

Independent Testing College Campus Air Treatment System



NPBI™ Purification: Saves \$180,000 & Reduces Air Intake by 9,300 CFM

Valencia College - Pathogen, Particle & Odour Control System

Valencia College has become an innovative leader in higher education, specialising in the Science and Arts and recipients of the prestigious Aspen Prize for Community College Excellence in 2011-2012.

Challenge

The Valencia College Lake Nona Campus was constructed in 2012 and was in need of modernisation. The project included state-of-the-art academic spaces, teaching labs, student services, bookstore, library, cafe, a Dean's suite and administrative offices.

The 88,821 ft² campus was a \$21.7 million project.

Solution

By installing NPBI™ technologies on campus the College hoped to avoid large capital expenditure on specifying larger equipment, whilst at the same time use a system that would maintain and clean HVAC cooling coils.

They also wanted a solution that was effective in eliminating pathogens, bacteria and mould in large facilities.

Results

Following installation of the GPS NPBI™ system the Valencia College were able to reduce outside air intake for ventilation by 9,300 CFM and saved \$180,000 in chiller costs, in addition to avoiding expensive renovation costs. They were also awarded 3 Green Globe certifications by the Green Building Initiative and post install testing revealed that there was no Fungi or Bacteria detected on the cooling coil fins.

- \$180,000 chiller cost savings
- NPBI™ retrofit technology
- Provides pathogen neutralisation
- Reduced outside air intake by 9,300 CFM
- Cleans & maintains HVAC coils
- Airborne & surface protection



PURE AIR⁺

What is the PureAir⁺ NPBI Series

The Airius PureAir⁺ Series is an air and surface purification and airflow circulation fan system, designed to deliver the highest level of pathogen, particle and odour elimination in any type of indoor commercial or community environment.

Featuring the latest in Needlepoint BiPolar Ionisation (NPBI™) technology from one of the world's leading manufacturers of indoor air quality systems - Global Plasma Solutions, the PureAir⁺ Series uses the power of ions to provide continuous round-the-clock sterilisation, neutralising up to 99%+ of all known pathogens, VOCs and odours, in both the air and on surfaces.

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 cutting carbon emissions.

How does it work?

The PureAir⁺ Series integrated GPS NPBI™ system emits a high concentration of positive (+) and negative (-) ions, which are circulated into spaces via the fan.

The polarity of the ions attracts them to all particles within the space, causing the particles to cluster together and make them filterable. They also bond with and neutralise pathogens, VOCs and odours by removing them of a hydrogen atom, breaking them down into their basic, harmless and odourless compounds, such as O₂, CO₂, N₂ and H₂O.



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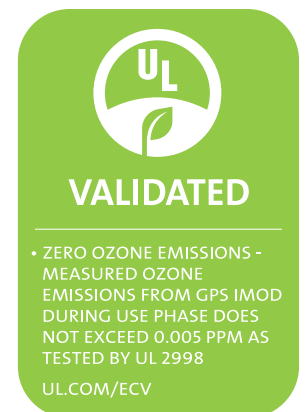


Tested and Approved by Leading Agencies



Multiple studies have been conducted on the NPBI™ technology integrated into the Airius PureAir+ Series range, supporting the efficacy and effectiveness of NPBI™ systems for pathogen neutralisation, particle reduction and odour elimination.

- Installed through out all industries, including Healthcare, Aviation, Manufacturing, Offices, Education, Arenas, Retail outlets and many more.
- Approved by the RTCA to meet the DO-160 standard for Airborne Equipment
- One of the first purification systems to be tested on a live strain of SARS-CoV-2
- Testing carried out by:
 - Innovative Bioanalysis
 - Harvard School of Public Health
 - Retroscreen Virology
 - Kitasato Institute Medical Centre
 - EMSL Analytical Inc
 - Green Clean Air
 - Calgary Int. Airport, NAV Canada
 - Aachen University of Applied Sciences
 - Medical School of Luebeck
 - Shanghai Municipal Center for Disease Control
 - School of Advanced Sciences, Hiroshima University



Contact Airius

Airius fans are commonly used to purify air and balance temperatures for both heating and cooling applications in a wide variety of environments – from offices to aircraft hangars.

Adding an Airius PureAir+ Series air purification, infection and odour control ventilation fan is a simple way to continually clean your air and surfaces, creating a safer and healthier environment for you, your staff and your building.

Contact Airius to learn more >>