



# FRESH-AIRE UV

INDOOR AIR QUALITY  
DISINFECTION  
STERILIZATION



RESIDENTIAL  
COMMERCIAL  
INDUSTRIAL  
MEDICAL  
AGRICULTURAL

[WWW.FRESH-AIREUV.COM](http://WWW.FRESH-AIREUV.COM)

# FRESH-AIRE UV

## INDOOR AIR QUALITY INNOVATION

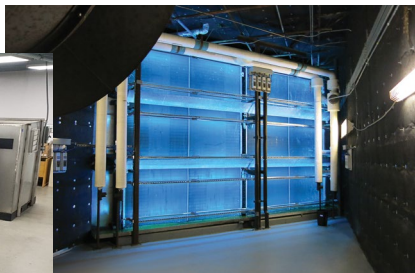
Fresh-Aire UV is recognized the world over as a leader in the areas of UV light disinfection and indoor air quality. Our products reduce indoor air pollution, sterilize viruses, bacteria, and mold, neutralize odors and VOCs, and provide chemical-free air and surface disinfection. Fresh-Aire UV is the innovation leader with over X patents and Y industry awards.



Award-winning residential products such as APCO-X and Blue-Tube UV are worldwide best sellers.



In-house ASHRAE 145.2 Test Chamber



Fresh-Aire UV Commercial UVGI

Every Fresh-Aire UV product benefits from our continuous research and development efforts in the areas of indoor air quality, ultraviolet germicidal irradiation, photocatalytic oxidation, polarized filtration, etc. Products are engineered to the highest standards not only for performance and durability but also for efficient distribution and ease of installation. Fresh-Aire UV is one of the few manufacturers with its own ASHRAE 145.2 Test Chamber for air quality research.



Fresh-Aire UV ESDS System in hospital clean-room

## DOING OUR PART

The recent global pandemic has woken the world up to the true value of UV-C light disinfection and related technologies. Our products have been proven to sterilize all types of viruses, bacteria and mold, in the air and on surfaces. To learn more about our efforts help in fight the pandemic please read the [Fresh-Aire UV Coronavirus Update](#)



Fresh-Aire UV products are manufactured in Jupiter, Florida. We are committed to being responsible members of our community and offer a safe and congenial work environment for our employees.



Our products are made almost entirely in the USA. It is our policy to use American made materials and subcomponents whenever practical.

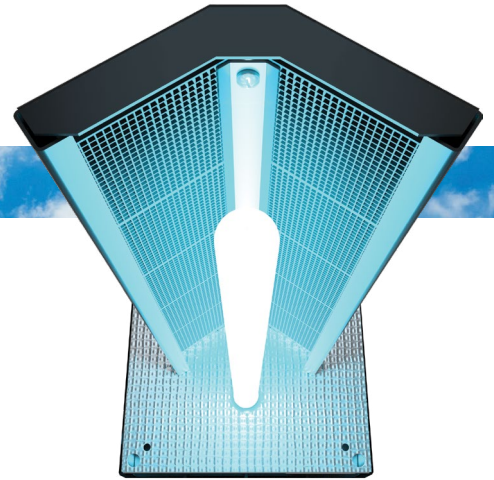


Most of our products also come with a lifetime warranty on all parts (except lamps and media). Fresh-Aire UV takes special pride in our excellent reputation for customer service among HVAC professionals.



# APCO-X

## AIR TREATMENT SYSTEM



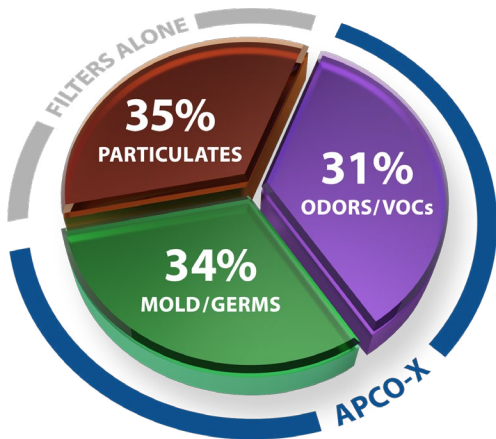
Introducing our most advanced whole-house air treatment system yet. APCO-X is the result of ten years of APCO development. It has revolutionized indoor air quality with significantly improved performance, functionality, and reliability.

### FEATURES

- 33% more effective than previous model in laboratory tests
- V-Twin carbon element with 65% more effective surface area
- EverCarbon™ cells with antimicrobial nanotechnology
- 3 year UV-C lamp
- LED status and lamp fault indicator
- Translucent polycarbonate housing
- Face-plate rotates for vertical or horizontal installation

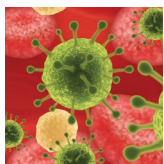
### BENEFITS

- Whole-house air purification
- Neutralizes odors & toxic VOCs
- Kills viruses, mold, & bacteria
- Improves indoor air quality
- Inhibits HVAC mold growth



**APCO-X**  
KILLS VIRUSES &  
NEUTRALIZES VOCs

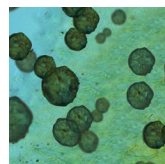
### Kills Microbes & Neutralizes Odors/VOCs



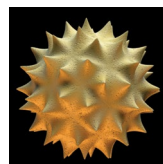
VIRUSES



BACTERIA



MOLD



ALLERGENS



PET ODORS



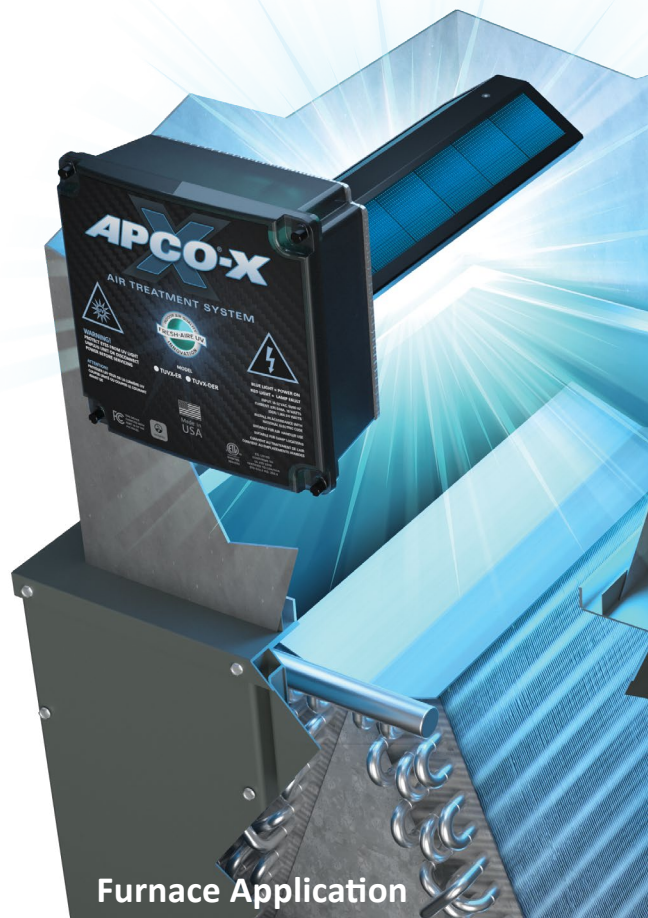
TOBACCO



FOOD SMELLS



CHEMICALS



Furnace Application

# APCO-X



## AIR TREATMENT SYSTEM



An entirely new V-Twin EverCarbon Matrix™ takes APCO-X to a new level of air treatment. The new configuration includes an antimicrobial nanotech coating and 65% more effective carbon surface area resulting in a 33% improvement in performance compared to the original APCO.



Award-winning APCO technology, only from Fresh-Aire UV



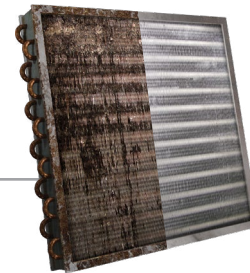
Validated Ozone-Free by UL



Air Handler Application

APCO-X sterilizes biological contaminants and neutralizes odors and toxic VOCs

Coil with Mold



Coil with UV Light

\*APCO-X Dual systems (TUV-APCOX-DER3P & TUV-APCOX-DI3P) include a 2nd UV light for coil disinfection

Purity Low Profile (optional polarized filter) captures particulates down to .3 microns (.00001 inch).



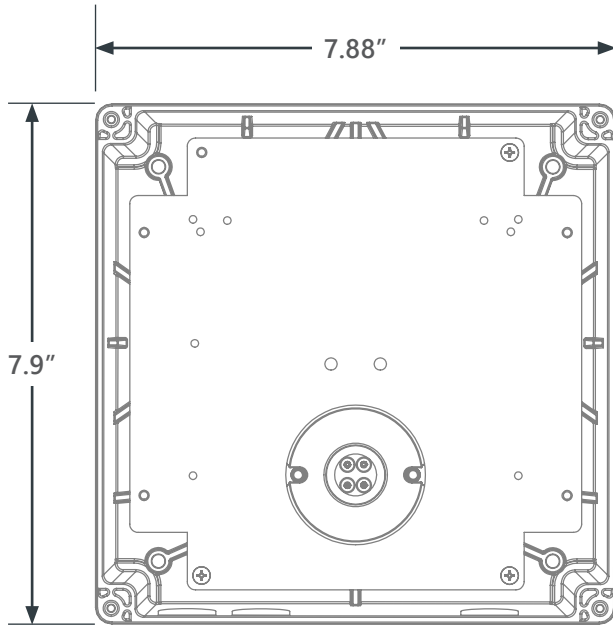


# APCO-X

## AIR TREATMENT SYSTEM

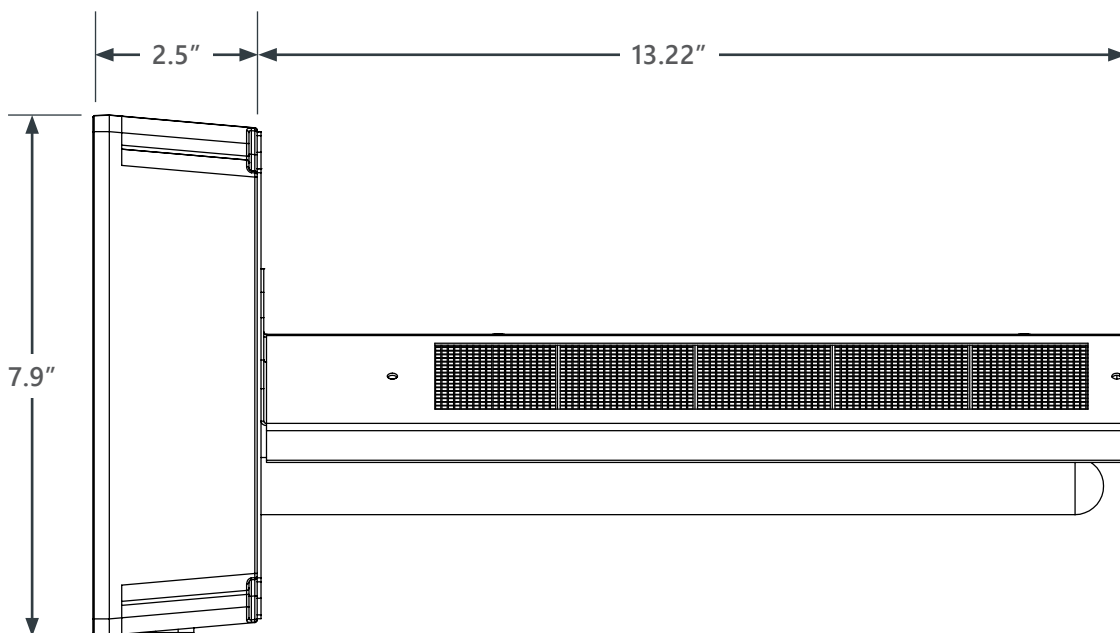


### SPECS



APCO-X Specs		
UV Lamp	254 nm germicidal UV-C, quartz hot filament	
Dimensions	Cell & Lamp: 5.8"W x 3.25"H x 13.2"D Enclosure: 7.6"L x 7.6"W x 2.2"D	
ER models Electrical	18-32 VAC, 60 Hz, 0.68 Amps, 16 VA	
SI DI models Electrical	120-277 VAC, 50/60 Hz, 0.51 Amps/120V Thru 0.22 Amps/277V	
Pressure Drop	<0.01" w.c. @ 400 FPM	
Warranty	Lifetime for all parts except lamp	
Part Numbers		
18-32 VAC		Replacement Lamp
TUV-APCOX-ER3P	3 Year Lamp	TUVL-315
18-32 VAC with 2nd UV Lamp for Coil		Replacement Lamps
TUV-APCOX-DER3P	3 Year Lamp (2)	TUVL-315
120-277 VAC		Replacement Lamp
TUV-APCOX-SI3P	3 Year Lamp	TUVL-315
120-277 VAC with 2nd UV Lamp for Coil		Replacement Lamps
TUV-APCOX-DI3P	3 Year Lamp (2)	TUVL-315

EPA  
Est. Reg. No.  
075179-FL-002



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# APCO

## ORIGINAL RT & MAG



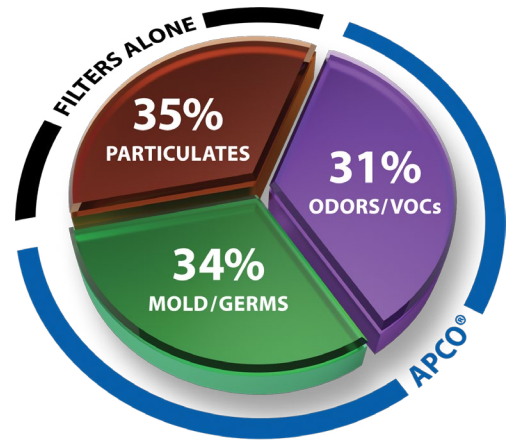
The original APCO® Whole-House Air Purifier cleans the air by combining UV-C light and activated carbon; two technologies proven to be most effective at killing germs, and removing odors by reducing chemical vapors known as volatile organic compounds (VOCs). Some of them, like formaldehyde and acetone, are known to be toxic.

### FEATURES

- Duct or magnet mount
- Easy to install
- Lifetime carbon cells
- Ozone-free
- Lifetime warranty

### BENEFITS

- Whole-house air purification
- Neutralizes odors & toxic VOCs
- Fights mold, bacteria, & viruses
- Improves indoor air quality
- Inhibits HVAC mold growth



Duct Mount RT  
(for smaller ducts)



Duct Mount



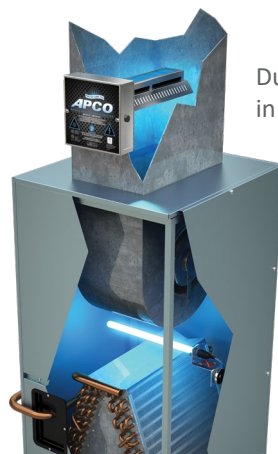
Magnet Mount 15



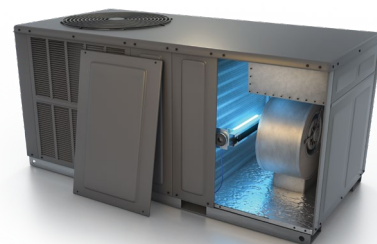
Magnet Mount 11



Duct Mount in furnace



Duct Mount Dual in air handler



Magnet Mount in package unit

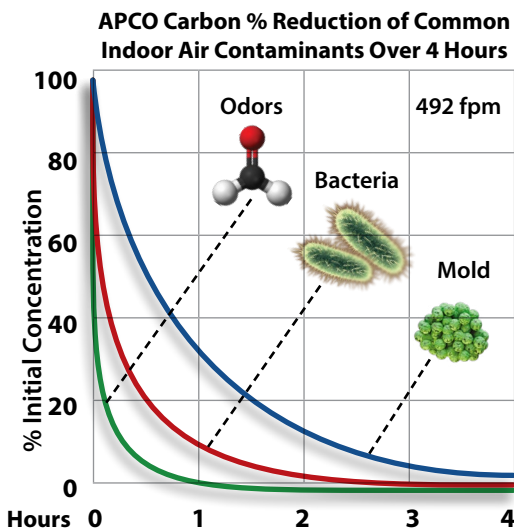


# APCO

## ORIGINAL RT & MAG

### TECHNICAL DATA

APCO® utilizes proprietary UV-reactive carbon cells to disinfect the air and neutralize odors and volatile organic compounds (VOCs) in the indoor air. The system uses specially prepared adsorption media to capture VOCs, then, with the help of a 254 nm germicidal UV-C lamp, the captured constituents are neutralized through an innovative reaction process which breaks them down into elemental carbon dioxide and water vapor.



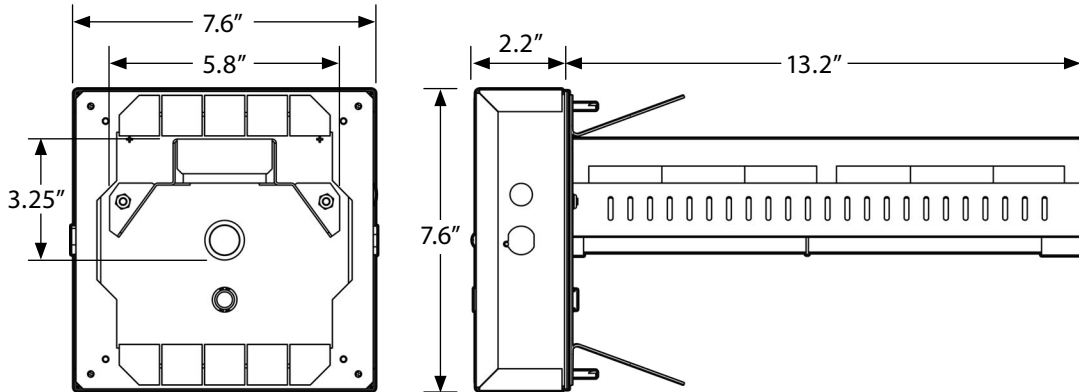
The monolithic carbon cells in APCO® are regenerative. Under normal operation it requires no maintenance and does not need to be replaced. Additionally, the UV-C light in APCO® disinfects the moving air stream reducing airborne mold, bacteria, and viruses. The UV light also reduces any build up of mold within the air handler and ducts.

APCO TECHNICAL DATA	
UV Lamp	254 nm Germicidal UV-C Spectrum Quartz Hot Filament
Carbon Cell	Advanced Monolithic Adsorptive Carbon cell with proprietary absorption media and proven TiO2 photo-catalyst
Cell per In2	16
Cell Surface Area	250 m2/gm
Bulk Density	1.44 gm/cm2
Pressure Drop	<0.01" w.c. @ 400 FPM
VOC Activity	40-60% absorption per pass
Max Operating Temp.	400 degrees F

# APCO ORIGINAL RT & MAG

## APCO CARBON

- High or low-voltage internal power supply
- Slotted flanges enhance air flow
- Ideal for HVAC systems from to 3-7 tons



### 18-32 VAC MODELS

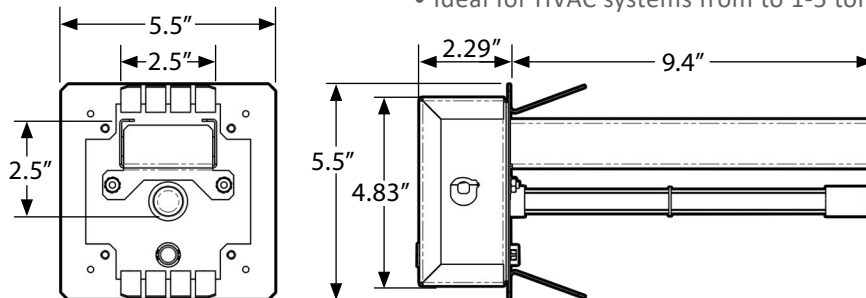
TUV-APCO-ER  
TUV-APCO-ER2  
TUV-APCO-DER  
TUV-APCO-DER2

### 120-277 VAC MODELS

TUV-APCO-SI  
TUV-APCO-SI2  
TUV-APCO-DI  
TUV-APCO-DI2

## APCO RT

- High or low-voltage remote power supply
- Requires only 10" clearance within the duct
- Ideal for HVAC systems from to 1-5 tons



### 18-32 VAC RT MODELS

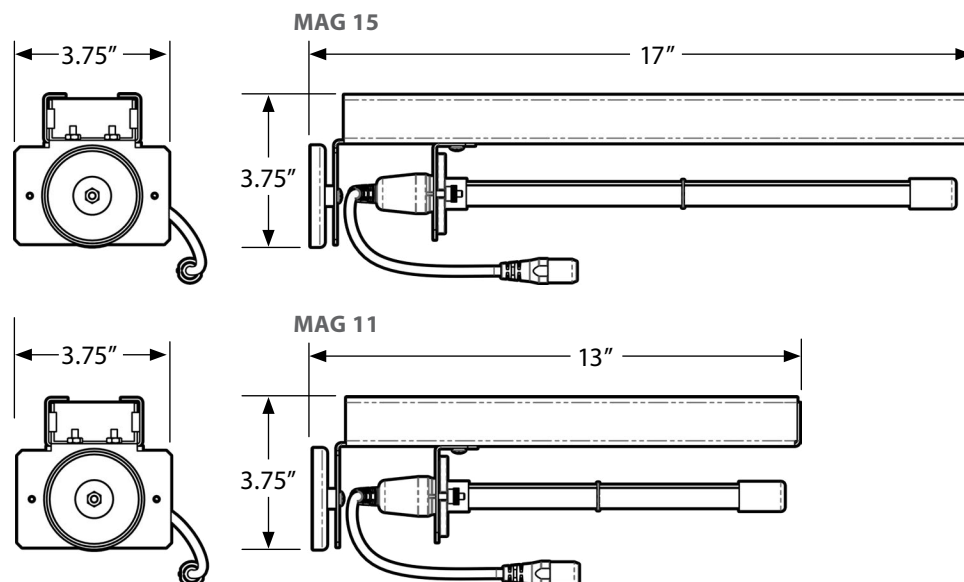
TUV-APCO-RT-ER  
TUV-APCO-RT-ER2

### 120-277 VAC RT MODELS

TUV-APCO-RT-ST  
TUV-APCO-RT-ST2  
TUV-APCO-RT-DT  
TUV-APCO-RT-DT2

## APCO MAG

- High or low-voltage remote power supply
- Removable magnet for internal mounting
- Ideal for package units



### 18-32 VAC MAG 15 MODELS

TUV-APCO-MAG15-ER  
TUV-APCO-MAG15-ER2

### 120-277 VAC MAG 15 MODELS

TUV-APCO-MAG15-ST  
TUV-APCO-MAG15-ST2  
TUV-APCO-MAG15-DT  
TUV-APCO-MAG15-DT2

### 18-32 VAC MAG 11 MODELS

TUV-APCO-MAG11-ER  
TUV-APCO-MAG11-ER2

### 120-277 VAC MAG 11 MODELS

TUV-APCO-MAG11-ST  
TUV-APCO-MAG11-ST2  
TUV-APCO-MAG11-DT  
TUV-APCO-MAG11-DT2



# APCO ORIGINAL RT & MAG

Original APCO Specs	
UV Lamp	254 nm germicidal UV-C, quartz hot filament
Dimensions	Cell & Lamp: 5.8"W x 3.25"H x 13.2"D Enclosure: 7.6"L x 7.6"W x 2.2"D
ER models Electrical	18-32 VAC, 60 Hz, 0.68 Amps, 16 VA
SI DI models Electrical	120-277 VAC, 50/60 Hz, 0.41 amp/120V thru 0.18amp/277V
Pressure Drop	<0.01" w.c. @ 400 FPM
Warranty	Lifetime for all parts except lamp

Part Numbers		
18-32 VAC		Replacement Lamp
TUV-APCO-ER	1 Year Lamp	TUVL-115
TUV-APCO-ER2	2 Year Lamp	TUVL-215
18-32 VAC with 2nd UV Lamp for Coils		Replacement Lamps
TUV-APCO-DER	1 Year Lamp (2)	TUVL-115 & TUVL-115P
TUV-APCO-DER2	2 Year Lamp (2)	TUVL-215 & TUVL-215P
120-277 VAC		Replacement Lamp
TUV-APCO-SIP2	2 Year Lamp	TUVL-215
120-277 VAC with 2nd UV Lamp for Coils		Replacement Lamps
TUV-APCO -DIP2	2 Year Lamps (2)	TUVL-215 & TUVL-215P

APCO RT Specs	
UV Lamp	254 nm germicidal UV-C, quartz hot filament
Dimensions	Cell & Lamp: 2.5"W x 2.5"H x 9.4"D Enclosure: 4.83"L x 4.83"W x 2.29"D
ER models Electrical	18-32 VAC, 60 Hz, 0.68 Amps, 16 VA
ST DT models Electrical	120-277 VAC, 50/60 Hz, 0.41 amp/120V thru 0.18amp/277V
Pressure Drop	<0.01" w.c. @ 400 FPM
Warranty	Lifetime for all parts except lamp

Part Numbers		
18-32 VAC		Replacement Lamp
TUV-APCO-RT-ER2	2 Year Lamp	TUVL-211
18-32 VAC with 2nd UV Lamp for Coils		Replacement Lamps
TUV-APCO-RT-ST2	2 Year Lamp (2)	TUVL-211
120-277 VAC with 2nd UV Lamp for Coils		Replacement Lamps
TUV-APCO-RT-DT2	2 Year Lamps (2)	TUVL-211 & TUVL-215P

APCO Mag Specifications	
UV Lamp	254 nm germicidal UV-C, quartz hot filament
PCO Cell	Advanced Monolithic Adsorptive PCO cell with proprietary absorption media and proven TiO2 photo-catalyst
Pressure Drop	<0.01" w.c. @ 400 FPM
Dimensions	APCO MAG11 5.5"W x 4"H x 13"D APCO MAG15 5.5"W x 4"H x 17"D
Pressure Drop	<0.01" w.c. @ 400 FPM
Electrical ER Series	18-32 VAC, 60 Hz, 0.68 Amps, 16 VA Low-voltage power-supply
Electrical ST / DT Series	120-277 VAC, 50/60 Hz, 0.41 amp/120V thru 0.18amp/277V High-voltage power-supply
Warranty	Lifetime for all parts except lamp

APCO Mag 11 Part Numbers		
18-32 VAC		Replacement Lamp
TUV-APCO-MAG11-ER2	2 Year Lamp	TUVL-211P

APCO Mag 15 Part Numbers		
18-32 VAC		Replacement Lamp
TUV-APCO-MAG15-ER2	2 Year Lamp	TUVL-215P
120-277 VAC		Replacement Lamps
TUV-APCO-MAG15-DT2	2 Year Lamp (2)	TUVL-215P



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## INFO & SPECS

# BLUE-TUBE UV GERMICIDAL UV LIGHT

The simple and complete choice for germicidal UV light for HVAC applications. Powerful UV-C light kills germs continuously in the air and on surfaces inside the air system. The most popular Germicidal UV Light system in the world because of its reliability, ease of installation, innovative features, and quality components.

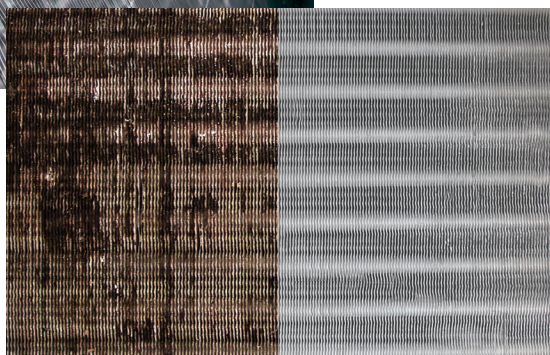
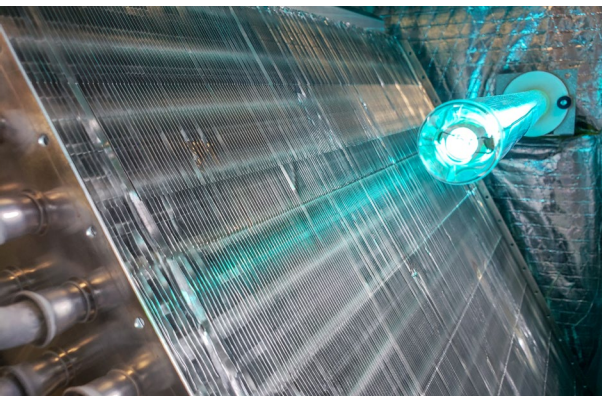
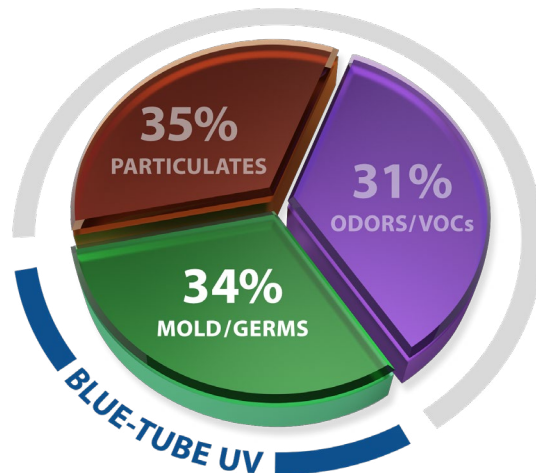
### FEATURES

- Patented Design
- 18-32 or 110-277 VAC power supply
- Z-Magnet for easy install
- 254 NM UV-C light
- 1 or 2 year quartz lamp
- Lifetime warranty

### BENEFITS

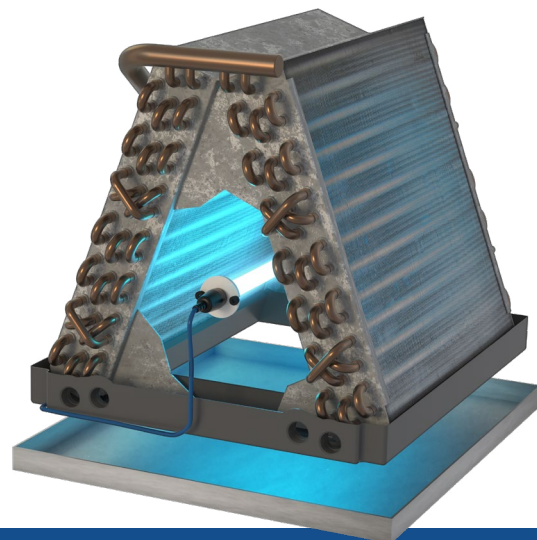
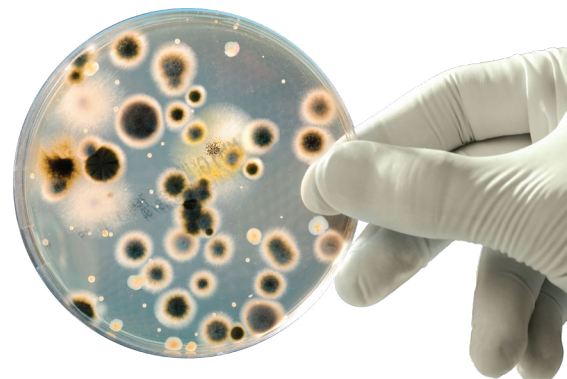
- Sterilizes airborne microbes including viruses, bacteria, mold
- Improves indoor air quality
- Inhibits HVAC mold growth
- Inhibits mold growth on coils and HVAC system interior
- Saves energy/reduces maintenance costs

### INDOOR AIR POLLUTION DIVIDED BY THIRDS



Blue-Tube UV keeps AC coils clean

## KILLS VIRUSES BACTERIA MOLD



### Extends the life of the HVAC System



# BLUE-TUBE UV

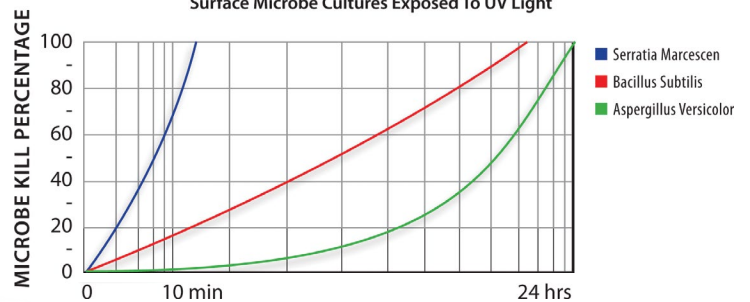
## GERMICIDAL UV LIGHT



Blue-Tube UV Specs		
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	
SI DI models Electrical	120-277 VAC, 50/60 Hz, 0.41 amp/120V thru 0.18amp/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	
US Patent #	7,704,463	
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 Lamps	TUVL-115P
TUV-BTST2	2 Year Lamps	TUVL-215P

The unique germ-killing properties of UV-C light have been known for over a century. UV-C in sunlight is filtered by the Earth's atmosphere so microbes have no defense against it. Today this technology is used for hospital disinfection, food safety, and water purification. Blue-Tube UV is a patented device for air system disinfection and is the best-selling product of its type in the world.

**UV Antimicrobial Effectiveness**  
Surface Microbe Cultures Exposed To UV Light



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# AHU SERIES 1

## GERMICIDAL UV LIGHT



The Fresh-Aire UV AHU Series 1 germicidal UV light system is installed in the central air system where it sterilizes airborne viruses and bacteria. It also suppresses mold growth on the cooling coils and surrounding areas while generally improving indoor air quality throughout the home. It is available in single/dual or triple/quad lamp configurations for more comprehensive UV light disinfection.

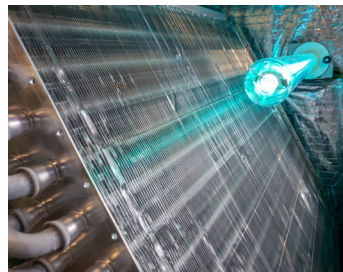
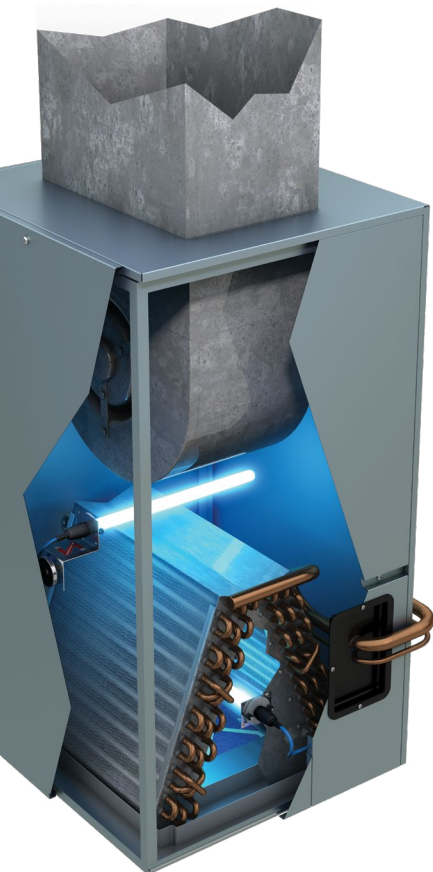


### FEATURES

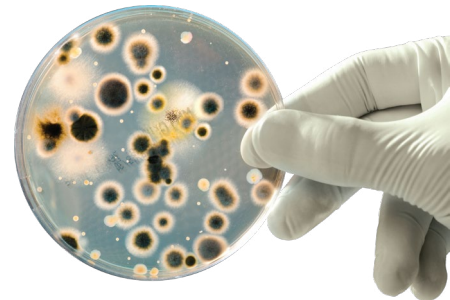
- Water-resistant shielded UV-C lamp
- Heavy-duty Nema-rated power supply
- Automatic input voltage selection
- 120 - 277 VAC 50/60 Hz.
- Lifetime Warranty for all parts except lamps

### BENEFITS

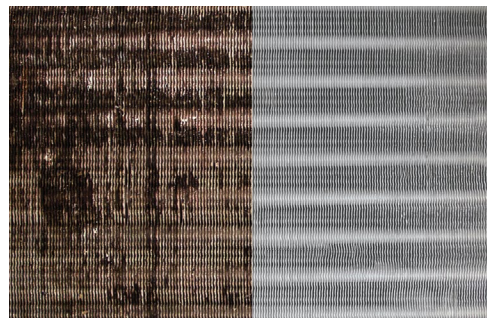
- Sterilizes airborne viruses, bacteria, mold
- Improves indoor air quality
- Inhibits HVAC mold growth
- Saves energy/reduces maintenance costs
- Improves indoor air quality



**KILLS  
VIRUSES  
BACTERIA  
MOLD**

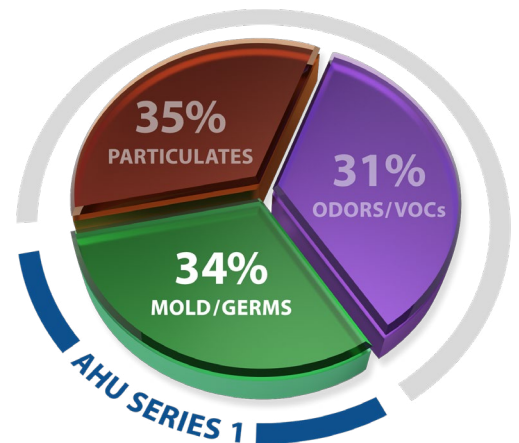


**Extends the life of  
the HVAC System**



A biofilm on AC coils of only 0.002" can reduce efficiency by 37%! UV AHU Series 1 keeps AC coils clean and is the most cost-effective and practical solution.

**INDOOR AIR POLLUTION  
DIVIDED BY THIRDS**



# AHU SERIES 1

## GERMICIDAL UV LIGHT



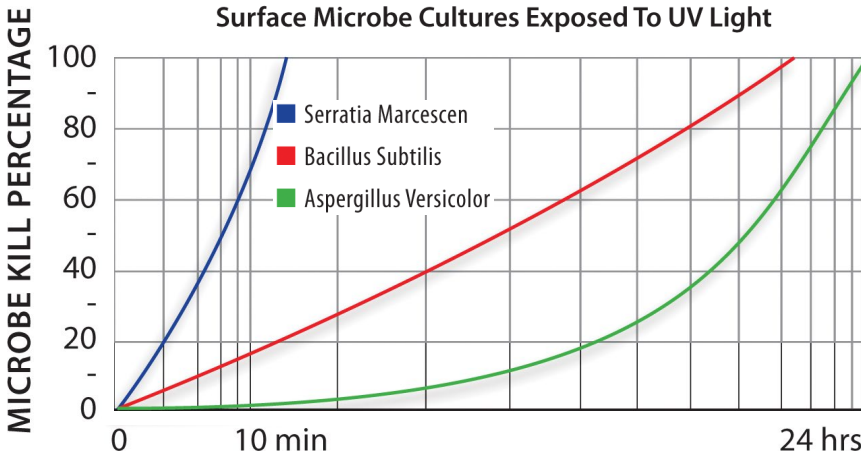
AHU Series 1 Specs		
UV Lamp	254 nm germicidal UV-C, quartz hot filament	
Dimensions	Lamp: 15" L x 0.74" Dia. Power Supply: 8.75" L x 3.5" W x 2.5" D ST Power Supply: 5.0" W x 1.1" H x 2.4" D	
Electrical	Auto switching multi-voltage 0.51A / 120V Thru 0.22A / 277Vs	
Kit Includes	Power Supply (NEMA IP54), UV Lamp(s), 6' Lamp Cable, 6' Power Cord, Lamp Mounting Brackets, Mounting Hardware and Panel Indicator	
Warranty	Lifetime for all parts except lamp	
Part Numbers		
Single Lamp Systems		Replacement Lamp
TUV-100S-I	1 Year Lamp	TUVL-115P
TUV-200S-I	2 Year Lamp	TUVL-215P
Dual Lamp Systems		Replacement Lamps
TUV-100D-I	1 Year Lamps	TUVL-115P
TUV-200D-I	2 Year Lamps	TUVL-215P

Protecting our homes and families from airborne infectious diseases has become the highest priority. The unique germ-killing properties of UV-C light have been known for over a century. Because UV-C in sunlight is filtered by the Earth's atmosphere, microbes (including viruses) have no defense against it. This chemical-free technology is now used for hospital disinfection, food safety, and water purification.



### UV Antimicrobial Effectiveness

Surface Microbe Cultures Exposed To UV Light



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# PURITY LOW PROFILE

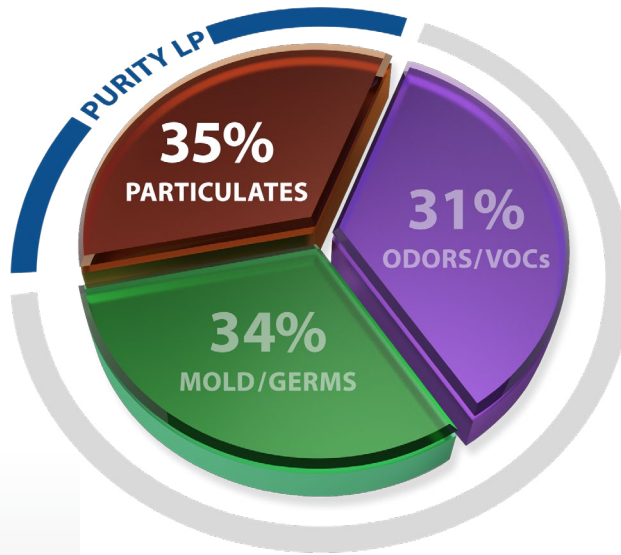
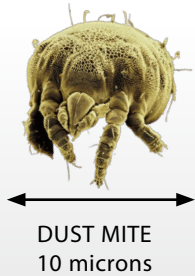


## POLARIZED FILTRATION SYSTEM

Conventional HVAC filters only capture the largest particles. Unfortunately, it's the fine particulates that are the greater threat. There are costly filter systems on the market which capture fine particles but they require expensive retrofitting and tend to restrict air-flow, which increases static pressure resulting in reduced HVAC efficiency, performance, and energy loss.

- UV-reactive filter media with antimicrobial nanotechnology
- Captures particulates, allergens, pet dander, dust mites, spores, etc.
- 97% effective capturing particles down to .3 microns (.00001 inch)
- Low-cost media replacement (\*4-6 months on average)
- Fits standard 1" filter slot
- Helps to reduce odors and VOCs
- Lifetime system warranty

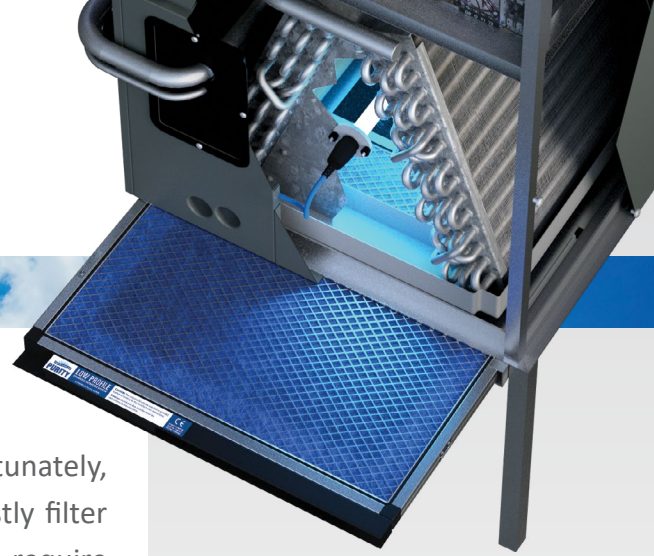
Purity Low Profile captures particulates of all sizes (down to an incredibly small 0.1 microns). It uses a polarized charge to attract and clump particles together making them easier to capture without restricting air-flow.



INDOOR AIR POLLUTION  
DIVIDED BY THIRDS



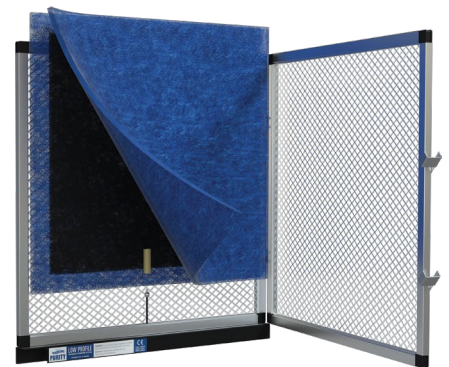
[PLP MOVIE LINK](#)



PLP is compatible  
with Fresh-Aire UV lamps

## PLP CAPTURES

- **COARSE PARTICLES** (<10 microns)
  - Bacteria
  - Dust & dirt
  - Dust mites & debris
  - Mold spores
  - Pet dander
  - Pollen
- **FINE PARTICLES** (<2.5 microns)
  - Atmospheric dust
  - Pet allergens
  - Smog
  - Soot
  - Tobacco smoke
  - Viruses



Most air filters deteriorate from UV exposure. PLP is designed to work in conjunction with UV lamp systems.

# PURITY



## LOW PROFILE

### POLARIZED FILTRATION SYSTEM



## PLP FILTER ORDER FORM

To order PLP filters, start by determining the size. Filters can be ordered by NOMINAL or ACTUAL SIZE. NOMINAL size is determined by measuring the space the filter fits in, ACTUAL size is determined by measuring the filter itself, generally  $\frac{3}{8}$ " less than NOMINAL in both dimensions. If the NOMINAL size is 20" x 20", the ACTUAL size of the filter itself is 19  $\frac{5}{8}$ " x 19  $\frac{5}{8}$ ".

Specifications	
Performance	97% @ 0.3 micron
Pressure Drop	0.12" @ 300 FPM
Dimensions	< $\frac{3}{8}$ " of filter size x 1" deep
Electrical	24VAC, 0.07amps, 1.5VA, 50/60 Hz
Warranty	Lifetime all parts except media
Part#	TUV-PLP-XXYY
Replacement Media	TUV-PLPM-1-XXYY

## Specify NOMINAL or ACTUAL size

NOMINAL

ACTUAL

WIDTH  HEIGHT

## Requested By

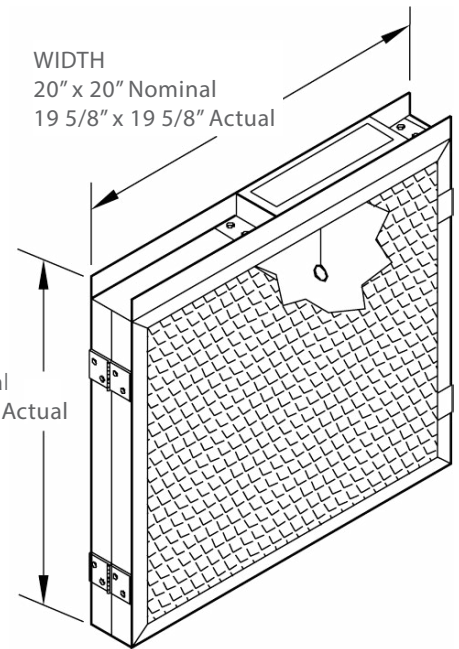
NAME \_\_\_\_\_

COMPANY \_\_\_\_\_

PHONE \_\_\_\_\_

EMAIL \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_



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800-741-1195

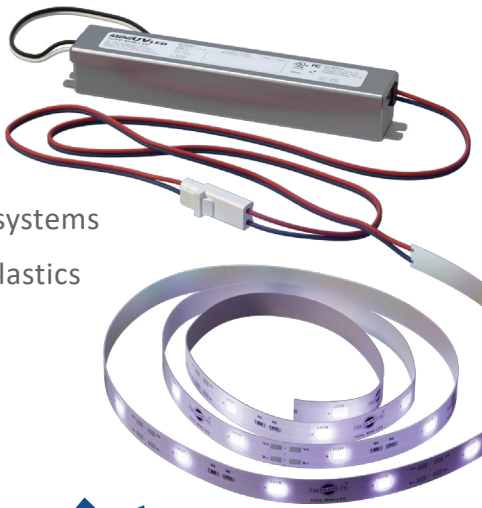
# MINI UV LED MINI-SPLIT SYSTEM

## INFO & SPECS

Mini UV LED is the first-of-its-kind UV light LED system for mini-splits and similar limited space applications. Like all A/C systems, mini-splits are prone to internal mold growth and microbial contamination, particularly on and near the blower wheel. The LED light strip in Mini UV LED is designed to sterilize surfaces while having no impact on plastic materials.

### FEATURES

- Fits mini-split & ceiling cassette A/C systems
- UV LED spectrum is safe for eyes & plastics
- Replaceable 40" Adhesive LED strip
- 50,000+ hour expected LED life
- LED strip trimmable in 4" increments
- 120-277 VAC power supply
- 5 year warranty on all parts



**LED Light  
Will Not Harm  
Plastics**

### BENEFITS

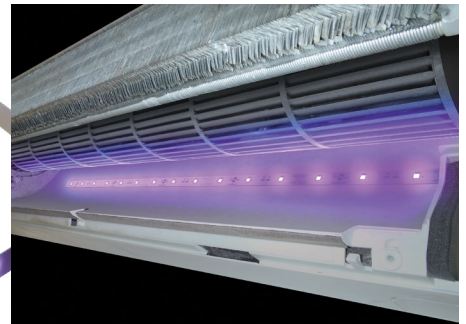
- Maintains a clean mini-split system free from mold and microbial growth
- Saves energy/reduces maintenance costs
- Extends life of mini-split system
- Improves indoor air quality



Mini-split installation



Mold thrives on mini-split blower wheels



Inhibits mold growth, extends mini-splits life, and is easy to install

Mini UV LED Specs	
Dimensions	LED strip: 40" L x 0.375" H
Weight	1 lb.
Electrical	120, 230, 277 V ~ 0.47 A, 50/60 Hz PF ≥ 0.9, THD ≤ 20%
Kit Includes	120-277 VAC, 50/60 Hz, 0.41 amp/120V thru 0.18amp/277V
Kit Includes	40" LED strip, LED driver, #8 pan screws, panduit straps, warning stickers, manual
Warranty	Lifetime for all parts except lamp
Part Numbers	TUV-MINI-LED TUV-MINI-LED-SW (includes night switch)



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# BLUE-TUBE XL

## COMMERCIAL UVGI SYSTEM



This system is designed to improve indoor air quality by sterilizing airborne viruses, bacteria, and allergens. It also saves energy and maintenance costs associated with commercial HVAC. A biofilm of only 0.002" can reduce efficiency by 37%! Ultraviolet germicidal irradiation, (UVGI) is the most cost-effective and practical solution.

Blue-Tube XL 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. This system also improves indoor air quality by sterilizing airborne bacteria, viruses, and allergens.

### FEATURES

- Easy to install
- Fits coils up to 120" x 140"
- High-output 2 year UV-C lamps
- Everything included for most installations
- Scalable design for multi-lamp configurations
- Lifetime warranty on all parts except lamp(s)
- Water-resistant heavy-duty power supply
- Optional door interlock switch (TUVV-INTLCK)

### BENEFITS

- 99.9% surface disinfection GUARANTEED
- Sterilizes mold, bacteria, viruses
- Disinfects coil & drain pan
- Improves HVAC system efficiency
- Improves indoor air quality

Commercial Series Accessories [View PDF](#)

Control Box



UV-C Radiometer



Safety Interlock Switch

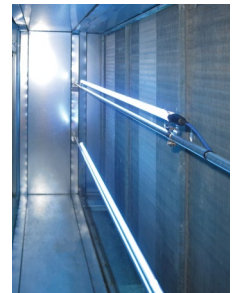
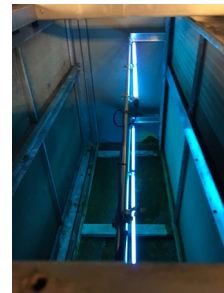
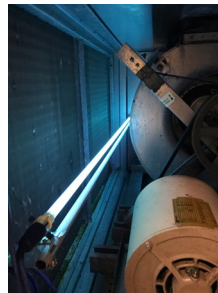


UV-C Lamp Shield



### Simple & Easy

For coils up to 120" x 140"  
Everything needed for most installations is included in the box.



### BLUE-TUBE XL

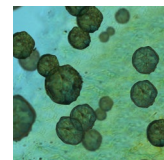
STERILIZES BIOLOGICAL PATHOGENS



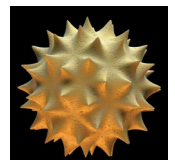
VIRUSES



BACTERIA



MOLD



ALLERGENS

# BLUE-TUBE XL



## SIZING CHART FOR AHU UNITS

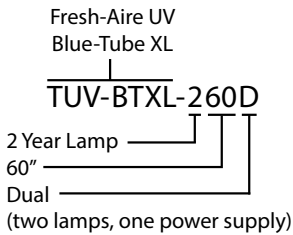
### COIL WIDTH

COIL HEIGHT	COIL WIDTH										
	33"	40"	47"	56"	61"	72"	82"	98"	108"	120"	144"
24"	232S	232S	246S	246S	260S	260S	260S	246D	246D	260D	260D
32"	232S	232S	246S	246S	260S	260S	260S	246D	246D	260D	260D
40"	232S	232S	246S	246D	260S	260D	260D	246D (2)	246D (2)	260D	260D
56"	232D	232D	246D	246D	260D	260D	260D	246D (2)	246D (2)	260D (2)	260D (2)
62"	232D	232D	246D	246D	260D	260D	260D	246D (2)	246D (2)	260D (2)	260D (2)
72"	232D	232D	246D	246D	260D	260D	260D	246D (2)	246D (2)	260D (2)	260D (2)
82"	232D	232D	246D	246D	260D	260D	246D (2)	246D (3)	246D (3)	260D (3)	260D (3)
98"	232D (2)	232D (2)	246D (2)	246D (2)	260D (2)	260D (2)	246D (3)	246D (4)	246D (4)	260D (4)	260D (4)
108"	232D (2)	232D (2)	246D (2)	246D (2)	260D (2)	260D (2)	246D (3)	246D (4)	246D (4)	260D (4)	260D (4)
120"	232D (2)	232D (2)	246D (2)	246D (2)	260D (2)	260D (2)	246D (3)	246D (4)	260D (4)	260D (4)	260D (4)
144"	232D (2)	232D (2)	246D (2)	246D (2)	260D (2)	260D (4)	246D (4)	246D (4)	260D (4)	260D (4)	260D (4)

## SIZING CHART FOR RTUS

1 - 3 Ton	4 - 5 Ton	6 - 10 Ton	12-14 Ton	16-20 Ton	25-30 Ton	35-40 Ton	45-50 Ton
218-S or <a href="#">TUV-APCO-MAG15-ER2</a>	224-S or <a href="#">TUV-APCO-MAG15-ER2</a>	232-S	246-S	246-D	260-D	260-D (2)	260D (3)

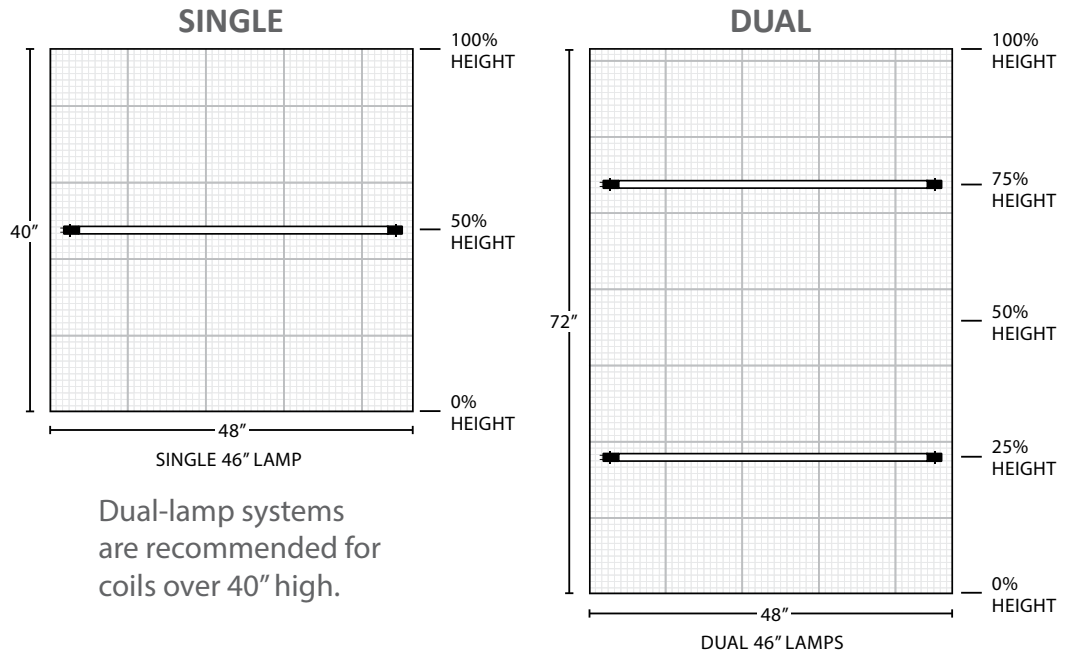
### PART NUMBER KEY



(2) = 2 Complete Systems  
(3) = 3 Complete Systems  
(4) = 4 Complete Systems



### SINGLE & DUAL LAMP PLACEMENT



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# FRESH-AIRE UV CS

## COMMERCIAL UVGI SYSTEM



This system is designed to improve indoor air quality by sterilizing airborne viruses, bacteria, and allergens. It also saves energy and maintenance costs associated with commercial HVAC. A biofilm of only 0.002" can reduce efficiency by 37%! Ultraviolet germicidal irradiation, (UVGI) is the most cost-effective and practical solution.

Blue-Tube XL 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. This system also improves indoor air quality by sterilizing airborne bacteria, viruses, and allergens.

### FEATURES

- Easy to install
- Fits coils up to 120" x 140"
- High-output 2 year UV-C lamps
- Everything included for most installations
- Scalable design for multi-lamp configurations
- Lifetime warranty on all parts except lamp(s)
- Water-resistant heavy-duty power supply
- Optional door interlock switch (TUVV-INTLCK)

### BENEFITS

- 99.9% surface disinfection GUARANTEED
- Sterilizes mold, bacteria, viruses
- Disinfects coil & drain pan
- Improves HVAC system efficiency
- Improves indoor air quality

Commercial Series Accessories [View PDF](#)

Control Box



UV-C Radiometer



Safety Interlock Switch

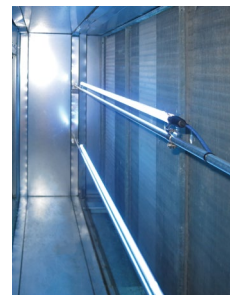
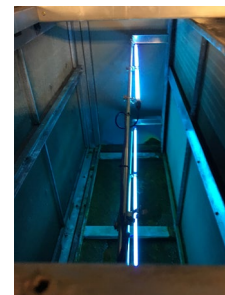
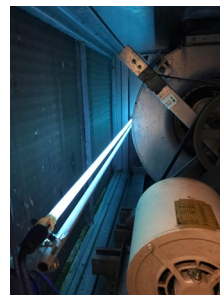


UV-C Lamp Shield



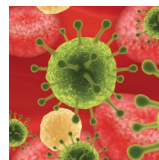
### Simple & Easy

For coils up to 120" x 140"  
Everything needed for most installations is included in the box.



### BLUE-TUBE XL

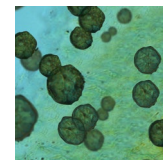
STERILIZES BIOLOGICAL PATHOGENS



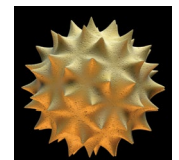
VIRUSES



BACTERIA



MOLD



ALLERGENS



# BLUE-TUBE XL



## SIZING CHART FOR AHU UNITS

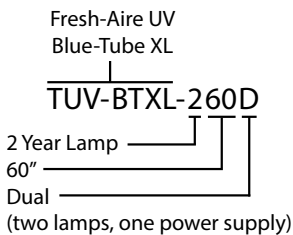
### COIL WIDTH

COIL HEIGHT	COIL WIDTH										
	33"	40"	47"	56"	61"	72"	82"	98"	108"	120"	144"
24"	232S	232S	246S	246S	260S	260S	260S	246D	246D	260D	260D
32"	232S	232S	246S	246S	260S	260S	260S	246D	246D	260D	260D
40"	232S	232S	246S	246D	260S	260D	260D	246D (2)	246D (2)	260D	260D
56"	232D	232D	246D	246D	260D	260D	260D	246D (2)	246D (2)	260D (2)	260D (2)
62"	232D	232D	246D	246D	260D	260D	260D	246D (2)	246D (2)	260D (2)	260D (2)
72"	232D	232D	246D	246D	260D	260D	260D	246D (2)	246D (2)	260D (2)	260D (2)
82"	232D	232D	246D	246D	260D	260D	246D (2)	246D (3)	246D (3)	260D (3)	260D (3)
98"	232D (2)	232D (2)	246D (2)	246D (2)	260D (2)	260D (2)	246D (3)	246D (4)	246D (4)	260D (4)	260D (4)
108"	232D (2)	232D (2)	246D (2)	246D (2)	260D (2)	260D (2)	246D (3)	246D (4)	246D (4)	260D (4)	260D (4)
120"	232D (2)	232D (2)	246D (2)	246D (2)	260D (2)	260D (2)	246D (3)	246D (4)	260D (4)	260D (4)	260D (4)
144"	232D (2)	232D (2)	246D (2)	246D (2)	260D (2)	260D (4)	246D (4)	246D (4)	260D (4)	260D (4)	260D (4)

## SIZING CHART FOR RTUS

1 - 3 Ton	4 - 5 Ton	6 - 10 Ton	12-14 Ton	16-20 Ton	25-30 Ton	35-40 Ton	45-50 Ton
218-S or <a href="#">TUV-APCO-MAG15-ER2</a>	224-S or <a href="#">TUV-APCO-MAG15-ER2</a>	232-S	246-S	246-D	260-D	260-D (2)	260D (3)

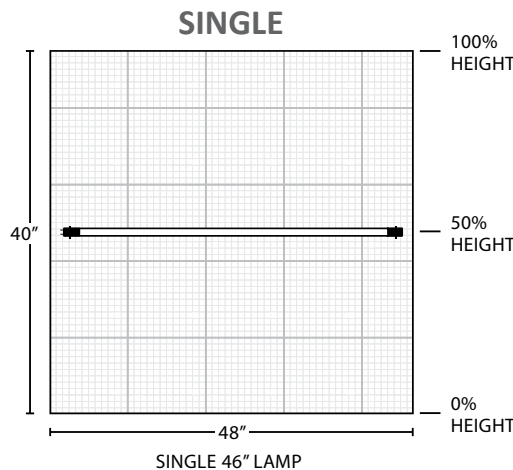
### PART NUMBER KEY



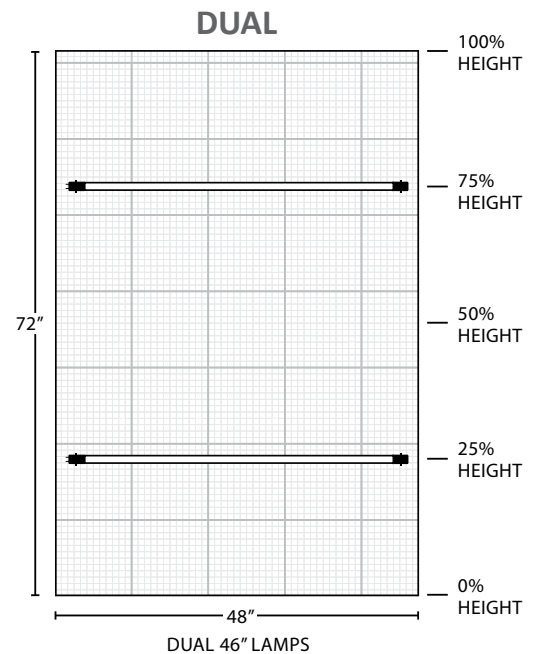
(2) = 2 Complete Systems  
(3) = 3 Complete Systems  
(4) = 4 Complete Systems



### SINGLE & DUAL LAMP PLACEMENT



Dual-lamp systems are recommended for coils over 40" high.



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800-741-1195



# ICE-UV



## UV LIGHT FOR ICE MACHINES

Ice machine maintenance has become easier, safer, and more cost-effective with ICE UV™. UV-C light works continuously to sterilize viruses, mold, and other dangerous pathogens that thrive inside the dark, damp, cool interiors of ice machines. The ICE UV™ system is designed to produce just the right amount of UV-C light; enough to sterilize microbial contaminants including mold, viruses & bacteria without damaging plastic materials inside the ice machine.



## FEATURES

- 2 Year water-resistant germicidal UV-C lamp
- Shatter-resistant Teflon® lamp coating
- Lifetime warranty on all parts except lamp
- 110-277 VAC electronic power supply
- Movable mounting bracket and shield
- Multi-lamp configurations for large systems

**SAVE BIG ON  
ICE MACHINE  
CLEANING &  
MAINTENANCE**



## BENEFITS

- Effective against mold, bacteria & viruses
- Cleans ice machine continuously
- Reduces health risks & liability
- Reduces maintenance costs
- Reduce biological odors

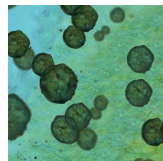
## BIOLOGICAL CONTAMINANTS



VIRUSES



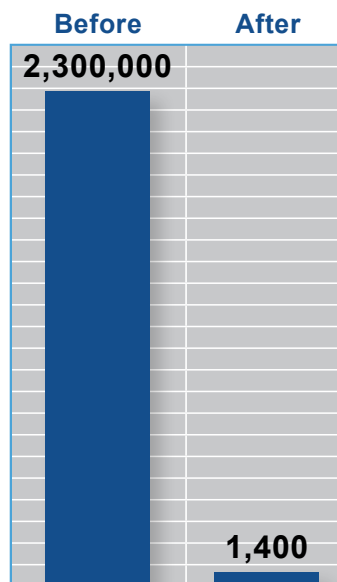
BACTERIA



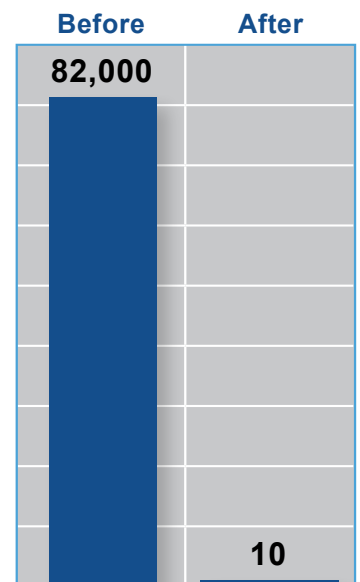
MOLD

### MICROBE INACTIVATION AFTER 9 WEEKS OF EXPOSURE

#### BACTERIA COUNT



#### MOLD COUNT



# ICE-UV



## UV LIGHT FOR ICE MACHINES

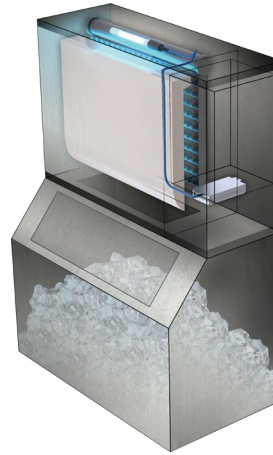
- Saves money on maintenance
- Kills mold, bacteria, & viruses
- Works 24/7 to keep ice maker clean
- Teflon® safety coated UV-C lamps
- Chemical-free disinfection
- Reduces liability risk



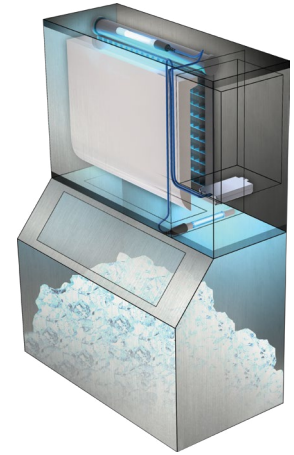
TUV-ICE-ST

TUV-ICE-DT

### MOUNTING LOCATIONS



Single Lamp System:  
On lid between evaporator  
and deflector



Dual Lamp System:  
On lid and over collection  
bin. Use with optional  
interlock switch

### MORE SYSTEMS

Contact Fresh-Aire UV for information  
about custom ICE UV Applications

Ice UV Specs	
UV Lamp	Standard 100% 254 nm Germicidal UV-C Spectrum Effective 2 Years Cathode Guard Filament Teflon® Safety Coating
Dimensions	Lamp: 8" L x 0.74" Dia. Stainless Steel Lamp Shield: 9.5" X 1" Power Supply: 5" x 2.5" x 1"
Weight	1.5 lb.
Power Supply	Auto Switching Multi-Voltage 120 - 277 VAC, 0.51-0.22 Amps
Kits Include	Power Supply & 12" Power Cord UV Lamp(s) & 6' Lamp Cable(s) UV Blocking Tape Lamp Mounting Brackets Mounting Hardware
Warranty	Lifetime for all parts except lamp
Part Numbers	
Single Lamp System	TUV-ICE-ST
Dual Lamp System	TUV-ICE-DT
Replacement Lamp	TUVL-ICE



3 & 4 Lamp Systems  
available



32" Lamp Systems  
available for larger ice machines





 THIS DEVICE  
COMPLIES WITH  
PART 18 OF THE  
FCC RULES.

EPA  
Est. Reg. No.  
075179-FL-002

Intertek  
CONFORMS TO  
STD 1598

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# TIGHT-FIT KIT

## UV LIGHT FOR PTACS & FAN COILS



Tight-Fit Kit makes it possible to realize all the benefits of germicidal UV light in limited space applications including most of the fan coil units and PTACs found on the market today. Tight-Fit Kit features a low-profile lamp on a metal shield with a mounting magnet. The magnet mount allows the UV light to be located precisely for optimum UV exposure particularly where space is limited.

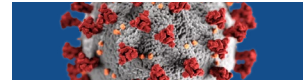
**KILLS  
VIRUSES  
BACTERIA  
MOLD**



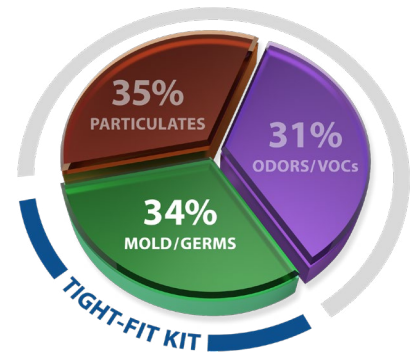
### FEATURES

- Ideal for PTACs and Fan Coil Units
- Weather resistant remote mountable UV lamps
- Magnetic mounting shield
- 110-277 VAC electronic power supply
- 2 Year UV-C lamp life
- Lifetime Warranty on all parts except lamp

### COVID19 UPDATE

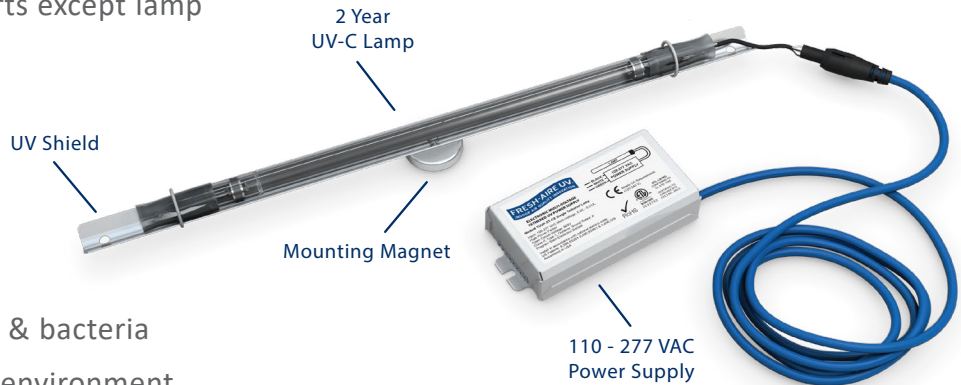


[CLICK HERE FOR INFO](#)



### BENEFITS

- Kills airborne viruses, mold, & bacteria
- Provides a healthier indoor environment
- Reduces maintenance costs
- Extends life of HVAC system



### Extends the life of the HVAC System

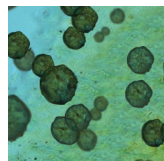
### BIOLOGICAL CONTAMINANTS



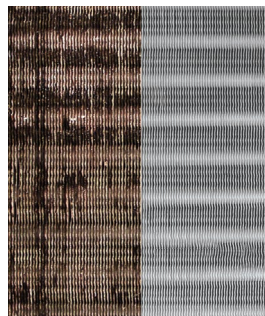
VIRUSES



BACTERIA



MOLD



A biofilm on AC coils of only 0.002" can reduce efficiency by 37%! UV AHU Series 1 keeps AC coils clean and is the most cost-effective and practical solution.

# TIGHT-FIT KIT

## UV LIGHT FOR PTACS & FAN COILS



Protecting our homes and families from airborne infectious diseases has become the highest priority. The unique germ-killing properties of UV-C light have been known for over a century. Because UV-C in sunlight is filtered by the Earth's atmosphere, microbes (including viruses) have no defense against it. This chemical-free technology is now used for hospital disinfection, food safety, and water purification.



PTAC Application  
(No light is visible when properly installed)

Tight-Fit Kit Specs		
UV Lamp	254 nm germicidal UV-C, quartz hot filament	
Dimensions	Lamp & Shield: 11" L x 1" Dia. ST Power Supply: 5.0" W x 1.1" H x 2.4" D	
Electrical	110-277 VAC, 50/60 Hz, 0.51 Amps/120V Thru 0.22 Amps/277V	
Kit Includes	Power Supply, 6' Lamp Cable, UV Lamp, UV Lamp Shield, Magnetic Mounting Hardware, Panel Indicator	
Warranty	Lifetime for all parts except lamp	
Part Numbers		
Single Lamp Systems		Replacement Lamp
TUV-TFK-ST-2	2 Year Lamp	TUVL-200EZ

U.S. patent #7,704,463

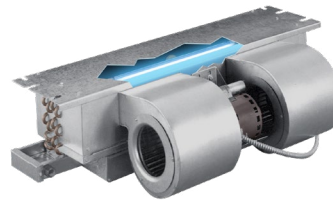
EPA  
Est. Reg. No.  
075179-FL-002



THIS DEVICE  
COMPLIES WITH  
PART 18 OF THE  
FCC RULES.



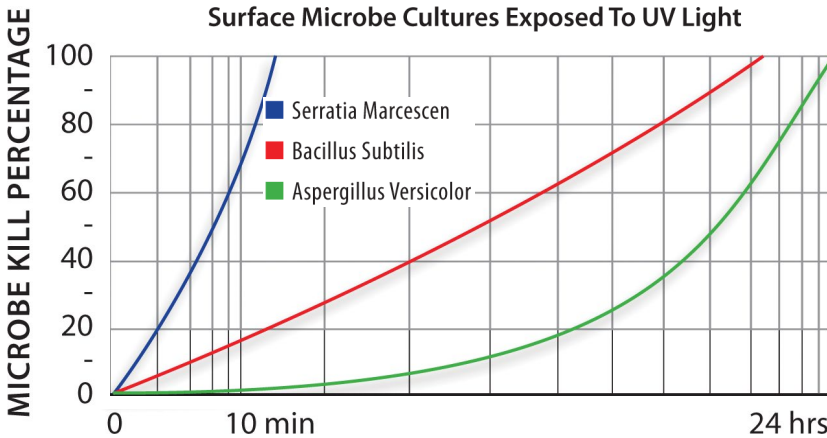
Intertek  
CONFORMS TO  
STD 1598



Fan Coil Application

### UV Antimicrobial Effectiveness

Surface Microbe Cultures Exposed To UV Light



Vertical Fan Coil Application



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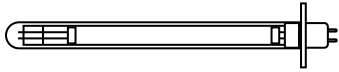
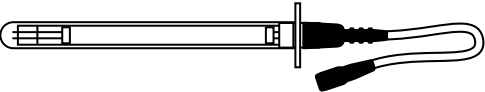
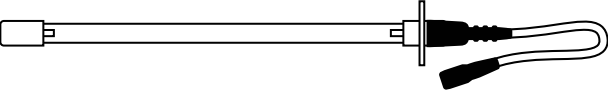
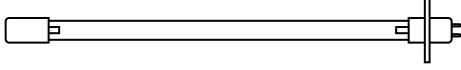
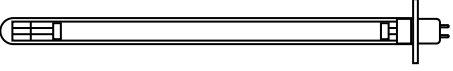
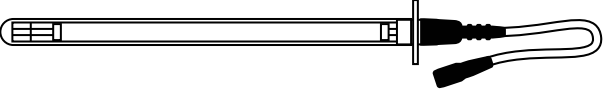
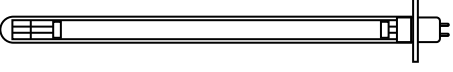
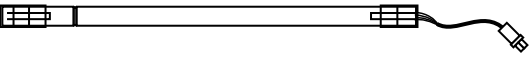
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# UV-C LAMPS

## RESIDENTIAL APPLICATIONS



Part Number	Warranty	Length Inches	Length mm	Electrical	UV-C Watts	Output $\mu\text{W}/\text{cm}^2$ @ 1 Meter	Fresh-Aire UV Product
TUVL-211	2 Year	10"	254	425 mA, 14 W	3	45	APCO RT
							
TUVL-211P	2 Year	10"	254	425 mA, 14 W	3	45	APCO Mag11
							
TUVL-115	1 Year	14"	357	425 mA, 17 W	5.7	57	APCO
							
TUVL-115P	1 Year	14"	357	425 mA, 17 W	5.7	57	AHU Series 1 Blue-Tube APCO Mag15
							
TUVL-215	2 Year	14"	357	425 mA, 17 W	5.7	57	APCO
							
TUVL-215P	2 Year	14"	357	425 mA, 17 W	5.7	57	AHU Series 1 Blue-Tube APCO Mag15
							
TUVL-315P	3 Year	14"	357	425 mA, 17 W	5.7	57	APCO-X
							
TUVL-200EZ	2 Year	14"	357	320 mA, 16 W	5.7	56	Purity Tight-Fit Kit
							

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# UV-C LAMPS

## COMMERCIAL APPLICATIONS



Part Number	Lamp Life Hrs.	Length Inches	Length mm	Electrical	UV-C Watts	Output $\mu\text{W}/\text{cm}^2$ @ 1 Meter
TUVL-ICE	1800	6.5	165	400 mA, 10 W	1.5	15
TUVL-200EZ	1800	14.25	362	425 mA, 17 W	5.7	57
TUVCL-218HO	1800	18	457	800 mA, 48 W	17	150
TUVCL-218HO-TF	1800	18	457	800 mA, 48 W	15	135
TUVCL-224HO	1800	24	610	800 mA, 57 W	19	175
TUVCL-224HO-TF	1800	24	610	800 mA, 57 W	17	160
TUVCL-132	1200	33.75	857	400 mA, 40 W	17	165
TUVCL-232-TF	1800	33.75	857	400 mA, 40 W	16	150
TUVCL-232HO	1800	33.75	857	800 mA, 80 W	28	250
TUVCL-232HO-TF	1800	33.75	857	800 mA, 80 W	26	225

# UV-C LAMPS

## COMMERCIAL APPLICATIONS



Part Number	Lamp Life Hrs.	Length Inches	Length mm	Electrical	UV-C Watts	Output $\mu\text{W}/\text{cm}^2$ @ 1 Meter
TUVCL-146	1800	45.25	1150	400 mA, 54 W	5.7	57
TUVCL-246HO	1800	45.25	1150	400 mA, 54 W	5.7	57
TUVCL-246-TF	1800	45.25	1150	800 mA, 100 W	5.7	57
TUVCL-246HO-TF	1800	45.25	1150	800 mA, 100 W	5.7	57
TUVCL-160	1200	61.25	1556	400 mA, 68 W	5.7	57
TUVCL-260-TF	1800	61.25	1556	400 mA, 68 W	5.7	57
TUVCL-260HO	1800	61.25	1556	800 mA, 130 W	5.7	57
TUVCL-260HO-TF	1800	61.25	1556	800 mA, 130 W	5.7	57

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# COMMERCIAL ACCESSORIES



Fresh-Aire UV has everything you need to make your commercial UVGI installation a success including a wide variety of accessories. Our commercial sales representatives can help you find all the right parts.

	PART NUMBER	FRESH-AIRE UV PRODUCT
<b>A</b>	TUVC-P	Factory wired power supply panel kit w/ surge suppressor
<b>B</b>	TUVC-CBX	UVGI control box with timers, lamp life, interlock switches
<b>C</b>	TUVC-VP-O	Large Commercial Viewport
<b>D</b>	TUVC-SHIELD-32	Lamp Shield 32"
<b>E</b>	TUVC-SHIELD-46	Lamp Shield 46"
<b>F</b>	TUVC-SHIELD-60	Lamp Shield 60"
<b>G</b>	TUVC-CMBRKT	12" Coil Mount Bracket
<b>H</b>	TUV-STR1/2	Strain Relief fitting - 1/2"
<b>I</b>	TUV-STR3/4	Strain Relief fitting - 3/4"
<b>J</b>	TUV-STR1	Strain Relief fitting - 1"
<b>K</b>	TUV-CBL5	5 foot remote mounting cable
<b>L</b>	TUV-CBL10	10 foot remote mounting cable
<b>M</b>	TUVC-INTLCK	Door Interlock Switch Kit
<b>N</b>	TUVC-LBRKT	L-Bracket
<b>O</b>	TUVC-LBRKTMG	L-Bracket w/ Magnet
<b>P</b>	TUVC-MNTR	UVC - Radiometer
<b>Q</b>	TUVC-VS	Vertical Support kit



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