



Airius PureAir: Protecting Staff In Manufacturing



Smurfit Kappa - Paper Packaging Manufacturer

Smurfit Kappa is one of the world's leading providers of paper-based packaging, with operations in 23 European countries and 12 countries in the Americas.

Challenge

The protection of staff during the COVID19 pandemic has been a key area of research and investment for Smurfit Kappa since the emergence of Coronavirus in 2020. In response to this management teams at manufacturing facilities in both Brno and Olomouc in the Czech Republic sought to install air purification systems to minimise the chances of transmission and keep staff safe.

Solution

Following a survey of both facilities, PureAir units were specified for installation in their changing rooms and canteen areas. This provided protection at the point of entry to the main manufacturing space, neutralising containments whilst staff changed in to their work uniforms, as well as providing protection in the canteen where people would congregate in the highest numbers.

Benefits

You may not be able to see the many benefits of the PureAir system, but the results speak for themselves:

- 99.9% effective at neutralising COVID19
- Sterilises both the air and surfaces
- Reduces particle contamination of processes
- Reduces outdoor air intake by up to 75%
- Round-the-clock 24/7 protection
- Protects surfaces with an invisible sterilising shield
- Neutralises unpleasant odours and VOCs
- Recirculating rising heat also reduces HVAC costs

Case Study

Air Purification, Infection & Odour Control



Changing Rooms



Results

Following installation of the PureAir system staff at both facilities are now able to work in confidence, reassured that they are provided with an extra level of protection from COVID19, as well as 99% of all communicable illnesses. This not only ensures the safety of staff but also reduces sickness and absenteeism. The improved airflow and recirculation of high level heat also reduces energy costs.

Canteen





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 PHI Technology

Choosing an Airius PureAir PHI Series destratification fan with its integrated PHI Cell is a simple way to reduce bacteria, viruses and odours in your environment.

- Continuous purification of air and surfaces
- Easy to install in any environment
- Kills up to 99%+ of bacteria, germs and viruses
- Reduces gases, vapours and VOCs by up to 99%
- Reduces odours by up to 72%



Case Study

Air Purification & Ventilation

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 purification, infection and odour control ventilation fan is a simple way to continually clean the air, creating a safer and healthier environment for your facility.

Contact Airius to learn more >>