

# Aranizer Air Purification

## The History of ARAN

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In 1950, Nick Trikilis purchased all rights to the HomOzone product line, including the trademark, "HomOzone", and the company was moved from Cincinnati, Ohio to Canton, Ohio. In 1953, Nick incorporated the company under the name of "Aranizer Corporation", and relocated the company to Wooster, Ohio.

Prior to Ozone treatment of water in the United States, the Europeans were purifying water in Paris – before World War II. Since DuPont, Dow Chemical and Monsanto were producing the chemical "Chlorine" for water purification, most of the Ozone Research was conducted by ordinary medical doctors, and they were funded by companies wishing to discourage the use of Ozone for purification purposes. This laid the foundation for governmental intervention for the use of Ozone as a purifying agent.

The Ozone industry continued to progressively expand and become an industry disproving the theory that "Ozone Is A Health Hazard". Many researchers dealing with Ozone began changing the attitudes of scientists on a world-wide level, who were once against the use of Ozone as a purifier, to an attitude that the salvation of the Earth may come from this exceptional Oxygen Polymer.

A patent was granted to Nick Trikilis in 1965, which created the ARAN Generator. This research had resulted in O4, O5, O6, O7, Ox, etc., and was a significant breakthrough in the Air and Water Purification Industry. ARAN was created without splitting the Nitrogen molecule; therefore, no Oxides of Nitrogen were formed by this technology.

Since Ozone is created differently than ARAN, the formation of Oxides of Nitrogen (NO, NO<sub>2</sub> and N<sub>2</sub>O<sub>2</sub>) is most often found in Ozone-producing systems. When these Oxides of Nitrogen combine with water vapor and rise into the upper atmosphere, Acid Rain results from this formation and contributes to the water pollution and leaching of heavy metals into our water systems as they are dissolved by the Acid Rain. It is abundantly clear that Ozone, without the presence of Oxides of Nitrogen, is easily more tolerable and not harmful to human health when found in "acceptable quantities" in our atmosphere. In fact, after a "thunderstorm", we often experience a "fresher, cleaner air" that is very invigorating. This is caused by the formation of Ozone through this gigantic electrical "spark". Yet, Oxides of Nitrogen are also formed, and this is not healthy to human beings. The logic does not follow that Oxygen is harmful to health – however, Oxides of Nitrogen, present in some Ozone-producing equipment, is. The Aranizer Air Purification Units do not produce Oxides of Nitrogen!

Clark Thorp, author of "The Toxicity of Ozone – A Report and Bibliography" was the acting chairman of the Department of Chemistry and Chemical Engineering, Armour Research Foundation of Illinois Institute of Technology in Chicago, when his investigation of Ozone was reported in the Industrial Medicine and Surgery Journal in February of 1950. Thorp is considered to be the "Father of Modern Ozone Research" since he was able to answer the many questions concerning Ozone's toxicity and its effect on human beings. It was his investigation of the Oxides of Nitrogen with Ozone that led the way to clearing Ozone as a potential pollutant. In 1921, Hill and Aeberly published a series of articles reporting on tests concerning the effects of Ozone, chemically, physically, and physiologically. As a result of these tests, a toxic limit for ozone was established at 1.0 parts per million. It was also stated that 20 parts per million with an exposure of two hours might prove fatal to humans.

After noting the work of Clark Thorp, Mr. Hill – realizing that Oxides of Nitrogen had been present in his previous test - decided to re-run his test on an identical basis to determine if pure ozone had higher toxic limits. These later tests showed that pure ozone was definitely **non-toxic in concentrations as high as 50 parts per million**. As a final result of his work, Hill stated:

*"Pure Ozone is not poisonous in any sense of the word as it breaks down in contact with the mucus membrane and oxygen only remains. For this reason, there are no cumulative effects and pure Ozone*

*may be breathed for long periods of time without harm, provided, of course, that immediate irritation of strong concentrations is avoided.”*

Excerpt from “*Reprint from Industrial Medicine and Surgery*”, 19:2, 45-57, February 1950

The US Government, through the FDA and EPA, have set “guidelines” which have made the presence of Ozone acceptable in industry and public areas. However, there has not been even one documented incident related to a death caused by Ozone anywhere in the government’s extensive research! Furthermore, there has not been one incident, one ailment, or one episode of any person suffering from ANY health problem attributed to Ozone in the past 35 years!

In 1992, the American Medical Association published information that states, “*nearly 28% of all cancer of the intestines, and 18% of all cancer of the bladder, was caused by the drinking of Chlorinated Water!*”! And, in 1984, the West Germans Swimming Team refused to swim in the Olympic Pool in Los Angeles because of the chlorinated water system. Yet, again today in the 21<sup>st</sup> Century, Chlorine and Chloramines are the #1 method being used by the United States for cleansing the water! “

Today, more and more companies are producing Ozone Purification Systems in the United States than in any other country in the world. Nick Trikilis patented the ARAN Generator in 1965, and his patent stated that only the Oxygen molecule was separated and reformed in a “new” molecule that was greater than the Ozone molecule. Ozone has three (3) atoms of Oxygen, and is generally formed by either electric spark, or Ultra-Violet Light. In the upper atmosphere, better known as the Ozone Layer, the Ultra-Violet Rays from our Sun create the Ozone that forms the “*protective layer of visible blue air*” which surrounds our Earth. This Ozone Layer is a reflective “*shield*” that absorbs and/or deflects the most harmful Ultra-Violet Rays from the Sun. We measure the thickness of this “*layer*” by using Ultra-Violet Light detectors, which measure the amount of Ultra-Violet Light penetrating the Earth through the Ozone Layer. This penetration, when significantly high, causes people with sensitive skin to burn and potentially can cause melanomas (skin cancers) which are life threatening!

A Japanese physicist, Dr. Uozumi, revealed that, “*Through balanced mathematical and chemical equations, airborne Oxygen, when exposed to dense, high velocity electron plasma (without any heat from electrode sparking), will form into higher atomic groupings like O10. This is caused by alterations in the individual atomic valences of the Oxygen Atom. Once this “Super Oxygen” is released, it very rapidly tries to return to the more stable O2. In its rapid decay from O10 down to O9, O8, O7, O6, O5, O4, O3, and O2, it randomly gives off electrons that encounter other previously unaffected Oxygen molecules and impacts them, giving them some of its secondary free electrons. These Oxygen molecules are then transformed by this process into higher forms – from O9, to O8, to O7, etc., which ion turn, break down into O7, O6, O5, etc., also releasing electrons and creating other higher forms, that now break down and give off electrons, etc....”*

As illustrated by Dr. Uozumi’s studies, ARAN is a process that is self-sustaining and continues to break down and re-group, because of the intense energy required in creating the ARAN molecule. However, Dr. Uozumi is not the only scientist to acknowledge higher allotropic forms of Oxygen, other than Ozone (O3). In 1943, Herman W. Schuette, from St. Louis, Missouri, received a patent for producing “*OctoZone*” (O8, O6, O4), sometimes called “*Heavy Oxygen*”, which he stated could be used in many cases to aid in various medical conditions from Sinusitis to Prostatitis, Gonorrhoea, and Anthrax.

Dr. Manfred Curry, the noted German scientist, discusses “*ARAN*” in his “*BioKlimatik*”, as early as 1946, stating that higher forms of Oxygen, other than O2, can be found in the upper stratosphere. Areas where air is unaffected by pollutants will often have other allotropic forms of oxygen - ranging from Ozone (O3) to heavier Oxygen forms, such as O4, O5, O6, Ox...

The fact that ARAN is really Oxygen, nature’s pure air purifier, and Oxygen is the most important substance is sustaining Human Life, makes one believe that anything that is pure and unpolluted certainly cannot be harmful to the human being. ARAN is similar to the effect of the discharge of a lightning bolt, producing higher allotropic forms of oxygen, which immediately react with the components of air contaminates, hydrocarbons, kills micro-organisms, like bacteria, germs, viruses, fungus, molds, mildew, and the yeast that makes up odors.

## **ARAN Applications for Homes, Apartments, Offices, Buildings**

The Aranizer is great for removing a multitude of indoor pollutants and allergens – from cooking, pet, and smoke odors – to paint fumes and toxic gases. The Aranizer ionizes airborne particles and precipitates (removes) them from the air. It also destroys viruses, bacteria, molds, pollens and fungi, making the indoor environment healthier and safer. The Aranizer Unit is fully portable and can be moved from room-to-room, or house-to-house, conveniently.

### What The Aranizer Does:

- Removes dust, pollen and other particles from the air
- Removes smoke, pet, cooking, and most other odors from the air – 98%
- Removes smoke and other odors from carpets, furniture, drapes, clothing, etc.
- Cleans deep into porous materials to remove odors, bacteria, molds, etc.
- Oxidizes chemical fumes and toxic gases
- Kills bacteria, mold, mildew, and fungi
- Kills viruses – sterilizing the air and surfaces for a cleaner environment

### The Dust Mite Hazard

Dust mites live in your bedding, curtains, carpets, and upholstered furniture. The particles seen floating in a shaft of sunlight include dead mites and their waste products. Their waste products actually provoke allergic reactions.

Dust mites are microscopic bugs that belong to the same class (*Arachnida*) as spiders and ticks – which have 8 legs – not 6, like insects. Unlike some other kinds of mites, house dust mites are NOT parasites of living animals, humans or plants. They feed primarily on dead skin cells regularly shed by humans and animals. Dust mites thrive in places where their primary food source is most likely to be found in lounging areas, such as mattresses, pillows, bedcovers, carpets, upholstered furniture, stuffed toys, clothes, or other fabric items in the home.

Unlike insects such as cockroaches, dust mites are not capable of ingesting water; in order to obtain water, they must absorb it from the air. For this reason, they thrive in humid environments, ranging from 55% to 75% relative humidity. Ideal temperatures for dust mites are between 68 and 77 degrees Fahrenheit. The growth of dust mites can vary on a seasonal basis, or from room to room within a house, depending largely on variations in relative humidity, availability of food sources, and temperature. Dust mites take about one month to develop from an egg into an adult, and have an adult life span of about two to four months. A single adult female may lay up to 100 eggs.

Dust mite waste products contain an allergen -- *a substance that causes an allergic immune reaction* – that, according to the Asthma and Allergy Foundation of America, adversely affects about 20 million Americans. Sensitive individuals become exposed to this allergen when they inhale household dust that contains dust mites and their waste products. Exposure to dust mites can trigger an asthma episode in an asthmatic who is sensitive to the dust mite allergen, while other asthmatics may not be affected by these mites. For persons allergic to dust mite allergen, exposure can cause *rhinitis allergica*, or *bronchial asthma*, and *hay fever*, and is characterized by nasal congestion, itching, and sneezing. In addition, exposure to dust mites can cause children who are predisposed to develop asthma to do so. This predisposition is not fully understood, but appears to depend upon a combination of hereditary and environmental factors.

[CLICK HERE](#) to read the entire article entitled, “*The Dust Mite Hazard*”.

The Aranizer is very cost effective, with low maintenance, offering constant, natural protection. Operating 24 hours a day, in all instances, benefits are continuous and self-renewing. In order to promote and ensure the absolute best conditions possible for clean, fresh air, and a healthier indoor living atmosphere, try an Aranizer, and experience all the wonderful health benefits first hand.



## The Comparison of Ozone [O<sub>3</sub>] to ARAN [O<sub>4</sub>, O<sub>5</sub>, O<sub>6</sub>, O<sub>7</sub>, etc.]

There is an age-old riddle that asks, “What is heavier? A pound of feathers or a pound of iron?” And, strangely enough, the usual response is, “The pound of iron, of course.” However, the fact of the matter is quite obvious – both are equal to the other.

So we now ask, “What is more active? Three Hundred Sixty milligrams (360) of Ozone (O<sub>3</sub>), or Three Hundred Sixty milligrams (360) of ARAN (O<sub>4</sub>, O<sub>5</sub>, O<sub>6</sub>, etc)?” If the question of weight were asked, the answer would be that both have the same weight – however – ARAN is far more active, “if only the O<sub>4</sub> molecule is compared to the O<sub>3</sub> molecule of Ozone.”

The following illustration will best explain why ARAN is far more active than Ozone. Oxygen has a molecular weight of 16. While it is No. 8 of the Periodical Table, the fact that a single atom of Oxygen needs to have two electrons to satisfy its outer shell is acceptable among the scientific community, and has been so since the table was officially recognized by this community. When Ozone (O<sub>3</sub>) breaks down to the diatomic molecule of Oxygen (O<sub>2</sub>), the nascent Oxygen atom (O) is extremely active and combines with another nascent Oxygen (O) atom to form a diatomic molecule of Oxygen (O<sub>2</sub>), or preferably with outside foreign substances, thereby “Oxidizing” this substance and changing that substance’s chemical and physical properties. This is “HOW” the Ozone Layer works in purifying the air in the ionosphere.

ARAN, in its O<sub>4</sub> configuration, may either break down to a diatomic molecule of Oxygen (O<sub>2</sub>), releasing two nascent atoms of Oxygen (O), or under stressful circumstances, explode into FOUR (4) nascent atoms of Oxygen (O) to liberate four times the oxidation potential than an Ozone (O<sub>3</sub>) molecule. The energy required to obtain an ARAN molecule is far greater than that which is usually used to make Ozone (O<sub>3</sub>). And, the making of Ozone more often directly manufactures oxides of Nitrogen (NO, NO<sub>2</sub>, and N<sub>2</sub>O<sub>2</sub>), since both the Nitrogen molecule (N<sub>2</sub>) and the Oxygen molecule (O<sub>2</sub>) are affected by the spark or ultraviolet light that is used to create Ozone. In using common air (air that we breathe) to make Ozone, nascent Oxygen atoms can be combined to make oxides of Nitrogen as well as Ozone. This would diminish the production of Ozone.



ARAN – on the other hand – creates no Oxides of Nitrogen when common air passes through the patented ARAN generator. The nascent Oxygen created not only has more active atoms, but their affinity to combine with each other to form the higher allotropic forms of Oxygen, which are substantially greater than Ozone, is not hindered by nascent Nitrogen atoms since the Nitrogen molecule remains N<sub>2</sub>, and is not impacted by the ARAN generator.

360 milligrams of Ozone creates 120 active nascent Oxygen atoms, while 360 milligrams of ARAN creates 180 active nascent Oxygen atoms more than Ozone – IF the Ozone is created WITHOUT Oxides of Nitrogen in an idealistic situation. To better illustrate this scenario, let’s give each oxygen atom a weight of 1 milligram per atom. Though this is not the Oxygen’s true weight, the illustration needs to be simplified to explain in layperson’s terms - what is usually considered a rather difficult scientific explanation.

360 atoms of Oxygen will create 120 molecules of Ozone (O<sub>3</sub>). When Ozone returns to the diatomic Oxygen (O<sub>2</sub>), it can release only 120 nascent Oxygen atoms (O), which in an optimum situation can combine with alien substances and oxidize (burn) these substances, should these 120 atoms be totally utilized in this process.

ARAN, in its lowest simplest configuration of (O<sub>2</sub>) will only have 90 molecules. Therefore, 360 atoms of Oxygen will create 90 molecules of ARAN. Though there are 25% less molecules of ARAN, the worst case scenario of this molecule returning to diatomic Oxygen (O<sub>2</sub>) state will

release two (2) nascent atoms of Oxygen per molecule, which allows for 180 nascent atoms to combine with alien substances, oxidizing them faster and more effectively than the Ozone.

As ARAN requires a greater energy level in order to create this higher allotropic form of Oxygen, this energy is released when the ARAN begins to oxidize alien substances, adding to the chemical reaction another factor that speed up the chemical process – HEAT!!!

In order for Ozone to be nearly as active as ARAN, Ozone must be made from pure Oxygen, so as not to have Oxides of Nitrogen present. ARAN is obtained from common air. There is no outside expense in creating ARAN, which would be necessary to create Ozone that is free of Oxides of Nitrogen. Additionally, ARAN is more than O4 – it is comprised of O5, O6, O7, O8, O9, O10, Ox, and has the ability to impact regular diatomic molecules of Oxygen and raise their oxidation levels to a much higher level than previously existed.



The Aranizer produces a special, high-level form of Activated Oxygen -- which is the natural enemy of odors, pollutants, and many other harmful substances – that seeks out and destroys pollutants, bacteria, mold spores and pet dander – not only in the air, but on surfaces as well. The Activated Oxygen produced by the Aranizer will naturally disperse throughout any room and begin restoring the indoor environment.

The Aranizer Air Purifier is by far the most advanced and effective technology available today for air purification, pollution control and removal of harmful contaminants in the air. The units are completely safe, effective and affordable, and are available in a wide range of models that cover residential, commercial, and industrial applications.

The Aranizer is specially designed and equipped to:

- Remove dust, pollen, mold and other particles from the air.
- Remove smoke, pet, cooking, and other odors from the air. 98% of organic odors are removed by the Aranizer unit.
- Oxidize chemical fumes and toxic gases.
- Kill molds, mildew, and fungi.
- Kill many viruses and bacteria in the air and on surfaces for a cleaner, healthier environment.



## THE ARAN MONITOR AND CONTROLLER



**The AM-C1** is a compact tabletop, or wall-mounted, ARAN monitor and control unit. It can be equipped with sensors for monitoring concentrations of .01 to .1 PPM, .1 to 1.0 PPM or 1.0 to 10 PPM. Dimensions: 5" W x 5-1/4" D x 1-1/2" H.

**The AM-C1** operates on 120VAC. It can be equipped with any of the above sensors (.01 to .1 PPM is standard). It has adjustable set point and LED status indicators that show the condition of the monitor at all times. A front panel controlled Sona-Alert feature sounds a loud beep when the set point is exceeded. The unit automatically resets when the Aran level falls below set point concentrations, or when the unit is turned on and off again. An external Aranizer unit can be plugged into the AM-1C outlet and directly controlled. Units up to 250 Watts will be turned on and off, automatically maintaining a constant set point level. Specify sensor when ordering.



The **NS-Series Aranizers™** use a case design which protects the internal electrical components from oxidation wear or contamination. They are our premium line of air purifiers, and are ideal for any home, office, business, or commercial application.

MODEL	WEIGHT	UNIT SIZE	OUTPUT CFM/HR	OUTPUT MG/HR	WATTS	LIGHT	AVERAGE	HEAVY
NS-3	9	11.5"L x 5.5"W x 7"H	391	1295	12	432	216	108
NS-5	9	""	785	3601	20	896	448	224
NS-6	9	""	1262	4180	25	1440	720	360
NS-8	9	""	2805	9288	30	3072	1536	758
NS-10	9	""	4208	13932	50	4608	2304	1152

Model	Retail Price
NS-3:	\$415.00
NS-5:	\$525.00
NS-6:	\$625.00
NS-8:	\$740.00
NS-10:	\$965.00



The **SS-Series Aranizers** are very affordable, yet very powerful. The affordable price has made them our most popular air purifiers. The SS Series are ideally suited to use in small to large size rooms with mild to strong pollution problems. They are perfect for Basements, Garages, Storage Rooms, Attics, Beauty Salons, Bars, Bingo Halls, Pet Stores, Offices, Restaurants, Waiting Rooms, etc.

## The Aranizer SS-Series Air Purifiers

### Model / Retail

SS-1: \$200.00

SS-3X: \$300.00

SS-4X: \$375.00

SS-6: \$475.00

SS-8: \$575.00

SS-10: \$850.00

MODEL	WEIGHT	UNIT SIZE	OUTPUT CFM/hr	OUTPUT CFM/hr	WATTS	LIGHT	AVERAGE	HEAVY
SS-1	5	7.25"L x 4.25"W x 2.25"H	391	1295	12	432	216	108
SS-3X	7	9.25"L x 4.25"W x 3.625"H	391	1295	12	432	216	108
SS-4X	7	""	782	2590	15	816	408	204
SS-6	11	11.5"L x 6.5"W x 4.5"H	1262	4180	25	1440	720	360
SS-8	11	""	2805	9288	30	3072	1536	758
SS-10	11	""	4208	13932	50	4608	2304	1152



**The MARS-16** is the newest Commercial – Industrial Aranizer in the ARAN AQUA Air Purification Product Line. It is lightweight and portable – only 38 pounds per unit – and comes with a stainless steel carry handle attached to its top, and is inexpensive to operate. The patented ARAN generators provide the necessary power to deliver ARAN air in sufficient quantities to meet the needs of every Mold/Fungi Remediation requirement. The MARS-16 is ideal for Fire Jobs, Basement remediation, Bingo Halls, Bars/Nightclubs, and Apartment Complexes (cleaning, purifying, and removing odors from apartments between tenants).

Capacity: 9,000 Sq. Ft. – Unit Size: 19"L x 8.5"W x 14"H -- Retail Price: \$2,795.00

- Oxidizes odors produced by smoke, pets, paint, glue, and other manufacturing processes and materials.
- Oxidizes chemical fumes and toxic gases.
- Kills mold, mildew and fungi
- Kills bacteria and viruses in the air.
- Removes dust and other particulates from the air.
- Removes ethylene gases from cold storage units.

## ARAN-Jector Water Purification



The ARAN-Jector is a powerful water purifier capable of destroying pollutants and bacteria in water. It is important that you have a basic understanding of how the ARAN-Jector operates so you will know how to use it to obtain the best results. The ARAN-Jector energizes the Oxygen in the air and pumps it into water through the ARAN Infuser. Energized Oxygen disbursed in water is the natural enemy of bacteria, fungi, pollutants and many other harmful and undesirable substances.

Nature's phenomenon of purifying the air generally transpires during a thunderstorm. The incredible buildup of energy before a lightning strike charges the Oxygen in the air. The ARAN-Jector also produces these highly charged allotropes of Oxygen in its corona generator. The charged Oxygen reacts with contaminants in water and destroys them.

**Retail Price: \$895.00**

### **Common ARAN-Jector Applications**

- Water Purification by the Cup, Glass, or 5 gallon capacity, etc.
- Whirl Pools
- Bath Tub
- Saunas
- Steam Cabinets
- Washing fruits and vegetables to kill molds, fungi, or to clean off pesticides
- Purification of closed stud wall cavities
- Purifying children's toys and pre-rinse play clothes before washing
- Killing mold and clearing odors from musty cabinets and closets.



. . . for Pricing and Ordering information.