

Air Made Better.

Using Science Inspired By Nature!



Peace of mind with clean
air solutions for any type
of indoor environment.

Residential . Commercial. Healthcare . Industrial



Like our name suggests...
Advanced Air is committed to
providing our clients with products
which use advanced air purification
technologies, and deliver industry
leading results in any type of
indoor environment and any sized
space.



Advanced Air Group currently consists of two product lines, Advanced Air and Zephyr Air Purifiers. Since 2009 Advanced Air and Zephyr Air Purifiers has been providing clean air solutions for homes, businesses, schools, hotels, transportation, government and healthcare facilities throughout North America.

Like our name suggests, Advanced Air is committed to providing our clients with advanced air purification technologies which deliver the best results possible in any type of indoor environment of any size.

Advanced Air offers a variety of air purification technologies and products which come in a variety of sizes and are designed to cater to each clients specific needs.

Overview

Breathing clean air is not a luxury, it is a necessity for life. However, most of us are completely unaware of the difference in air quality from our homes and places of work to the outdoors; and how it can impact our short and long term health.

Due to this fact, it has been our primary focus to provide the public with air quality solutions which are effective, and also inspired by nature. It is our goal to provide our clients with products of the highest quality that are also affordable; because it is our belief, that breathing cleaner indoor air is something all of us can benefit from and should be able to enjoy.

Why is Clean Indoor Air Important?

Clean air is essential for life and our health; we breathe all day, everyday and we can not live without clean air. The average person takes over 17,000 breaths each day, which equates to approximately 2000+ gallons of air which we inhale and exhale every day of our life. When this is put into perspective versus what we eat (3 - 4 pounds of food) and drink (1 gallon of fluids) per day; it is easy to see how important the air we breathe is. As a result, Indoor air quality is very important to our health.

Indoor air quality is more of a problem now than it was in the past for three reasons:

1. The way buildings are constructed “air tight” for the sake of energy efficiency; which results in a lack of proper ventilation and air exchange.
2. The increased use of synthetic building materials and furniture which slowly off gas VOC’s which can build up indoors, often to concentration levels which are not safe.
3. Outdoor air pollution has increased over the past few decades, where the outdoor air drawn indoors by air exchangers for ventilation purposes can bring unwanted and often harmful pollutants with it.

The EPA states that: on average we spend approximately 90 percent of our time indoors, in homes, offices/work, and schools where the concentrations of some pollutants are often 2 to 5 times higher than typical outdoor concentrations.¹ With the addition of people to an indoor environment, such as at work, school or even our own homes, the increased opportunity for infectious viruses, germs and bacteria to spread from person to person also arises. According to the EPA¹ and American Lung Association², some health effects associated with indoor air pollutants include:

- Irritation of the eyes, nose, and throat.
- Asthmatic and Allergic reactions
- Headaches, dizziness, and fatigue.
- Respiratory diseases, heart disease, and cancer.

As a result, the air we breathe indoors can have both short and long term impacts on our health; making clean indoor air essential to good health.



1. <https://www.epa.gov/report-environment/indoor-air-quality>

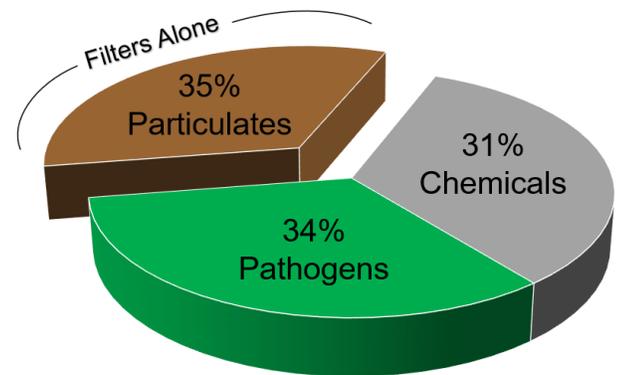
2. <https://www.lung.org/clean-air>

What is Indoor Air Pollution?

Indoor air pollution consists of 3 components: Particulates, Pathogens & Chemicals.

1. Particulates are tiny particles such as dust, pollen and animal dander.
2. Pathogens are biological micro-organisms which include viruses, germs, bacteria and mold spores which can cause various illnesses.
3. Chemical contaminants called VOC's often go unnoticed, as they are invisible to the human eye and often in concentration levels where we cannot smell them. However, according to the EPA, concentrations of many VOC's are constantly higher indoors (up to 10 times higher); and some of which may have short and long-term health effects. ¹

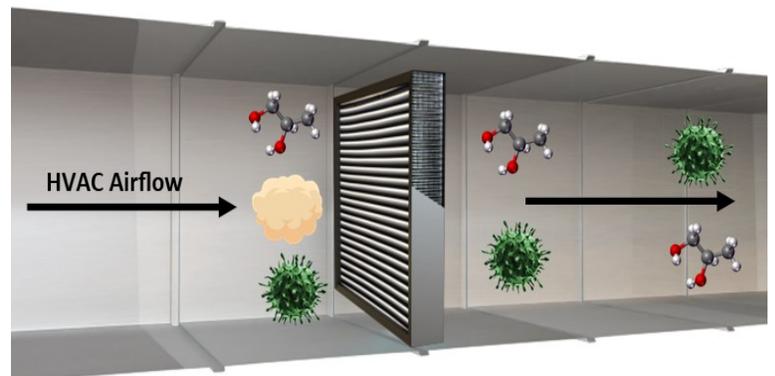
Standard MERV rated and even many HEPA filters are only effective at removing 1 of the 3 components of indoor air pollution.... Particulates. In many cases, this leaves the other two components, Pathogens and VOC's, untreated.



The Problem with Standard Air Filters

Most air purifiers or HVAC filters use a “reactive air purification” method. This means that air must be drawn through a porous filter in order to be cleaned. This poses two problems.....

1. Air cannot be cleaned until it is drawn through the filter. This allows many pollutants to linger in the air for large periods of time before they are filtered and in some cases some pollutants are never filtered at all.
2. Most filters are only able to filter solid matter of a certain size or larger. In many cases, pathogens are much smaller in size than a filter is capable of removing; and chemicals are in a gaseous state which even HEPA filters cannot capture. This leaves a significant percentage of indoor air pollutants unfiltered and untreated.



Clean Air Solutions

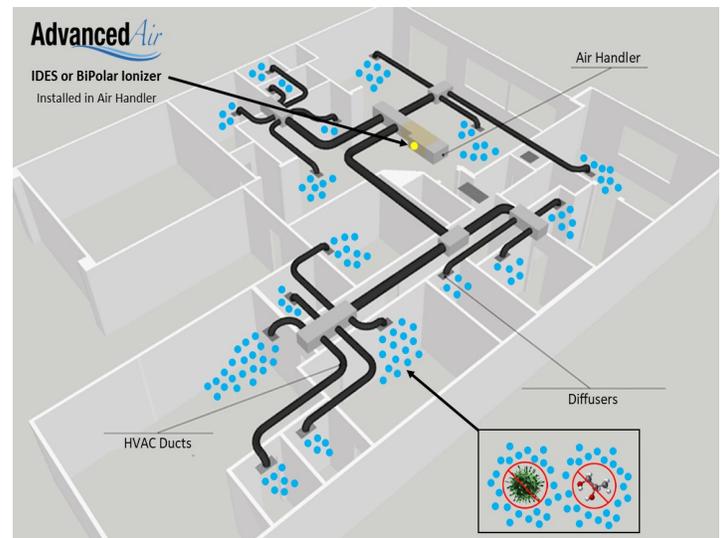
Advanced Air products incorporate “proactive air purification” methods which means that air pollutants do not have to pass through a traditional filter before they are treated or removed from the air. As a result, a single unit can service an entire home or building in many cases. Advanced Air products use technology which is inspired by nature to create air purification processes which occur naturally outdoors to reduce particulates, pathogens and VOC’s from the air. Our group of companies offer both HVAC installed, as well as portable air purification solutions to meet the needs of any environment.

Proactive Air Purification

The Advanced Air In-Duct Environmental System or “IDES” and BiPolar Ionizers use a proactive air purification approach to clean indoor air in any sized space; using either Advanced Air Technology to create advanced purifying super oxidizers or needlepoint bipolar ionization to create hundreds of millions of positive and negative ions.

These highly reactive super oxides or ions are sent out through the air stream in the home or buildings HVAC system where they seek and attack airborne pollutants such as pathogens (viruses, germs, bacteria, mold spores, microorganisms) as well as harmful chemicals and gases known as VOC’s.

This proactive air purification method means pollutants are removed precisely where they arise. Instead of waiting until pollutants are drawn back through the HVAC system to pass through a filter which can take hours, days and in some cases, they are never drawn back through a filter before we breathe them in. The advanced purifying super oxidizers emitted by the Advanced Air IDES or Ions emitted by our BiPolar Ionizers are dispersed throughout a building and become present in the ambient air where they remove pollutants as they enter the air. This means the air itself helps purify and protects against pollutants.

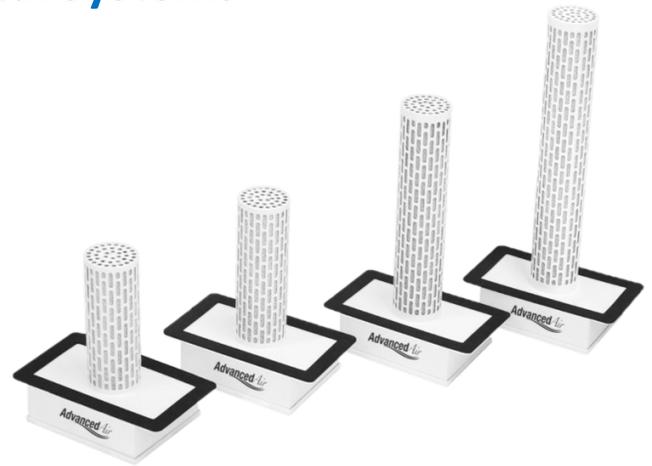


Our Products

In Duct Environmental Systems

The Advanced Air IDES uses our Advanced Air Technology and a “proactive” air purification method to clean the air in an entire home or building. Using a unique wide-wavelength photon of high-intensity UVC light and Advanced Air’s catalyst filter, a photocatalytic reaction which occurs naturally in nature is used to produce Advanced Purifying Super Oxidizers which are both safe and effective. These Super Oxidizers are highly reactive towards pathogens and VOC’s. Once created, they begin working immediately and are sent through the entire home or building via the HVAC systems air stream. The Super Oxidizers seek and inactivate (kill) airborne pathogens by penetrating the cell and breaking its DNA or RNA strand. They decompose harmful VOC’s by breaking the chemical bonds which hold them together, what remains is harmless water molecules and carbon dioxide.

Advanced Air IDES comes in 4 sizes, and are designed to service areas up to 3000ft², 6500ft², 10,000ft² and 13,000ft² with a single unit respectively.



IDES Product Video



BiPolar Ionization Systems

Advanced Air BiPolar Ionization systems use bipolar ionization technology to create and emit these naturally occurring positive and negative ions into the airstream of a home or buildings existing HVAC system. These positively and negatively charged ions seek to attach themselves to pollutants which carry an opposite charge of that which the ion carries (ie. + seek - charged pollutants and vice versa). This helps reduce all 3 aspects of indoor air pollutants: Particulates, Pathogens and VOC’s by increasing the indoor concentrations of these ions to levels found outdoors in nature. Creating a cleaner and healthier indoor environment. Advanced Air BiPolar Ionizers come in various sizes and models designed for residential, and commercial applications as well as models for vehicles of any size including passenger vehicles, buses, subway/train and planes.



Portable 7 Stage HEPA Air Purifier

7 stages of filtration is much more effective than 3 or 4 stage filtration systems which many products use, because certain pollutants require specific filtration technology to either filter or destroy them.

The ZEPHYR XXL uses 7 stages to filter and destroy many harmful pollutants other products cannot. Such as viruses, germs, bacteria, mold, bio-aerosols, chemicals and gases. ZEPHYR uses not only medical grade HEPA but also UV-C Germicidal Irradiation (UVGI) Sterilization lamps, Photocatalyst Oxidization Technology (PCO) and a negative ion plasma generator to destroy pathogens, chemicals and gases.

The Zephyr XXL provides air purification for spaces up to 1500ft² with a single unit.



Technology Using Science Inspired by Nature

You have likely never heard anyone say “lets step inside to get some fresh air”; and that is because the air outdoors is much cleaner than the air we are breathing indoors. All of our products use technologies based on science which is inspired by nature. Outdoors, mother nature uses a variety of natural occurring methods from sunlight causing oxidation to positive and negative ions to reduce air pollutants. Advanced Air products use various technologies to recreate these methods which occur naturally outdoors, and bring them indoors; to provide clean air solutions for any type of indoor environment which are affordable and effective.



Advanced Air
Air Made Better.



Corporate Office: Phoenix, AZ USA

Phone: 602-975-8396

Email: info@airmadebetter.com

Visit Our Website at:
www.AirMadeBetter.com

