Singapore Projects:


Ascent 2 Sciences Park Drive


ISEAS-Yusof Ishak Institude
(National University of Singapore)


Equinix SG3

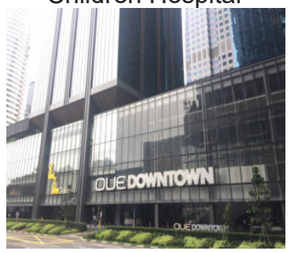

Raffles Hospital


KK Woman &
Children Hospital

Avago Technologies


JTC CleanTech Two


OUE Bayfront



OUE Downtown

Mandarin Galley


Trinity Christian Centre

Manulife

Ikea Tampines


Amphenol FCI
Connectors

Singapore Botanic Gardens
Singapore Botanic Garden
(National Parks Boards)

SINGAPORE GREEN BUILDING PRODUCT SGBC

Sole Distributor for ASEAN
Airwave Pte Ltd
Blk 1029 Eunos Avenue 7
#01-61, Singapore 409580
Tel:(65) 6743 8888
Fax:(65) 6748 7488

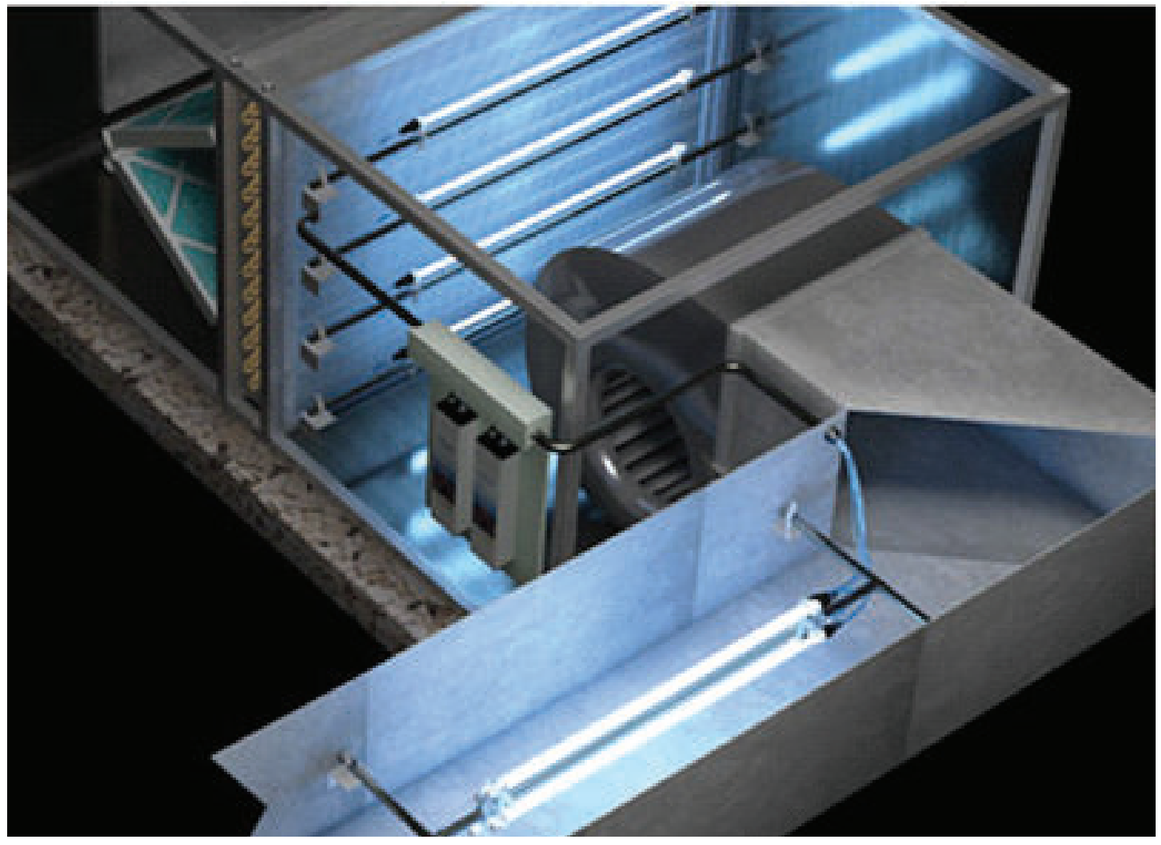
Email: sales@airwave.com.sg
Web site: www.airwave.com.sg

AIRWAVE

FRESH-AIRE UV®

SINGAPORE GREEN BUILDING PRODUCT SGBC

Commercial Series
UV Light Disinfection



ALL PARTS LIFETIME WARRANTY EXCEPT LAMPS

AIRWAVE QUICKER CLEANER AIR

UVC the Solution to your Bacteria, Germs, Viruses, Mold and Fungi Problem

CONTENTS

Satisfied Customers:

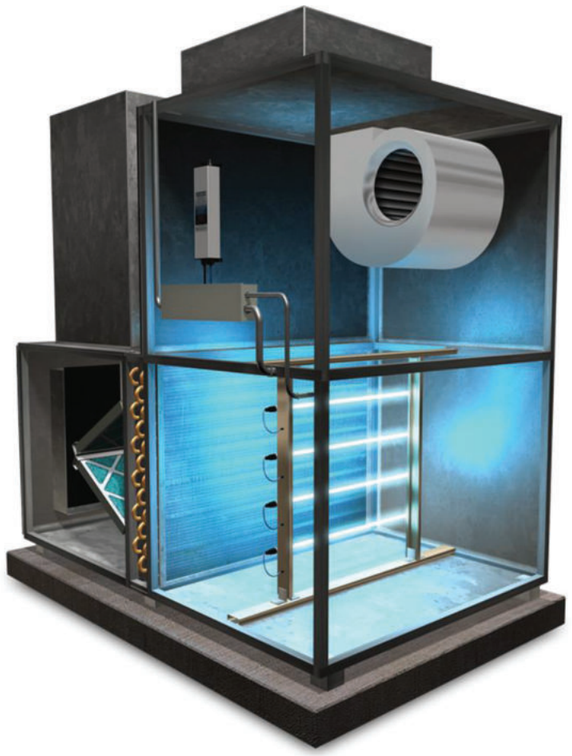
Airwave has installed the Fresh-Aire UV Systems across the 2 buildings.

This product is highly effective at eliminating mould, bacteria and viruses whilst also maintaining cooling coil cleanliness and maintenance frequency.

JTC CleanTech Two a*

Equinix SG3

UVC Germicidal Lamp (Made In U.S.A) the Solution to Your Bacteria, Germs, Mould and Fungi Problems In The AHUs



Heating, Refrigerating, and Air-conditioning Engineers (ASHRAE) *62.1, Ventilation for Acceptable indoor Air Quality,* allows for reduced outdoor air requirements when an 'air-cleaning' system is used to remove gaseous airborne contaminants in the re-circulated indoor air. Reducing outdoor air and the costs for conditioning it, promise significant energy savings says Dean Tompkins, PhD, P.Eng., an air purification and IAQ consultant, and past chair of the ASHRAE Technical Committee 2.3,

UV-C increases HVAC coil efficiency

UVGL is an established technology for both surface and airborne disinfection in HVAC systems. The technology works by scrambling the DNA of micro-organisms-like mould, bacteria, viruses, and allergens- that prevents them from reproducing. The UVGI lights are typically positioned downstream facing the coils in air-conditioning systems.

Although effectiveness depends on exposure time and micro-organism type, all viruses, bacteria, mould, and other microbes are destroyed by UVGI light. Microbial growth affects HVAC system efficiency by fouling interior surfaces. Biological contaminants adhere to HVAC coils, which offer ideal environments for microbial growth. If left unchecked, microbial growth can coat air conditioning coils with multiple layers. This hinders the heat -transfer process and increases static pressure, which causes longer HVAC system run times to satisfy set -point temperatures.

Keeping coils clean might be considered a maintenance and IAQ expense, but it pays back in energy efficiency. Small amounts of coil surface dirt, debris or biological growth can significantly decrease operating efficiency.

Ultraviolet germicidal irradiation (UVGI) is an established technology for both surface and airborne disinfection in HVAC systems. The technology uses ultraviolet (UV).C light to scramble the DNA of micro-organ isms- such as mould, bacteria, viruses, and allergens- and prevents them from reproducing. The UVGI lights are typically positioned downstream in an air handling unit (AHU) facing the coils.

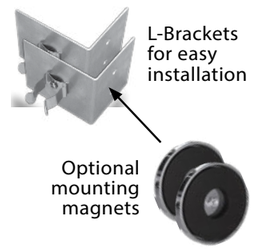
Florida Hospital, an Orlando-based healthcare system with more than 2800 beds in locations throughout the state, documented the maintenance-reducing effects of UVCI installed in air-handling units (AHUs). The facility's chief mechanical engineer (CME) Firouz Keikavousi, suggests use of UVGI improved static pressure, air velocity, and temperature in a test HVAC system.

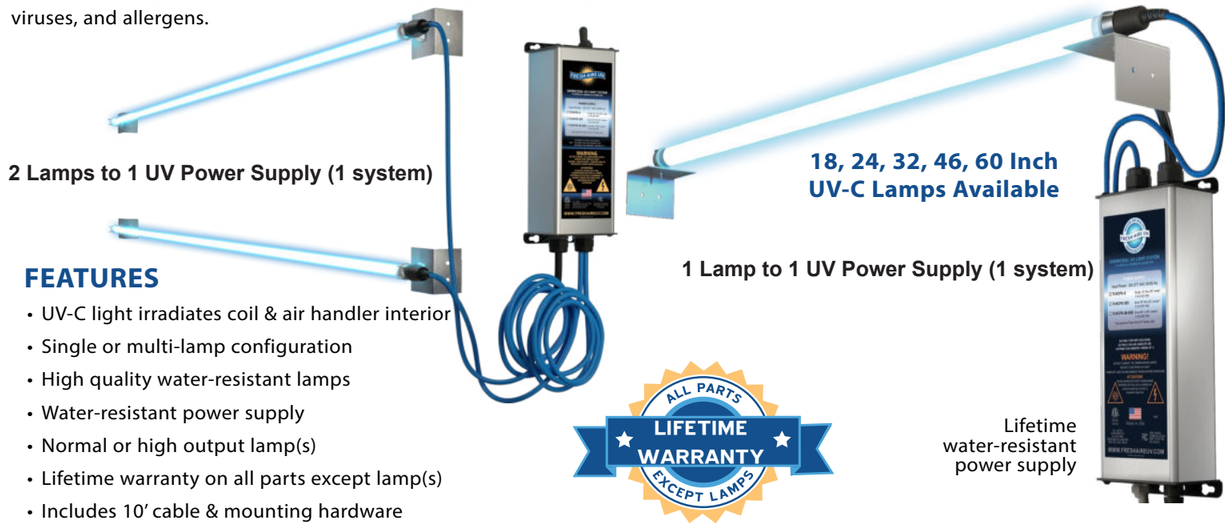
FRESH-AIRE UV®

COMMERCIAL SERIES

Standard Commercial UV Light Kit

This system is designed to save energy and maintenance costs associated with commercial HVAC. A biofilm (mold on coils) of only 0.002" can reduce efficiency by 37%! Ultraviolet germicidal irradiation (UVGI) is the most cost-effective and practical solution. The Standard Commercial UV System from Fresh-Aire UV® offers easy and flexible installation. It includes an advanced multi-voltage water-resistant power supply. All parts (except lamps) are covered by a lifetime warranty. It also improves indoor air quality by sterilizing airborne bacteria, viruses, and allergens.



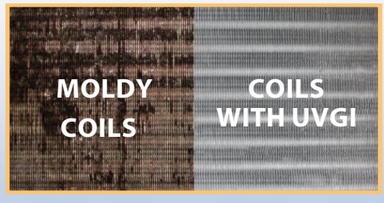


FEATURES

- UV-C light irradiates coil & air handler interior
- Single or multi-lamp configuration
- High quality water-resistant lamps
- Water-resistant power supply
- Normal or high output lamp(s)
- Lifetime warranty on all parts except lamp(s)
- Includes 10' cable & mounting hardware
- Optional Teflon® safety coating

BENEFITS

- Kills mold, bacteria, and viruses in the HVAC system
- Saves energy by keeping components cleaner
- Lowers maintenance costs – reduced required cleanings
- Reduces worker exposure to dangerous chemicals
- Cost effective



UVGI suppresses microbial growth on HVAC coils and surrounding areas

2 Year Lamp High Output (18,000 hrs)

Made in USA

Optional Items:

UV-C Radiometer

Installation:
This device is used to monitor the microwatt UVC intensity (µw/cm2)of a Fresh-Aire UV lamp (or multiple lamp installation) at start up and throughout the useful life of the lamp(s).

Design it Right

Our free BlueCalc™ service/software makes system configuration & ROI estimation easy.

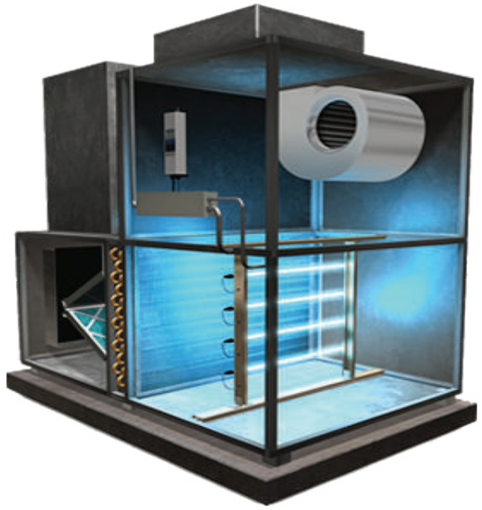
Factory Enclosed UV Power Supply with Local UV Control Panel

Optional BMS interface card with Fault Signal. It can also install with BMS Commands Start, Stop, Run Status & Fault Status as optional item.

FRESH-AIRE UV®

COMMERCIAL SERIES

Installation of Factory Non Enclosed Ballast in Local UV Control Panel



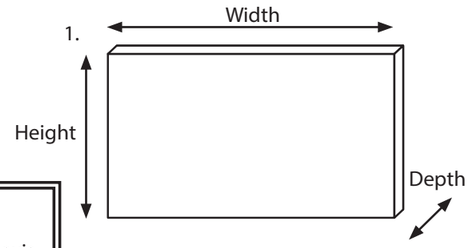
Factory Non Enclosed UV Ballast in Local UV Control Panel
Optional BMS interface card with Fault Signal.
It can also install with BMS Commands Start, Stop, Run Status & Fault Status as optional item.

Installation of UV Lamps inside the AHU Chamber

System Configuration

1. Determine the dimensions of the coils or area to be irradiated.

2. Use the following guidelines to estimate the number of lamps needed for proper coverage.

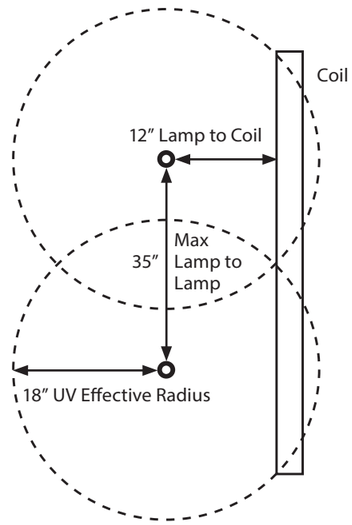


UV Lamp Configuration Guidelines
- Maximum germicidal effectiveness is within an 18" radius from UV lamp center axis
- The optimal distance between UV lamp(s) and the irradiated surface is 12"
- The distance between stacked UV lamps should not exceed 35"
- The distance between end to end UV lamps should not exceed 12"
- The distance of UV lamp ends to the edge of irradiated surface should not exceed 6"

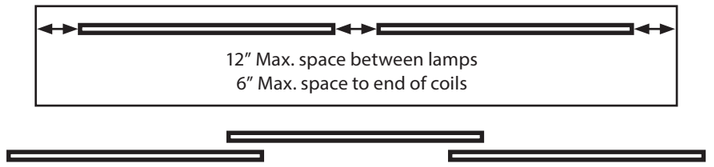
Fresh-Aire UV offers a free system configuration consultation service for commercial projects. Contact Fresh-Aire UV for details.

3. Before attaching the L-Brackets for mounting use the Optimal Irradiation Distance and Lamp Spacing diagrams to confirm that when installed the Uv Lamps will be positioned properly.

Optimal Irradiation Distance



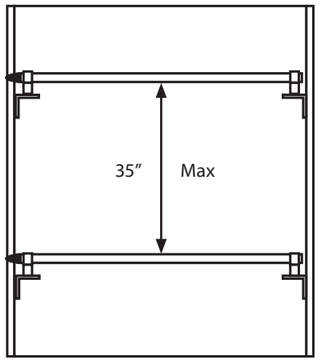
Lamp Spacing



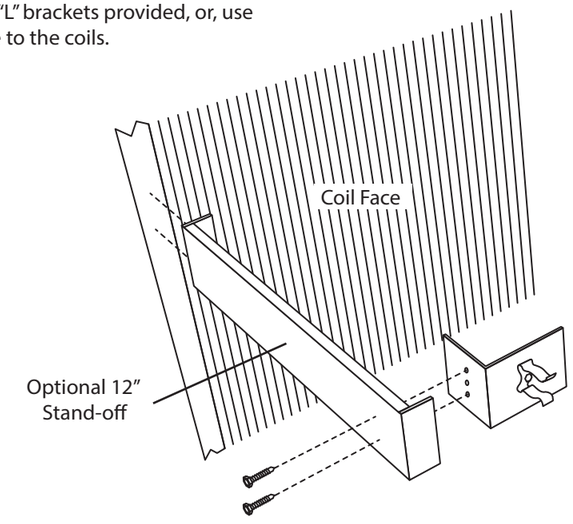
Overlap lamps where necessary

4. UV lamps are mounted into the air handler using the "L" brackets provided, or, use Optional 12" Stand-offs to achieve optimal distance to the coils.

Standard UV Spacing



Single UV lamp per EMT piece



Use Optional 12" Stand-offs to change the distance to the coil

Factory have 2 different method treating the air showing on the BlueCalc Report on Coil Sizing & Air Sizing for different quantity of UV lamps.

BLUECALC™

Coil Sizing (For 41,326 CMH) (SDS = Surface Disinfection)

SURFACE ANALYSIS - REPORT

Customer / Project : **2413x1981mm NO reflector m3h**

Surface Data

Width	2413	mm
Height	1981	mm
Distance from Surface	750	mm
Number of Rows	3	
Number of Lamps per Row	2	
Total number of UV lamp fixtures	6	

Irradiation Data

UVC factor 3

Minimum Irradiance on the Surface	342	µW/cm2
Average Irradiance on the Surface	579	µW/cm²
Maximum Irradiance on the Surface	733	µW/cm²

Microbe Survival Time at end of UVC lamp life (18000h)

CORONAVIRUS		
Disinfection Rate	99	%
Maximum Survival Time	3.6	s
Minimum Survival Time	1.7	s
Average Survival Time	2.2	s

UVGI Lamp Data

Number of lamps	6	
Lamp Model	TUVCL-246-HO	
UVGI Power per Lamp	34	W
Lamp Length	1148	mm
Lamp Diameter	15	mm
Electrical Power per Lamp	100	W
Electrical Power (Total)	600	W
Reflector/Shield	No	
Lamp position	DOWNSTREAM	

Installation (row height and column left edge)

Row 1	330 mm	Column 1	29 mm
Row 2	990 mm	Column 2	1235 mm
Row 3	1651 mm		

Irradiation at the surface

Lamp Installation Positioning

Note:

1) The above sizing is based on the irradiance on the coil.

2) Using 6pcs of 46” High Output Lamp, to provide a minimum of 342µW/cm2 on the coil surface. Meet the ASHRAE’s guideline of 50 to 100µW/cm2.

BLUECALC™

Air Sizing (For 41,326 CMH) (CADS = Crossflow Air Disinfection)

CROSSFLOW AIR DISINFECTION ANALYSIS - REPORT

Customer / Project: **2413x1981mm NO reflector m3h**

Duct Data

Duct Width	2413	mm
Duct Height	1981	mm
Distance Before Lamp(s)	0.75	m
Distance After Lamp(s)	0.75	m
Airflow	41326	m3/h
Air Velocity	472.73	ft/min (2.4 m/s)
Duct Wall Material	None	
Windchill Factor	Yes	

UVGI Lamp Data

Model	TUVCL-246-HO	
Number of Units	10	
Lamp Length	1050	mm
UVGI Power per Lamp	34	W
Electrical Power per Lamp	100	W
Electrical Power (Total)	1000	W
Teflon coating	no	
Reflector	No	

UVC Germicidal Dose

	1 pass	6 passes
Average	1417	8500 µJ/cm2

Exposure time

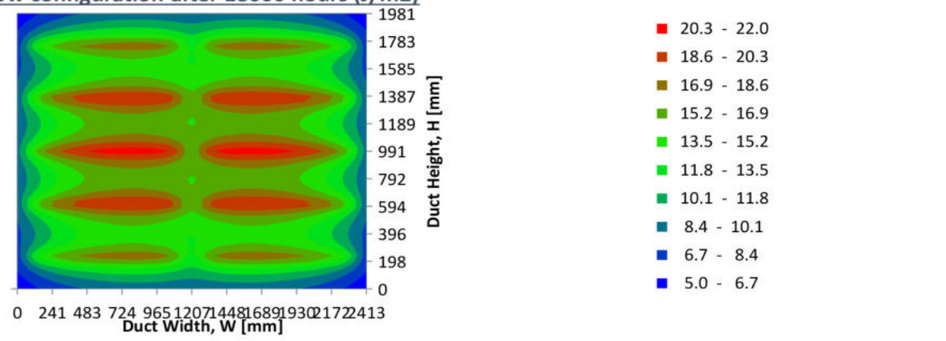
Before Lamp(s)	0.312 s
After Lamp(s)	0.312 s
TOTAL exposure time	0.625 s
Air temperature increase	0.17 °C

Inactivation rates at the end of UVC lamp life (18000h)

Microorganism	D_{90} dose [J/m²]	Single Pass		Recirculation (6 passes)	
		Average	LOG Avg	Average	LOG Avg
Coronavirus	6.1	99.52%	2	> 99.99%	> 4
Influenza A virus	19.4	81.39%	0	> 99.99%	4
Legionella Pneumoph	5.2	99.82%	2	> 99.99%	> 4
Tuberculosis	10.8	95.12%	1	> 99.99%	> 4

The minimum and maximum UVC dose values are calculated and shown to indicate regions with the highest and lowest UVC irradiance.
The distribution of energy and minimum values help to identify possible worst-case scenarios in the ducts with laminar airflows.
Average UVC dose is most significant parameter as it is highly unlikely that airflow inside any duct is laminar. In the vast majority of applications, airflow is turbulent and therefore the average UVC dose is the most useful parameter for the in-duct UV disinfection model.

UVC dose in cross-flow configuration after 18000 hours (J/m2)



Note: 4-log inactivation equals 99.99%. Higher than 4-log inactivation are achieved in real-life scenarios but the exact predictions/model would be inaccurate because the UV disinfection analysis utilises single stage decay data and equations.

Note:

1) The above sizing is done for a Crossflow installation on the air, the intensity on the coil will always be more than enough to keep the coil clean.

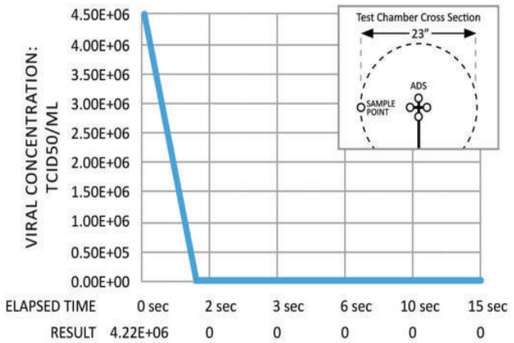
2) Using 10pcs of 46” High Output Lamp, to provide a minimum of 569µW/cm2 on the coil surface.

FRESH-AIRE UV®

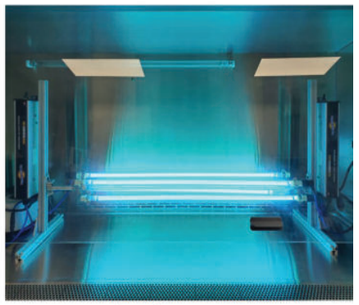
SARS-COV-2 TEST RESULTS

Fresh-Aire UV, a world-leader in HVAC ultraviolet disinfection systems, has successfully completed phase-1 third-party testing of their residential, commercial, and healthcare products for effectiveness against SARS-CoV-2 (the virus which cause the COVID-19 disease). In the test report titled "SARS-CoV-2 Neutralization by Germicidal UV Light System from Fresh-Aire UV" the systems delivered greater than 4-log inactivation (>99.99%) on the SARS-CoV-2 virus within 0-2 seconds of exposure to Fresh-Aire UV UVC 254nm light systems.

Fresh-Aire UV ADS system sampled within 23" field



The testing was conducted by ***Innovative Bioanalysis*** a CAP, CLIA, and AABB certified laboratory (CA, USA). The test was designed to model exposure time comparative to inactivating the SARS-CoV-2 virus in the moving airstream within the HVAC or ventilation system. Products tested were the Fresh-Aire UV ADS™ (duct-mounted airborne disinfection) for commercial and healthcare applications, Blue-Tube XL™ (HVAC coil and airborne disinfection) for commercial and healthcare applications, and APCO-X™ (HVAC coil and airborne disinfection with VOC/odor reduction) for both residential and commercial applications. Phase-2 testing is currently underway.



ADS™ in test chamber

APCO-X™ in test chamber

INACTIVATES >99.99% OF SARS-COV-2 WITHIN 0-2 SECONDS!

According to Aaron Engel, Vice-President of Business Development at Fresh-Aire UV: ***"Fresh-Aire UV has been manufacturing proprietary germicidal UV systems for 20 years, and with everything we know about the SARS-CoV-2 virus combined with our testing experience, we were confident our systems would be very effective at inactivating the virus. We now have independent verification of the successful inactivation of the SARS COVID-19 virus and an even better understanding of how well our disinfection systems perform within the HVAC system, duct work and on surfaces. We are thrilled."***

Since the onset of the COVID-19 pandemic, Fresh-Aire UV has been providing UV system recommendations for residential, educational, commercial and healthcare facilities. Fresh-Aire UV systems were also used in the FDA sponsored testing of UVC's ability to disinfect and extend the life of N95 masks as published in the American Journal of Infection Control. With the latest SARS-CoV-2 phase 1 test, Fresh-Aire UV now has validation as a global provider of germicidal UV systems for air and surface disinfection.

Fresh-Aire UV is recognized the world over as a leader in the areas of UV light disinfection and indoor air quality. Our products reduce indoor air pollution, sterilize viruses, bacteria, and mold, neutralize odors and VOCs, and provide chemical-free air and surface disinfection. Fresh-Aire UV is the innovation leader with numerous patents and industry awards, including the AHR Innovation Award for Indoor Air Quality for 2011 and 2020.

intertek
Total Quality. Assured.

AUTHORIZATION TO MARK

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing Report.

This document is the property of Intertek Testing Services and is not transferable. The certification mark(s) may be applied only at the location of the Party Authorized To Apply Mark.

Applicant:	Fresh-Aire UV	**Manufacturer:**	Triatomic Environmental, Inc.
Address:	1838 Park Lane South Jupiter, FL 33458	**Address:**	1838 Park Lane South Jupiter, FL 33458
Country:	USA	**Country:**	USA
Contact:	Mr. Chris Willette Mr. Chad Knapp	**Contact:**	Mr. Chad Knapp
Phone:	561-748-4864	**Phone:**	561-748-4864
FAX:	NA	**FAX:**	NA
Email:	chris@freshaireuv.com chad@freshaireuv.com	**Email:**	chad@freshaireuv.com

Party Authorized To Apply Mark: Same as Manufacturer
Report Issuing Office: Atlanta, GA

Control Number: 3032782 **Authorized by:** for Dean Davidson, Certification Manager

C ETL LISTED US
Intertek

This document supersedes all previous Authorizations to Mark for the noted Report Number.

Intertek Testing Services NA Inc.
545 East Algonquin Road, Arlington Heights, IL 60005
Telephone 800-345-3851 or 847-439-5667 Fax 312-283-1672

Standard(s): Luminaires [UL 1598:2018 Ed.4]
Luminaires [CSA C22.2#250.0:2018 Ed.4]

UVC Disinfection Used in Occupied Space

FEATURES/BENEFITS

Safe	Louvered UVC light is safe for occupied spaces Produces no harmful ozone
Effective	Inactivates all types of airborne viruses & bacteria APCO technology for odor and VOC reduction
Quiet	Air convection for silent operation
Practical	Single UVC germicidal lamp length: 15", 24", 32", or 60" Quick & simple installation 2 year UVC lamp life
Durable	Robust aluminum construction
Lifetime Warranty	Ensures years of trouble free operation

FRESH-AIRE UV LIFETIME WARRANTY ALL PARTS EXCEPT LAMPS

FRESH-AIRE UV OZONE FREE

UPPER AIR DISINFECTION FOR OCCUPIED SPACES

The need to protect occupied spaces from airborne pathogens has never been greater. Fortunately, Fresh-Aire UV germicidal lights have been proven to neutralize viruses, mold, and bacteria within seconds of exposure.

The Fresh-Aire UV Aire-Foil features 15" - 60" UVC lamps and is wall-mounted near ceiling height. Upper air UV-C disinfection is an ideal method to mitigate the spread of microorganisms in occupied spaces. As air naturally heats and cools it moves by convection, which continuously circulates it throughout the space. Airborne viruses and bacteria are sterilized when exposed to the UVC light field.

The Aire-Foil unit is installed at a minimum height of 7' and is designed with louvers that shield occupants from UV exposure by projecting UVC light rays parallel to the plane of the ceiling.

DESIGNED & ASSEMBLED IN THE U.S.A.

AIRWAVE QUICKER CLEANER AIR

FRESH-AIRE UV
The Indoor Air Quality Expert

AIRE-FOIL
UPPER AIR UVC DISINFECTION

SPECS

	Lamp	Dimensions in			Electrical		Application Area
CE Model Numbers		Width	Depth	Height	Input Watts	Voltage	
TUVC-UAFS-215S-HO-CE	15" (381mm)	23.9 (607mm)	6.3 (160mm)	4.6 (116.8mm)	36w	110-277 VAC	100 sq. ft.
TUVC-UAFS-224S-HO-CE	24" (609mm)	33.8 (858.5mm)	6.3 (160mm)	4.6 (116.8mm)	57w	110-277 VAC	260 sq. ft.
TUVC-UAFS-232S-HO-CE	32" (812mm)	43.7 (1109.9mm)	6.3 (160mm)	4.6 (116.8mm)	80w	110-277 VAC	390 sq. ft
TUVC-UAFS-260S-HO-CE	60" (1524mm)	71.0 (1803mm)	6.3 (160mm)	4.6 (116.8mm)	130w	110-277 VAC	780 sq. ft.

Custom lamp options available.

Neutralizes Mold, Bacteria, Viruses, and Allergens

COMMERCIAL SERIES

Environmental Surface Disinfection System (ESDS)

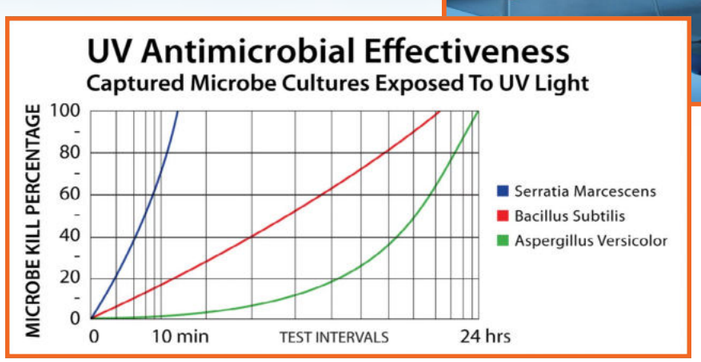
The Environmental Surface Disinfection System (ESDS) from Fresh-Aire UV® Commercial Series addresses the need for surface disinfection in spaces that are prone to biological contamination or where biohazards must be kept to an absolute minimum. ESDS uses germicidal UVC light to disinfect room surfaces when the area is unoccupied. The UVGI system features overhead mounted high-output germicidal UVC light fixtures. Each unit comes with an internal electronic power supply. The Fresh-Aire UV lamps included with ESDS are of the highest quality hard quartz and are encased in a shatter-proof Teflon safety coating.

Safety First

Because UVC light is dangerous to human skin and eyes the ESDS system only comes on when the area is unoccupied. A timer can be used for start and stop times. Additional safety features can include door-mounted interlock switches to prevent accidental exposure.

Proven Effective

Fresh-Aire UV Commercial Series UVC lights are proven to sterilize 99.9% of surface microbial contaminants within minutes of exposure. Fresh-Aire UV is a world leader in UV light disinfection and indoor air quality.



Ideal for Healthcare & Related Applications

COMMERCIAL SERIES

ESDS System

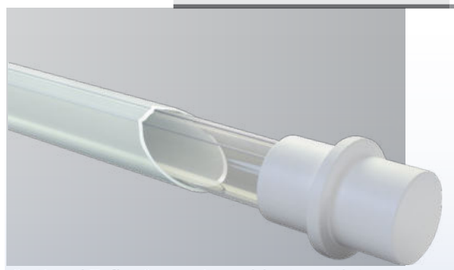
- Sterilizes biological contaminants in unoccupied rooms
- Kills airborne germs as they pass by
- Timers and Interlock switches can be used for safety
- Chemical-free disinfection

ESDS Advantages:

- No manpower needed to move disinfection equipment
- Motion sensors (optional) for safe & convenient operation
- Disinfection results within 20 minutes
- Economical yet effective option
- Dual lamps coverage to 50~80m² (Subject to layout)

KIT INCLUDES	DIMENSIONS
Aluminum fixture/ housing, 120 - 277 VAC, 2A power supply, 32" High output lamp(s), lamp connector and instruction sheet	UV light fixture: 36" L x 3.375" W x 2" H

KIT PART #	LAMP DESCRIPTION	LAMP PART #
TUVC-ESDS-232S-HO-CE	32" 18000 hrs, high output, single	TUVCL-232HO
TUVC-ESDS-232D-HO-CE	32" 18000 hrs, high output, dual	TUVCL-232HO
TUVC-ESDS-232S-TFHO-CE	32" 18000 hrs, high output, Teflon® single	TUVCL-232HO-TF
TUVC-ESDS-232D-TFHO-CE	32" 18000 hrs, high output, Teflon® dual	TUVCL-232HO-TF



Optional Teflon® covering adds strength to the lamp and prevents a broken lamp from shattering.

ESDS Single Lamp Fixture

ESDS Dual Lamp Fixture

Made in USA

FRESH-AIRE UV®

BLUE-TUBE UV

Best-Selling Germicidal UV Light

BLUE -TUBE UV®
The most popular Germicidal UV Light system in the world because of its reliability, ease of installation, innovative features, and quality components.

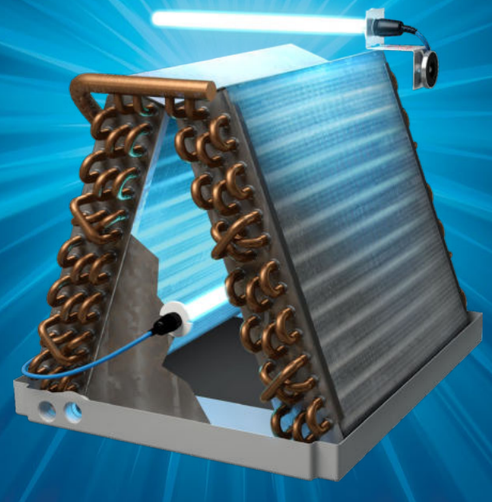
New eco-friendly packaging makes installation and recycling easier

KILLS
MOLD
BACTERIA
VIRUSES

Coils with Mold

Coils with BLUE-TUBE UV®

Improves Indoor Air Quality For Your Office



2 YEAR

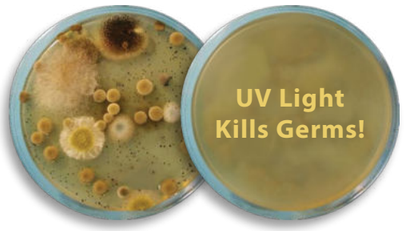
FRESH-AIRE UV®

BLUE-TUBE UV®

Blue-Tube UV Specifications	
UV Lamp	254 nm germicidal UV-C, quartz hot filament
Dimensions	Lamp: 15"L x 0.74" Dia. ER Power Supply: 4.1"W x 1.7" H x 1.8"D ST Power Supply: 5.0"W x 1.1" H x 2.4"D
ER models Electrical	18-32 VAC, 60 Hz, 0.68 Amps, 16 VA
ST models Electrical	120-277 VAC, 50/60 Hz, 0.51 Amps/120V Thru 0.22 Amps/277V
Kit Includes	Power Supply, 6' Lamp Cable, UV Lamp, Magnetic 'Z' Bracket, Mounting Hardware, Panel Indicator, Installation Sticker
Warranty	Lifetime for all parts except lamp

Part Numbers		
18-32 VAC		Replacement Lamp
TUV-BTER	**1 Year Lamp**	TUVL-115P
TUV-BTER2	**2 Year Lamp**	TUVL-215P
120-277 VAC		Replacement Lamps
TUV-BTST	**1 Year Lamp**	TUVL-115P
TUV-BTST2	**2 Year Lamp**	TUVL-215P

US patent #7,704,463



Scientific studies show UV light can kill 90% of microbes within 10 minutes. After 24 hours 99.9% are killed.

Power Supply Options

"ER" 18-24 VAC

"ST" 110-277 VAC

FRESH-AIRE UV® OZONE OZONE-FREE

ALL PARTS ★ LIFETIME WARRANTY ★ EXCEPT LAMPS

FRESH-AIRE UV®

Made in USA

ADS
AIRBORNE DISINFECTION SYSTEM

The Fresh-Aire UV Air Disinfection System (ADS) delivers exceptional single-pass airborne inactivation of dangerous pathogens such as viruses, bacteria, and mold. Installed parallel to the airstream, the versatile and flexible design of ADS delivers unparalleled disinfection rates by maximizing exposure time with the air. The modular design allows from 2 to 6 high-output UV-C lamps up to 60” in length*. Optional features such as our LED control center with UV sensors, BMS integration and real-time lamp monitoring guarantees the most cost-effective, sophisticated UVGI air disinfection system available.

*Sized according to CFM, duct size, air recirculation rates & target for inactivation.

Airborne Duct System in commercial AHU with Commercial UV Light Kit System for coil disinfection

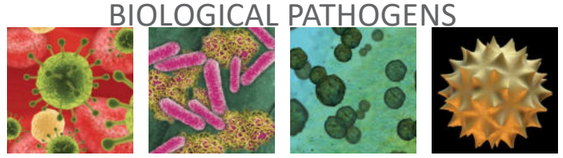
FEATURES

- Choose Grid or Axial configuration for optimal performance
- System features 2-6 high-output 2 year UV-C lamps
- Available lamp lengths: 18”, 24”, 32”, 46”, or 60”
- 110-277V auto-sensing water-resistant power supply
- Includes all mounting hardware and 10’ cable
- Lifetime warranty on all parts except lamps
- Can be configured for single pass or recirculation
- Optional control center with BMS integration

BENEFITS

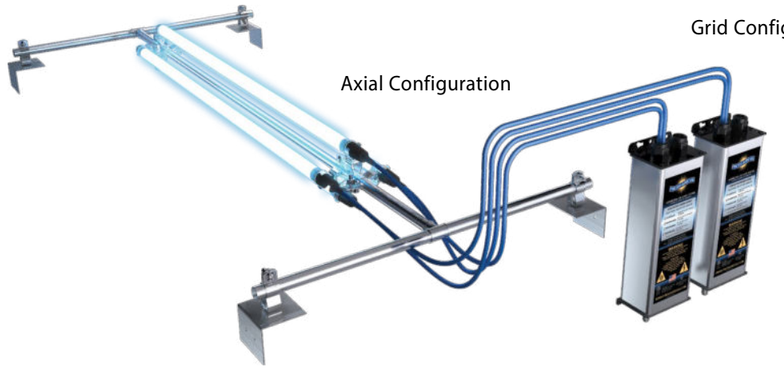
- Improves Indoor Air Quality (IAQ)
- Complements filtration
- Single pass Kills up to 99.9% of microorganisms
- Effective chemical-free air disinfection
- Cost effective

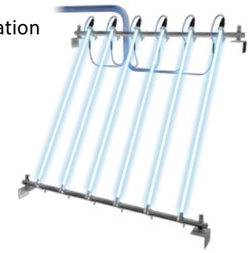
ADS STERILIZES AIRBORNE BIOLOGICAL PATHOGENS



VIRUSES BACTERIA MOLD ALLERGENS

ADS
AIRBORNE DISINFECTION SYSTEM





Fresh-Aire UV ADS Sizing Matrix & Multiple-Pass Airborne Disinfection							
Tonnage or Duct Size or CFM			Air Disinfection	ADS Model	Qty	Configuration	BlueCalc Report**
5 Ton	20 x 14	2000	Recirculation	TUVC-ADS-224**D**-HO	1	Axial	View PDF
			Single Pass	TUVC-ADS-246**Q**-HO	1	Axial	View PDF
7.5 Ton	20 x 18	3000	Recirculation	TUVC-ADS-224**D**-HO	1	Axial	View PDF
			Single Pass	TUVC-ADS-246**Q**-HO	1	Axial	View PDF
10 Ton	24 x 20	4000	Recirculation	TUVC-ADS-224**D**-HO	1	Axial	View PDF
			Single Pass	TUVC-ADS-260**Q**-HO	1	Axial	View PDF
15 Ton	26 x 24	6000	Recirculation	TUVC-ADS-232**D**-HO	1	Axial	View PDF
			Single Pass	TUVC-ADS-260**H**-HO	1	Axial	View PDF
20 Ton	32 x 26	8000	Recirculation	TUVC-ADS-246**D**-HO	1	Axial	View PDF
			Single Pass	TUVC-ADS-260**H**-HO	1	Axial	View PDF
25 Ton	26 x 28	10000	Recirculation	TUVC-ADS-246**D**-HO	1	Axial	View PDF
			Single Pass	TUVC-ADS-260**H**-HO	1	Axial	View PDF
30 Ton	38 x 30	12000	Recirculation	TUVC-ADS-260**D**-HO	1	Axial	View PDF
			Single Pass	TUVC-ADS-260**Q**-HO	2	Axial	View PDF
50 Ton	44 x 38	2000	Recirculation	TUVC-ADS-260**D**-HO	1	Axial	View PDF
			Single Pass	TUVC-ADS-260**H**-HO	2	Axial	View PDF

ADS Model Example: ADS-224**D**-HO: **2** = 2 year lamp | **24** = lamp length | **D** = 2 lamps (**Q** = 4, **H** = 6) | HO = High-Output

**BlueCalc report is for reference only. Contact Fresh-Aire UV for detailed report.

Design it Right

Our free BlueCalc™ service/software makes system configuration & ROI estimation easy.