



The World's Leading Destratification & Air Purification Fan Manufacturer

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Tel: +44 (0) 1202 554200

**PURIFIED AIR,  
INFECTION CONTROL,  
STOP ODOURS,  
SAVE MONEY**

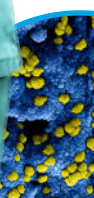
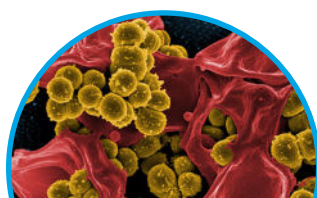
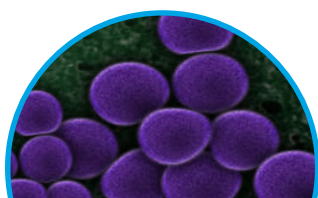
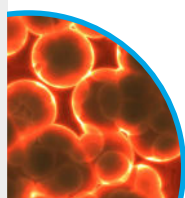


Kill 99% Of Germs,  
Bacteria, Viruses,  
Reduce Odours,  
Mould, VOCs &  
Have Fresh, Clean &  
Healthy Air





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# TRUST IN AIRIUS

**Formed in 2004, we have revolutionised** the air purification and energy reduction industry.



**Airius has helped thousands of businesses,** from SMEs to major blue chip companies make real improvements in air quality, as well as a significant reduction in energy usage.

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# What is the Airius PureAir PHI?

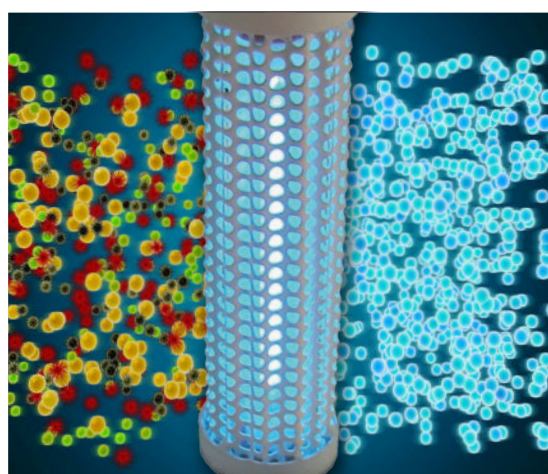
**T**he Airius PureAir PHI Series is an air purification and airflow circulation fan system, incorporating the latest in PHI (Photohydroionisation) Cell technology from RGF Environmental, one of the world's leading specialists in air, water and food purification, to efficiently and effectively neutralise 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 are circulated throughout 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 PHI 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 Airius PureAir PHI Series incorporates a patented PHI (Photohydroionisation) Cell within the fan unit, which projects a broad spectrum HE/UV light on to a quad metallic catalyst target in a 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.

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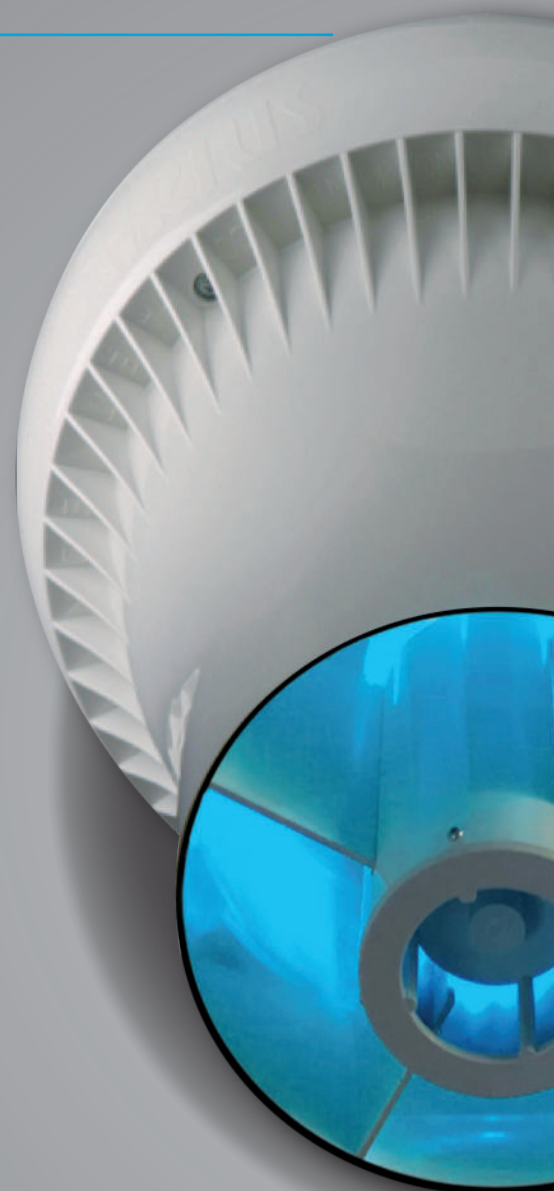
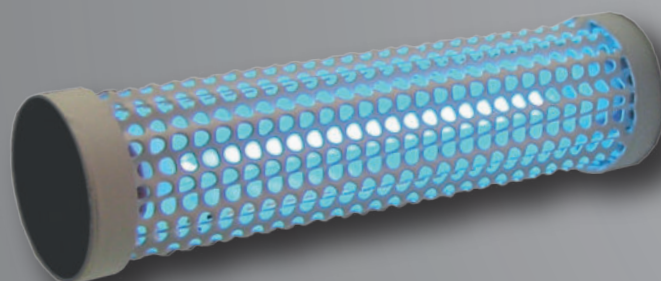
# PureAir PHI Series

**T**he Airius PureAir PHI air purification and infection control system significantly improves indoor air quality (IAQ) reducing viruses, bacteria, gases, VOCs (Volatile Organic Compounds), mould and odours by up to 99%+ using an integrated PHI Purification Cell, whilst its advanced atmosphere oxidation technology gives indoor environments fresh, clean and odour free air.

This makes it the perfect low cost solution for hospitals, care homes, doctors & dentist surgeries, children's nurseries and food preparation facilities etc. in maintaining a clean, healthy and odour free environment.

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.



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## Benefits

- Continuous air purification
- Kills over 99% surface bacteria & viruses
- Kills over 97% airborne bacteria & viruses
- Reduces odours by over 99%
- Reduces mould by up to 98%
- Reduces gases, vapours & VOCs by over 80%
- Reduces pet dander, pollen and dust
- Established and proven technology
- 120 day money back guarantee (UK only)
- Reduces staff absenteeism
- Reduces Sick Building Syndrome
- Advanced oxidation technology
- Simple to install with no ducting required
- Small, versatile, unobtrusive units
- Clean & healthy care environment
- Cost effective Indoor Air Quality solution
- No maintenance required
- 5 year Fan & 2 year PHI cell warranty

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a fully tailored quotation for your building.  
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## All-inclusive features

### Advanced Oxidisation

The PHI Cell uses a safe yet aggressive oxidation process to break down harmful contaminants, leaving only Oxygen & Hydrogen remaining.



### Tested & Certified

Certified by Universities & Laboratories as well as the Chinese Government, who have approved RGF PHI Technology for SARS protection in all subways & government buildings.



### Cleans Air & Surfaces

The integrated RGF PHI Cell not only provides airborne protection, but also eliminates over 99% of all surface germs, bacteria & viruses.



### Improved Comfort

As well as cleaning air & surfaces the PureAir PHI circulates airflow and balances temperatures to save up to 50% on HVAC costs.



**PUREAIR**  
series

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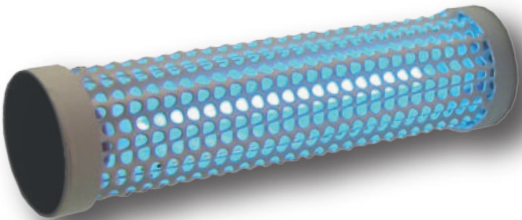
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# The PHI Cell

The Integrated RGF PHI Cell™ is the latest advancement in Photohydroionisation™ Technology, using an Advanced Oxidisation Process to clean air and eliminate odours.

At the heart of every PureAir PHI Series fan is a unique PHI (Photohydroionisation) Cell from one of the worlds leading air, water and food purification specialists RGF Environmental.



The PHI Cell is 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). This results in the production of hydroperoxides, super oxide ions, passive negative ions, hydroxides and ozonide ions.

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.

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## Tested & Certified



The Laboratories, Universities and Organisations above are but a few of the certifying bodies to have tested RGF PHI Technology.

These, in addition to all the Testing Organisations named in the table opposite, have had their results reviewed and verified by the United States Government.

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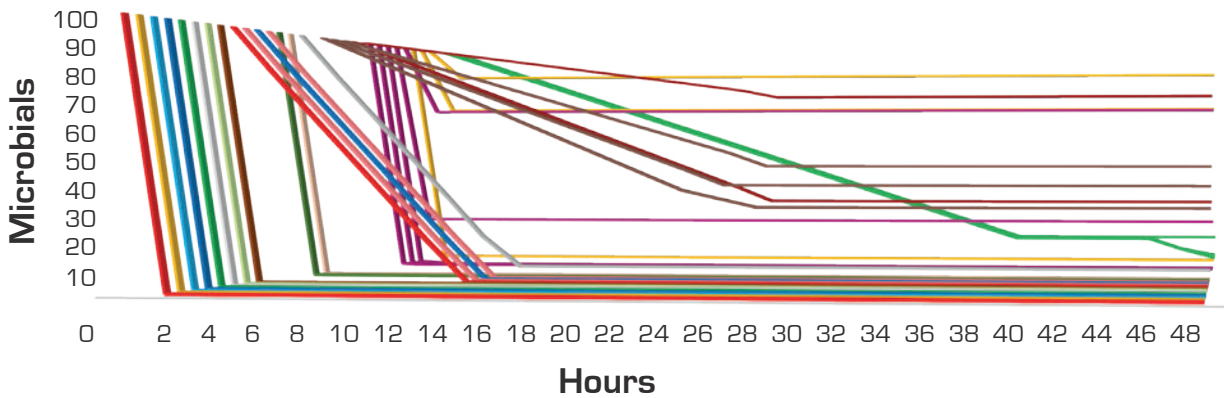
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# PHI Independent Test Results

## Microbial Reduction over 24-48 hours



	Reduction	Time Period	Tested By
COVID19 (SARS-CoV-2)	99%+	24 Hours	Innovative Bioanalysis Laboratories
MRSA	99%+	24 Hours	Kansas State University
SWINE & BIRD FLU	99%+	24 Hours	Kansas State University
SARS	99%+	24 Hours	NEI-Chinese Government
NORWALK VIRUS	99%+	24 Hours	Midwest Research Institute
CLOSTRIDIUM DIFFICILE	99%+	24 Hours	Kansas State University
TUBERCULOSIS	99%+	24 Hours	Kansas State University
LEGIONELLA	99%+	24 Hours	Kansas State University
PSEUDOMONAS SP.	99%+	24 Hours	Kansas State University
BACILLUS SPP.	99%+	24 Hours	Kansas State University
STACHYBOTRYS CHARTARUM	99%+	48 Hours	Kansas State University
E. COLI	99%+	48 Hours	Kansas State University
STREPTOCOCCUS PNEUMONIAE	99%+	48 Hours	Kansas State University
LISTERIA	99%+	48 Hours	Kansas State University, Steris Labs, KAG, Eco Labs
CANDIDA ALBICANS	99%+	48 Hours	Kansas State University
STREPTOCOCCUS SP.	96%+	48 Hours	Kansas State University
BACILLUS GLOBIGII	99%+	48 Hours	Kansas State University
STAPHYLOCOCCUS AUREUS	99%+	48 Hours	Kansas State University
MOULD	-	-	California Microbiology Center, Independent Accredited Lab - IBR, Kansas State University, University of Florida, United States Air Force, R&D Labs, C&W Engineering, University of Cincinnati, Kane Regional Hospital
Bacteria	99%+	48 Hours	
Mould	97-98%+	48 Hours	
Yeast	90%+	48 Hours	
ODOURS	-	-	
Pet Odours	72%+	24 Hours	C&W Engineering
Perfume Odours	63%+	24 Hours	
Cleaning Chemicals	55%+	24 Hours	
SMOKE	-	-	
Odour	70%+	24 Hours	C&W Engineering
Particulates	25%+	24 Hours	
VOCs	-	-	
D-limonene	98%+	24 Hours	NELAP Accredited Independent Lab
Toluene	29%+	24 Hours	
Methyl Ethyl Ketone	13%+	24 Hours	
CHEMICAL COMPOUNDS	-	-	
Methyl Mercaptan	100%	24 Hours	NELAP Accredited Independent Lab
Butyl Acetate	100%	24 Hours	
Methyl Methacrylate	100%	24 Hours	
Hydrogen Sulfide	80%+	24 Hours	
Carbon Disulfide	30%+	24 Hours	
OZONE / EMF	-	-	FSIS, UL, ETL, TUV, CSA, ISSES, Disney

### CORONAVIRUS

In independent tests RGF PHI Cell technology was shown to have a 99.9% inactivation rate on surface and 99.5% inactivation rate on aerosol forms of the SARS-CoV-2 (COVID19) virus.

Testing commenced in March carried out in a 36m³ (1,280ft³) testing chamber using the SARS-CoV-2 virus, not a surrogate or similar virus. Results show the virus is killed on contact with the PHI's cleaning agents, effectively neutralising the virus within the chamber within a matter of minutes.

It is important to note that no medical claims are made.

**Disclaimer:** All the tests above were performed on the RGF Environmental Reme Halo PHI Advanced Oxidation system with Advanced Oxidation Plasma of less than .02 ppm. They were conducted by independent accredited labs and university studies. They were funded and conducted by major RGF Environmental clients to assure third party credibility. PHI products are not medical devices and no medical claims are made.

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# Technical Data

Every Airius PureAir PHI Series fan features a top of the range, highly reliable & energy efficient motor, independently tested by BSRIA, along with a top of the range RGF Photohydroionisation Cell.



## Unit Dimensions & Weights

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TECH SPECS	Model 10	Model 15	Model 25	Model 45
Range	PureAir PHI	PureAir PHI	PureAir PHI	PureAir PHI
Ceiling Heights <sup>1</sup>	2.5m - 4m	4m - 6m	6m - 8m	8m - 12m
Nozzle Heights <sup>1</sup>	2m - 3.5m	3.5m - 5.5m	6m - 7m	7.5m - 11m
Dia. Coverage <sup>1</sup>	8m - 10m	9m - 11m	11m - 13m	11m - 13m
Floor Area <sup>1</sup>	48m <sup>2</sup> - 72m <sup>2</sup>	60m <sup>2</sup> - 90m <sup>2</sup>	89m <sup>2</sup> - 133m <sup>2</sup>	89m <sup>2</sup> - 133m <sup>2</sup>
Volts <sup>2</sup>	230	230	230	230
Watts <sup>2</sup>	21-22	24-25	40-41	52
RPM <sup>2</sup>	980	1230	1450	1450
CFM <sup>2</sup>	318	406	459	595
m <sup>3</sup> /hr <sup>1</sup>	540	690	780	1010
AMPS <sup>2</sup>	0.06	0.06	0.14	0.19
IP Rating	IP55	IP55	IP55	IP44
Operating Temp <sup>2</sup>	-20°C - 70°C	-20°C - 70°C	-20°C - 70°C	-25°C - 70°C
Thermal Shut Off <sup>1</sup>	110°C	110°C	110°C	135°C
Reset Temp <sup>1</sup>	90°C	90°C	90°C	125°C
Noise Level <sup>2</sup>	0 - 21dB(A)	0 - 21dB(A)	0 - 31dB(A)	0 - 35dB(A)
Height (Inc Handle)	444mm	546mm	546mm	605mm
Height	311mm	413mm	413mm	455mm
Diameter	325mm	325mm	325mm	375mm
Weight	3.2 KG	4.1 KG	4.1 KG	6.3 KG
Shipping Height	370mm	450mm	450mm	490mm
Shipping Width	380mm	340mm	340mm	370mm
Shipping Length	380mm	340mm	340mm	370mm
Shipping Weight	6 KG	6 KG	6 KG	9 KG

Data above is calculated at 50Hz.  
<sup>1</sup>Motor data provided by motor manufacturer and is subject to change at any time.  
<sup>2</sup>Noise Levels recorded at floor level from units installed at maximum ceiling height. Accurate as of February 2020. Each facility has unique fluid dynamics, please contact supplier to specify your system.

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# Series warranty

All Airius PureAir PHI Series fans come with a 5 year Fan Replacement Warranty, as well as a 2 year PHI Cell Replacement Warranty. Simply return defective units to Airius, carriage paid and upon receipt Airius will dispatch a new unit by return carriage fully paid.

To avoid refurbishment and cleaning charges, all units returned must adhere to the returns criteria.

For further details email [info@airius.co.uk](mailto:info@airius.co.uk) or call on +44 (0) 1202 554200.



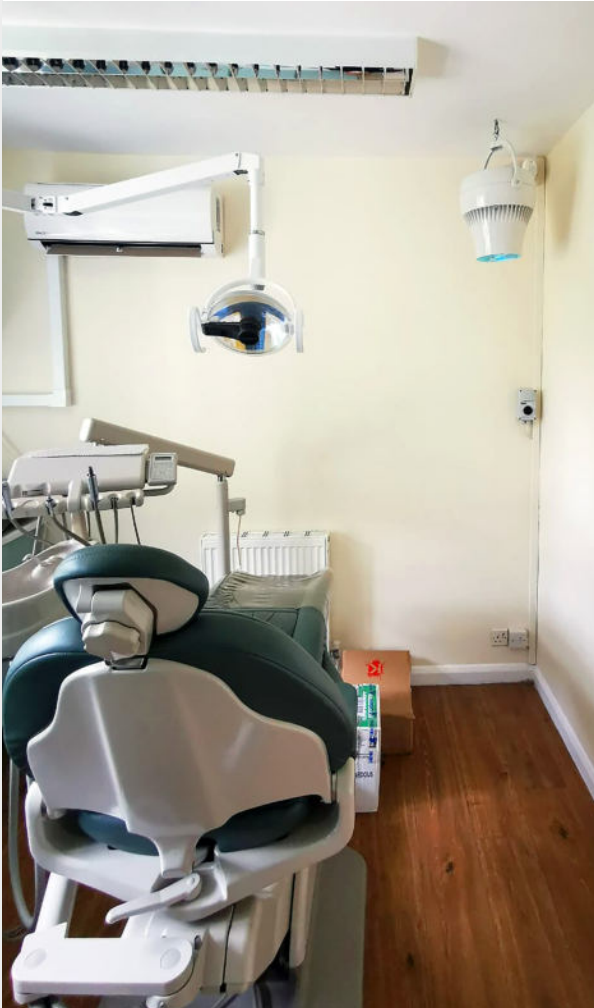
RGF PHI CELL	Max Purification Coverage <sup>2</sup>	Estimated Run Time	Housing
5" (127mm) Cell <sup>1</sup>	271.8m³	25,000 Hours	UV bulb, encased in a protective poly tube, encased in a metal cell
9" (228mm) Cell <sup>1</sup>	1,472.5m³	25,000 Hours	

<sup>1</sup>Data provided by cell manufacturer and is subject to change at any time.  
<sup>2</sup>Units must be used in conjunction with additional Airius airflow circulation fans to achieve Maximum Purification Coverage.

## Installation

Typically, Airius fans are installed in the ceiling space with the nozzle directed directly downwards and performs best when the air column is unimpeded to the floor.

Units must be hung using fixings such as hooks, chains, cables etc to professionally installed hardware capable of supporting a minimum of five times the weight of the unit.



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# Case Studies

PHI Cell Technology has been installed throughout a wide range of industries, including Hospitals, Schools, Care Homes, Offices and Manufacturing Facilities.

## Tandara Lodge Care



Tandara Lodge Community Care is a residential aged care facility that also provides a wide range of health care services within the local community.

Their objective was to save energy on heating and cooling costs, as well as to clean the air and installed Airius units throughout their whole facility, 20 of which were PureAir PHI Series units.

In the 5 years that followed installation Tandara Lodge have not had a single notifiable outbreak, which is a significant achievement in the Aged Care Industry. They also benefited from:

- 0 notifiable outbreaks in 5 years
- £1,000's saved on containment and clean-up
- Reduced sickness from seasonal disease
- Reduced staff sickness and absences
- Reduced energy costs due to thermal destratification



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## Tarara Winery



Tarara Winery contacted Airius to provide a solution that would help reduce mould and VOC's, as well as provide airflow circulation and temperature equalisation throughout the winemaking facilities on their 475 acre vineyard. Their main goal was air purification in their winemaking cave.

The client was extremely pleased with the results following installation and found:

- Complete & thorough airflow circulation
- Immediate improvement in indoor air quality
- Mould reduced by 92% within 3 weeks
- All perceived VOC's eliminated in 2 weeks
- Notable improvement in product quality and reduction in spoilage due to airborne organisms and VOC's
- Significant reduction in HVAC costs.



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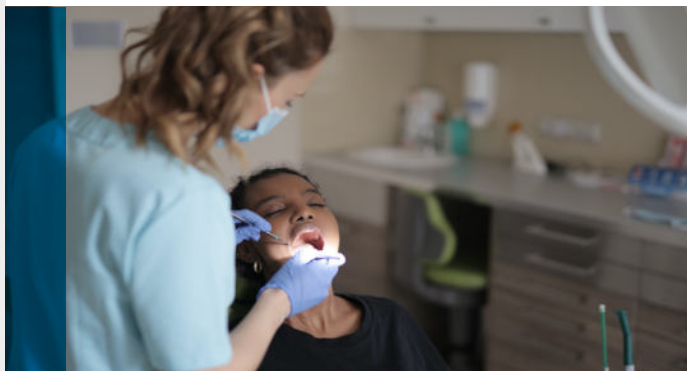
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In response to the COVID19 Pandemic Harewood Dental Surgery needed to find a solution to help provide protection and reassurance for their staff and patients against the threat of infection from Coronavirus and other harmful pathogens. They had researched other air purification systems, but they did not clean surfaces or offer continuous instant protection against new contaminants brought in to the Surgery.



After contacting Airius and arranging installation of the PureAir PHI System, Harewood Dental Surgery have been very happy with the results:

- Carefully selected solution to provide protection in COVID19 high risk environment
- Provides confidence and reassurance to both staff and patients
- Eliminates unpleasant chemical odours and provides fresh, clean aroma
- Treats all the air and surfaces at the same time, without needing to go through a filter



## Be At One - Cocktail Bars



Be At One are a popular nationwide chain of Cocktail Bars. As part of their COVID19 risk strategy their Birmingham branch sought an air purification system that would provide continuous protection, not only against existing containments, but also against any new pathogens brought in by customers.

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After researching the Airius system and arranging a free survey they installed PureAir PHI units throughout their bar area and were extremely pleased with the results:

- Eliminates unpleasant odours
- Also improves airflow circulation and comfort

- Provides 24/7 protection for staff and customers
- Purifies both the air and surfaces
- Instantly attacks any new containments



## Elliotts - Showroom


Elliotts are a well-established machinery provider, serving businesses and consumers from their Cambridge headquarters. Although they had already introduced a host of measures in response to the COVID19 Pandemic, Elliotts sought to source additional air purification to provide an extra level of protection for customers and staff.

Having reviewed numerous systems they discovered the Airius PureAir PHI and following installation have been very happy with the results:

- Continuous ongoing pathogen protection
- Immediately protects against new containments
- Hugely improved consumer confidence
- No dangerous contaminated filters to change
- Awarded Chamber of Commerce Business Hero Award for COVID19 strategy



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