

Case Study

Air Purification & HVAC Optimisation



Airius PureAir: Pathogen & VOC Protection In Retail



Parquesur Shopping Centre

Parquesur Shopping Centre is the largest facility of its type in Madrid, totalling 159,000m² of retail space including brand outlets for the names of Apple, Santander, Disney, JD Sports, Vodafone and Swarovski.

Challenge

As a leader in the retail industry the Parquesur Shopping Centre already had strict safety and hygiene measures in place to protect their occupants and provide the highest quality retail experience.

But in response to the COVID19 pandemic the Shopping Centre wanted to take another step forward in ensuring the health and well-being of its staff and customers and turned to the Airius PureAir System for the solution.

Solution

For this application the PureAir PHI Series was specified, with units being installed near entrances and exits, as well as within the high traffic spaces. This offered protection at areas where new contaminants would be brought into the building, as well as providing air and surface decontamination in spaces where there are usually high numbers of people. Following installation the Centre was awarded Global Safe Site certification granted by Bureau Veritas for compliance with good prevention practices.

Results

The effect of Airius PureAir Series may be invisible, but the results are unmissable:

- Continuous 24/7 protection
- 99.9% effective at neutralising COVID19
- Significantly improved ventilation
- Old problem odours removed
- Airborne & surface purification
- Optimised retail and shopping experience
- Removed mould, damp & condensation problems
- Significant reduction in allergy symptoms

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“Parquesur's main commitment has always been to take care of our staff and clients. Today, thanks to our solid commitment to innovation, we have cutting-edge technological solutions, such as the new PureAir system to guarantee the highest levels of safety and hygiene in our centre.

Thanks to everyone's efforts, today we can tell our customers that we are the safest center in which to make their purchases.”

Enrique Bayón
Shopping Centre Manager



PureAir Technology Explained

How does the PureAir Series PHI Cell kill bacteria and viruses in the air and on surfaces?

The PureAir Photohydrolysis (PHI) Cell is a kind of UV light that emits advanced oxidation plasma. Included as part of a fan system, the PHI cell distributes hydro-peroxides, super-oxide ions and hydroxide ions throughout the space, neutralising 99% of micro-organisms in the air and on surfaces.

PHI cells produce a group of oxidants known as hydro-peroxides. Far from new to our world, hydro-peroxides have been around for 3.5 billion years – and today they are commonly used in food processing environments, where they offer an anti-microbial treatment without leaving chemical residues.

Benefits of PureAir Technology

Choosing an Airius PureAir Series system is a simple, cost effective way to reduce bacteria, viruses and odours in your environment.

- Continuous air purification cleaning air and surfaces
- Easy to install
- Kills over 99% of bacteria and viruses
- Reduces odours by over 99%
- Reduces gases, vapours and VOCs by over 80%
- Kills 99% of microbes in a human sneeze within 3 feet



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Tested and Approved by Leading Agencies



Multiple studies have been conducted on Airius PureAir Series PHI Cell technology and they are widely approved for use to control airborne and surface-based bacteria, viruses, smoke and odours.

- Approved by the USDA and FSIS for use in food processing plants
- US military approved for use in field hospitals
- Chinese government approved for use in controlling the SARS virus
- Testing carried out by:
 - Kansas State University
 - Midwest Research Institute
 - NELAP Accredited Independent Labs - The NELAC Institute
 - California Microbiology Center
 - IBR Laboratories
 - University of Florida
 - United States Air Force
 - R&D Labs
 - University of Cincinnati
 - Kane Regional Hospital
 - FEMA
 - NEI-Chinese Government

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 homes to warehouses.

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

Contact Airius to learn more >>