

# UV Air Filtration (UV-AF)

**Because  
every breath  
matters.**

Combat the spread of  
infection that ensures  
clean, more hygienic air.



## **BENEFITS INCLUDE**

- Kills 99.99% of all airborne viruses
- High efficiency technology
- Can be retro fitted into existing HVAC systems
- Unique safety sensor
- Multiple flange fixings available
- Bespoke sizes manufactured
- \* Can be linked to BMS

Our UV Air Filtration unit sits directly in the air stream and can feature from 2 to 16 high-output UV-C lamps to provide enough UV energy to disrupt the virus's DNA.

UV-AF unit inactivates micro-organisms by attacking their DNA, permanently destroying and altering the molecular structure, leaving them unable to replicate or grow.



**ACE Filtration**  
CLEAN AIR FOR ALL

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ACE Filtration manufacturers of high quality commercial and industrial air filtration products.

# UV Air Filtration

Because every  
breath matters



## UV Air Filtration (UV-AF)

### Photocatalyst Filtration

A filtration made from titanium oxide that chemically absorbs remaining pollutants, exhaust fumes and Volatile Organic Compounds (VOCs).

It removes odours as well as providing long term anti bacteria qualities to the air providing an even safer working environment.

### Our UVAF range incorporates:

- UV-C lamps are shielded by their module to reduce the collection of dirt on their surface thus extending to their optimum efficiency
- The ability to provide the units in a simple format or fully monitored with each module of lamps able to provide a local alarm or a signal if in fault

### For UV-AF applications we use non Ozone producing lamps

Germicidal lamps utilise powerful UVC wavelength to destroy disease-causing germs including viruses, bacteria, fungi, protozoa and algae, effectively sterilising and purifying air, water and surfaces.

UVC disinfection targets the nucleic acid of these harmful cells, rearranging the genetic information, or DNA, and rendering them harmless.

As the UVC radiation is absorbed into the cells they become unable to reproduce or multiply to infectious numbers and are considered inactive or dead.

## SPECIFICATIONS

	AF02/MVHR	AF04/FC	AF04/16/AHU
Power Supply	220/240V 50Hz	220/240V 50Hz	220/240V 50Hz
Energy Consumption	205 Watts	410 Watts	410 to 1640 Watts
Max Air Volume	Up to 0.33m <sup>3</sup> /sec	Up to 0.38m <sup>3</sup> /sec	Up to 1.4m <sup>3</sup> /sec
Dimensions (mm)	500 (W) 300 (H) 635 (L)	1050 (W) 280 (H) 635 (L)	500-900 (W) 380-635 (H) 640 (L)
Weight	15Kg (Approx)	28Kg (Approx)	20-70Kg (Approx)

The above are currently our standard sizes however bespoke units can be made to your fit your specific unit sizes.

### Safety and Compliance are at our core

Using guidelines set by ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers) and CIBSE (Chartered Institution of Building Services Engineers) our engineers have been able to take the required measurements and exceed them by consistently being able to produce enough irradiation in our units to neutralize 99.99% of airborne virus.



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Contact us today to discover how  
ACE Filtration can help your business.  
[acefiltration.co.uk](http://acefiltration.co.uk)