

What is the Airius PureAir?

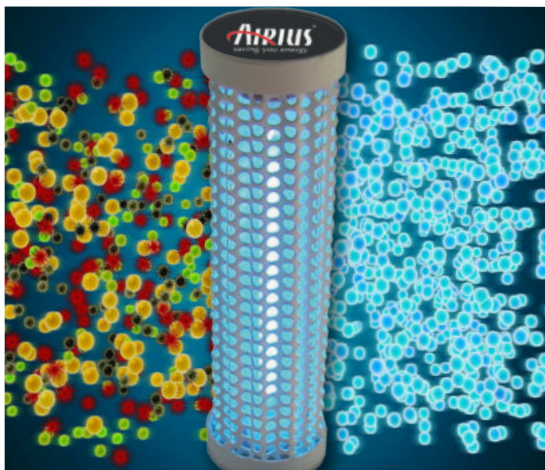
The Airius PureAir Series is an air purification and airflow circulation fan system, incorporating the latest in PHI (Photohydroionization) Cell technology to efficiently and effectively neutralise up to 99% of all harmful germs, bacteria, viruses, mould and other contaminants in any internal environment.

The PHI Cell emits 'Ionised Hydroperoxides', a naturally occurring cleaning agent, which 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 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 Series 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.

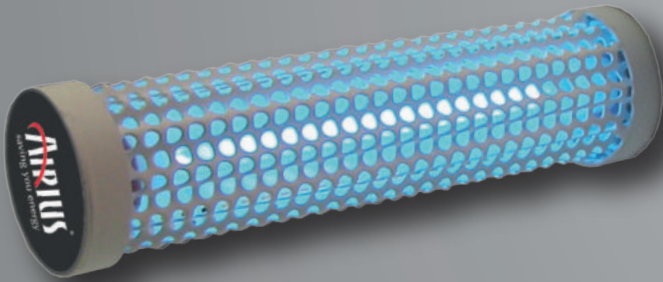
PureAir Series

The Airius 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 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.

4



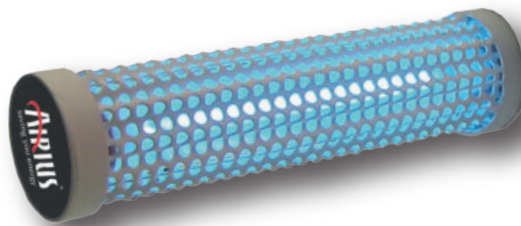
Benefits

- Continuous air purification
- Kills over 99% surface bacteria & viruses
- Kills over 97% airborne bacteria & viruses
- Reduces odours by over 99%
- Reduces mould by over 98%
- Reduces gases, vapours & VOCs by over 80%
- Clean & healthy care environment
- 78% of microbes in human sneeze killed at 3 feet
- Increases staff productivity
- Reduces staff absenteeism
- Reduces Sick Building Syndrome
- Advanced oxidation technology
- Simple to install with no ducting required
- Small, versatile, unobtrusive units
- Established and proven technology
- Cost effective Indoor Air Quality solution
- No maintenance required
- 5 year Fan & 3 year PHI cell warranty

PureAir PHI Cell

The Airius 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 Series fan is a unique Photohydroionization (PHI) Cell.



The PureAir 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 - 100-300 nm HE/UTM 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.

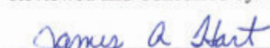
Tested & Certified

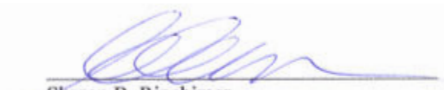


The Laboratories, Universities and Organisations above are but a few of the certifying bodies to have tested the Airius PureAir PHI Technology.

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.

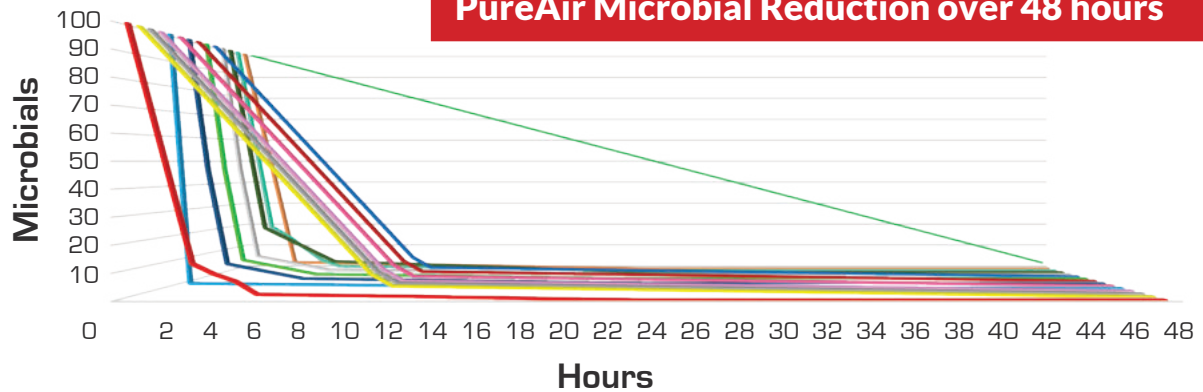
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Airius PureAir Independent Test Results

PureAir Microbial Reduction over 48 hours



	Reduction	Time Period	Tested By
MRSA	99%	24 Hours	Kansas State University
NORWALK VIRUS	99%	24 Hours	Midwest Research Institute
BIRD & SWINE FLU	99%	24 Hours	Kansas State University
PSEUDOMONAS SP.	99%	24 Hours	Kansas State University
BACILLUS SPP.	99%	24 Hours	Kansas State University
CANDIDA ALBICANS	99%	24 Hours	Kansas State University
E. COLI	99%	48 Hours	Kansas State University
STREPTOCOCCUS PNEUMONIAE	99%	48 Hours	Kansas State University
STAPHYLOCOCCUS AUREUS	99%	48 Hours	Kansas State University
BACILLUS GLOBIGII	99%	48 Hours	Kansas State University
STACHYBOTRYS CHARTARUM	99%	48 Hours	Kansas State University
STREPTOCOCCUS SP.	96%	24 Hours	Kansas State University
SARS	73%	24 Hours	NEI-Chinese Government
LISTERIA	99%	48 Hours	Kansas State University, Steris Labs, KAG, Eco Labs
OZONE / EMF	-	-	FSIS, UL, ETL, TUV, CSA, ISSES, Disney
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	
CHEMICAL COMPOUNDS	-	-	
Methyl Mercaptan	100%	24 Hours	NELAP Accredited Independent Lab
Butyl Acetate	100%	24 Hours	
Methyl Metharcylane	100%	24 Hours	
Hydrogen Sulfide	80%	24 Hours	
Carbon Disulfide	30%	24 Hours	
VOCs	-	-	
D-limonene	98%	24 Hours	NELAP Accredited Independent Lab
Toluene	29%	24 Hours	
Methyl Ethyl Ketone	13%	24 Hours	
MOULD	-	-	
Bacteria	99%	48 Hours	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
Mould	97-98%	48 Hours	
Yeast	90+%	48 Hours	

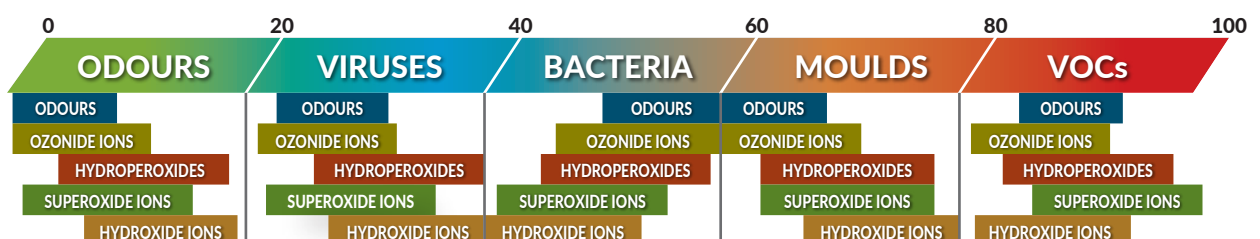
7

CORONAVIRUS

We are evaluating testing on the Wuhan Coronavirus (COVID-19) with partners in both the U.S. and China. However, we have validated test results showing 99+% reductions on similar 'enveloped' or protein jacketed virus types.

This has been reviewed by *Associate Director of the National Agriculture Biosecurity Center and past Distinguished Professor of Meat Science - Dr. James Marsden of Kansas State University*, who supports that the evidence suggests "there is every reason to believe Airius PureAir PHI Technology would also be effective in reduction of COVID-19". It is important to note that no medical claims are made.

PureAir PHI Organic Kill Spectrum



Technical Data

Every Airius PureAir Series fan features a top of the range, highly efficient, EBM-Papst motor, independently tested by BSRIA, along with a top of the range RGF Photohydroionization Cell.

Unit Dimensions & Weights

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

Data above is calculated at 50Hz.

¹Motor data provided by motor manufacturer and is subject to change at any time.

²Noise 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.