

FAR UV DISINFECTION

DUCTZONE Air Disinfection Module

ICRA COMPLIANCE LEVELS I-V



One Pass Disinfection of Air Plus Diffusion Creates a Safe Alternative to Ducting.

The DUCTZONE Air Disinfection Module is a commercial-grade UV disinfection and diffusing module that sits downstream from a negative air machine. The DUCTZONE is built with the same quality as a HEPACART® and is used in high-risk environments as a secondary level of protection against pathogens.

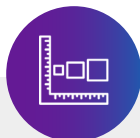


State-of-the-Art UV Technology

Single pass air cleansing via commercial grade ducting alternative for the most critical of environmental needs.

Effective on viruses including:

- Covid
- Tuberculosis
- Measles
- Influenza
- Common Cold



Portable Single Size Unit

Placed downstream from the HEPA-filtered negative air machine.

Exhausted air from a negative air machine is ported through the 12' duct and along the UV-lamp before being diffused.

Effectively handles air velocity up to 500 cfm with increase efficacy at lower air speeds.



Used in High-Risk Areas

When secondary measures are required in the most critical areas, the DUCTZONE is a convenient and highly effective solution.

DUCTZONE Disinfects, Diffuses, and Ducts

One Pass Air Disinfection with FAR-UV Technology



DUCTZONE



Working Dimensions:
26.5" L × 20.12" W × 16.6" H

Technology:
Far-UVC lamp

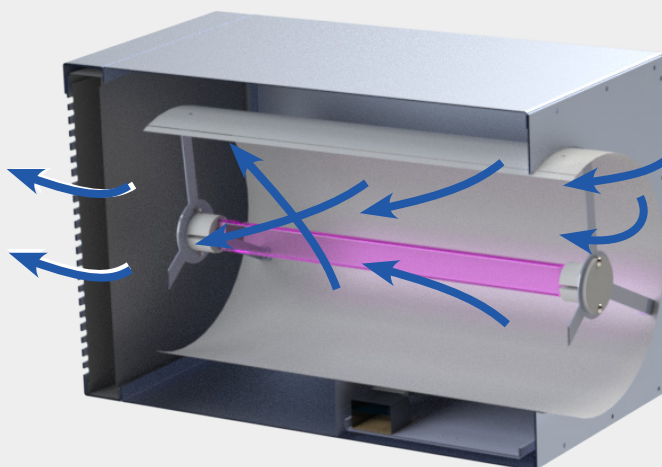
Working Weight:
40 lbs.

MODEL: FUV.ADM.USH



How it Works

1. Filtered air from the negative air machine is pushed through the unit at speeds ≥ 500 cfm.
2. Air is funneled into the tube in close proximity and along the length of the Far-UVC lamp.
3. As the air travels near the lamp, pathogens are inactivated through UV exposure.
4. Treated air is then exhausted and diffused through an additional filter.



DUCTZONE FEATURES



State of the Art Technology

Includes 18" Far-UVC mercury-free lamp and 300-watt power supply with instant-on effectiveness.

Lamp effectiveness is not affected by heat, cold or humidity.

Delivers the necessary exposure up to 500 cfm to inactivate many of the most common pathogens

Far-UVC is absorbed at higher levels for DNA and other proteins.

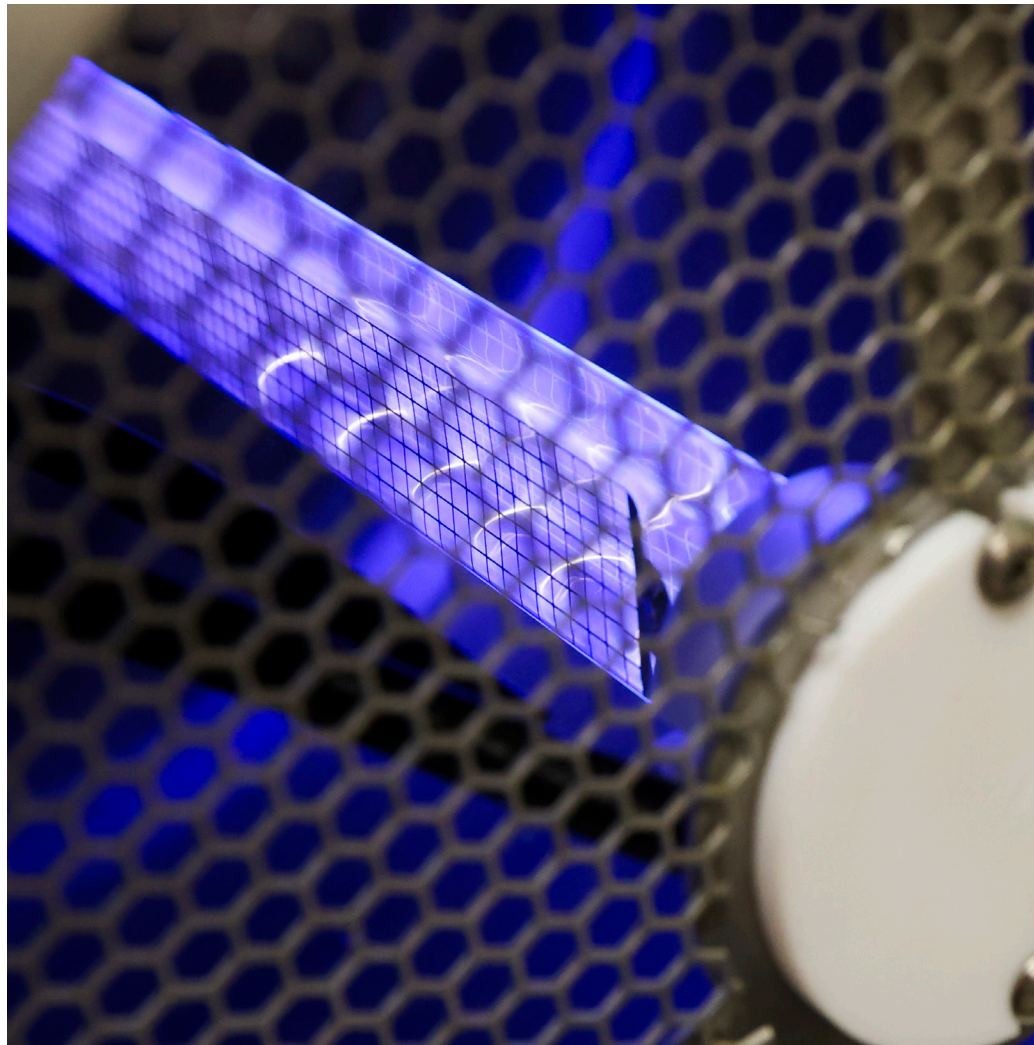


Convenience

Includes 8' power cord.



Simple operation with integrated controls and hours meter.



Build Quality

Crafted with the same premium quality as the flagship HEPACART®. Assembled with blind self-sealing rivets.

Looks professional in any environment. Easy to clean and maintains appearance through daily cleanings.



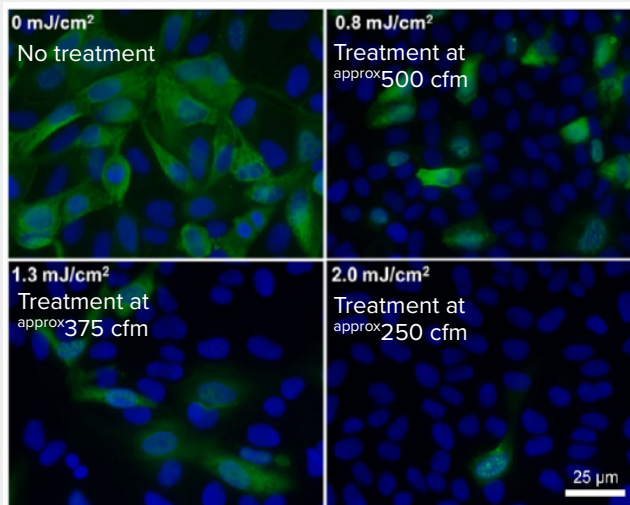
DUCTZONE FAR-UV Efficacy

AIRSPEED AND EFFICACY AT DIFFERENT DOSES OF 222-NM FAR-UVC LIGHT

To estimate effective Far-UVC dosing with the DUCTZONE Air Disinfection Module, we have measured the lamp intensity as installed and calculated the average dose achieved on the airstream.

This data is then compared with the published data for air disinfection using Far-UV to provide a relative estimate for Far-UV cleaning of the air.

Typical fluorescent images of MDCK epithelial cells infected with influenza A virus (H1N1). The viruses were exposed in



For the DuctZone ADM per exchange at:

- 500 cfm the unit achieves 0.87 mJ/cm²
- 375 cfm the unit achieves 1.26 mJ/cm²
- 250 cfm the unit achieves 1.89 mJ/cm²

aerosolized form in the irradiation chamber to doses of 0, 0.8, 1.3 or 2.0 mJ/cm² of 222-nm Far-UVC. Infected cells fluorescent green

(blue=nuclear stain DAPI; green=Alexa Fluor-488 conjugated to anti-influenza A antibody). Images taken with 40× objective.

Single-pass air cleansing for Covid, influenza, measles, tuberculosis, and other airborne pathogens.

Advantages of FAR-UV

- Much safer for human skin and eyes
- Applications for human occupied areas
- Better against spores and preventing re-growth
- Strong and effective germicidal properties
- Eco-friendly lamps with no mercury
- No warm up time with instant on/off

