

AIR CLEANERS

Aranizer™

The Aranizer is an air cleaner that produces Aran (instead of ozone) which is pure oxygen - a natural air purifier. The Aran Corona is similar to the effect of the discharge of a lightning bolt, producing allotropic forms of oxygen which immediately react with the components of hydrocarbons and kills micro-organisms like bacteria, mold, fungus, virus and yeast.

What ARAN™ Works On...		
<ul style="list-style-type: none"> • Acetaldehydes & Alcohols • Acetic Acids & Amines • Anisoles & Aromatics • Acids: Formic, Benzoic, Humic • Chlorinated Compounds: <ul style="list-style-type: none"> • -butanes • -ethanes • -pentanes • -polyaromatics • -propanes • Carbon Monoxide • Chelating Compounds • Chloroaromatics • Cyanides • Detergents Ethylene 	<ul style="list-style-type: none"> • Dichlorides • Formaldehyde • Glycerols • Glycine • Glycols • Haloaryl Ethers • Halogenated Methane • Hydroquinones • Kepones • Methylene Chloride • Nitro Compounds: <ul style="list-style-type: none"> • -samines • -aromatics • -phenols 	<ul style="list-style-type: none"> • Organic Compounds: <ul style="list-style-type: none"> • -tins • -sulphurs • -phosphates • Pentachlorophenol • Pesticides • Phenols • Phthalate Esters • Polychlorinated biphenyls • RDX • Sodium Acetate • Styrene • Sugar compounds • TNT • Vinyl Chlorides • And more...

The Aranizer removes many indoor air pollutants and allergens including:

- Dust, pollens and other airborne particles
- Smoke, pet, cooking and other common odors
- Residual odors from carpet, furniture, drapes and other fibrous materials- by cleaning deep into the pores of the fibers
- Oxidizes chemical fumes and toxic gases like residual pest control and formaldehyde
- Kills mold, mildew, bacteria, fungi and viruses

OXYGEN: Nature's Purifier

Oxygen exists in the atmosphere as the stable O₂ molecule. Natural energy forces such as lightning and ultra-violet rays from the Sun act to break the bond between the two atoms that make up the stable Oxygen molecule.

When this bond is broken the single Oxygen atoms tend to regroup temporarily as O₃. The unstable O₃ molecule easily combines with pollutants in the air, giving up one Oxygen atom as it returns to its stable state as O₂.

This process is called oxidation. Oxidation is the means by which Nature breaks down pollutants and purifies the environment.

The ARAN™ Phenomenon!

The patented Aran™ generator adds additional energy to this process causing single Oxygen atoms to group into higher forms than O₃. These higher forms of energized Oxygen have more power to oxidize pollutants.

The Aranizer™ activates the Oxygen in the air into O₄, O₅, O₆ etc. ARAN™ is the trade name for these higher forms of Oxygen. When an ARAN™ molecule comes in contact with pollution - the pollutant is quickly oxidized, leaving only neutralized pollutants and stable Oxygen.

The Aranizer SS8 model is suitable for household use. It is portable, so it can be moved from room to room or can be placed in front of the cold air return so that Aran can circulate through the duct system eliminating biological, chemical and dust particulates inside the ducts. As it circulates through the ducts, it will also reach the rooms that your HVAC vents into; thus helping to clean your entire home or office (the conditioned space). It can also be placed in unconditioned areas like the crawl space, attic or basement. On a room to room basis, the SS8 cleans up to 6000 cubic feet—which is approximately a 25' x 30' x 8' high room size.

SS8 unit: \$600.00 (+shipping of about \$12 - \$14 on average)

Warning: *Ozone is a useful tool for breaking down and eliminating biological and even chemical contaminants, but if it is used incorrectly and the human immune system is exposed to it at low levels for long periods of time, it can be toxic and create health problems. The Aranizer should only be used when all occupants (human and animal) are out of the space being cleaned. Clean 1 room at a time by closing the windows and doors while the machine is running. Put a towel under the door to prevent the ozone from seeping into the adjacent room (s). If you start smelling the ozone while it is running in the other room, leave the building until it is done. A 8' x 10' room requires about 3-4 hours of cleaning time. To air the room out, simply open the windows to the outside for about 1 hour or until the smell of the ozone dissipates, then close the windows back up and resume your normal HVAC treatment. If a building or house has mold in the structure (many old houses and buildings do), then the ozonator should be used once every 2 – 4 weeks to maintain the mold count.*

Shelter Ecology, Inc. offers ozone generators for air cleaning in the following way:

Household size units are offered through **Shelter Ecology, Inc.** These units should only be operating when people or animals are not inside the home or office where they are operating. The ozone generating units offered by **Shelter Ecology, Inc.** emit a lesser toxic form of ozone, without the use of Nitrous Oxides, but are higher in concentration so that they really clean more thoroughly and in less time. However, these units should not be misused like so many ozone generators are being misused.

Many companies are offering units that offer a combination of filtration and ozone (or ionization) that emit ozone at low levels. They are making claims that these units can be run all the time, even while people and animals are inhabiting the space. My experience has been that this is a danger to a sensitive, weak or growing immune system.

Ozone in any form can be toxic to an immune system that is suppressed or trying to grow. In my eyes, this is every immune system. Because God organically makes each of us, and ozone is toxic to the biological universe, it must be used very carefully.

Ozone, in my experience, is a great tool for eliminating or reducing mold and other airborne biological particulates common to every home or office. I have been using it for 15 years for my own homes and offices with success.

How do I know it is successful? As a chemical and mold sensitive individual, I cannot live in an environment with either of these contaminants. If I am exposed for hours at a time to such contaminants I get many symptoms that can be debilitating. That is not how I choose to live.

So, I use the ozone generators to control any indoor air contaminants that might be bothersome and it seems to be the only machine that alleviates my symptoms. That is how I know it works. EPA websites and other websites may state that ozone is ineffective at removing mold or killing mold, but my personal experience is that it is effective.

For more information and pricing on the ozone generators available at **Shelter Ecology, Inc.**, please call.

Commonly Asked Questions about:**MOLD REMEDIATION:**

Toxic mold found in homes and buildings is one of the most widely recognized and diagnosed problems of this decade. Many people are waking up to the fact that their health has a direct relationship to the IAQ (Indoor Air Quality) in their homes or offices.

Mold can be remediated. Sometimes it is as easy as removing visible mold and other times it can be as difficult as looking inside the structure for non-visible sources. While Shelter Ecology offers a "do it yourself, practical" approach to more simple mold problems, often, non-visible mold will need to be investigated by a Certified Industrial Hygienist. The simple approach offered by Shelter Ecology, Inc. is designed to help maintain lower levels of airborne biological pollutants in the home or office. It is not designed to eliminate structural mold. It can be used to eliminate visible mold if the indoor air of

the space is climately controlled from the remediation on through heat, air conditioning, dehumidification and ventilation (when applicable in tighter construction).

Mold remedition techniques offered today are controversial. This controversy about the "right versus wrong" approaches to remediation can inhibit an individuals ability to make decisions. Shelter Ecology, Inc. offers the remediation package Cindy Meehan-Patton has designed as a result of her personal experience that this system works for maintaining lowered levels of airborne and visible biological pollutants. It has also worked for remediating residual chemical and other non-biological pollutants trapped in the indoor air quality of homes and buildings.

OZONE GENERATORS:

These machines are perhaps the most controversial in terms of "right versus wrong" for remediation tools. Ozone is a toxic chemical. However, if used properly as a tool to breakdown and eliminate biological pollutants, my experience is that any toxicity to the body can be avoided. This is a personal testimony, and being a chemically sensitive and mold sensitive individual, I know first hand that each environmentally sensitive individual responds to contaminants and toxins differently.

Ozone generators should never be operated while humans or animals are inhabiting the space. The only way I have ever used ozone generators is by setting the timer for an allotted amount of time (depending on the square footage to be cleaned), totally closing off the room- closing all doors and windows and forming a block under doors where it can escape. When the ozonator is done running, I wear a respirator to enter the room to open up all windows, put an exhaust fan in one of the windows, blowing all the residual ozone out. For every 2-3 hours of ozonating, I allow at least 3/4 of an hour of airing out before reinhabiting the space. All this is dependent on the outside air and how quickly the inside air can move out. As a person who suffers with extremely bad headaches if exposed to toxic mold for long periods of time (4-8 hours), I have used ozone as a tool for over 10 years and it is the only tool that truly removes the airborne mold from my space for me. My headaches instantly go away once the source of mold is removed.

I also have created a healthy home for myself, so the mold toxicity I experience is not visible or structural mold. Because I seem to be "hyper" sensitive to mold, if we have 2-4 days of rain or continual high humidity for months on end (which is very common in WNC)- opening and closing the doors continually, and the little bit of air infiltration we get - can allow enough of it in to create a toxic situation for me.