



Energy Efficiency Resources

Preserving a better tomorrow

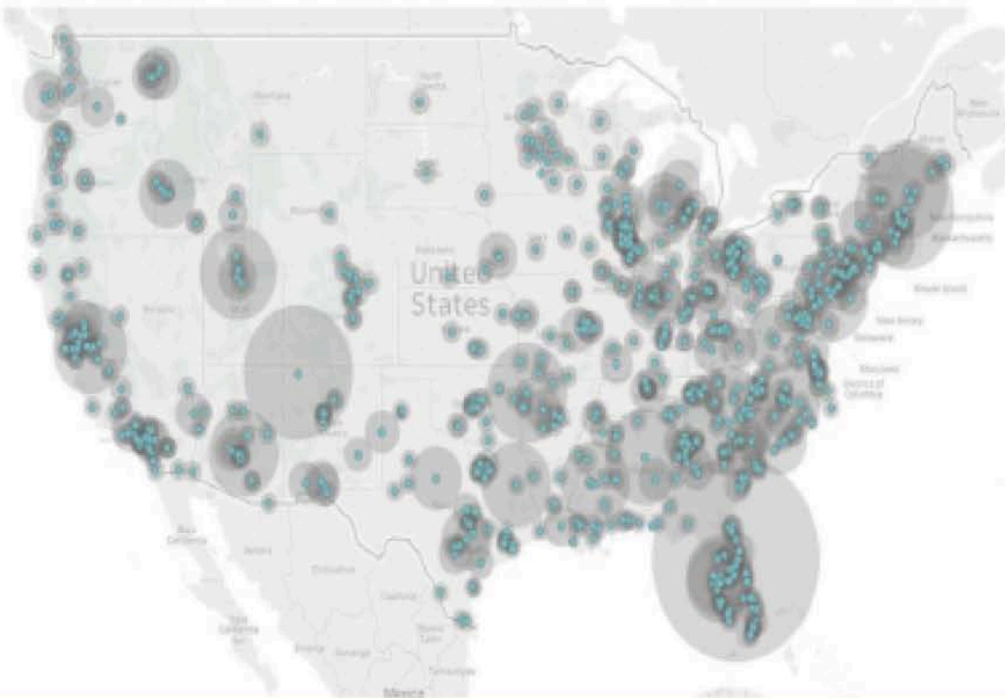
Today!

National HVAC Product Distribution

Sales@eerteam.org

1-833-NowDialEer

NATIONAL **TURNKEY** FOOTPRINT



Commercial & Residential
HVAC, Plumbing & Electrical

1,400+ distribution locations
Equipment, IAQ, Parts & Supplies

Convenient Locations and Delivery
options

State-of-the-art central logistics center

Continuous re-stocking of our
Company-Owned branches





SARS-CoV-2

Laboratory Name: Innovative Bioanalysis

Cap Lic No: 9501843

Date: 5/27/2020

Pathogen Tested: SARS-CoV-2

INNOVATIVE
BIOANALYSIS
creating solutions | getting results



SENSITIVITY TEST

Objective:

Global Plasma Solutions' GPS-DM48-AC model to assess its ability to neutralize SARS-CoV-2 in high-ion concentration specialty applications.

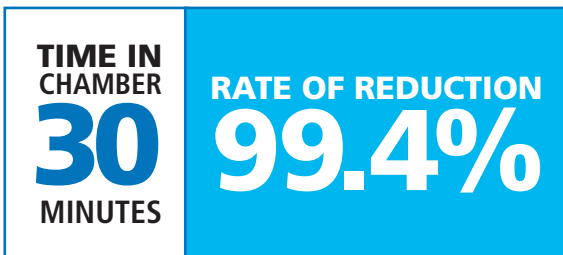
Methodology:

Single RE22 control chambers were set on a stainless steel table with pressure verification seals. The chambers had an internal working dimension of 16.5"W x 9"H x 12"D for a total cubic footage of 1.031. Under initial observation it was determined to seal the unit completely with no intake or exhaust port. Testing and control were conducted in an average ambient temperature of 72.6 degrees Fahrenheit.

A singular fan unit was set up at a 45-degree angle and affixed to the testing chamber. The initial control fan speed was measured at an average of 870 Ft/m. Under the original control section, the primary fan was set 10 inches away from ion production unit A and the average air flow speed past the ion producing nodes was 250Ft/m.

Experimental Results:

SARS-CoV-2 was exposed to needlepoint bipolar ionization for a period of 10, 15, and 30 minutes. Based on viral titrations it was determined that at 10 minutes 84.2% of the viral particles became inactive, at 15 minutes 92.6% of the viral particles became inactive, and at 30 minutes 99.4% of the viral particles became inactive.



Independent Laboratory Testing Results Summary



PATHOGEN	TIME IN CHAMBER	RATE OF REDUCTION	TESTING LAB
SARS-CoV-2	30 MINUTES	99.4%	INNOVATIVE BIOANALYSIS <small>creating solutions getting results</small>
Norovirus*	30 MINUTES	93.5%	ATS LABS <small>EXCELLENCE IN ANTIMICROBIAL TESTING</small>
Human Coronavirus**	60 MINUTES	90.0%	ALG <small>ANALYTICAL LAB GROUP</small>
Legionella	30 MINUTES	99.7%	EMSL
Clostridium Difficile	30 MINUTES	86.8%	EMSL
Tuberculosis	60 MINUTES	69.0%	EMSL
MRSA	30 MINUTES	96.2%	EMSL
Staphylococcus	30 MINUTES	96.2%	EMSL
E. Coli	15 MINUTES	99.6%	EMSL

* Surrogate for Norovirus, actual strain tested was Feline Calicivirus, ATCC VR-782, Strain F-9

** Surrogate for Human Coronavirus SARS-CoV-2, actual strain tested was Human Coronavirus 229E

GPS IAQ FC-24 / FC-48

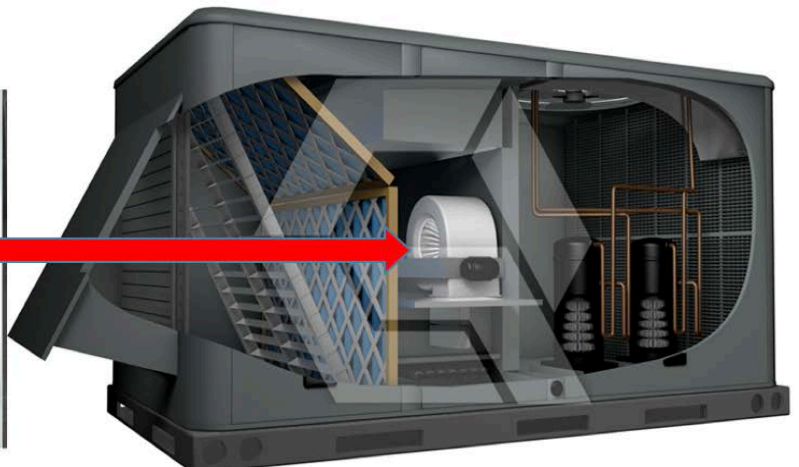
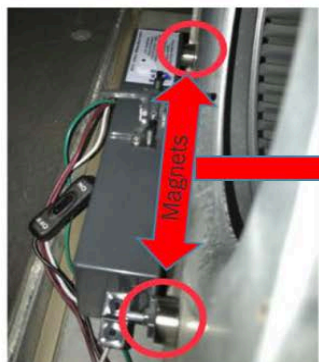
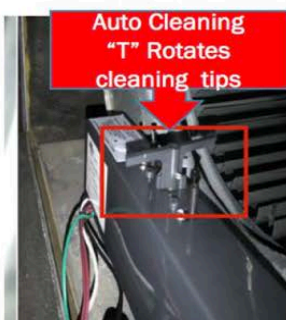
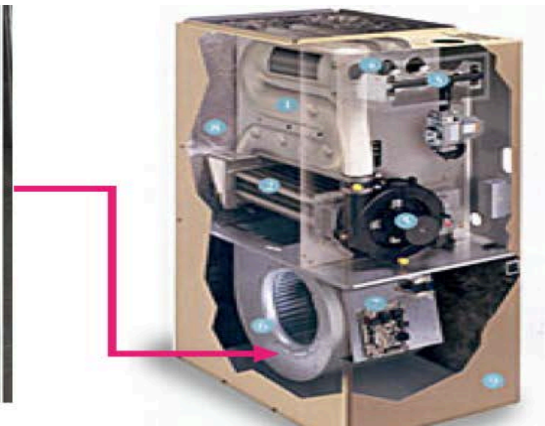
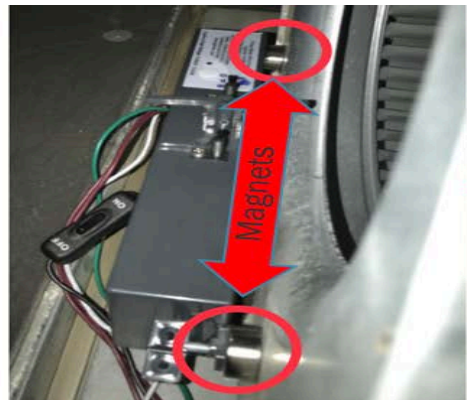
Benefits:

- 1) Only Manufacturer to date that has been able to test against Covid-19. Up to 99.4% inactivation in 30 minutes.
- 2) Products in stock! Most major IAQ manufacturers have a 2-5 Month Lead Time!
- 3) Ease of Install for contractor, magnetically connects to the inlet of the blower.
- 4) No UV bulb to replace annually or biannually.
- 5) Auto Cleaning function!

NOTABLE CLIENTS:

The White House
UAE Presidential Palace
Google
Amelia Arena
Boeing
Boston Children's Hospital
Mayo Clinic
Houston Memorial Hospital
Baylor UMC

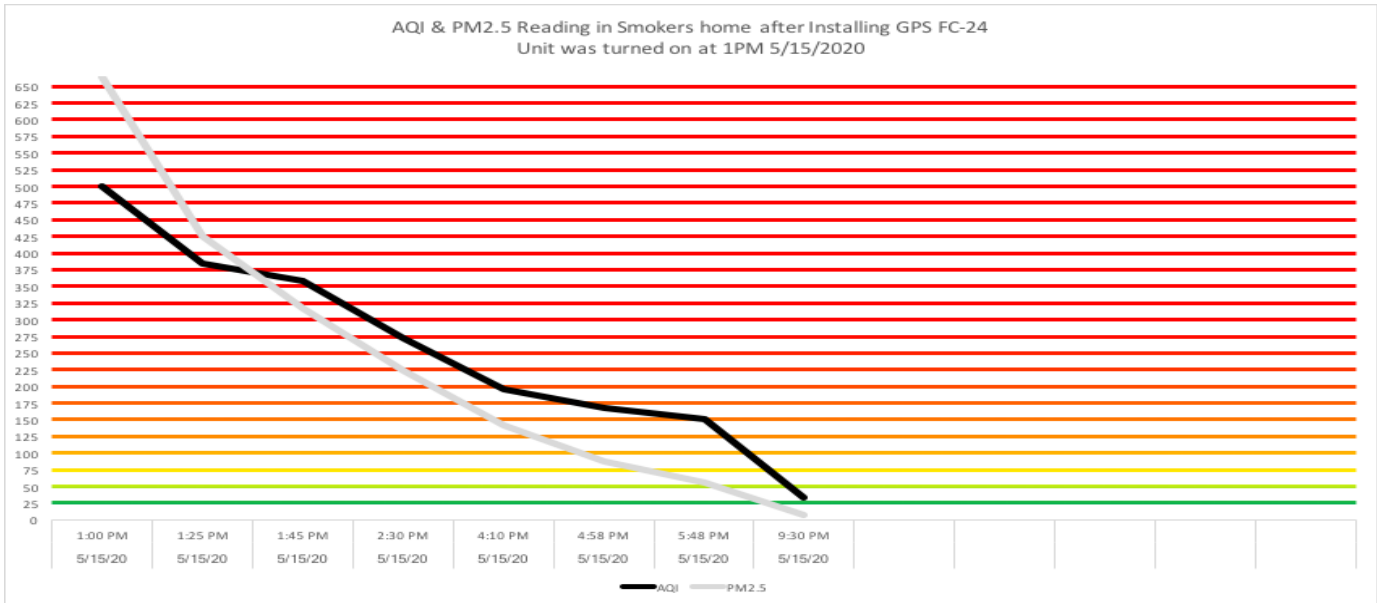
Clemson University
Harvard University
Charlotte Airport
WeWork
80% of the Top 100 K-12
In Georgia, including the top 10!
top 10!



GPS IAQ FC-24-AC Case Study

IAQ Test

A EER Customer recognized that the IAQ (Indoor Air Quality) was likely bad and commissioned us to confirm her theories and thankfully she did! As unfortunately the IAQ was indeed bad! After testing we found that the AQI (Air Quality Index) was 500+ (Should be 0-50) and the PM2.5 (Particulates 2.5 Micrometers or less) was at 665 (Should be 0-12.0) With that the levels had been deemed Hazardous! From there it was determined an installation of the GPS FC-24-AC would be the next step and at 1PM on May 15th 2020 that's just what we did! Little did we know that in 8.5 hours the IAQ levels would go from Hazardous to safe!



Health Parameter Guide							
PM2.5	PM10	AQI	CO2(ppm)	Status	HCHO(mg/m ³)	TVOC (mg/m ³)	Displayed Contents
0.0-12.0	0-54	0-50	0-700	Good	0-0.1	0-0.5	Safe
12.1-35.4	55-154	51-100	701-1000	Moderate	> 0.1	> 0.5	Unsafe
35.5-55.4	155-254	101-150	1001-1500	Unhealthy for Sensitive Groups			
55.5-150.4	255-354	151-200	1501-2500	Unhealthy			
150.5-250.4	355-424	201-300	2501-5000	Very Unhealthy			
≥250.5	≥425	≥301	≥5001	Hazardous			

