


THE  
**SAFE AIR**  
ZONE 

Safe Air Zone Plan

# Even life after COVID...

...air pollution is one of the leading causes of death worldwide

Cardiovascular  
Disease

Cancer

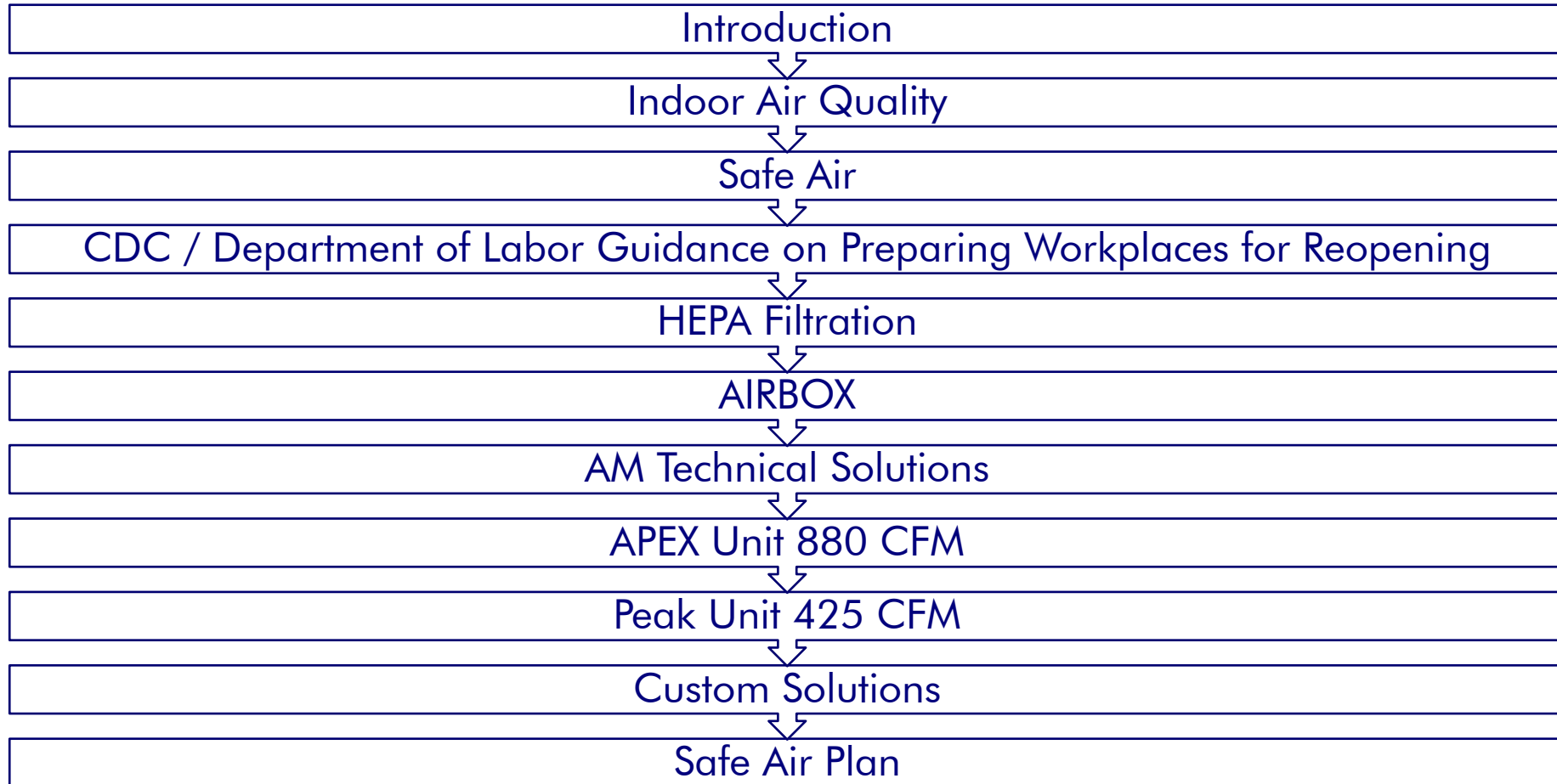
Asthma



-43% of Global Deaths, 75% of Deaths Over 60  
-Air pollution exceeds malaria by a factor of 19



# Summary of Today's Presentation



# Relationship of Each Company



The Safe Air Zone

- Local
- Inventory
- Service
- Marketing / Sales
- Field Engineering



AIRBOX

- Manufacturer Commercial Air Purification



AM Tech Solutions

- Parent Company of AIRBOX
- Industry Experts in Air Filtration
- Custom Solutions for HEPA Filtration
- Engineering
- Design
- Fabrication

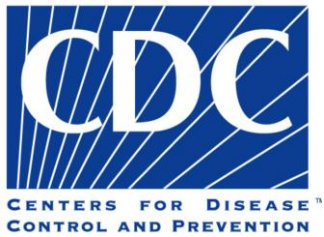
# Importance of Indoor Air Quality (IAQ)



Mold, dust mites, pet dander and pest droppings or body parts can trigger asthma. Biological contaminants, including molds and pollens can cause allergic reactions for a significant portion of the population. Tuberculosis, measles, staphylococcus infections, Legionella, influenza *and COVID-19 are known to be transmitted by air.*



“Indoor Air Quality (IAQ) refers to the air quality within and around buildings and structures, especially as it relates to the health and comfort of building occupants. Understanding and controlling common pollutants indoors can help reduce your risk of indoor health concerns. Health effects from indoor air pollutants may be experienced soon after exposure or, possibly, years later.”



# Scientific Brief: SARS-CoV-2 and Potential Airborne Transmission

Updated Oct. 5, 2020

Languages ▾ Print



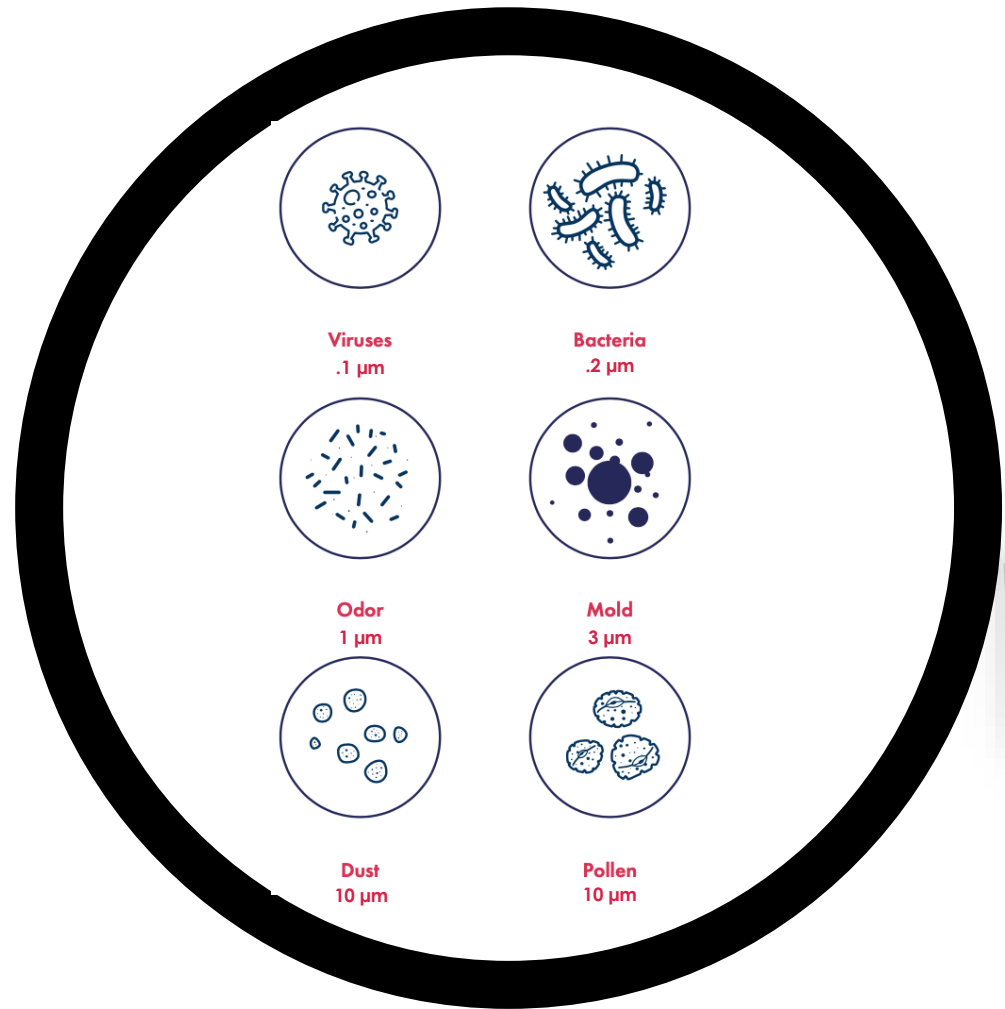
The principal mode by which people are infected with SARS-CoV-2 (the virus that causes COVID-19) is through exposure to respiratory droplets carrying infectious virus.

**Respiratory droplets** are produced during exhalation (e.g., breathing, speaking, singing, coughing, sneezing) and span a wide spectrum of sizes that may be divided into two basic categories based on how long they can remain suspended in the air:

- **Larger droplets** some of which are visible and that fall out of the air rapidly within seconds to minutes while close to the source.
- **Smaller droplets and particles** (formed when small droplets dry very quickly in the airstream) that can remain suspended for many minutes to hours and travel far from the source on air currents.






Once respiratory droplets are exhaled and as they move outward from the source, their concentration decreases through fallout from the air (largest droplets first, smaller later) combined with dilution of the remaining smaller droplets and particles into the growing volume of air they encounter.



**CERTIFIED  
HEPA Filter**  
Filters **99.99%** of all particle sizes  
Including **Sars-Cov-2**



- ➔   
Registered Facility
- ➔   
Log 4 Purification
- ➔   
Individually Tested

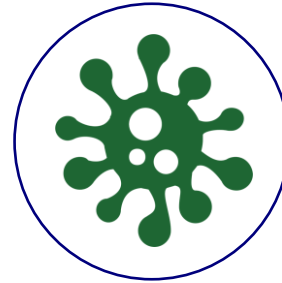
# Safe Air is Free of



## Bacteria

(airborne bacterial diseases)

- Whooping cough-
- Tuberculosis
- Meningitis
- Diphtheria
- Pneumonia
- Pulmonary anthrax-
- Staphylococcus respiratory infection, sepsis, other cutaneous infections- about 30% of people carry this in their nose
- Streptococcus respiratory infection-



## Viruses

(airborne viral diseases)

- Chickenpox-
- Flu/influenza-
- Measles-
- Rubella/German measles-
- Mumps-
- Smallpox-
- Hantavirus pulmonary syndrome-
- Pleurodynia-
- Common cold
- Severe Acute Respiratory Syndrome (SARS)- 2003
- COVID 19 -2020



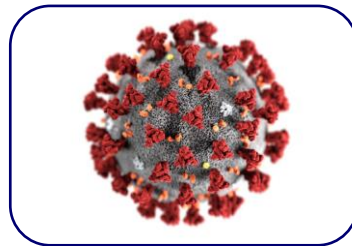
# 3rd party testing of the AIRBOX unit with **Sars-Cov-2 (COVID-19)**



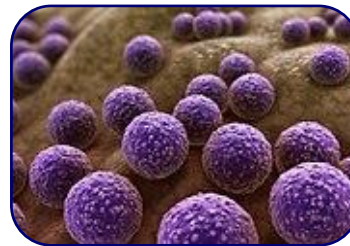
## Scientific Lab Testing Results

- ✓ Tested at full scale in a 1000 cubic foot room
- ✓ Removed 99.99% in 25 minutes
- ✓ Removed 99.57% of the virus in 10 minutes
- ✓ Removed 99.9999% in 40 minutes

## Eliminates 99.99% of all particle sizes



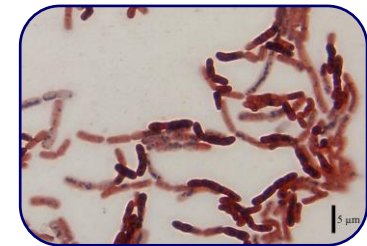
SARS-CoV-2  
COVID-19



Staphylococcus  
Aureus



E. Coli



B. Subtilis

# The Certification



Study Update

Sponsor: Meredith Teague, Airbox

Study ID: NG 16435

Date: 04 NOV 2020



## CERTIFICATE OF ACCREDITATION

**ANSI National Accreditation Board**

11617 Coldwater Road, Fort Wayne, IN 46845 USA

This is to certify that

**Microchem Laboratory, LLC**

1304 W. Industrial Blvd.  
Round Rock, TX 78681

has been assessed by ANAB and meets the requirements of international standard

**ISO/IEC 17025:2017**

while demonstrating technical competence in the field of

**TESTING**

Refer to the accompanying Scope of Accreditation for information regarding the types of activities to which this accreditation applies

L2450

Certificate Number

ANAB Approval

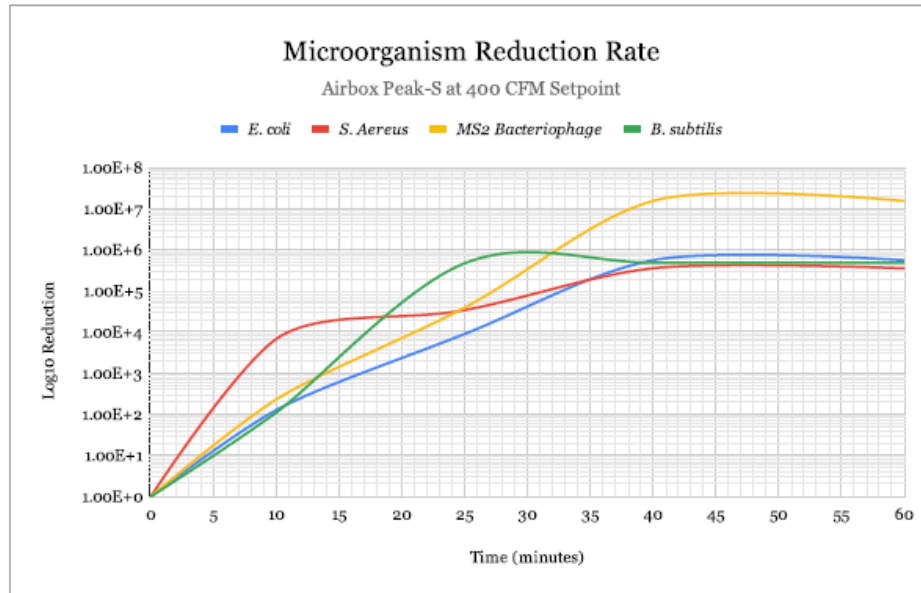
Certificate Valid Through: 04/20/2021  
Version No. 003 Issued: 03/25/2019



Dimensions



# The Tests



Microorganism	Initial Concentration (CFU/cu m.)
<i>E. coli</i>	4.84E+07
<i>S. Aureus</i>	3.08E+07
<i>MS2 Bacteriophage</i>	1.34E+09
<i>B. subtilis</i>	4.22E+07

AIRBOX BUSINESS CONFIDENTIAL

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Test Microorganism	Test Device	Treatment Time Point	Replicate	CFU/ml	Average CFU/ml	Volume Recovered from Biosamplers (ml)	CFU/m <sup>3</sup>	Average CFU/m <sup>3</sup>	Percent Reduction Compared to Time Zero	Log <sub>10</sub> Reduction Compared to Time Zero <sup>1</sup>
<i>E. coli</i> ATCC 11775	Airbox Peak-S	N/A	Inoculum 1	2.40E+08	2.40E+08	N/A	N/A	N/A	N/A	N/A
		Time Zero	Replicate 1	2.75E+05	2.75E+05	22	4.84E+07	4.84E+07	N/A	N/A
		10 Minute	Replicate 1	2.10E+03	2.10E+03	22.6	3.80E+05	3.80E+05	99.22%	2.11
		25 Minute	Replicate 1	3.00E+01	3.00E+01	22.4	5.38E+03	5.38E+03	99.99%	3.95
		40 Minute	Replicate 1	5.00E-01	5.00E-01	21.6	8.64E+01	8.64E+01	99.9998%	5.75
		60 Minute	Replicate 1	5.00E-01	5.00E-01	21.6	8.64E+01	8.64E+01	99.9998%	5.75

<sup>1</sup>The Log reductions for the Test Runs are adjusted to account for natural die-off and gravitational settling observed in the Control Run.

Test Microorganism	Test Device	Treatment Time Point	Replicate	CFU/ml	Average CFU/ml	Volume Recovered from Biosamplers (ml)	CFU/m <sup>3</sup>	Average CFU/m <sup>3</sup>	Percent Reduction Compared to Time Zero	Log <sub>10</sub> Reduction Compared to Time Zero <sup>1</sup>
<i>S. Aureus</i> ATCC 6538	Airbox Peak-S	N/A	Inoculum 1	2.15E+07	2.15E+07	N/A	N/A	N/A	N/A	N/A
		Time Zero	Replicate 1	1.75E+05	1.75E+05	22	3.08E+07	3.08E+07	N/A	N/A
		10 Minute	Replicate 1	2.50E+01	2.50E+01	22.6	4.52E+03	4.52E+03	99.985%	3.83
		25 Minute	Replicate 1	5.00E+00	5.00E+00	22.4	8.96E+02	8.96E+02	99.997%	4.54
		40 Minute	Replicate 1	5.00E-01	5.00E-01	21.6	8.64E+01	8.64E+01	99.9997%	5.55
		60 Minute	Replicate 1	5.00E-01	5.00E-01	21.6	8.64E+01	8.64E+01	99.9997%	5.55

<sup>1</sup>The Log reductions for the Test Runs are adjusted to account for natural die-off and gravitational settling observed in the Control Run.

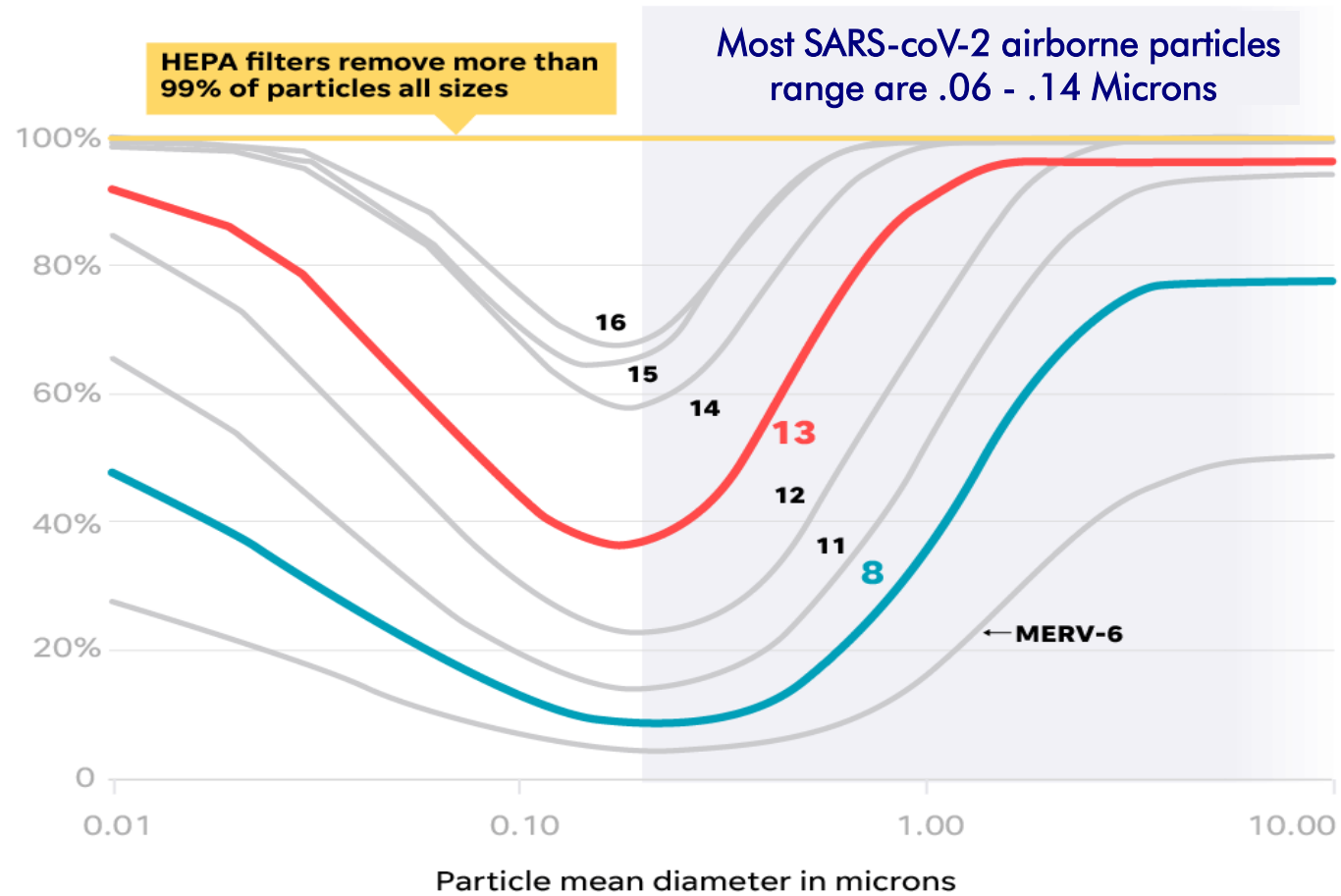
Test Microorganism	Test Device	Treatment Time Point	Replicate	CFU/ml	Average CFU/ml	Volume Recovered from Biosamplers (ml)	CFU/m <sup>3</sup>	Average CFU/m <sup>3</sup>	Percent Reduction Compared to Time Zero	Log <sub>10</sub> Reduction Compared to Time Zero <sup>1</sup>
<i>B. subtilis</i> ATCC 19659	Airbox Peak-S	N/A	Inoculum 1	5.00E+08	5.00E+08	N/A	N/A	N/A	N/A	N/A
		Time Zero	Replicate 1	2.40E+05	2.40E+05	22	4.22E+07	4.22E+07	N/A	N/A
		10 Minute	Replicate 1	2.10E+03	2.10E+03	22.6	3.80E+05	3.80E+05	99.10%	2.05
		25 Minute	Replicate 1	5.00E-01	5.00E-01	22.4	8.96E+01	8.96E+01	99.9998%	5.67
		40 Minute	Replicate 1	5.00E-01	5.00E-01	21.6	8.64E+01	8.64E+01	99.9998%	5.69
		60 Minute	Replicate 1	5.00E-01	5.00E-01	21.6	8.64E+01	8.64E+01	99.9998%	5.69

<sup>1</sup>The Log reductions for the Test Runs are adjusted to account for natural die-off and gravitational settling observed in the Control Run.

Test Microorganism	Test Device	Treatment Time Point	Replicate	CFU/ml	Average CFU/ml	Volume Recovered from Biosamplers (ml)	CFU/m <sup>3</sup>	Average CFU/m <sup>3</sup>	Percent Reduction Compared to Time Zero	Log <sub>10</sub> Reduction Compared to Time Zero <sup>1</sup>
<i>MS2 Bacteriophage</i> ATCC 15597-B1	Airbox Peak-S	N/A	Inoculum 1	6.90E+09	6.90E+09	N/A	N/A	N/A	N/A	N/A
		Time Zero	Replicate 1	7.60E+06	7.60E+06	22	1.34E+09	1.34E+09	N/A	N/A
		10 Minute	Replicate 1	3.20E+04	3.20E+04	22.6	5.79E+06	5.79E+06	99.57%	2.36
		25 Minute	Replicate 1	1.90E+02	1.90E+02	22.4	3.40E+04	3.40E+04	99.997%	4.59
		40 Minute	Replicate 1	5.00E-01	5.00E-01	21.6	8.64E+01	8.64E+01	99.99994%	7.19
		60 Minute	Replicate 1	5.00E-01	5.00E-01	21.6	8.64E+01	8.64E+01	99.99994%	7.19

<sup>1</sup>The Log reductions for the Test Runs are adjusted to account for natural die-off and gravitational settling observed in the Control Run.

# CERTIFIED HEPA filters out 99.99% particles of ALL SIZES



# Importance of Indoor Air Quality

- Americans spend ~ 90% of their time indoors
  - *People who are often most susceptible to the adverse effects of pollution (e.g., the very young, older adults, people with cardiovascular or respiratory disease) tend to spend even more time indoors*
- Pollutants can be 2 to 5 times more concentrated indoors than outdoors
- Indoor concentrations of some pollutants have increased in recent decades due to such factors as energy-efficient building construction (when it lacks sufficient mechanical ventilation to ensure adequate air exchange) and increased use of synthetic building materials, furnishings, personal care products, pesticides, and household cleaners





# **Guidance on Preparing Workplaces for COVID-19**

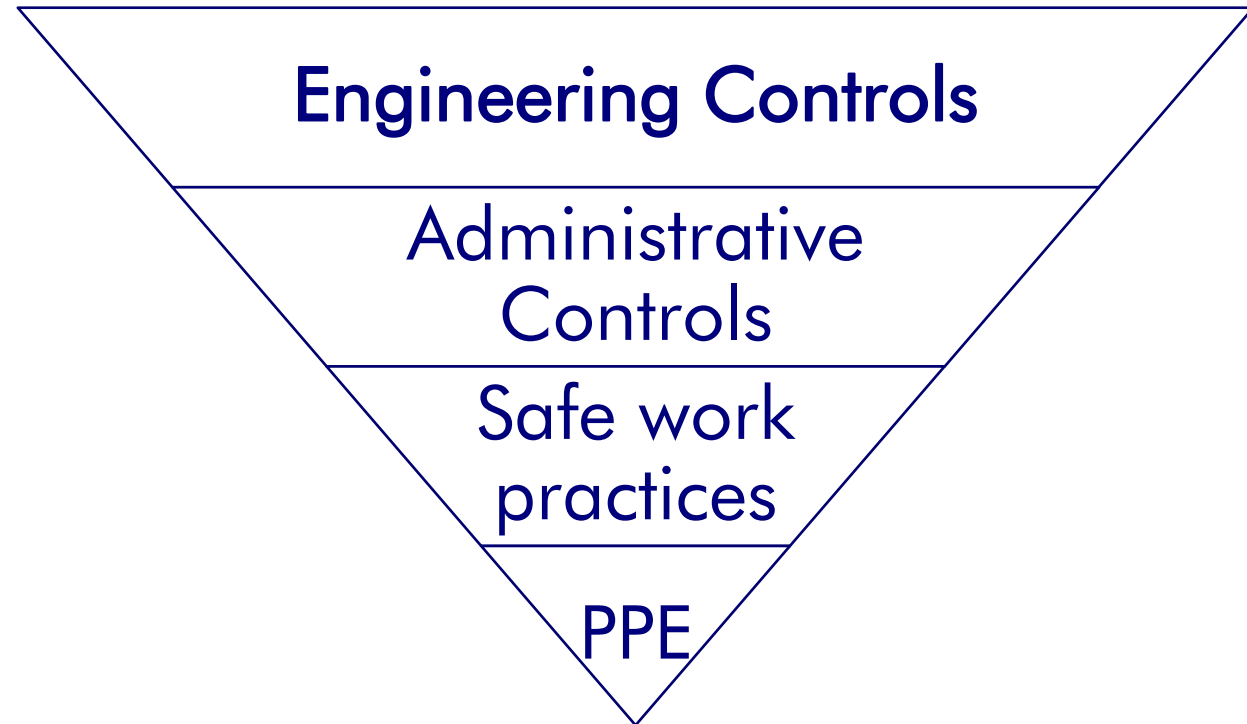
# Guidance on Preparing Workplaces for COVID-19



- During a COVID-19 outbreak, when it may not be possible to eliminate the hazard, the most effective protection measures are as follows.
- In most cases, a combination of control measures will be necessary to protect workers from exposure to SARS-CoV-2.

## Most Effective Protection Measures

(listed most effective to least effective)



# DOL and CDC has *recommended* engineered controls for assist with the reopening and reduce transmission

- Engineering controls involve isolating employees from work-related hazards. In workplaces where they are appropriate, these types of controls reduce exposure to hazards without relying on worker behavior and can be the most cost-effective solution to implement.



## Engineering Controls for SARS-CoV-2



Installing high-efficiency air filters with Certified HEPA to remove 99.99% of all particles

Increasing ventilation rates in the work environment

Installing physical barriers, such as clear plastic sneeze guards

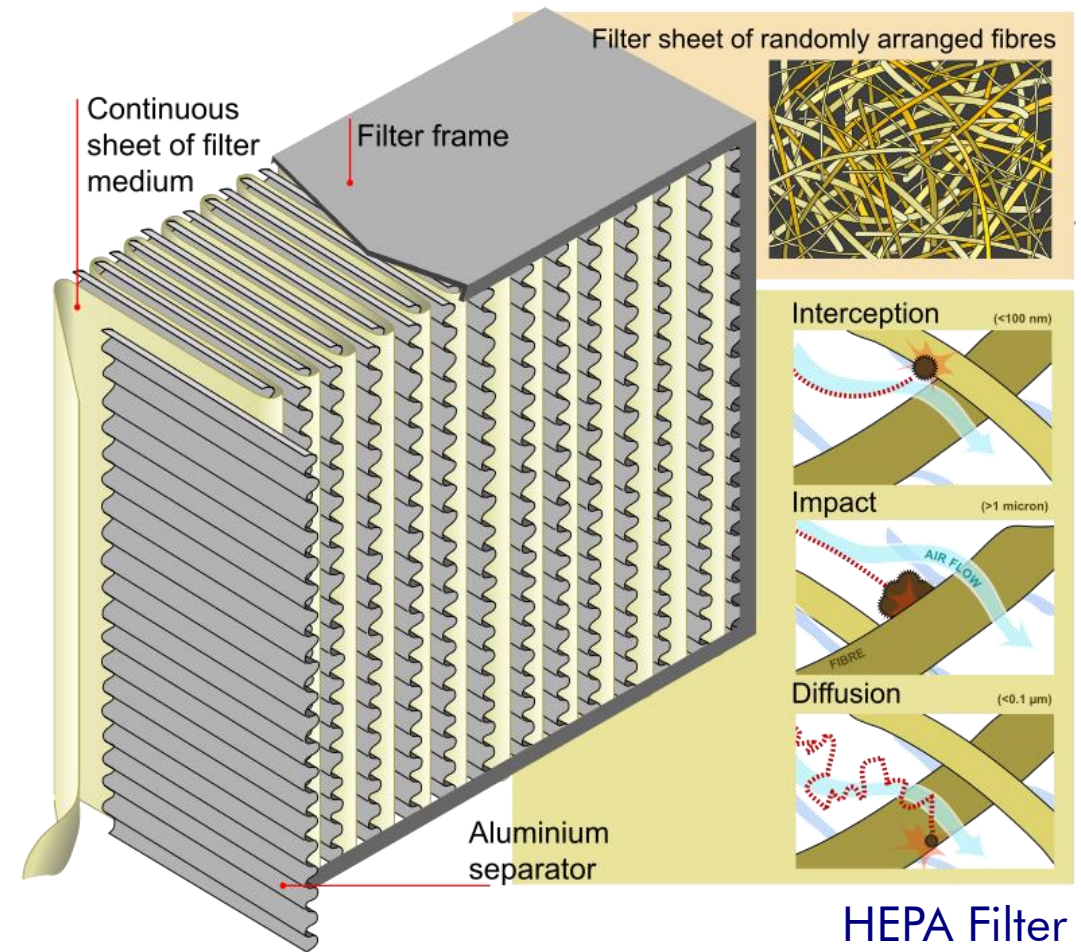
Installing a drive-through window for customers

Specialized negative pressure ventilation in some settings, such as for aerosol generating procedures



# What is HEPA Filtration?

- High-efficiency particulate air (HEPA) is an efficiency standard of air filters developed by the U.S. Department of Energy
- HEPA air filter must remove—from the air that passes through—at least 99.99% of particles whose diameter is equal to  $0.3\ \mu\text{m}$ ; with the filtration efficiency increasing for particle diameters both less than and greater than  $0.3\ \mu\text{m}$



# LIES and CORRUPTION in the air purifier industry



Most portable room air purifiers do not use Certified HEPA and do not remove COVID-19 from the air



Most portable room air purifiers do not test upon manufacturing of their filters for CDC guidelines



Most portable room air purifiers do not hold up to their company's marketing statements on air purification



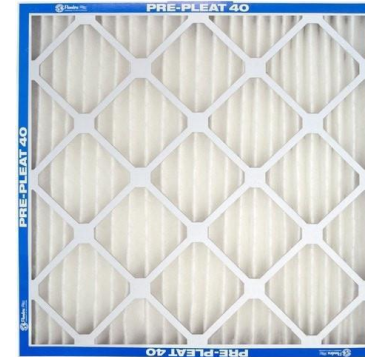
Potentially just mixing room air making the situation more dangerous

## Certified HEPA vs HEPA type



Certified HEPA filters have a minimum 99.99% efficiency rate at the worst-case most penetrating particle size (MPPS) of 0.3 microns. Larger or smaller particles are trapped with even higher efficiency. Certified HEPA is typically used in hospital and manufacturing settings and have been tested to guarantee performance.

**VS**



HEPA Type filters are often paired with off-the-shelf compact air purifier and limited to 99% of particles 2.0 microns or larger such as dust and dander. Although HEPA is used in the marketing campaign, they do not meet the standard set by the U.S. Dept. of Energy.

Certified HEPA filters have been approved by the CDC and EPA for capturing mold, pollen, bacteria, and viruses.

# Where is Certified HEPA Filtration used?

Semiconductor  
Manufacturing

Pharmaceutical  
Manufacturing

Laboratories

Hospital  
Operating  
Rooms

Infectious  
Disease Isolation  
Rooms

Areas where  
indoor air quality  
is a concern

Areas where  
exposure to virus  
and bacteria is a  
concern

# AIRBOX : The Solution for Today's Challenges

- Designed by cleanroom industry experts
- Promotes Safe Air Zone™ for employees, and Patrons
- Utilizes certified HEPA filters
- Only Purifier Manufacturer using proven Microban® Antimicrobial Technology
- EPA Registered #97081



# Invented by Tim Self - Owner and founder of AM Technical Solutions

- Founded in 1994
- licensed architect, engineering, and construction firm
- Deliver the entire scope of work for high-tech construction projects
- On schedule, on budget, and at the level of quality required by customers.
- Platinum Safety Award Winner 10 consecutive years
- Industry Experts in Air Purification



**AIRBOX**<sup>™</sup>  
CLEAN AIR. PURE & SIMPLE.

**25+**

Years

**\$20B+**

Global Capital  
Projects

**24**

Countries

**5**

Continents

**6M+**

Sq. Ft. of  
Cleanroom  
Design and  
Installation

**95%**

Customer  
Retention

## PORTFOLIO

AM has executed on Award Winning Projects in the high-tech space and is considered one of the premiere high tech architecture, engineering, and construction firms in the world. AM can be seen globally in most of the Tier 1 sites.

## AWARD WINNING PROJECTS



## SERVICES

AM Technical Solutions (AM) delivers first time right for our customers through an end-to-end solution for high-tech construction projects.

## MARKETS WE SERVE



Data Centers



Healthcare



Higher Education



Life Science



Micro Electronics



Solar

## AIRBOX: Certified HEPA Filtration

- Airbox utilizes DOE recognized HEPA filters: the same technology utilized for infectious control in hospitals
- Other products that are marketed to be "HEPA-type," "HEPA-like," "HEPA-style" or "99% HEPA" do not satisfy the HEPA standard





## AIRBOX: The Engineered Advantage

- Airbox consults with each client to properly select and locate each unit based on CDC and ASHRAE recommendations.
- AIRBOX not only offers categorically the best room air purifier available; we offer an engineered solution based on established building ventilation standards.



Occupancy

Use of Space

Maximum protection

Maximum efficiency

AIRBOX Peak Series S



AIRBOX Apex



Certified HEPA Filtration (see next page)

Ease of use and simple to install, Plugs into any 120v outlet

Same technology placed in laboratories, infectious disease control rooms and manufacturing of pharmaceuticals

Every Certified HEPA filter is individually tested in accordance to CDC and OSHA (see next page)

Utilizes MICROBAN<sup>®</sup> technology in the materials of AIRBOX. Creating an antimicrobial environment

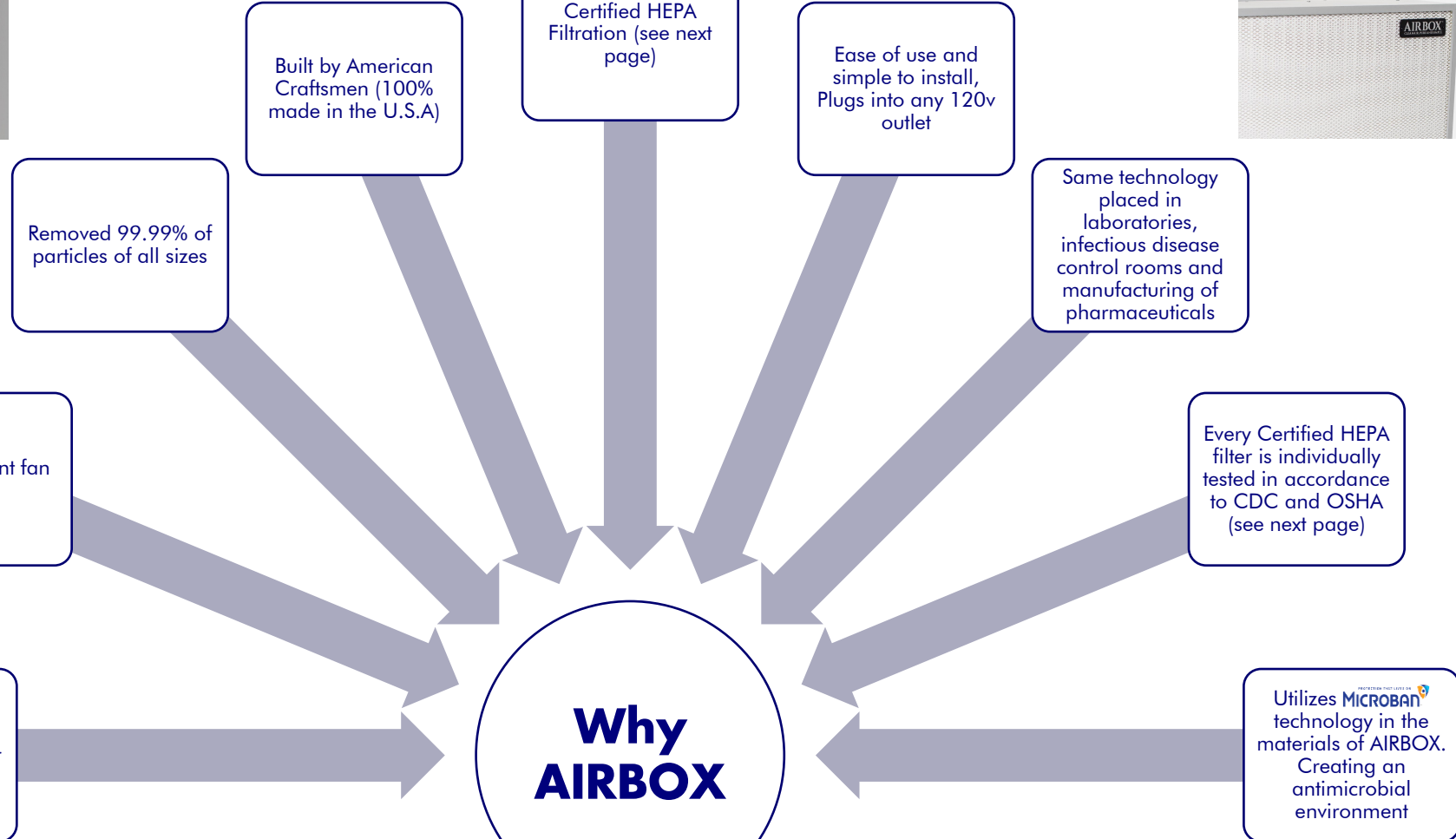
Built by American Craftsmen (100% made in the U.S.A)

Removed 99.99% of particles of all sizes

Energy efficient fan motors

Meets the CDC and OSHA guidelines for engineered controls

# Why AIRBOX



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## WHAT'S IN THE AIR AFTER FILTRATION?

Pure Air, Clean & Simple

## WHAT'S IN THE AIR BEFORE FILTRATION?

Viruses  
Bacteria  
Mold  
Odors  
VOC's  
Dust  
Fungi  
Pet Dander  
Chemicals

---



## PURIFYING HEPA

### CERTIFIED HEPA FILTER

High Efficiency Particulate Air (HEPA) filters are the World Standard for the provision of "Clean Air". The Peak Series' HEPA filter is 99.97% effective in removing particulate size of 0.3 micron and even more effective in capturing smaller particles. Unique to these filters are the Controlled Media Spacing which enables the unit's high-flow capacity.

## GERM PROTECTION

### ANTIMICROBIAL FILTER

The Peak Series' Antimicrobial Filter is greater than 99% effective at capturing and inhibiting the growth of airborne microbes. A microbe is a living thing that is too small to be seen with the naked eye. Many of these airborne microbes can be harmful (in some cases deadly) to humans, including: Bacteria, Protists, Fungi, Viruses, and Microscopic Plants & Animals.

## ODOR SHIELD

### ACTIVATED CARBON FILTER

When passing through the Activated Carbon Filter the air is cleansed of Chemicals, Volatile Organic Compounds (VOC's), Bioeffluents, and Unpleasant Odors. Unique to our activated carbon filter, the carbon particles are prevented from releasing downstream into the other filters, dramatically increasing the Peak Series effective life cycle.

### **Filtration**

HEPA Filter (Final Filter Stage)

Certified 99.97%

3.54" Pleated Glass Media

Aluminum Extrusion Frame

Antimicrobial Filter(Second Filter Stage)

Merv 8 4" Radial Pleated Polyester

Treated with Microban Aegis Microbe Shield

Odor Filter (First Filter Stage)

Merv 8 4" Pleated Activated Carbon

Synthetic Containment Membrane

OZ 3>30% Ozone removal Efficiency



# AIRBOX™ Apex



# Apex Series-S

## Dimensions



- **Height:** 47 Inches
- **Length:** 23 Inches
- **Width:** 18 Inches
- **Weight:** 70 Pounds
- **CFM:** 880
- **Noise Levels:** 54-59 Decibels
- **Sq Footage Filtration:** 3000 Square Feet
- **Plugs into any 120v outlet**

APEX Antimicrobial  
\$75



APEX Odor/Carbon  
\$74



### Note about APEX

With proper maintenance and replacement of pre filters (every 4-6 months based on environment), HEPA filter can last the lifetime of the unit (in excess 5 years)

# AIRBOX™ Peak Series S

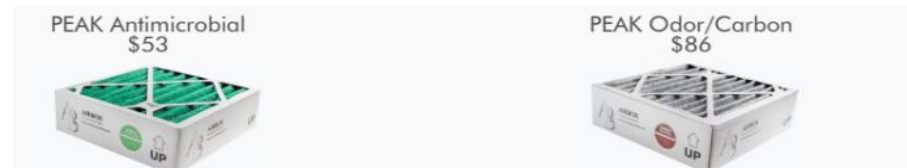


## Peak Series-S

### Dimensions



- **Height:** 27 Inches
- **Length:** 13 Inches
- **Width:** 13 Inches
- **Weight:** 44 Pounds
- **CFM:** 425
- **Noise Levels:** 34-72 Decibels
- **Sq Footage Filtration:** 1000 Square Feet
- **Plugs into any 120v outlet**







APEX  
Purifier

PEAK  
Series-S  
Purifier

# Ideal Locations to Purify



Restaurants &  
Commercial Kitchens



Gyms &  
Fitness Centers



Daycares



Medical Centers &  
Facilities



Hotels, Casinos &  
Resorts



Salons &  
Retail



Offices



Schools



Dealerships



Sports Team's  
Locker Rooms



Banks



Spas

# Customize Options for Branding & Appearance



# Testimonials

## CUSTOMER SPOTLIGHT

### CATSKILL DENTAL CARE

"After much research and discussion, I chose AirBox Air Purifier because of the quality and best in class status. Addressing the quality of the air within the dental practice was always something I was planning to do and the pandemic just sped up the process for me. I now have a head of confidence knowing that AirBox has created a Safe Air Zone for my employees and patients."

-Joe Pilatich, New York



MEDICAL FACILITIES

IDEAL LOCATIONS TO PURIFY



THE SAFE AIR ZONE

PEAK SERIES-S PURIFIER



SCHOOLS

IDEAL LOCATIONS TO PURIFY

^ SWIPE UP TO LEARN MORE ^

## CUSTOMER SPOTLIGHT



"With our fast paced atmosphere, the AIRBOX purifies our studio to keep riders safe before, during, and after their indoor cycling classes. Without our AIRBOX we would not feel comfortable being open."

-Milo Miloscia, Las Vegas, NV



FITNESS

IDEAL LOCATIONS TO PURIFY



THE SAFE AIR ZONE

PEAK SERIES-S PURIFIER



FITNESS

IDEAL LOCATIONS TO PURIFY

^ SWIPE UP TO LEARN MORE ^

## CUSTOMER SPOTLIGHT

ELDORADO  
RESORT • CASINO • RESO



PEAK SERIES-S



CASINOS



HOTELS

IDEAL LOCATIONS TO PURIFY





THE

**SAFE AIR**

ZONE 

CUSTOMIZE OPTIONS FOR BRANDING & APPEARANCE



26+ years of clean room technology experience  
based in the United States



PEAK 5 years fan/motor and lifetime  
materials and craftsmanship, APEX 5  
years all inclusive



[www.thesafeairzone.com](http://www.thesafeairzone.com)