FRESH-AIRE UV®

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.
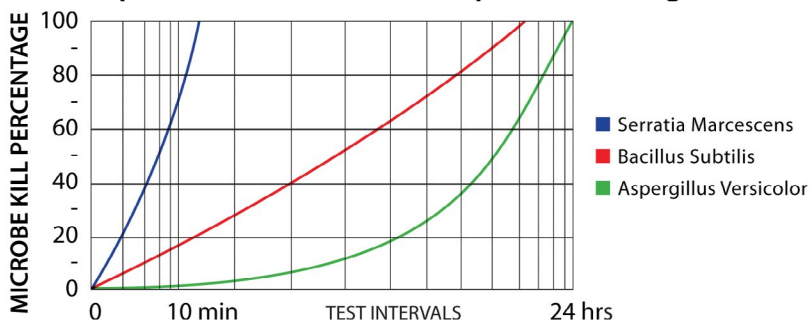
Safety First

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.

UV TECHNOLOGY
TRUSTED BY HOSPITALS

UV Antimicrobial Effectiveness
Captured Microbe Cultures Exposed To UV Light

MICROBE KILL PERCENTAGE

100 / 80 / 60 / 40 / 20 / 0

0   10 min   TEST INTERVALS   24 hrs

■ Serratia Marcescens
■ Bacillus Subtilis
■ Aspergillus Versicolor

Ideal for Healthcare & Related Applications

FRESH-AIRE UV®

# 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

FC CE ETL Intertek

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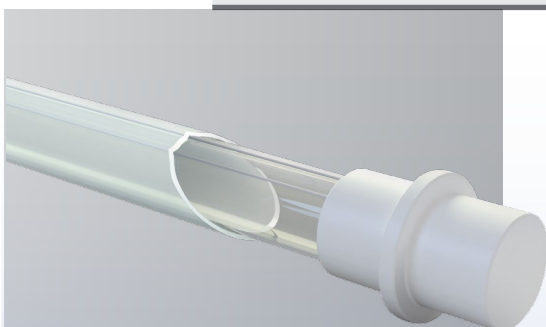
Optional Teflon® covering adds strength to the lamp and prevents a broken lamp from shattering.

ESDS Dual Lamp Fixture

FRESH-AIRE UV®

Made in USA

OZONE OZONE-FREE

ALL PARTS LIFETIME WARRANTY EXCEPT LAMPS

AHU SERIES 1

Germ Killing UV Light

The **Fresh-Aire UV® AHU Series 1** germicidal UV light system for central air systems features a robust design, durable construction and water-resistant components.

The auto-switching 120-277 VAC power supply is completely sealed for mounting in wet locations. In addition, the UV lamp cables incorporate a waterproof connector design with a 6' lead to allow safe routing of cables within the air handler.

The power supply is available with an optional 120 VAC plug.

BENEFITS

- Keeps air system cooling coils and interior surfaces free of mold
- Prevents slime build up in drain pan
- Improves energy efficiency
- Reduces need for air system maintenance
- Extends life of air system
- Kills airborne mold, bacteria, viruses
- Improves indoor air quality

FEATURES

- Water resistant shielded lamp design for stable UV operation
- High efficiency electronic ballast for optimum lamp performance
- Automatic input voltage selection from 120 - 277 VAC 50/60 Hz.
- Lifetime Warranty on all parts except lamp(s)

LIFETIME WARRANTY ALL PARTS EXCEPT LAMP
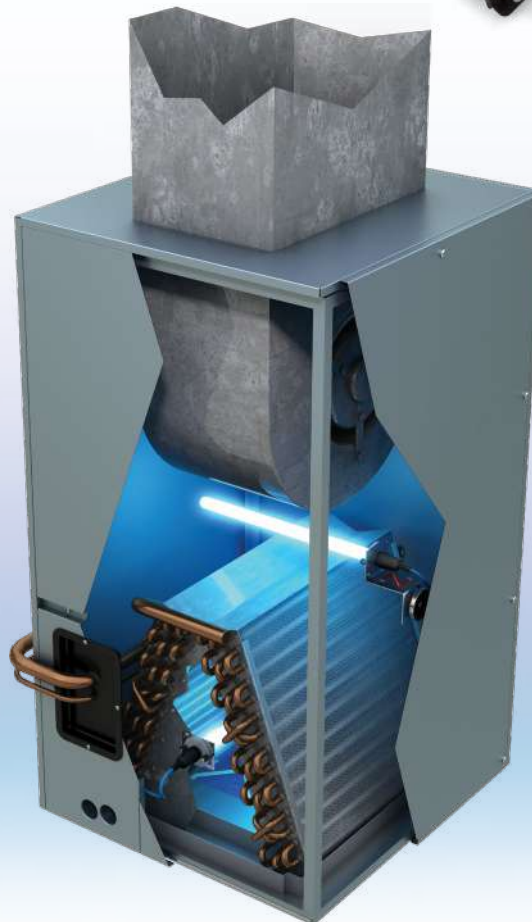
Single - Dual - Triple - Quad Lamp Options
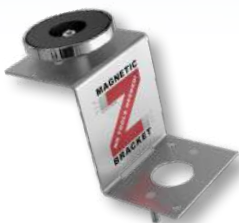
Magnetic "Z" Bracket for Easier Installation

Installation of **Fresh-Aire UV™** systems has never been easier! Our revolutionary new **Magnetic "Z" Bracket** eliminates the need for drilling, precise measuring, and fumbling with small screws in the tight confines of the air handler - in fact no tools are required at all to install the bracket!

AHU SERIES 1
Germ Killing UV Light

FRESH-AIRE UV | INDOOR AIR QUALITY | INNOVATION

Specifications & Part Numbers	
AHU Series 1 with One Year Lamp(s)	
TUV-100S-I (single) **TUV-100D-I (dual)** **TUV-100T-I (triple)** **TUV-100Q-I (quad)**	**ADD "P" for wall plug** **Example: TUV-100S-I-P**
AHU Series 1 with Two Year Lamp(s)	
TUV-200S-I (single) **TUV-200D-I (dual)** **TUV-200T-I (triple)** **TUV-200Q-I (quad)**	**ADD "P" for wall plug** **Example: TUV-200S-I-P**
TUVP-1S/1D-I (single & dual) power supply specs	
Electrical Dimensions	Auto switching multi-voltage 0.51A /120V Thru 0.22A /277V 8.75"L x 3.5" W x 2.5"D
TUVP-1T/1Q-I (triple & quad) power supply specs	
Electrical Dimensions	Auto switching multi-voltage 1.02A /120V Thru 0.44A /277V 13"L x 3.5" W x 2.5"D
1 Year UV lamp TUVL-115 specs	
Spectrum **Type** **Dimensions**	**254 NM Germicidal UV-C** **Unshielded Quartz Hot Filament** **15"L x 0.74" Dia.**
2 Year UV lamp TUVL-215 specs	
Spectrum **Type** **Dimensions**	**254 NM Germicidal UV-C** **Shielded Quartz Hot Filament** **15"L x 1" Dia.**
Common to all	
Kit Includes	Internally Mountable Power Supply, 6' Lamp Cable, 6' Power Cord, UV Lamp(s), Lamp Mounting Brackets, Mounting Hardware and Panel Indicator

Comprehensive Air Purification

Combine **Fresh-Aire UV® APCO®** or **APCO® RT** with **AHU Series 1** for comprehensive whole-house air purification. Award-winning **APCO®** technology uses **PCO/Activated Carbon Cells** to neutralize odors and toxic VOCs.

FRESH-AIRE UV® OZONE OZONE-FREE

ETL LISTED Intertek CONFORMS TO UL STD 1598

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 **BLUE-TUBE UV®**

Coils with Mold

Improves Indoor Air Quality For Your Office

2 YEAR

ODOUR CONTROL
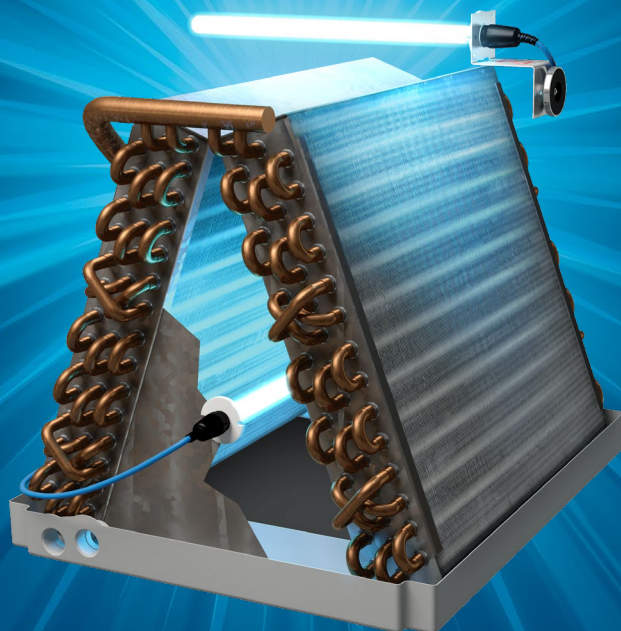
FRESH-AIRE UV® — BLUE-TUBE UV®

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

UV Light Kills Germs!

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

1 or 2 Year UV-C Lamp Options

ALL PARTS LIFETIME WARRANTY EXCEPT LAMPS

Magnetic "Z" Mounting Bracket

Power Supply

FRESH-AIRE UV® Made in USA

FRESH-AIRE MINI UV LED

5 YEAR UV LIGHT LED SYSTEM FOR MINI-SPLITS

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.

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

FEATURES

- Fits mini-split & ceiling cassette A/C systems
- UV LED spectrum is safe for eyes & plastics
- Adhesive LED strip is trimmed to length
- 120-277 VAC power supply
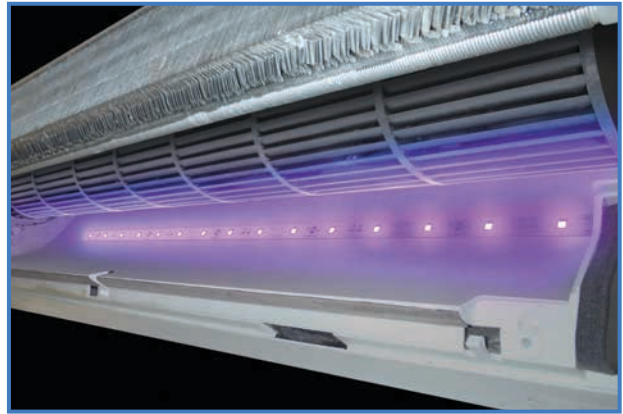- 50,000 hour+ expected LED life
- 5 year warranty on all parts

FRESH-AIRE UV®
OZONE
OZONE-FREE
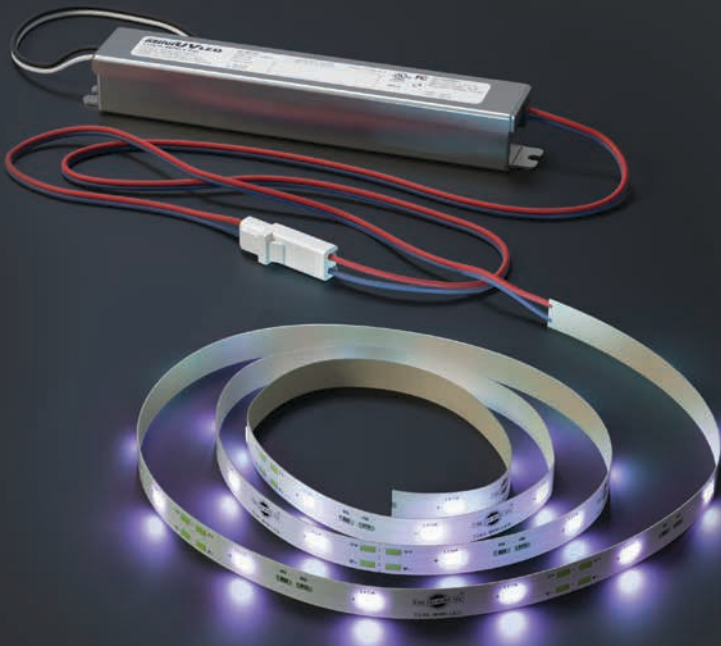
FRESH-AIRE MINI UV LED

Mini-Split blower with MOLD

Mini-Split blower with Mini UV LED™

Specifications	
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	LED strip, LED driver, #8 pan screws, panduit straps, warning stickers, manual
Warranty	All parts 5 years
Part Number: TUV-MINI-LED	

*Another award-winning IAQ product
from the innovation leader*

AHR EXPO
INNOVATION AWARD

SERVICE WORLD EXPO
10 BEST TECHNOLOGIES OF 2018

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