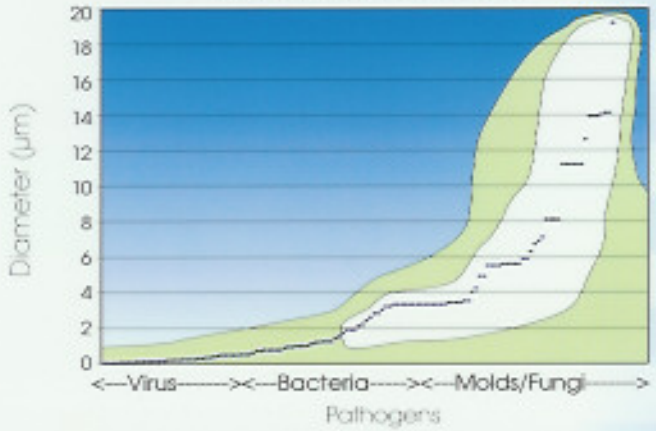
Azechem Technology

Our Azechem Technology system uniquely capitalizes on certain insights of the Germicidal HEPA, UVGI lamp, surface treatment and airflow technologies, resulting in a module that brings forth hi-elimination, hi-speed and hi-capacity performance.

More than 120 families of pathogens are covered. These include the following:

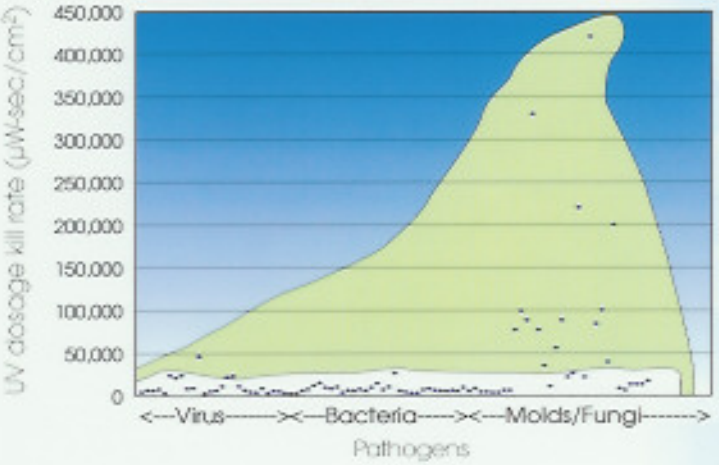
• Bacillus Anthracis (Anthrax)	• Small Pox
• Pseudomonas Aeruginosa	• B.Subtilis Spores
• Influenza Virus	• Mycobacterium Tuberculosis
• Legionella Pneumophila	• Corona Virus

Extensive coverage of Azechem Technology in eliminating pathogens



Extensive coverage by Azechem Technology. This includes pathogens with diameter size of less than 0.3µm, e.g., cold, corona, hepatitis virus, pneumonia bacteria.

Limited coverage by Brand A without UV.



Extensive coverage by Azechem Technology to include pathogens requiring high dosage kill rate, e.g., molds and fungi that cause sinuses, brain, eyes, lungs & skin infection.

Limited coverage by Brand B without filter.

Sturdy & Durable Exterior Casing

The casing of Azen Anti-Germ is of sturdy construction and made with durable material. Medical grade coating is added to enable it to withstand constant alcohol-based cleaning.

Lamination options are available for the unit to blend in with the surrounding decor.

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250 Years' expertise in air handling solution