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Cleans Air to the Last Molecule

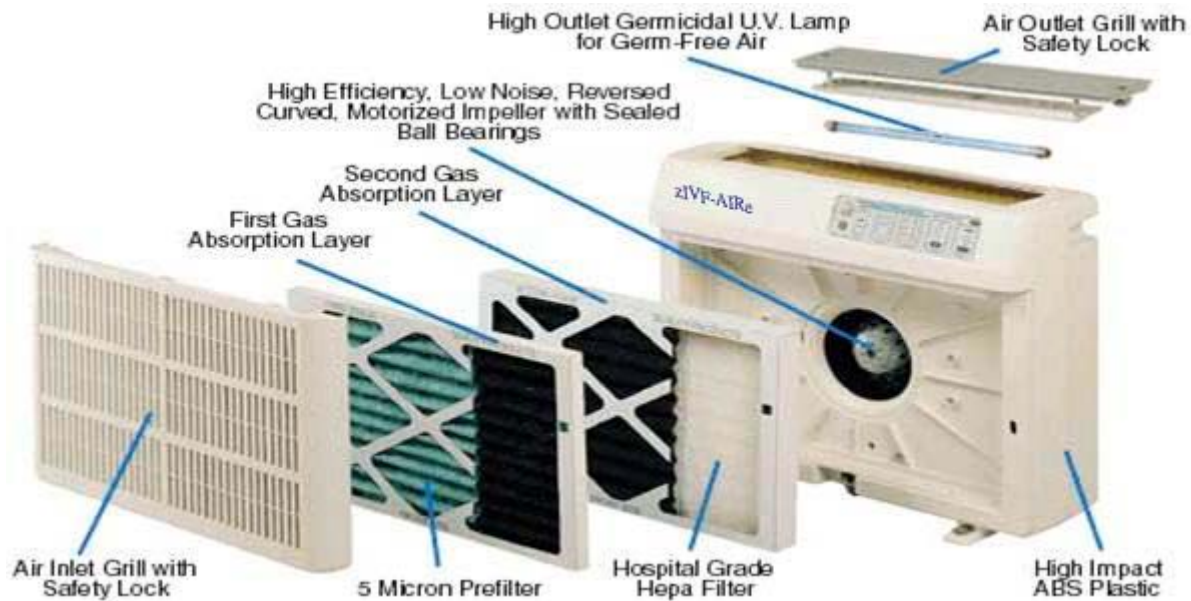
The zIVF-AIRe "Six Step" Clean Air System

- **STEP ONE: Cleans the Air of Macro Particles**
A treated (5) micron pre-filter removes all particles from the air larger than (5) microns, extending the life of the Hepa filter and protects the gas absorbing media from dust coating and fouling.
- **STEP TWO: Hospital Grade Hepa Filter Removes Allergens**
A hospital grade Hepa filter removes allergens so small that they can only be seen with a microscope. Pollen, mold, fungal spores, dust mites, insect dust, tobacco smoke and bacteria are but a few examples.
- **STEP THREE: Absorbs Toxic Chemicals and Gases**
A specially formulated gas absorption media absorbs automobile exhaust fumes, organic hydrocarbons, formaldehyde from particle board used in construction, paint and other solvents, chlorine, cleaning chemicals and other fumes until the Photo-Catalytic converter destroys the pollutants.
- **STEP FOUR: "Photo-Catalytic Oxidation" Destroys Toxic Chemicals and Eliminates Odors**
Activated carbon, zeolite and potassium permanganate used by the best air purifiers can rapidly absorb large quantities of toxic fumes, however this media quickly becomes saturated and slowly releases pollutants back into the air stream. Photo-Catalytic Oxidation converts toxic compounds, even carbon monoxide and nitrous oxide, into benign constituents such as carbon dioxide and water without wearing out or losing its effectiveness.
- **STEP FIVE: Ultraviolet Light Kills Disease Germs on Contact**
Ultraviolet light 10,000 times the intensity of sun light kills viruses and bacteria too small to be filtered out by a Hepa filter. Ultraviolet technology combined with photo-catalytic oxidation is the most important feature in air cleaning since germs are easily spread from one person to another by central heating and air-conditioning systems.
- **STEP SIX: Negative Ions Keep Air Fresh**
Oxygen in the air reacts with ultraviolet light to produce small amounts of negative ions and activated oxygen. Negative ions and activated oxygen help keep the air clean and fresh.



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zIVF-AIRe Clean Air System



Features:

1. Air Inlet Grill with Safety Lock
2. 5 Micron Prefilter
3. Two Gas Absorption Layers
4. Hospital Grade Filter
5. High Efficiency, Low Noise, Reversed Curved, Motorized Impeller with Sealed Ball Bearings
6. High Impact ABS Plastic
7. High Output Germicidal U.V. Lamp for Germ-Free Air
8. Air Outlet Grill with Safety Lock



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zIVF-AIRe, Clean Air System, Hospital Grade Hepa Filter

Extremely large 24 square foot, zIVF AIRe Hepa Filter removes allergens so small they can only be seen with a microscope. Pollen, mold, fungal spores, dust mites, cockroach dust, animal dander, tobacco smoke, and bacteria are but a few examples.

Extensive industry studies have shown that as many as 99% of all particles in recirculated indoor air are less than 1 micron in size. Many of these sub-micron particles are termed "within the desirable fraction", and are potentially dangerous to humans.

The zIVF AIRe Hepa Filter removes the potentially harmful contaminants that threaten overall indoor air quality. zIVF AIRe Hepa Filters are 99% effective on atmosphere dust (ASHRAE Standard 52-76), 97% efficient on Nebulized Staphylococcus Aerosols, and meet the requirements for UL900, Class I, and Class II specifications.

Complete Air Cleaning - Up to 2,000 Sq. Feet / 185 m2

600 cyd / 500 m3

It only costs 20 cents per day to operate full time, 24 hours per day.

Designed for hospital operating rooms, the zIVF AIRe Hepa filter removes up to 97% of microscopic particles and airborne allergens as small as **.3 microns**. (The average human hair is **80 microns** in size and a bacterium is **1 micron** in size.)

Hepa filters, developed by the military, are capable of filtering out bacteria, fungal spores, dust mites, pollen, insect dust, animal dander and tobacco smoke. These microscopic particles are known to be one of the primary causes of asthma, emphysema, hay fever, chronic bronchitis and allergies.



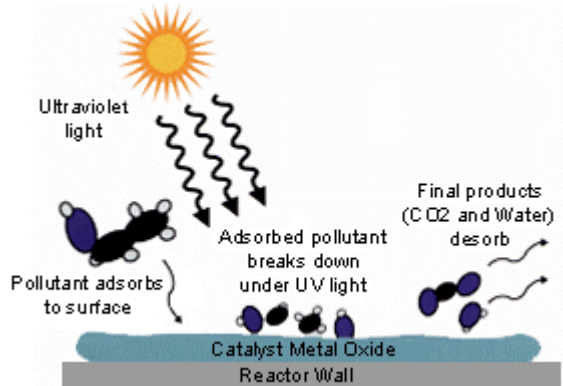
- Chemical Free
- Allergen Free
- Odor Free
- Germ Free Environment



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zIVF-AIRe, Clean Air System, Photo-Catalytic Purification Cleans Air Down To The Last Molecule

Developed by **Sandia Laboratory** and the **National Renewal Energy Laboratory** and used by the **Department of Defense** for destroying toxic organic compounds that are hazardous to human health and the environment, this powerful air cleaning technology is now available for laboratory, home, or office use.



The key to Photo-Catalytic Oxidation is the photo catalyst, a chemical compound that becomes highly reactive when exposed to various wavelengths of ultraviolet light. In the presence of organic pollutants - such as solvents, alcohols, carbon monoxide, dyes, and fuel oil - the activated photo catalyst attacks the pollutants' chemical bonds, converting the toxic compounds into benign constituents such as water and carbon dioxide.

Eliminate:

- Bacteria + Virus
- Pesticides
- Alcohols
- Ammonia
- Chlorinated Solvents
- Cleaning Chemicals
- Carbon Monoxide
- Hair Spray
- Tobacco Smoke
- Paint Solvents
- Nitrous Oxide
- Ozone + Smog



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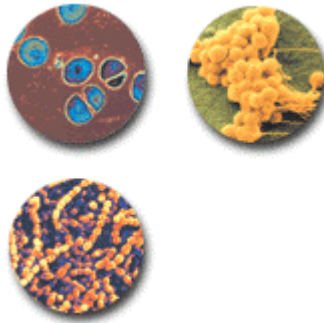
zIVF-AIRe, Clean Air, Ultraviolet Disinfection Chamber

Ultraviolet Light deactivates air borne germs, bacteria, and viruses.

A unique feature to the zIVF AIRe air cleaner is the use of Ultraviolet Light to destroy microorganisms in the air. Located inside the unit is an ultraviolet lamp producing 10,000 times the intensity of normal sunlight.

Ultraviolet Light attacks viruses and bacteria by destroying the RNA and DNA complex. Once this complex is destroyed, the disease causing organisms can no longer reproduce themselves.

Ultraviolet technology is very important in preventing the spread of air borne disease from one person to another and by central heating and air conditioning systems. Ultraviolet technology breaks the chain in air borne disease-causing organisms.



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zIVF-AIRe

Computerized Control System

Microprocessor based computerized controls provide the ultimate in user friendliness, and precision control. The zIVF AIRe Clean Air System makes it easy to set the system to exactly the right air volume by selecting 1 of 28 different combinations available (4 modes of operation and 7 room sizes). This guarantees energy efficiency through proper room sizing.

Toxic Chemical & Particulate Sensor. Advanced technology allows the zIVF AIRe Clean Air System to provide this outstanding feature. The solid-state sensor will detect toxic chemical fumes, high particulate counts, and dangerous natural gas leaks. The air quality is continually monitored in real time, and brightly displayed using green, yellow and red light emitting diodes. One look at the zIVF AIRe Clean Air System control center will inform the user of their actual air quality.

The zIVF AIRe Clean Air System comes with an infrared motion sensor that detects movement in the room and adjusts the unit accordingly. Because more dust and allergens are created when people are in a room, the unit slows down when there is no one in the room, thereby saving you money on energy.

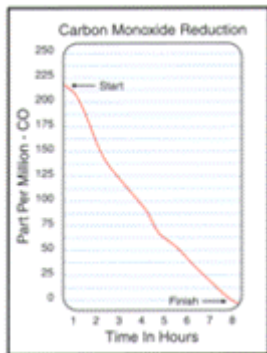
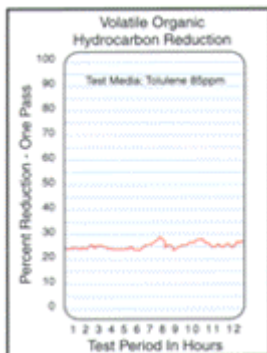
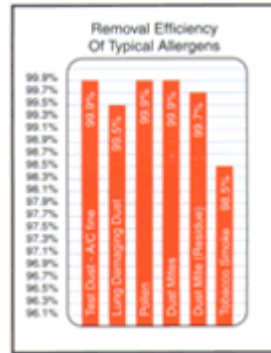
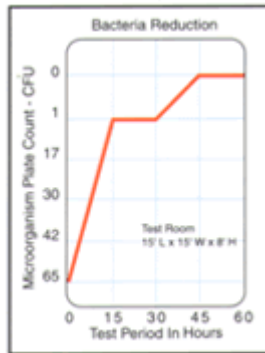
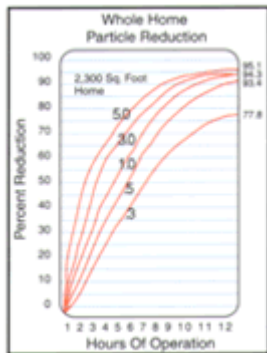
Service indicator lights eliminate all guesswork by remembering when to replace filters and ultraviolet lamp by keeping track of time and usage. This microprocessor-based feature is not affected by power interruptions, or when the unit is stored for extended periods of time.

Electronic sensors monitor air quality and automatically increase air purifier performance to compensate for periods of unusually high chemical activity or during periods of high particulate counts. Warning lights alert users to the presence of toxic chemicals and fumes well before they reach dangerous levels or become detectable by human senses.



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zIVF-AIRe, Clean Air System, Performance Data and Approval:



Electrical Testing Laboratories
Canada



European Community



Electrical Testing Laboratories
United States



Japan Electrical Approval



Japan
Food
Research
Laboratories