APCO-CNE



- Neutralize airborne mold, bacteria, viruses, odors and VOCs
- Maintain a healthy and clean evaporator coil free from efficiency robbing mold and biofilm
- Advanced 2-year UVC lamp and EverCarbon [™] catalyst
- LED light bars monitor system operation and UV lamp life
- Quick-and-easy installation
- Validated to UL2998 zero-ozone
- Lifetime warranty
- 24V operation with incl. Packard 120/208/240VAC transformer









SOLID BLUE = NORMAL OPERATION FLASHING BLUE = REPLACE UV LAMP

FLASHING RED = UV LAMP EXPIRED

SOLID RED = UV LAMP FAILURE

APCO-ONE #TUV-APCO-ONE will replace:

- TUV-APCO-DER**
- TUV-APCO-DER2**
- TUV-APCO-DI2-P**
- TUV-APCO-ER
- TUV-APCO-ER2
 TUV-APCO-SI2-P
- ** we recommend APCO-ONE plus an additional Blue-Tube model

APCO-CNE





APCO'-X U L T R A

- Our most powerful system designed to neutralize airborne mold, bacteria, viruses, odors and VOCs
- Disinfect the evaporator coil improving equipment efficiency
- Advanced 3-year UVC lamp and larger EverCarbonTM catalyst
- LED monitors system operation and UV lamp life
- Validated to UL2998 zero-ozone
- Lifetime warranty
- 24V operation with incl. Packard 120/208/240VAC transformer
- Also available as DUAL LAMP model





TUV-APCOX-DI3-P











FLASHING BLUE = REPLACE UV LAMP FLASHING RED = UV LAMP EXPIRED

SOLID RED = UV LAMP FAILURE



APCO'-X U L T R A



TUV-APCOX-U Furnace application



Reduce indoor air pollution and extend the life of your HVAC system with APCO-X ULTRA, our most powerful air and coil treatment system from Fresh-Aire UV. Now with lamp-life monitoring and LED status indicator.

FEATURES/BENEFITS

SAFELY AND EFFECTIVELY					
24V and 120V operation	Packard 120V transformer included				
Lamp-life status indicator	Indicates when to replace lamp				
Advanced UVC lamp	3-year advanced encapsulated quartz UVC lamp				
Continuously treats the whole-system	Disinfects HVAC equipment (which is prone to mold and biofilm). Microbial contamination robs system efficiency and performance and contributes to poor IAQ	N			
UL2998 validated for zero ozone	Scientifically tested ensuring safety				
Increases HVAC life & efficiency	For up-flow, down-flow & horizontal installations				
Keeps coil & drain pan clean	Long lasting, safe and effective				
Continuously improves Indoor Air Quality	Treats the air in the entire home all the time and is virtually maintenance free (3-year UVC lamp replacement only)				

SAFELY AND EFFECTIVELY TREAT THE OTHER 2/3RDS

Conventional filters are only effective against particulates, like dust. APCO-X ULTRA is proven to safely reduce both biological and chemical contaminants inside the air system and throughout the building. Together, they address 99% of the contaminants in the air.

CLEANS THE COIL AND DRAIN PAN

COILS

WITH

MOLD

Helps keep the HVAC system running efficiently and extend its life.

34% 31%

CHEMIC

35%

PARTICULATES: dust. pet dander, spores, dust mites

FILTERS ALONE

BIOLOGICAL:

COILS

WITH

UV LIGHT

CLEAN AIR

APCO-X ULTRA Helps Neutralize Mold, Bacteria, Viruses, and Allergens



LED STATUS INDICATOR

FLASHING RED =

IIV I AMP EXPIRE

SOLID RED = UV LAMP FAILUR

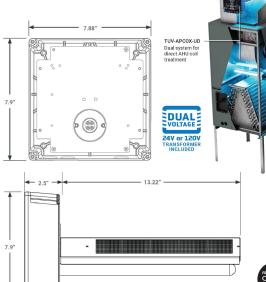
SOLID BLUE =

NORMAL OPERATION

FLASHING BLUE = REPLACE UV LAM



APCO-X Ultra Specs				
UV Lamp	254nm advanced UVC, quartz glass			
	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			
	TUV-APCOX-U: 0.80A, 19.2 WATTS (single) TUV-APCOX-UD: 1.60A, 38.4 WATTS (dual)			
Transformer	Packard 120V transformer included			
Pressure Drop	<0.01" w.c. @ 400 FPM			
	Lifetime all parts, UVC lamp 3-years			
Part Numbers				
Model		Electrical	Replacement Lamp	
TUV-APCOX-U (single)		18-32 VAC	TUVL-315	
Model		Electrical	Replacement Lamp	
TUV-APCOX-UD (dual)		18-32 VAC	TUVL-315 (2)	



LIT-FAUV-APCOX-U SPECS 111523

FRESHAIREUV.COM 800-741-1195





2024's NASA Technology Transfer Program Innovator



https://spinoff.nasa.gov/Air Treatment Systems Break Down Pollutants Germs



Air Treatment Systems Break Down Pollutants, Germs

Technology pioneered for space plant-growth chambers cleans indoor air

Originally published 01/29/2024

By 2020, Fresh-Aire UV had been growing its line of air purification products for 20 years, but no product debut had brought the kind of attention that came with an airborne viral pandemic.

"You always look for ways to bring awareness to the technology. You don't really want it to be a pandemic, but in this case, it was," said Chris Willette, the company's former president and founder. "That was when the general public got introduced to a lot of the technologies we use for cleaning air."

Among the latest of these in the Fresh-Aire UV line was a technique for eliminating organic contaminants that had begun with NASA funding in the 1990s. Known as photocatalytic oxidation (PCO), it became key to helping the Jupiter, Florida-based company's products fight SARS-CoV-2, the virus that causes the COVID-19 disease.

Fresh-Aire UV adopted PCO 10 years earlier to treat rising levels of volatile

Fresh-Aire UV of Jupiter, Florida, developed a line of air purifiers that break down organic contaminants with a process called photocatalytic oxidation (PCO). The company gets its nanoparticulate titania suspension, one of the key ingredients for PCO, from a company that developed it under the researcher who invented PCO with NASA funding in the 1990s.



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NASA TECHNOLOGY TRANSFER PROGRAM











Cloud

















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UV adopted PCO 10 years earlier to treat rising levels of volatile noounds (VOCs) in modern indoor spaces. As buildings have ore airtight to increase their efficiency, they trap more and more utants. According to the EPA, indoor air is often five times - and up - more polluted than outside air, said Aaron Engel, vice president development at Fresh-Aire UV.

ed that this trend followed the spread of synthetic building and aterials such as laminated composite countertops and engineered ich can release formaldehyde, acetone, and other VOCs. Together, s have contributed to rising rates of asthma and allergies, they any VOCs are known carcinogens.

e spend so much time indoors, and many of these contaminants gh conventional HVAC filters, you want to be able to address those d Engel. "Filters address one-third of contaminants in the air - dust The other two-thirds, such as microbes and VOCs, pass through a nd through a tennis racket. Our systems address those two-thirds.

riginally invented to eliminate the organic compound ethylene from t-growth chambers in space. The work was pioneered at the Center for Space Automation and Robotics at the University of Madison, with funding from NASA's Marshall Space Flight Center in Alabama. University researchers, led by Professor Marc Anderson, nting a problem unique to space: In the absence of gravity, there's no convection to keep air circulating. So ethylene, a plant hormone that accelerates aging and ripening, builds up around plants, causing them to wither prematurely

Anderson wanted to break down ethylene using a technique that was in its

Fresh-Aire UV of Jupiter, Floride, developed a line of air purifiers that break down organic contaminants with a process called photocatalytic oxidation (PCO). The company gets Its nanoparticulate titania suspension, one of the key Ingredients for PCO, from a company that developed it under the researcher who Invented PCO with NASA funding in the 1000s.



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