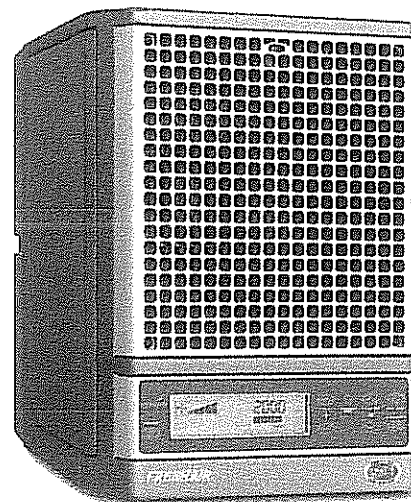


FreshAir Surround

vollara®

Did you know that each of us consumes more air every day than anything else in the world? It's true. We each breathe in over 3,000 gallons of air every day. And don't we all want to breathe pure, fresh air? Unfortunately the air outside can be bad, and indoors where we spend most of our time, the air can be much worse. In fact according to the Environmental Protection Agency (EPA), indoor air levels of many pollutants may be 2-5 times, and sometimes, more than 100 times higher than outdoor levels. Without some method of control, airborne contaminants can be breathed in or eventually settle on exposed surfaces. But whether you suffer from allergies or not, there is something you can do about it. FreshAir Surround combines five nature-based processes into one unique, proven, active technology system that helps clean the air you breathe and the surfaces you touch.



About Indoor Air

One alarmingly simple fact to consider: if you don't use an air purifier, you are the air purifier. The EPA says the average adult breathes over 3,000 gallons of air each day and spends a significant amount of time, up to 90%, indoors. The Asthma and Allergy Foundation of America (AAFA) reports that one in four Americans currently suffer from asthma and allergies. And while the human respiratory system has several built-in defenses to prevent substances from entering the lungs, utilizing air purification to remove or reduce the amount of airborne pollution in the breathing space can potentially ease the burden of contamination in the body and help maintain overall wellness. Those common household airborne pollutants can potentially include:

- Dust which is generally comprised of dead skin, dust mites and dust mite feces, insect parts, and more.
- Smoke emanating from tobacco, wood-burning fireplaces, fuel-burning heaters, and cooking.
- Chemicals from spray cleaners, perfumed deodorizers, carpets, and other building materials.
- Various microscopic bacteria and viruses.

All of these will continue to be of concern as modern building methods and the energy efficiency improvements of retrofitting existing structures continue to seal pollutants within indoor spaces. Such buildings tend to have decreased ventilation rates, higher concentrations of indoor-emitted pollutants, and more occupants reporting health problems.

Dust Mites

It has been reported that up to 80% of U.S. homes have large dust mite infestations, which may not be surprising considering as many as 40,000 dust mites can live in a single ounce of dust. These pests are second only to pollen in causing allergic reactions, mostly from airborne dust mite feces, ranging from itchy noses and eyes to severe asthma attacks. Along with keeping a low relative humidity between 30 – 50%, one of the most obvious methods of controlling dust mites may be to just reduce the amount of dust. An air purifier that works to continuously remove particulate from the air, combined with a thorough cleaning regimen that includes vacuuming can be an effective, simple strategy to minimize the aggravations of airborne dust.

Exposed Surfaces

Contamination on surfaces isn't limited to visible dust - there are numerous other types of contaminants that generally get spread where people live. Whether from sneezing and coughing or just everyday handling, door knobs, counter tops, and almost any exposed surface can become a potential staging ground. It's also interesting to note that, by legal definition, disinfectants must be capable of reducing the level of pathogenic bacteria by 99.999% during a time frame of less than 10 minutes. Yet, as widely accepted as chemical disinfectants are, they may have little or no effect once removed from a surface due to lack of contact exposure. Because of this, some type of surface contaminant reduction between cleanings or disinfection may be desirable and beneficial as part of a regular regimen.

*These results have not been evaluated by the FDA. This product is not a medical device intended to diagnose, treat, cure, or prevent any disease.

**Published scientific studies conducted on behalf of Vollara by Dr. James Marsden at Kansas State University demonstrated that Vollara's ActivePure™ Technology substantially reduces contaminants on surfaces. No claim with respect to contaminants is made based on these results. Field results may vary based on environmental conditions.

FreshAir Surround

The Advantage of ActivePure®

With an end result similar to traditional filtration, ActivePure's active technology will clear the air of dust and floating particles, but unlike filters, it works out in the indoor environment, using air from the unit to carry "scrubber" ions and oxidizers through the air and to surfaces where they may be needed most. ActivePure® makes extensive use of five nature-based processes:

- **Sunlight** - for germicidal UV light
- **Rain and thunderstorms** - to generate ionization
- **Lightning** - to produce activated oxygen
- **Photocatalysis** - for hydro peroxides and oxide ions
- **Wind** - to distribute these properties into the environment

Utilizing Lights and Metals

To create oxide ions and powerful oxidizers, the ActivePure® cell located inside the FreshAir Surround utilizes an advanced form of photocatalytic process known as radiant catalytic ionization. This proprietary cell technology incorporates short wave UVC germicidal light as a catalyst to react with a formulated titanium dioxide and a proprietary blend of transition metals coating a target honeycomb matrix. The strong germicidal capabilities of the cell ensure any contaminants passing through the FreshAir Surround are inactivated and rendered harmless.

Ionization Reduces Airborne Particulate

FreshAir Surround includes a dual polarity ionization system designed to bring about the agglomeration of airborne dust particles, odors, smoke, and contaminants to effectively cause them to cluster together and drop from the air. This airborne particulate can contain both pollen and dust along with its various constituents including dust mites, dust mite feces, and insect parts. Tobacco, cooking, and other types of smoke are also removed from the air by ionization through a similar process.

The Power of Activated Oxygen

To eliminate difficult odors as well as odor-causing bacteria at the source, FreshAir Surround offers an adjustable, optional purification function to produce activated oxygen, otherwise known as O₃ or ozone. A naturally occurring oxidizer with a very short half-life of approximately 5 minutes, activated oxygen works to break down all

forms of odors and many types of air pollutants before breaking down itself to basic oxygen, allowing it to be used in unoccupied spaces for odor remediation and dust mite control as well as for everyday low level odor and contaminant control purposes as desired.

Scientifically Studied

Testing on behalf of Vollara by Dr. James Marsden, and others at Kansas State University was conducted to determine the potential use of ActivePure® (RCI) Technology for the inactivation of Staph (Staphylococcus aureus), MRSA (Antibiotic Resistant Staph), E. coli (Escherichia coli), Bacillus spp., Streptococcus spp., Pseudomonas aeruginosa, Listeria monocytogenes, Candida albicans, and black mold on stainless steel surfaces at diverse contact times in a controlled airflow cabinet. Further testing was conducted for Vollara at the University of Cincinnati Center for Health-Related Aerosol Studies to investigate the novel air purification technique combining aerosol/bioaerosol control mechanisms of unipolar ion emission and photocatalytic oxidation promoted by the ActivePure® (RCI) technique. These tests validated the effectiveness of the ActivePure® Technology in controlling contaminants.

An Earth Friendly Value

Active technology air purifiers like FreshAir Surround with ActivePure® offer opportunities to contribute to an earth friendly lifestyle by continuously working to reduce biological contaminants on surfaces which may lessen the amount and impact of chemicals needed for cleaning and deodorizing, potentially saving money and resulting in fewer empty containers going into the trash. By evaluating based on total area covered and suggested retail pricing, Vollara has calculated that FreshAir Surround costs up to 83% LESS per square foot of coverage when compared to popular brands of simple HEPA filters.

Space Certified Technology

ActivePure® Technology is based on a variation of the technology originally developed for use in the International Space Station and is recognized as the exclusive Certified Space Technology by the Space Foundation in its category.

Unique Features of FreshAir Surround

- Uses super oxide ions and hydro peroxides created by ActivePure® Technology to remove contaminants.
- Alternating positive and negative charged ions remove microscopic particles from the air to reduce harmful airborne pollutants.
- Features high intensity UVC light to make use of the same oxidation and ionizing properties as naturally occurring sunlight.
- Certified Space Technology™ (www.spacefoundation.org)
- Normal Mode uses exclusive ActivePure® (RCI) Technology to produce safe, low-level, oxidizers and super oxide ions for basic, everyday applications.
- High Mode adds the power of activated oxygen for faster coverage and increased elimination of smoke, odors, and surface contaminants.
- 8-hour Away Mode increases the maximum output of activated oxygen for increased effectiveness in unoccupied areas.
- Includes a remote control for easy operation.
- Optional Ozone Free ActivePure® Cell allows for operation without creating ozone in normal mode.
- Optional prefilter available for harsh or dust-prone environments.
- Improves the quality of air in an environment up to 3,000 sq. feet.
- Alerts for normal maintenance or when service is required.

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