

# Case Study

## Air Purification & Ventilation



## BiPolar Air & Surface Purification for Hotels



### The Twelve Hotel (Co. Galway, Ireland)

Names Ireland's 'Hotel of the Year', the Twelve Hotel is a luxury boutique hotel with a reputation for being at the forefront of quality and innovation in the Leisure & Accommodation industry.

### Challenge

In response to the COVID19 pandemic, the Twelve Hotel wanted to extend its high standards of service to include indoor air purification, providing guests who may have breathing challenges, chemical or pet sensitivities, or simply a concern for their health, with fresh, clean, healthy air. As a pet friendly hotel, the management also wanted to control and reduce the level of pet odours.

### Solution

After researching the ever growing market of air purification systems available, the Hotel's Managing Director Fergus O'Halloran, chose to install the same BiPolar Ionisation Technology from Plasma Air that is integrated within the Airius PureAir Pearl Series. This not only treated the air supplied to guests room, but throughout the entirety of the building, including the reception, restaurant and Spa.

### Benefits

The Twelve Hotel were extremely impressed with the results following installation:

- Safe, clean air for guests 24 hours a day
- 99.9% effective at neutralising COVID19
- Pet odours eliminated
- Prevents mould issues in Pool area
- Neutralises up to 99%+ of all germs & viruses
- Reinforces a brand of high standards
- Rapidly eliminates VOCs
- Improves conditions for staff during cleaning activities

# Case Study

## Air Purification, Infection & Odour Control



## Results

Guests can now enjoy safe, clean air when visiting the Twelve Hotel, which not only helps offer protection during the COVID19 pandemic, but also provides guests with a higher quality of service to improve their stay. 60% of frequent travellers report suffering poor sleep, runny nose, sneezing, or headache as a result of poor hotel air quality, as reported in an International Hotel and Restaurant Association survey. However, guests to the Twelve Hotel are now able to relax and breathe easy with the Hotel's new BiPolar Ionisation System. In addition to improving standards for guests, staff have also noticed a significant improvement in air quality and reduction in airborne particles when cleaning rooms, during dusting, vacuuming and cleaning drapes etc.

## Testimonial

***“Providing clean air is one way we demonstrate our commitment to the health and well-being of our guests and staff. It quickly eliminates any VOCs during maintenance work and allows us to prevent mould issues in the indoor pool area. We also don't have the slightest worry about pet odours.*”**

***We know particles invisible to the naked eye can cause discomfort to some of our guests, so, like everything we do, we made it our mission to solve this problem.”***

Fergus O'Halloran - *Managing Director*





# PURE AIR

## PureAir Pearl Technology Explained

### How does the PureAir Series BiPolar Ionisation system kill bacteria and viruses in the air and on surfaces?

The PureAir Pearl Series combines Plasma Air's advanced BiPolar Ionisation technology into the Airius World leading Destratification Fan. The BiPolar Ionisation system emits a high concentration of positive (+) and negative (-) ion cleaning agents, which are circulated throughout spaces more efficiently than any other purification fan due to Airius' patented and world leading columnar laminar flow and venturi nozzle system.

The ions polarity 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 eliminating hydrogen atoms, breaking them down into their basic, harmless and odourless compounds, such as O<sub>2</sub>, CO<sub>2</sub>, N<sub>2</sub> and H<sub>2</sub>O.

## Benefits of PureAir Pearl Technology

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

- Continuous cleanses air and surfaces
- Easy to install in any environment
- Kills more than 99.9% of bacteria and viruses
- Reduces odours by over 99.9%
- Reduces gases, vapours and VOCs by over 99.9%
- No replacement purification parts or filters
- No Ozone certified - UL 2998



# Case Study

## Air Purification & Ventilation

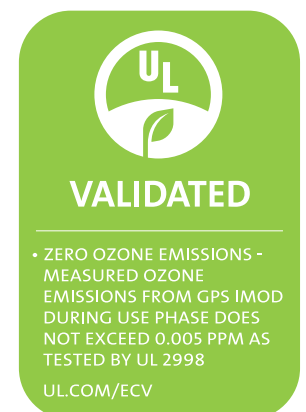
### Tested and Approved by Leading Agencies



Multiple studies have been conducted on Plasma Air BiPolar Ionisation technology and it is widely approved for use to control airborne and surface-based bacteria, viruses, smoke and odours.

- Plasma Air BiPolar technology is already installed in a wide range of applications around the globe.
- Approved by the Spanish Ministry of Defense following in-house analysis on MS2 Bacteriophage, an industry standard surrogate for SARS-CoV-2 (COVID-19), which showed a 99% reduction after exposure to ionisation.
- Testing carried out by:

Microbac Laboratories, Inc  
Istanbul Faculty of Medicine  
Novaerus Research and Development Labs  
Airmid Health Group Ltd  
Aerosol Research & Engineering Laboratories  
EMSL Analytical Inc  
Camfil Laboratories  
Aerosol Research & Engineering Laboratories  
LAWN Environmental Protection Ltd  
Intertek



## Contact Airius

Airius PureAir fans are commonly used to purify spaces and balance temperatures for both heating and cooling applications in a wide variety of environments – from homes to warehouses.

Adding an Airius PureAir Home 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 you, your family and your home.

**Contact Airius to learn more >>**