



Air Purification Using Bi-Polar Ionization

Creates a Healthier Indoor Environment and Reduces Operating Costs

2019 Midwest Facility Masters Conference | November 4, 2019

Who is AtmosAir?

AtmosAir is committed to improving indoor air quality and energy efficiency in buildings & facilities worldwide through its innovative AtmosAir Solutions air treatment and monitoring system.

- Established as an air testing company in 2004 called Clean Air Group (CAG).
- CAG branded patented Bi-Polar Ionization (BPI) air treatment technology as AtmosAir in 2008.
- 50M+ Square Ft Installed.
- 7,500+ Installed systems.
- Partnered with a multi-billion contract manufacturer.
- Granted 9 technology patents and 2 pending patents.



Experience

These companies have all incorporated AtmosAir BPI & air monitoring

Key Markets:

- Schools (K-12)
- Healthcare
- Colleges & Universities
- Hospitality
- Sports
- Airports
- Commercial Office Buildings
- Convention Centers
- Grocery Stores
- Government
- Performing Arts



What is AtmosAir?

AtmosAir™ is air purification and monitoring technology that actively contributes to better health by restoring indoor air to its natural state where no pollution or contaminants exist — while reducing energy use and emissions in the process.

AtmosAir™ Bi-Polar Ionization technology is one of the only indoor air quality solutions that **actively and continuously reduces VOCs, bacteria, dust particles, mold spores, and odors** in the space where you breathe. Suitable for schools, commercial buildings and residential homes, AtmosAir™ technology gives you the same healthy air found near high mountain elevations.



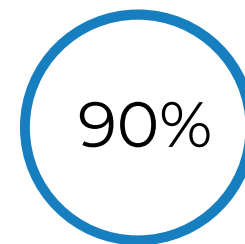
Why is IAQ important?

The US Environmental Protection Agency named indoor air quality as one of the **top 5 health threats in the U.S.** That's because we are spending 90% of our time indoors. As buildings become more energy efficient, they're less likely to circulate fresh, clean air and more likely to accumulate unsafe levels of particles, bacteria, mold spores and volatile organic compounds (VOCs).



**higher concentration
of pollutants indoors**

Source: EPA



**of our time is
spent indoors**

Source: EPA

“50% of all illness
is caused by indoor
air pollution.”



“Indoor air quality is one of the
top five most urgent
environmental risks to public
health.”



Air Filtration to Manage Indoor Air Quality (IAQ)

Media Filters:

- Increase surface area or thickness- increased efficiency
- Not effective on VOCs, minimal effect on microorganisms
- Higher efficiency filters increase energy costs
- Contaminants generated in a space not filtered



Carbon/Sorbent Filtration:

- Absorbs VOCs and odors
- Minimal effect on particles
- Airflow restrictive
- Waste disposal can be regulated
- Expensive to maintain



Electronic Air Cleaners to Manage IAQ

Ultra-Violet Light (UV):

- Sterilizes microorganisms that pass thru light field
- Dependent exposure time
- Does not effect odors, VOCs or particulates

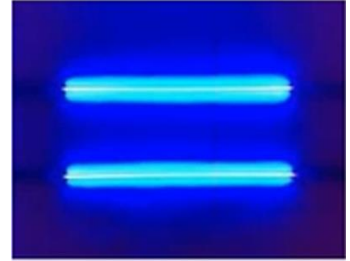
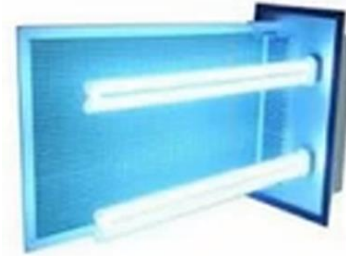


Photo Catalytic Oxidation (PCO):

- Sterilizes microorganisms
- Dependent on exposure time
- Does not effect odors, VOCs or particulates



Electronic Air Cleaners:

- Attract and collect particles
- Must be cleaned, less effective with particle capture
- No effect on odors, VOCs or microorganisms



What do ions do?



AGGLOMERATION

Snowflakes are a product of ice crystal agglomeration. Ice crystals build up, become heavier than air, and precipitate to the ground. This simple principle applies to dust agglomeration via air ions.



STERILIZATION

Bacteria, like E. Coli shown above, are neutralized when air ions pull hydrogen molecules away from the cell wall, dehydrating the cell and hindering its ability to interact with other organisms.

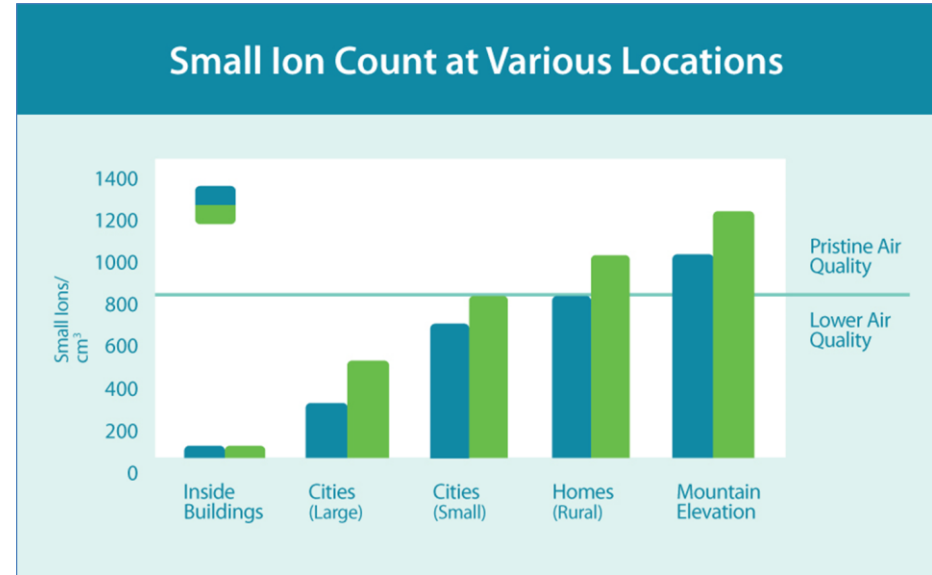


OXIDATION

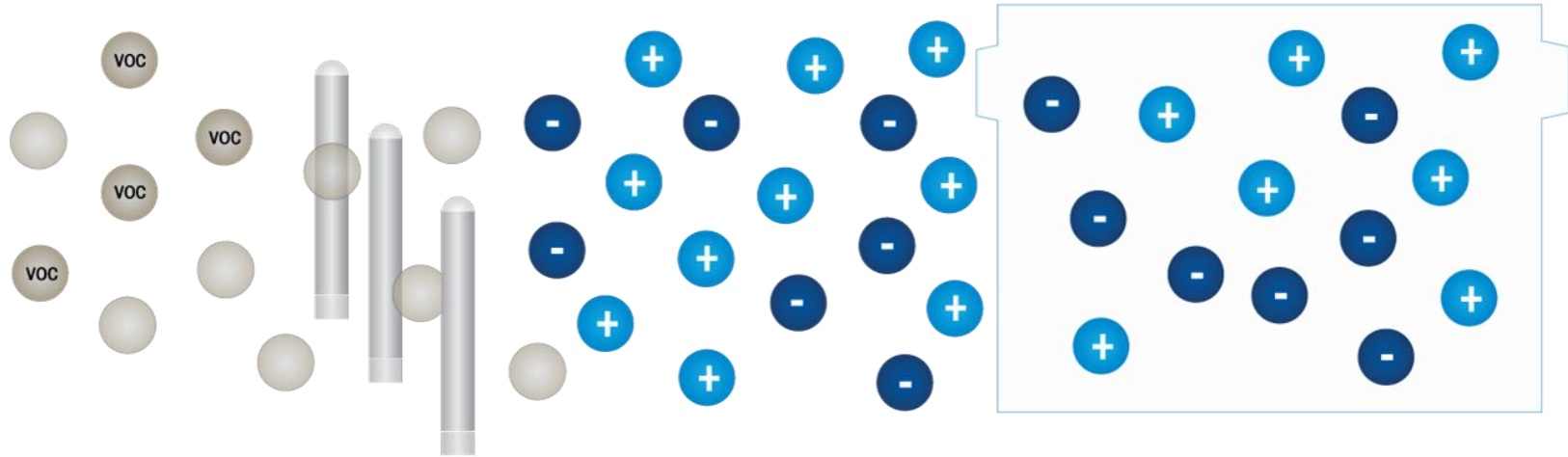
The iconic green patina on the Statue of Liberty is not original. It formed over time from the same chemical process that breaks down VOCs and other noxious gases in the atmosphere.

Ion Concentrations

- Pristine environments there are naturally higher ion levels
- Ion – An atom or molecule with a net electric charge due to the loss or gain of one or more electrons.
- Bi-Polar Ion systems are designed to increase air ions as would be found in a natural state where no pollution exists.
- Ions help improve many various elements of indoor and outdoor air quality (PM, VOCs, virus).



How AtmosAir Bi-Polar Ionization (BPI) Works



Airflow passes through our patented AtmosAir bipolar ionization tube. The tube energizes the air to form bipolar — positive and negative — air ions.

The airflow distributes the energized ions into all of the spaces served by the duct system in an in-duct installation, or into the applicable space if a standalone unit is used.

The ions are attracted to, and attach themselves to particulates and contaminants increasing their mass.

The contaminants fall to the floor - out of breathing range - or they are captured in standard filtration.

Positive Results from BPI

- **Reduced dust and mold particles.** Bipolar ions that bond with contaminants gain size and mass and drop to the floor, or return to the filter, making them easily cleaned from the air we breathe.
- **Reduced odors.** Bipolar ions break down odors at their source and eliminate them — no masking or diluting!
- **Reduced VOCs (Volatile Organic Compounds).** Bipolar ions break down toxic gasses and compounds from dangerous chemicals such as cleaning products, pesticides, paints, solvents, mold, mildew and more.
- **Reduced bacteria and viruses.** Because bipolar ions negatively affect the DNA of bacteria and viruses, you'll protect your space's inhabitants from illness and disease.
- **Energy conservation.** AtmosAir systems makes managing IAQ less expensive. Spend less on heating and cooling ventilated air - recycle conditioned, purified air instead.

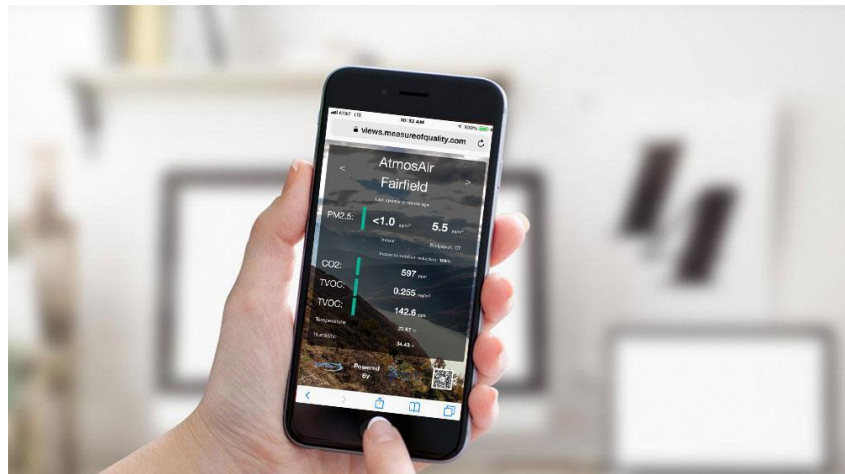
Indoor Air Quality Monitoring

AtmosAware™ measures and validates indoor air quality on a real time and historical basis.

The AtmosAware™ Indoor Air Quality (IAQ) monitoring system measures the following concentrations:

- Carbon Dioxide (CO2)
- Particulate Matter 2.5 (PM2.5)
- Total Volatile Organic Compounds (TVOC)
- Temperature
- Relative Humidity

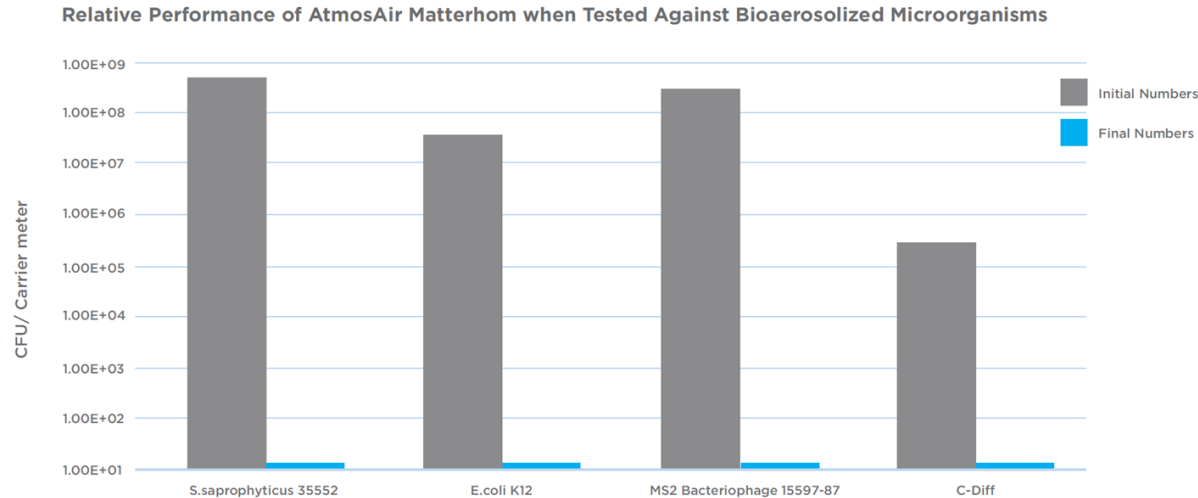
Check current measurements or analyze historical levels to detect important changes.



- See real time and historical parameters for your indoor environmental quality on our web platform and app
- Analyze data rapidly online (included at the sensor, in app, or at PC)
- Review current measurements and environmental parameter charts while traveling with our mobile app,

Laboratory Test Results on Microorganisms

99% Proven Microbial & Pathogen Reduction

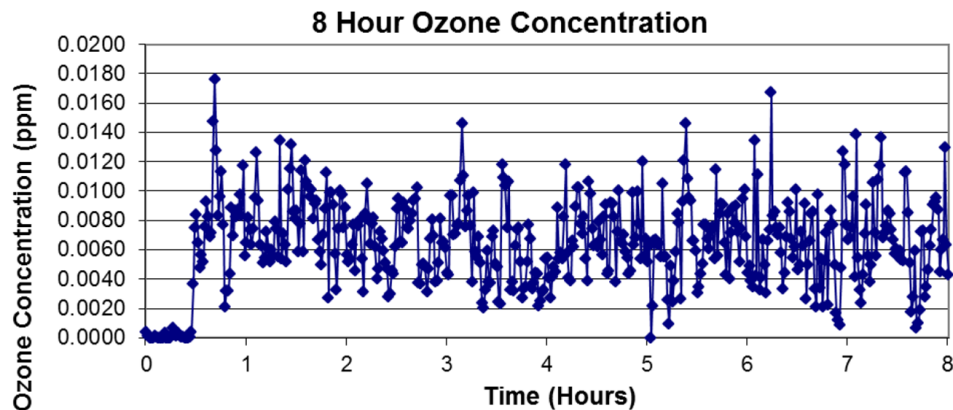


Staphylococcus Saprophyticus, Escherichia coli, MS2 Bacteriophage and Clostridium Difficile were aerosolized in a test chamber and a control group and test group were studied. All four organisms showed a 99% reduction at the end of exposure to AtmosAir bi-polar ions when compared to a control group.

Source: AntiMicrobial Test Labs, Round Rock, TX

- AtmosAir Bi-Polar Ionization can be both preventative and curative.
- Less pathogens = healthier environment, reduced absenteeism

AtmosAir BPI Compliance with UL 867 Sec 40



MAXIMUM OZONE TEST RESULTS							
	UL Ref.	Pass/Fail	Mean	Min	Max	Delta	Units
Background C(t) O3:	40.4.3	PASS	0.001	0.000	0.001	0.001	[ppm]
Test 1min C(t) O3:	40.1.2	PASS	0.005	0.000	0.018	0.018	[ppm]
Test 5min C(t) O3:	40.1.2	PASS	0.005	0.000	0.013	0.013	[ppm]
Chamber Temperature:	40.4.2	PASS	77	76	78	1	[degF]
Chamber Humidity:	40.4.2	PASS	50	49	51	1	[%RH]
Chamber Static Pressure:	-	PASS	0.02	0.01	0.04	0.03	["H2O]
Chamber Supply Air Flow:	-	-	20	19	20	0	[SCFM]
Required to Test 2nd Sample:	40.1.1	NO					
Test Duration:	*40.4.6	24 hours					

UUT PHOTOGRAPHS: MAX OZONE TEST



- AtmosAir BPI complies with the requirements of UL Standard 867 Section 40

Laboratory Test Results on VOCs

Table 5 Test2 Reduction rate after turning on the air cleaner

Time from turn on AC (hr)	hexane	2-butanone	iso-butanol	toluene	tetrachloroethylene	hexanal	ethylbenzene	decane
0.000	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
0.225	87.4%	84.3%	68.6%	87.1%	88.7%	79.6%	89.4%	93.7%
1.008	63.9%	63.8%	32.1%	57.4%	61.1%	36.9%	58.9%	65.6%
2.008	43.6%	36.6%	20.9%	31.9%	40.0%	12.9%	34.0%	36.3%
4.075	21.1%	25.7%	9.4%	11.2%	18.8%	5.1%	11.0%	12.4%

Conclusions

Test results showed good regression and repeatability between the two duplicate tests. Test indicated that the air cleaners reduced the concentrations in the chamber air (57.12 m³ in volume) for Hexane by 94.6%, 2-Butanone by 91.1%, Iso-butanol by 97.1%, Toluene by 98%, Tetrachloroethylene by 94.5%, Hexanal by 97.5%, Ethylbenze by 96.3% and Decane by 96.4% over the 6 hours pull-down test period. These corresponded to the equivalent clean air delivery rate (CADR) for the two units tested to range from 12 cfm to 22.5 cfm, depending of the VOCs.



Case Study: Johns Hopkins Hospital



Park Building @ JHH
Baltimore, MD

SITUATION

- 60k square foot lab space with indoor air quality issues.
- JHH had been receiving air quality complaints from employees.
- (4) AtmosAir 508FC systems were installed in 60k AHU serving facility.
- Continuous air quality monitoring installed.
- Graywolf detailed air sampling completed.
- VOCs, particles, and perceptual air quality improved with AtmosAir installed.

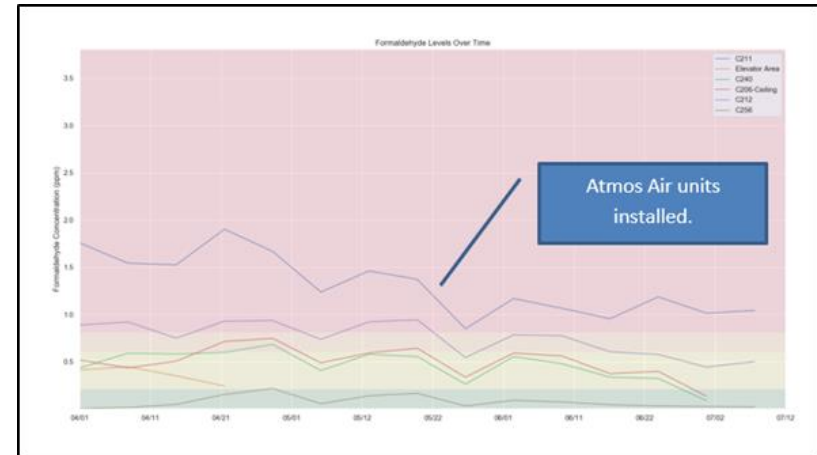
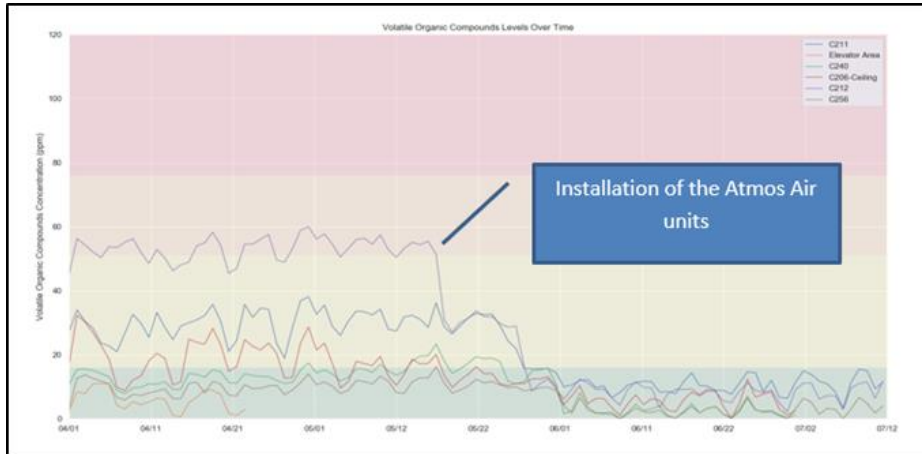
Element	TVOC	PM .03	PM .05	PM 1	PM 2.5	PM 5	PM 10
Without AtmosAir	183	N/A	1.31	1.70	2.10	2.23	2.51
With AtmosAir	94	N/A	.887	1.18	1.43	1.49	1.65
% Difference	-48%	N/A	-33%	-30%	-31%	-33%	-34%



Case Study: HCA



HCA Lewis Gale Medical Center
Virginia



"At the time of the installation the carbon bed had been tested and the carbon was found to be completely spent. This indicated the protection and reduction of the VOC's was solely controlled by the AtmosAir units. Based on my review, the data supports that the AtmosAir units controlled the space and kept the gases below the threshold limits without support of the carbon."

-Mike McDaniel

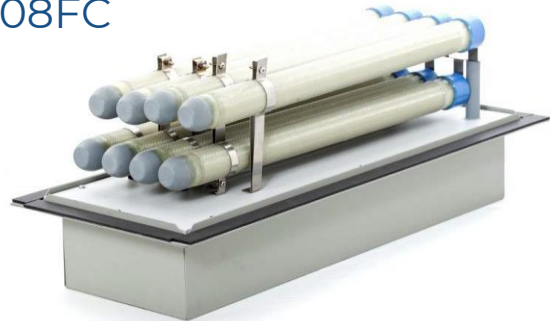
Large In-duct/In-AHU Systems

Electrical

Voltage	110/250V
Frequency	50/60 hz 1 phase
Power Consumption	49 Watts
Current Draw	240 mA
Internal Fuse	500 mA
Field Electrical Connection	Junction Box

Large In-Duct Systems		
	508FC	500FC
Number of Tubes	8	5
CFM	15,000	10,000

508FC



500FC



Installations – 500 Series



Supply Duct Mount



Rack or Wall Mounted in Discharge of AHU/RTU



Small In-duct/In-AHU Systems

Electrical

Voltage.....110/250V
Frequency.....50/60 hz 1 phase
Power Consumption.....49 Watts
Current Draw.....240 mA
Internal Fuse.....500 mA
Field Electrical Connection.....Junction Box

Small In-Duct Systems			
	MH1000	MH1002	FC400
Number of Tubes	1	2	1
CFM	2,500	5,000	1,400

Matterhorn 1000



Matterhorn 1002



Small In-duct/In-FCU Systems

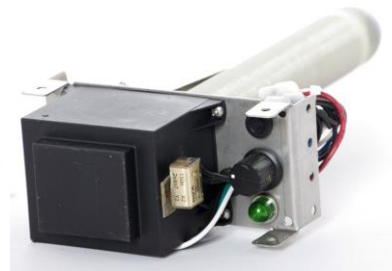
Electrical

Voltage.....110/250V
Frequency.....50/60 hz 1 phase
Power Consumption.....49 Watts
Current Draw.....240 mA
Internal Fuse.....500 mA
Field Electrical Connection.....Junction Box

FC400/ FC400FM (24 VAC)



FC100



Small In-Duct/In-FCU Systems			
	FC400	FC400FM	FC100
Number of Tubes	1	1	1
CFM	1400	1400	2000

Installations – FCUs



Classroom Unit Ventilator Install



Classroom Vertical Stack Install

AtmosAware Sensedge

Accurate, convenient in-room monitoring.

- 24/7 accurate real time IAQ monitoring
- Display
 - Local Outdoor Air Quality
 - Indoor Air Quality
 - Phone App, BACnet, WiFi, Ethernet

Sensedge



Education

Schools Using AtmosAir

- North Jr. H.S. (MN)
- Brooklyn Laboratory Charter School
- Cherokee Elementary School (GA)
- Whittier School (MA)
- Florence Middle School (AL)
- North Brunswick School District (NJ)
- Greenwich Middle School (CT)
- Floral City Elementary School (FL)
- Williamsburg Community H.S. (PA)
- Darien Schools (CT)
- Don Bosco Prep (NJ)
- Northwestern University
- U.C.L.A.
- University of Southern California
- University of Maryland
- University of Virginia
- NYU
- St. John's University



Fairfield
UNIVERSITY



NYU



Ucla



PACE
UNIVERSITY



ST. JOHN'S
UNIVERSITY



EPA - IAQ Impact on Student Health & Academic Performance



How Does Indoor Air Quality Impact Student Health and Academic Performance?

- Recent research suggests that a school's physical environment also can play a major role in academic performance.
- Problems with heating, ventilation and air conditioning systems, known as HVAC systems
- Insufficient cleaning or excessive use of cleaning chemical
- Other maintenance issues can trigger a host of health problems, including asthma and allergies — that increase absenteeism and reduce academic performance. Improvements in school environmental quality can enhance academic performance, as well as teacher and staff productivity and retention.

Resources for Presentation



How Does Indoor Air Quality
Impact Student Health and
Academic Performance?

Building the Case for Comprehensive IAQ
Management in Schools



Indoor Air Quality (IAQ)

[Slideshow Presentation: How Does Indoor Air Quality Impact Student Health and Academic Performance](#)

Why Bi-Polar Ionization for Schools?

1. **Reduced absenteeism** rates for students as they are not exposed to viruses and bacteria in their indoor air. In 2013, approximately 13.8 million school days were missed in the U.S due to asthma (EPA).
2. **More productive environment** for learning & teaching, especially people suffering from allergies or asthma.
Lower VOCs = Higher Cognitive Function
3. **Help improve staff retention** by creating a healthy, eco-friendly indoor environment.
4. **Reduce operating cost and carbon footprint**, and create more sustainable facilities.



Benefit: Health

Human Health Benefits:

- Decreased respiratory rate
- Decreased basal metabolic rate (reduces energy loss)
- Decreased blood pressure
- Produced a feeling of well being
- Increased vital capacity (airflow from the lungs)
- Decreased skin temperature
- Decreased blood sedimentation rate (a measure of inflammation)
- Increased ciliary activity (human airway defense system)
- Increased frequency of mitosis (production of new or replacement cells)
- Increased resistance to infection
- Suggested as therapy:
 - Migraine
 - Asthma
 - Bronchitis
 - Sinusitis
 - Tuberculosis
 - Chlorine gas
 - Insomnia
 - Hay Fever
 - Conjunctivitis
 - Chronic Rhinitis
 - Emphysema
 - Wound and Burn healing



Dr. Philip M. Tierno Jr.
Professor of Microbiology & Pathology
New York University School of Medicine

Steve Levine
AtmosAir Solutions/Clean Air Group, Inc.
418 Meadow Street, Suite 204
Fairfield, CT 06824

Dear Steve,

Thank you for your support of our school, and all your help with providing us with the best possible indoor environments, not an easy thing in New York City.

Feel free to use me as a reference regarding the efficacy of AtmosAir's air purification technology.

You can mention that I have evaluated AtmosAir and also personally use AtmosAir in my own home.

Myself, and my colleague Professor John Oxford, Chairman of the Hygiene Council and Professor of Virology at St Bartholomew's and the Royal London Hospital, Queen Mary's School of Medicine and Dentistry, have investigated and highly recommend AtmosAir bipolar ionization technology for air purification for indoor application, especially in medical facilities where the most antibiotic multi-drug resistant germs reside.

Please keep in mind that I generally do not endorse products but I make a because of AtmosAir's efficacy and the importance of air quality.

Also I'll be glad to answer any questions that anyone may have.

Regards,

Phil

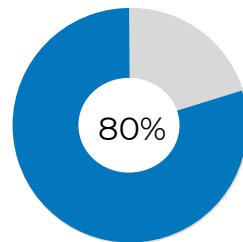
Dr. Philip M. Tierno, Jr.
Professor of Microbiology & Pathology
NYU School of Medicine
NYU Langone Medical Center
US Member of the Global Hygiene Council



Benefit: Health & Wellness

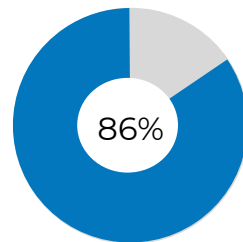
AtmosAir systems reduce contaminants in the air that spread illness and trigger allergies.

- Reduced VOC's up to 80%
- Reduced >86% of PM0.3 particulate
- Reduced Staph and MRSA by 99% in 45 minutes.
- Reduced MS2 Bacteriophage (Norovirus Surrogate) by >95% over 45 minutes.
- Reduced C. difficile by > 57% over 6 hrs.



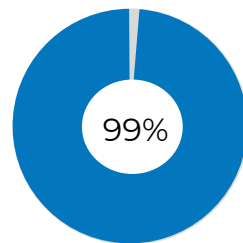
Reduction in
VOC's

Source: Univ. of Syracuse Testing 2019



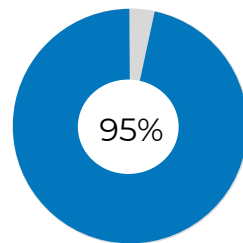
Reduction in
PM0.3

Source: ETL CADR Testing



Reduction in
Staff & MRSA

Source: ATL Labs, 2016



Reduction in
MS2 Bacteriophage

Source: ATL Labs, 2016

Benefit: Productivity

SCIENCE

Poor Indoor Air Quality Linked To Workers' Low Cognitive Function

A new Harvard study shows that reducing pollutants and carbon dioxide can have a “profound impact” on decision-making.

🕒 10/26/2015 07:43 pm ET | Updated Oct 27, 2015

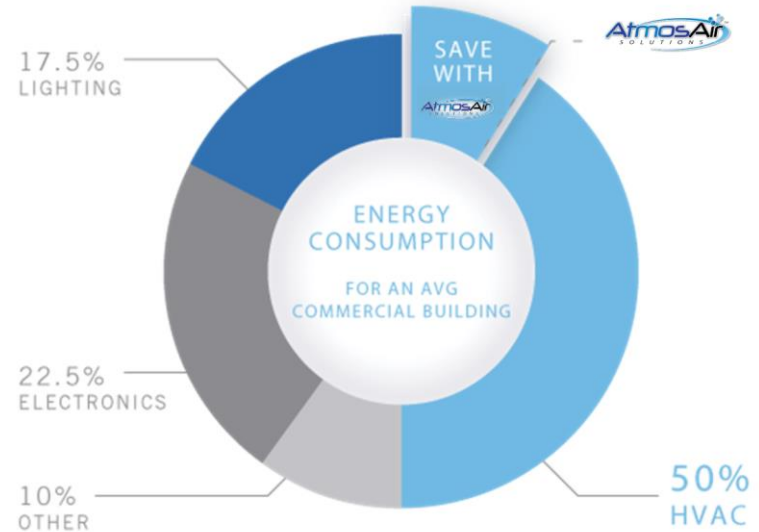
It has now been shown beyond reasonable doubt that **poor indoor air quality** in buildings can decrease productivity in addition to causing visitors to express dissatisfaction. The size of the effect on most aspects of office work performance appears to be as high as a **6-9% decrease in cognitive function**.

- **Standardized Test Scores were higher in Schools following an Improvement in their Indoor Environment.**

Benefit: Energy Savings & Sustainability

Energy Savings Result From:

- A Reduction of OA Requirements up to 50%
- Potential 20-30% Reduction in HVAC Tonnage/Plant Sizes
- 20-30% Reduction in HVAC Energy Expenditures
- 4-8% Reduction on ENTIRE utility bill (\$0.12-\$0.24/sq. ft)
- Extend life of HVAC filters
- Extend life of HVAC equipment



Compliance with ASHRAE 62.1-2016

Section 6.1.1- Ventilation Rate Procedure (VRP)

Ventilation rates based on space type, occupancy, and floor area.
Minimum ventilation rates without air purification system provided in Table 6-1.

Section 6.1.2- Indoor Air Quality Procedure (IAQP) w/ AtmosAir

Ventilation rates based on analysis of indoor and outdoor contaminants of concern.

AtmosAir provides all required code documentation to meet ASHRAE 62.1 IAQP, ASHRAE 90.1, IEC and IMC 2012.



ASHRAE 62.1 Ventilation Rate Exception

4. Design ventilation must meet the requirement of the International Mechanical Code Chapter 4.

a. **403.2 Outdoor air required.**

The minimum outdoor airflow rate shall be determined in accordance with [Section 403.3](#). Ventilation supply systems shall be designed to deliver the required rate of outdoor airflow to the *breathing zone* within each *occupiable space*.

Exception: Where the *registered design professional* demonstrates that an engineered ventilation system design will prevent the maximum concentration of contaminants from exceeding that obtainable by the rate of outdoor air ventilation determined in accordance with [Section 403.3](#), the minimum required rate of outdoor air shall be reduced in accordance with such engineered system design.



US Bank Stadium Projected Energy Savings with BPI

Total Modeled Cost Savings:

Energy Savings: \$234,642

Filter Efficiency Savings: \$55,080

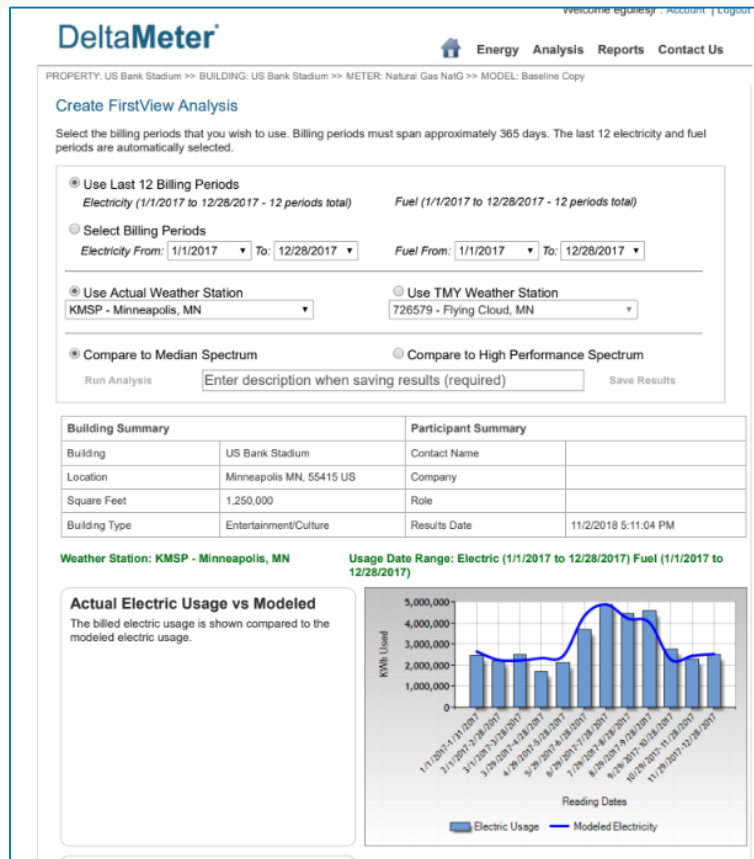
Total Savings: \$289,722

Anticipated Energy Savings

If the proposed air cleaning measure results in a reduction of 25% in the fresh air intake rate, then savings in the steam and chilled water would likely result, of the order of approximately 250,000 ton-hours for chilled water and approximately 37,000 hundred lbs of steam. Since this is such a large building, these savings represent approximately 6% of the total building energy use.

If the proposed air cleaning measure results in a reduction of 50% in the fresh air intake rate, then savings in the steam and chilled water would likely result, of the order of approximately 355,845 ton-hours for chilled water and approximately 149,966 hundred lbs of steam. This represents approximately 12% of total building energy use.

During the performance period for this building, EnergyRM recommends running a DeltaMeter on each fuel independently, in addition to the whole building. While the anticipated energy savings are above the minimum threshold for DeltaMeter use, the savings for the air cleaning measure would be more observable as a percentage of savings from each fuel. This would provide project stakeholders additional confidence in the delivered savings.



US Bank Stadium Actual Energy Savings with BPI

Actual Energy Savings – First 3 Months

Energy Savings Due To Outside Air Reduction			
	Electricity	Chilled Water	Total
June '19	\$ 30,058	\$ 43,164	\$ 73,222
July '19	\$ 9,165	\$ 12,676	\$ 21,841
August '19	\$ 39,122	\$ 43,036	\$ 82,159
		3-Month Total =	\$ 177,222
Filter Maintenance Savings			
Removal of 205 Final Filters (Merv 13&14)			
Filter Cost & Labor - Monthly Savings =	\$	3,566	
First 3-months Total Savings = \$ 187,920			



Results compare of the same time frame in 2019 vs. 2018 and reflect adjustments made based on differences in weather and attendance

Case Study: Cherokee Elementary School



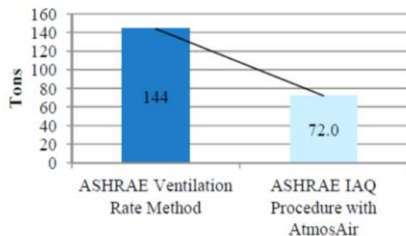
Cherokee Elementary School

- Savings From Reducing HVAC Equip Size = \$122,000
- Annual Energy Savings = \$19,000

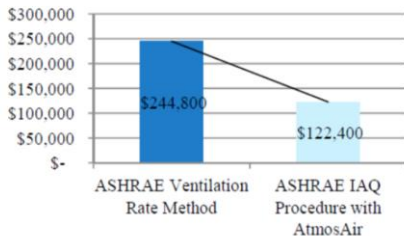
Total 1-Year Savings: \$141,498

Cherokee Elementary School Cost Analysis:	
Total Supply Air:	103,750
Occupancy	2158
AtmosAir Cost:	\$106,200
HVAC Equipment using Ventilation Rate Procedure (144 tons)	\$244,800
HVAC Equipment using Indoor Air Quality Procedure (AtmosAir -72 tons required)	\$122,400
Capital Expenditure Savings	\$122,400
Operational Expenditure Savings (Running system with 16,185 CFM of outside air vs. 32,370 CFM of outside air.)	\$19,098
Total Savings Year 1	\$141,498

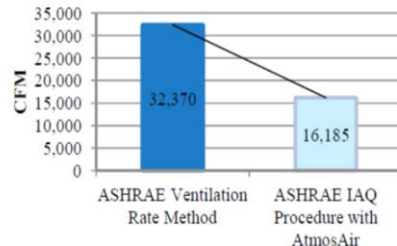
O/A HVAC Tonnage



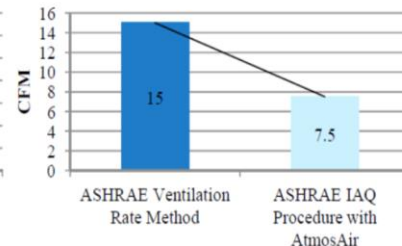
O/A Equipment Cost



Total Outside Air



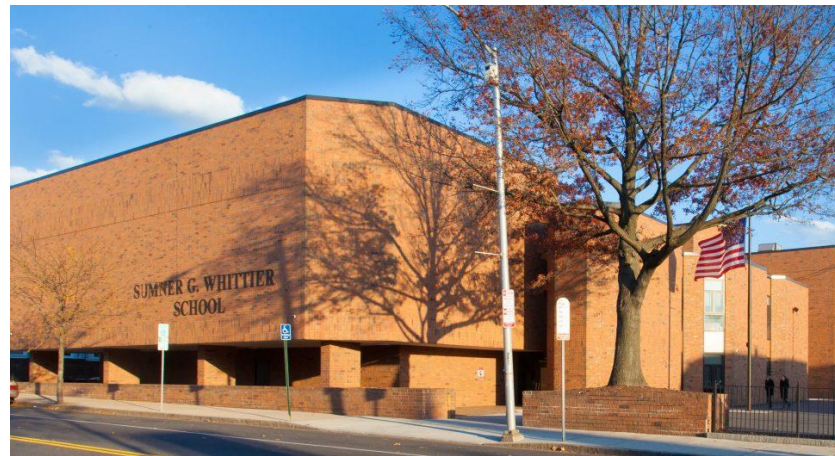
CFM O/A Per Person



Case Study: Whittier School

Whittier School

- Samples were taken in classroom 219 during occupied daytime classroom activities with the air testing devices set approx 5' off the floor to sample in the normal 4'-6' breathing zone.
- AtmosAir bi-polar ionization systems installed and reduced outside ventilation from approx 16 cfm/person to approx 10 cfm/person
- Resulting overall air quality was equal to the standard prescribed outside ventilation air alone with reduced energy consumption



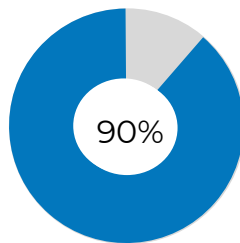
Case Study: California Public Schools

Orange County Elementary School Test

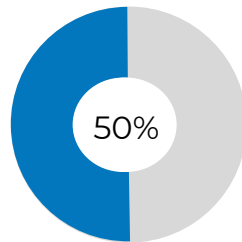
AtmosAir significantly reduced TVOC and mold spores when installed in the classrooms.

- TVOC Reduction: 90%
- Mold Spore Reduction: 50%

Third party testing performed by DTS Environmental and an NVLAB-accredited laboratory..



Reduction in
VOC's



Reduction in
Mold Spores

Case Study: University of Virginia



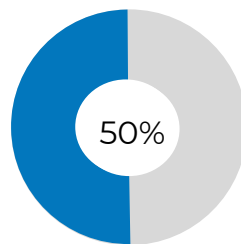
University of Virginia Leake Building

AtmosAir was installed in the Leake building in 2017 to improve IAQ and reduce energy consumption.

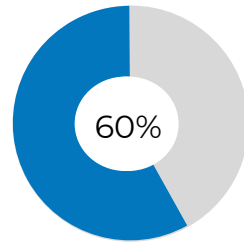
UVA reduced outside air by 50% in addition to using the air cleaning technology.

Perceptual air quality improvement results were immediately noticed.

Measured results with technology installed:
VOCs reduced by > 50%. PM10 particles reduced by >60%.



Reduction in
VOC's



Reduction in
Particles

Case Study: University of Maryland



University of Maryland Seneca Building

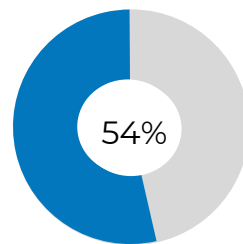
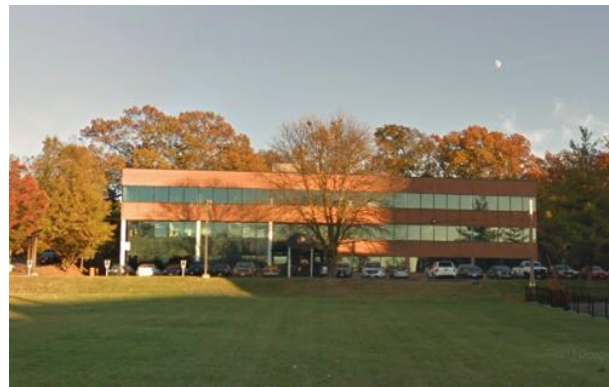
AtmosAir 508FC and AtmosAware air monitoring systems were installed in the Seneca Building that houses the sustainability office.

Air testing was completed.

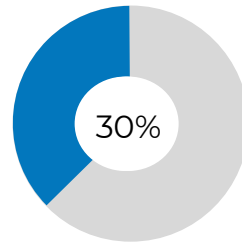
- TVOC were reduced by 54%.
- All particle ranges measured were reduced.
- PM0.5 reduced by 30%.

UMD is monitoring air quality in real time with AA.

Next step is reducing OA by 50%.



Reduction in
VOC's



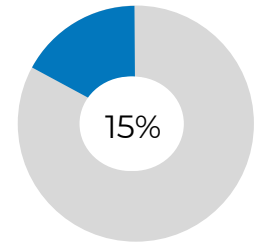
Reduction in
Particles

Case Study: University of Colorado



University of Colorado UCCS VAPA

- Installed throughout building in all air handlers (93k sq. ft)
- AtmosAir worked with the engineer, ME Engineers, who worked with the architect H3. ME was responsible for specifying Atmos.
- ME downsized the HVAC system by 15% around the IAQP for first cost savings.
- Architect H3 was worried about typical VOCs/PM/health/well being of students, but the fact that the system paid for itself immediately didn't hurt.
- State of the art performing arts facility.

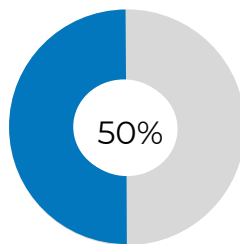


Downsized
HVAC SYSTEM

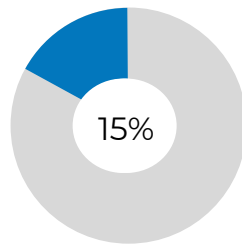
Case Study: North Jr. High School

North Jr. High School

- Outside air reduced by 30%
- TVOC levels reduced by 50%
- AtmosAir and reduced O/A levels provided air quality that was as good, or better than at standard ventilation rate procedure O/A levels.



Reduction in
VOC's



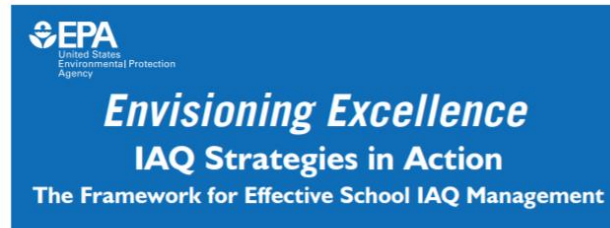
Reduction in
Outside Air

EPA Website – IAQ Tools for School Programs

Useful IAQ Links

- [EPA Indoor Air Quality - Home Page](#)
- [Indoor Air Quality Tools for Schools Action Kit](#)
 - [Indoor Air Quality Tools for Schools: Preventive Maintenance Guidance Documents](#)

School IAQ Assessment Mobile App



*Accelerating Action to Create Healthier
and Safer School Environments*



IAQ Tools for
Schools Program

Indoor Air Quality (IAQ)

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