

# Air Purification

from



distributed by



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# Why is it necessary?

According to recent research from the WHO, pollution in the air represents an important environmental risk for our health and reducing these levels will in return reduce the number of strokes, lung cancers and chronic pneumonia among other diseases.

Therefore Air Purification is a key tool to improve general Health and Wellbeing as well as future proofing your facilities against air born viruses.

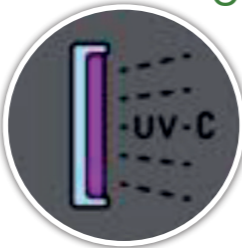
## The Challenges

- To create a range of purification devices that could be utilised safely in an occupied environment.
- Reduce the cost of maintenance and operation.
- Remove the requirement for expensive replacement filtration.
- Remove the health risks to those replacing filters.
- Reduce the noise created by purification devices within the working environment.

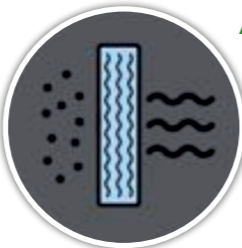


# Technology

Thanks to the UV-C light emission upon the photocatalytic compound, a natural chemical reaction occurs on the surface of the compound. This reaction produces radicals that destroy any bacterias, fungus, virus and other volatile organic compounds that come into contact with the active surface. Thanks to this process, 4 purifying functions are achieved at one time, all of which are completely harmless to people, animals and plants.



UVC light emission between 200 and 280 nm of wavelength (most effective for disinfection).



A photocatalytic compound (Aksep) is contained in a pad that allows the air to flow through it.



It captures and destroys bioaerosol (fungus, bacterias and virus) that are present in the air.



A venitlation solution, with WiFi setup and electronic control.

# Comparison with other similar products

Other Air Purifiers available in the market						
	Sol-Fix	Active carbon	Ionizer	Ozone	UV Light	HEPA Filter
No filter/ maintenance	✓		✓	✓	✓	
Eliminate odours	✓		✓	✓		
Eliminates virus & bacterias	✓	✓		✓		
No adverse health benefits	✓	✓			✓	✓
Surface Disinfection	✓					



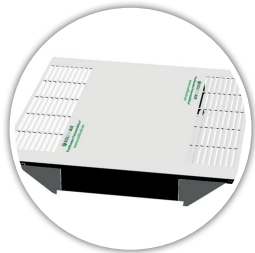
## Our Range

Sol Fix have designed a multi purpose range of purification devices to suit all needs.



These include:

- Desktop
- Wall mount
- Ceiling Tile
- Floor Standing
- Portable (Elevators, buses, cars)



There are also air conditioning ducting versions available, for use with your current air management system.



## Certification

Sol Fix enlisted the services of the following organisations to confirm the efficiencies of the purifiers:

**SGS Group**

**Ciemat**

**Spanish Ministry of Science & Innovation**

**University of Alcala**

**Fuenlabrada Hospital**

Information on these studies is available upon request.

## Laboratory Results

A study was completed at the University Hospital of Fuenlabrada in the Department for preventative medicine and microbiology. The 48 hour study concluded that, the Photocatalytic Purifier Sol-Fix SF0P003A reduced more than >99% of the mesophyll aerobics in the pneumology consultation room in 24 hours and 100% of fungi. Taking into account the this room was constantly entered and exited during the study & also the device was located in a temporary location.

Further studies are being undertaken by our offices in the UK and USA.

### Results

