Air Purification Solutions

Clean air, stop odours,
improve comfort, save money

PUREAIR from AIRIUS home

Internal air pollution

External and internal pollutants can have a significant impact on the quality of air in every home and consequently on occupants' health.

Poor internal ventilation is a wide-scale problem with an estimated 1 in 5 households being poorly ventilated and suffering from poor indoor air quality. Energy efficient measures such as cavity wall insulation and double glazing make homes more energy efficient by keeping heat in, but as a result, it also traps bacteria, viruses, odours and pollutants which have a detrimental effect on the occupants health.

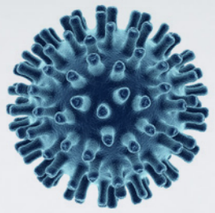
Poor indoor air quality has a significant impact on the health and wellbeing of occupants. This is magnified by the fact that on average, occupants spend over 80% of their time indoors.

We have always known that ventilation is important to keep fresh air circulating in our homes and to prevent the build-up of damp and mould, but now we are all too aware of the need to ensure the air circulating is also clean and free from dangerous viruses and external pollutants.

When we are at home we expect to be safe and protected, however indoor air quality is up to 10 times more polluted than the air outside our homes. There are hundreds of viruses, bacteria and pollutants circulating inside our homes, along with mould, gases and vapours.

These pollutants cause a vast range of health problems, including Asthma, Heart Disease, Chronic Obstructive Pulmonary Disease, Stroke, Diabetes and Lung Cancer.

Each year, close to 4 million people die prematurely from illnesses attributable to household air pollution.



What can we do to improve our home's indoor air quality and what are the benefits?

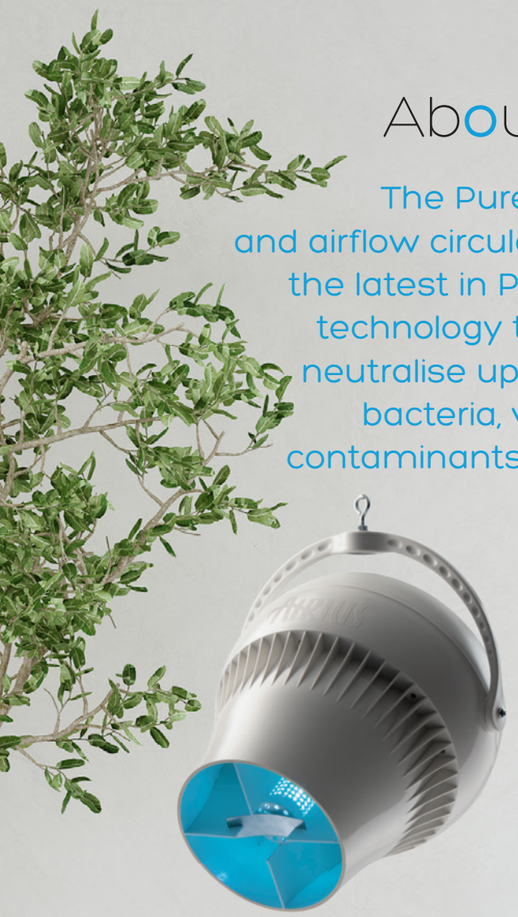
- Our revolutionary product provides continuous 24hr air purification
- Kills over 99% of surface bacteria & viruses
- Kills over 97% of airborne bacteria & viruses
- Reduces gases, vapours & vocs by over 80%
- 78% Of microbes in human sneezes killed at 3 feet
- Reduces odours & moulds by over 98%

Tested to kill up to 99% of all germs, bacteria & viruses.

Air purification and airflow circulation in one innovative fan.

About the PureAir

The PureAir is an air purification and airflow circulation fan system. It incorporates the latest in PHI (Photohydroionization) Cell technology to efficiently and effectively neutralise up to 99% of all harmful germs, bacteria, viruses, mould and other contaminants in any internal environment.



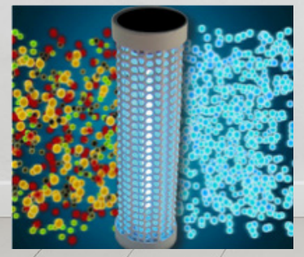
The PHI Cell emits 'Ionised Hydroperoxides', a naturally occurring cleaning agent, which is circulated throughout interior spaces via the fan. As the fans continue to circulate internal atmosphere, the PHI circulates its neutralising Ionised Hydroperoxides, providing 24/7 continuous air purification.

The PureAir also provides all the features and benefits of the world's most popular destratification and airflow circulation fan; balancing temperatures, improving comfort, reducing heating and cooling costs, and reducing carbon emissions.

How does it work?

The PureAir incorporates a patented PHI (Photohydroionization) Cell within the fan unit, which projects a broad spectrum HE/UV light on to a quad-metallic catalyst target in a low ozone and moist atmosphere. This process causes a unique oxidation reaction that produces friendly oxidisers called 'Ionised Hydroperoxides'.

Hydroperoxides are known as 'Mother Nature's Cleaning Agent' and are what make the air smell clean after a thunderstorm.



PUREAIR

The PureAir air purification and odour control system significantly improves indoor air quality (IAQ), reducing viruses, bacteria, gases, VOCs (Volatile Organic Compounds), mould and odours by up to 99.99%, whilst its advanced atmosphere oxidisation technology gives indoor environments fresh, clean and odour-free air.

In addition, while the air is continuously being purified the space is also being thermally equalised (destratification). This results in improved comfort through the elimination of hot and cold spots and the potential for a significant reduction in energy consumption, by balancing the floor and ceiling temperatures.

Making you and your home healthier

Reduce your chance of falling ill
99% of surface and 97% of airborne viruses, bacteria and germs are eradicated

Reduces mould by 98%
Condensation is significantly reduced throughout your home

Lowers asthma risk
Vapours and volatile organic compounds (VOCs) are reduced by over 80%

Lower allergy risk, like hay fever
Gases, vapours and VOCs are reduced by over 80%

Your home will feel and smell fresh
Pet and other odours are reduced by over 99%

Lower energy costs
Air is constantly circulated, balancing temperatures, decreasing heating and cooling costs, as well as reducing damp

Other Benefits

- Continuous air purification
- Kills over 99% of surface bacteria & viruses
- Kills over 97% of airborne bacteria & viruses
- 78% of microbes in human sneezes killed at 3 feet
- Reduces odours by over 99%
- Reduces mould by over 98%
- Reduces gases, vapours & VOCs by over 80%
- Creates a clean & healthy home environment

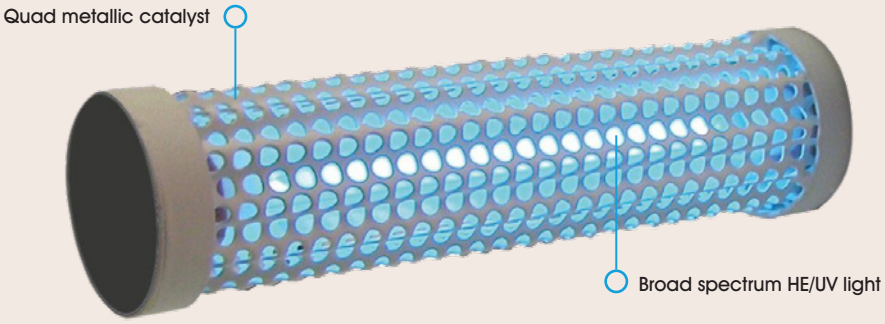
PureAir PHI Cell™ technology

The PureAir PHI Cell™ is the latest advancement in Photohydroionization™ technology, using an Advanced Oxidisation Process to clean air and eliminate odours.

At the heart of every PureAir fan is a unique Photohydroionization (PHI) Cell.

The PureAir PHI Cell™ is a proprietary broad spectrum, high efficiency UV bulb, which works with a hydrated quad-metallic target.

UV Light is projected onto the hydrated target, which acts as a catalyst for a reaction with water vapour (a hydroxyl radical reaction of the broad spectrum - 100-300 nm HE/UVTM energy). This results in the production of hydroperoxides, super oxide ions, passive negative ions, hydroxides, ozonide ions and safe, low level ozone (O3).



These safe and naturally occurring ions and oxides are circulated throughout spaces via the fan, which then bond with germs, bacteria and viruses, reacting with an advanced oxidisation process that breaks them down, rendering them inert, safe and odour-free. In addition to biological pollutants, they also neutralize chemicals such as mercury, benzene, formaldehyde, chloroform, and ammonia.