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## pH<sup>3</sup> Ocean Mist Aerosol Air Cleaning Method – Ultrasonics

*What if we relooked at the air that we live within and considered it to be water, water with a high concentration of air rather than air with a high concentration of humidity.*

*The environment if perfect would supply us with oxygen, hydration, and the salt we need for perfect balance just as if we reverted backwards to the salty seas. There would be no dust, no allergens, no particulate aerosols of any kind suspended in the environment.*

*But how could we possibly produce or control this environment?*

For a change in conversation, let us say there is no more Covid-19, and all we are talking about is everyday typical life again. Is there still a use for pH<sup>3</sup> Ocean Mist?

The answer is yes, pH<sup>3</sup> Ocean Mist was not developed for Covid-19 hysteria, pH<sup>3</sup> Ocean Mist already existed and was being used professionally for years. pH<sup>3</sup> Ocean Mist just happens to be the best solution for producing a clean environment Covid-19 or other.

Most people do not realize how dirty the air is within their controlled space/environment, office, or home. There are everyday indicators of the air quality you can see, dirty ceiling fans, dirty HVAC supply and or return grilles, dirty HVAC filters, regular required cleaning of HVAC duct work and of course dust that endlessly settles on surfaces.

Most people think this is just the way it is, well no its not. This is your indication your environment is overloaded with particulates of all kinds. You may not be able to see them, but they bind together and collect in these places ultimately reviling to you they are there.

Some people, especially with environmental respiratory conditions such as allergies and or allergy related asthma spend thousands of dollars on high end filtration equipment trying to ease their suffering, but it never eliminates it, why?

The equipment used only cleans the air that passes through the operation of the equipment and only to a specific level of efficiency. If the equipment were perfect, the equipment would not need service or cleanings as the particulates would not pass through them, but they do.

Since they are not 100% efficient the particulates are able to pass by the filtration system and contaminate the equipment as well. With HVAC systems it is recommended to get the duct work cleaned regularly as the typical HVAC return filters do little more than catch exceptionally large particles.

When one cleans a space, whether dusting or other, why does the dust again start to settle hours after? You never really clean it up, you put a lot of the debris back into the air while trying to clean it. Professionals can come in and do a better job but still the space soon starts to get dirty or dusty again. So, what do we do?

We must look at cleaning from a different view. By simply cleaning the surfaces of an environment you are only putting a Band-Aid on the problem. Sure, you're removing some of the debris but your doing nothing for the overall problem. If you want to keep a clean environment 1<sup>st</sup> you must clean the air, the air is what is holding the contamination no matter what it is. The particulates are ridiculously small, and they are loaded in the environment. The older the space the more they are set in. A new space always smells fresh and new, because its not contaminated with particulates accumulated over years and built up to maximum concentration.

Cleaning the air is a subject in itself. The most expensive filtration systems are not efficient although "better than nothing". The amount of equipment and the protocol to have a "clean room" is not reasonable for everyday life and use. Does this mean give up? Heck no! Time to learn a new way to look at how you manage these spaces.

Cleaning the aerosol particulates out of a controlled environment is possible in an efficient and cost-effective method. To clean bad aerosol particulates, you need good aerosol particulates. Good guys vs. bad guys methods. Now the million-dollar question, what can you use as an aerosol particulate to clean the air in a space occupied by humans?

The obvious answer is pH3 Ocean Mist, why, is where it gets interesting. It is really very simple once you understand the relationship of the combined components used.

1<sup>st</sup> And foremost the combined components can not be toxic or pose any human health hazards, this narrows the field down considerably.

2<sup>nd</sup> The components must have the ability to be inhaled by humans with out any respiratory risks. This again reduces the field of considerations.

3<sup>rd</sup> The components must have a mode of action to bind particulates of all kinds cleaning the environment effectively.

4<sup>th</sup> The system must be cost effective and affordable to everyone not just a lucky few, well-funded operations.

With these simple rules we can create a system, compatible and effective, changing the environment we live in. We can eliminate a lot of issues related to air quality and people's sensitivity to the contamination of the particulates present. Just think how much money and time that can save.

Prescription medications taken are expensive, the Doctor to prescribe the medication is expensive, time lost from work is expensive to both the individual and the operation, and time lost due to suffering is never fun. When combined the issue of air quality becomes awfully expensive. But what if it did not have to be? What if you can change it and "stop the madness"?

It is true, this situation is a situation of your own doing, only you can correct it. You have total control over it, you just need the correct information on how to solve this amazingly easy problem. It is just a matter of thoroughly cleaning and using the right equipment for the job.

Now the interesting part, how you clean, how you know and chose what is best for cleaning. 1<sup>st</sup> we have to take a step backwards to understand how to move forwards.

Taking religion and putting it to the side for a minute and looking at the problem from a scientific point of view the situation can be scientifically understood.

With the scientific idea that all life began in the salty seas and then evolved onto the shoreline's, we can understand why our bodies are made of water and balanced by NaCl salt.

We can understand why we maintain a pH balance of around 7.4 pH. This balance is maintained by drinking water and eating NaCl/Sodium Chloride "table salt".

Originally we got our oxygen from the water, after moving onshore we get our oxygen from the air we breathe. There is no disputing we need air (*oxygen*), water (*hydration*) and salt (*pH balance and other things like naturally accruing organochlorine species*). These 3 components are a must, without the proper balance we will suffer and die.

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*But how could we possibly produce or control this environment?*

We must have a way to combine the water, salt, and air in a compatible method of application and suspend it as an aerosol to control the space eliminating contaminants. This sounds simple enough and believe it or not it is.

When we create this environment, it is not possible for particulate contamination to saturate the air or suspend in the air. We now control the air in the space, we control what is suspended in the aerosol and what is removed from the environment effectively and efficiently. 100% of the space is controlled, there is no "unit" to pass the air through, there is no "filtration system" that must catch it, we threw all the antiquated inefficient systems in the garbage, now we do what works in 100% of the space with 100% of the contamination, 100% of the time.

Enter Advanced High Amp Dual Polarity Electrochemistry Neutral Ionics Acidulous Technology, coupled together with Ultrasonic Humidifier Aerosol delivery. Sounds impressive but how, what, and why?

Acidulous is a neutral ionic solution. Without all the technical details and specific manufacturing methods of a professional product, let me explain how the combined components work together to solve the opportunity of producing a scientifically clean environment, chemical free and with no risk or hazards of any kind.

Acidulous, specifically as pH<sup>3</sup> Ocean Mist by Palm Beach Springs Water Company combines water, salt, and electricity to produce a solution compatible within the context of this conversation. pH<sup>3</sup> Ocean Mist is a neutral ionic solution. A neutral ion/electrolyte suspended in a single molecule with an applied high electrical charge.

Most people have heard of saltwater systems for swimming pools. This is a way to eliminate the chemical methods of maintaining pools and therefore reducing the risk of the chemicals in the use. pH<sup>3</sup> Ocean Mist is not the same solution although the objective is the same, produce a neutral compatible way to maintain an environment of water where humans are present.

In the same idea PBSWC through acidulous technologies created pH<sup>3</sup> Ocean Mist, a solution that can be introduced into an air environment that humans are sitting in, a sort of swimming pool consisting of less water concentration and more air concentration in this context.

This context has a bit of a different twist though as you do not breathe the swimming pool water. The pH<sup>3</sup> Ocean Mist is manufactured using a more balanced method and system than a saltwater swimming pool system. Both technologies are electrochemistry, the swimming pool generator is a single polarity low amp nano generator engineered for swimming pool maintenance, the acidulous technology is an advanced high amp dual polarity ionic generator for restructuring aquatic solutions as nontoxic alternatives to chemical equals.

For all the reasons above NaCl salt is used as an electrolyte. Since NaCl is essential to human life NaCl can not be considered toxic to humans in any reasonable way. Salt is a part of our life, its in the air we breathe, the water we drink and most of the foods we eat. It is undisputed in proper moderation salt is 100% human compatible.

NaCl is neutral as well. NaCl is basic and acidic. NaCl does not have a pH as it is a salt. It is said if NaCl had a pH it would be neutral 7. To process and balance NaCl as our human organic generators (*bodies*) do, we must use dual polarity to effectively process both sides of the salt.

Using Advanced High Amp Dual Polarity Electrochemistry, we are applying a high amp charge to both the basic and acidic ions. We are matching ions 1 to 1 applying a charge so strong it bonds the 2 ions together like to electromagnets of opposite polarity sticking together. Once bonded they now form a single neutral ion neither basic nor acidic.

Once all the ions in the volume are bonded neutral they all hold the same polarity and can no longer cluster together, they repel each other like trying to put to magnets of the same polarity together. This is "Ionics" single molecule of water holding a single ion with a high electrical charge. This electrical charge creates a high energy in the water volume called Ionic Product. Ionic Product is the mathematical equation of applying energy to water.

This process neutralizes and stabilizes the NaCl electrolyte within the solution. The single neutral NaCl ion is now suspended in the water molecule. In the process of advanced electrochemistry, just as our human organic systems, the chloride is neutralized producing the natural accruing neutral organochlorine, measurable in the solution, levels determined by the total NaCl concentration and energy applied.

This organo *Chlorine* species is not recognized as low pH HOCl (*hypochlorous acid*) or High pH OCl- (*hypochlorite*). It is a neutral range at 7.5 (+1/-1) pH matched to the same in our systems (*same as swimming pool saltwater system & the oceans*). As a comparison, this organo *Chlorine* species would be considered 50% HOCl (*acidic*) and 50% OCl- (*basic*) although by official EPA Pesticide definitions, pH<sup>3</sup> Ocean Mist is neither OCl- nor HOCl.

This species range is typical of our own human naturally accruing organochlorine produced, therefore cannot be toxic, hazardous or pose any risk to humans whatsoever. This same organochlorine flows through our blood manufactured by drinking water and eating salt processed through our organic dual polarity system, it is just a bit weaker as our bodies cannot apply 10,000mA of power for an instantaneous balance like acidulous technologies.

As acidulous generators process organo *Chlorine* in a similar way to our human bodies process of NaCl and water, and the components work in a typical method to those in our human system, it is reasonable to say the ions/electrolytes pose no respiratory or inhalation risks. The concentration is made up simply of a single water molecule and a neutralized NaCl ion/electrolyte at 0.0001 micron or smaller. The total salt concentration is typical of a sports or electrolyte beverage.

Using Acidulous technology to process water and adding an NaCl electrolyte, producing a neutral solution of highly charged ions/electrolytes, we now have the proper solution to suspend as an aerosol cleaner. But what does this do for cleaning? How are we going to suspend this solution as an aerosol?

We now have an neutral, 6.45 ionic, NaCl solution, 100% compatible with human beings. The solution is trapped in a volume, we need a device to release the ions/electrolytes in single molecule distribution, without negatively effecting the ions/electrolytes applied charge, without evaporating the water molecules, or effecting the naturally accruing organo *Chlorine* species created.

We hear about all sorts of "cleaning systems" and "EPA regtestered list N sanitizing solutions" that are being marketed and used currently. None of these can be utilized as an ultrasonic aerosol, the solutions applied are toxic in droplets and have respiratory cautions, no way you can release in any kind of aerosol. None of the tools they use produce an aerosol, they only distribute droplets to keep them from becoming an aerosol. They require PPE and wipe downs after the application, only after the room is empty for hours giving the toxins time to vapor

off and a through wipe down of residues can the room be used again. Humans can not sit in the room while it is being “cleaned/sanitized”, I say while it is being contaminated! They are merely exchanging 1 hazard for another!

Distributed droplets are not efficient; they are not an optimized distribution of a solution. Droplets are clusters of components used to soak an area in the hope it will increase the effectiveness of the method or solution used. They cause considerable damage to the contents of the area from not only “water damage” but also oxidation and/or corrosion of metals and/or damage to surfaces/coatings.

None of these inadequate application methods do anything for the air or air quality, as a matter of fact they pollute the air with toxic chemical vapors making the problem worse by adding more dangerous hazards.

After the trial and error of R&D during Covid-19, due to the unavailability of application devices, a question was asked by a customer one day. We were checking out some different application tools in her restaurant. None of the tools really captured the objective we were looking for. While using a thermal mosquito fogger she asked, why can't we just use a humidifier? I replied, I do not know, I never tried a humidifier. We are here in Florida, it is always humid, we do not typically use humidifiers, so the idea was new.

I researched different systems and came across the “ultrasonic cool mist humidifiers”. I thought to myself, this sounds better than a thermal as thermal promotes evaporation, were looking to decrease evaporation and stabilize the water molecule. So ultrasonic distribution for pH<sup>3</sup> Ocean Mist was conceived and a new understanding of distribution was borne.

As it turns out the ultrasonic soundwaves enhance the frequency of the neutral ions electroconductivity and increases its potential of single molecule single ion distribution with out decreasing the ionic product or destabilizing the naturally accruing neutral organo *Chlorine* species. We have what can be described accurately as the perfect distribution system for an ionic solution as an aerosol air cleaner.

pH<sup>3</sup> Ocean Mist plays an important overall role, besides providing an effective compatible nontoxic distribution solution. The ions in pH<sup>3</sup> Ocean Mist hold a high electrical charge. This enables them to gather and bind particulates together, increasing the size and mass overall. When the sizing and mass becomes too large, they are either picked up by the typical HVAC filtration system, or drop out to the surfaces in the space, either way they are out of the air you're breathing.

Now we have a perfect human compatible ionic NaCl solution. A perfect ultrasonic aerosol distribution system. We have a single molecule - single ion, highly charged aerosol environment, good particulates collecting and binding bad particulates, cleaning the air and surfaces of the entire space, and enhanced with naturally accruing neutral organo *Chlorine* species as a bonus.

We have highly charged repelling ions/electrolytes, pushing each other into the smallest of porous surfaces. The extraordinary small 0.0001-micron sizing of the ions with their high electrical charge perfected for the deepest cleaning available by any standard. We have a stabilized naturally accruing neutral organo *Chlorine* species suspended and stabilized in the molecule lending an extra hand.

We have an inexpensive ultrasonic humidifier device and an inexpensive volume of ionic organo *Chlorine* solution, a complete system providing a continuous infinite supply of “good guy particulates” to combat and remove a very limited supply of “bad guy particulates” in the environment. Its all a matter of numbers. If you have 10 knuckle heads causing trouble and you send 1000 good guys to take care of the problem, the problem is no problem, very easy task.

Through my own experience as well as other people's testimonials, I can confidently say, when the environment is clean, it stays clean! When a new person or business operation starts the program, the area gets dirty very quickly with settlement. This is the ions/electrolytes cleaning the air and dropping all the particulates out to the surfaces.

Once the air is cleaned this no longer happens. The room stays clean no dust! The surfaces stay clean, the ceiling fans stay clean, the air filters stay clean and so on. You're removing the dirt from the environment not just moving it around. Regular cleaning keeps the air clean, keeps the room clean and keeps the environment clean.

The ions/electrolytes with the collected particulates that fall to the surfaces are still powerful, they are not neutralized, the particulate is just too heavy to suspend as an aerosol any longer. You can wipe up the debris with dry cloth as there is no "dust" now, all the particulates are bound together magnetically and not just laying on top of each other. When you wipe it up they all come up in the cloth. I always suggest a little spray of pH<sup>3</sup> Ocean Mist on the cloth or the surface being cleaned.

As prolonged usage continues you will find the room stays clean. You are not just swishing dirt around, the dust you pick up you are removing from the environment. The best part is your no longer breathing it! This is where I become the best friend of anyone who has allergies and or environmental respiratory difficulties.

Allergies, asthma, and other environmental respiratory illness sufferers claim tremendous relief of daily symptoms. Everything that bothers them comes from particulates in the air, the particulates are what they are breathing. Eliminate the bad particulates and eliminate the triggers, its easy mathematics.

If in a gymnasium of any kind hydration is always an issue but so is salt loss. pH<sup>3</sup> Ocean Mist donates both perfectly balanced hydration with perfectly balanced salt for immediate absorption even when breathing it.

The smell of a gym... we all know what that is, bacteria  
! pH<sup>3</sup> Ocean Mist over prolonged usage will also eliminate this, the cause of course is the odor causing bacteria and lucky enough the EPA allows me to say I can clean that. The rules are very strict as to what I can say and what I can not say.

People who suffer from medical dehydration due to circumstances where they cannot drink, or their system is clogged with pharmaceuticals will benefit from the hydration supplied. We have NaCl levels from 40 ppm (*pH<sup>3</sup> Esperer.H2O an alternate acidulous ultrasonic aerosol for humidification, made from RO purified and 50ppm TDS NaCl added back in for balanced Neutral Ionics*) to pH<sup>3</sup> Ocean Mist at less than 5000 ppm.

We also have the capability of producing from KCl (*potassium chloride*) for those who are too sensitive to NaCl (*sodium chloride*).

You can hydrate just from sitting in the aerosol and breathing the water molecules. Clean fresh air saturated by clean balanced neutral H<sub>2</sub>O and enhanced with balanced pure NaCl protected by a naturally accruing neutral NaCl organo *Chlorine* species.

See that was not so hard!

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Well, we did it and now you know how.

Paul E. Seaver  
President – Palm Beach Springs Water Company