

Case Study

Airflow Cooling & Destratification



Improved Diner Comfort with Reduced HVAC Costs



Celtic Manor Resort - Cen Restaurant

The Celtic Manor is a 5 Star hotel and golfing resort based in Newport, Wales, hosting the 2010 Ryder Cup and winning the UK's Best Hotel award 9 times in 10 years.

Challenge

Celtic Manor contacted Airius to provide a solution to improve comfort for occupants in their glazed Cen Restaurant and Bar. In summer it would act like a greenhouse and result in uncomfortably high temperatures, whilst in winter the heat would escape before it reached comfortable levels.

They also needed to reduce the exorbitant heating and cooling costs from a continuously struggling HVAC system.

Solution

Following a free survey and detailed floor plan review a system comprising of Airius Standard and Designer Series fan units were specified throughout the Cen Restaurant and Bar area. Units were positioned in line with the clients floor plan and a selection of units were custom painted to blend in with their surroundings.

Each area was also fitted with its own variable speed controller to manage fan speeds from season to season.

Benefits

Celtic Manor were extremely pleased with the comfort and cost benefits following installation:

- Summer cooling costs reduced by 27%
- Significantly improved occupant comfort
- Spills & wet footprints dried rapidly
- Winter heating costs reduced by 35%
- Condensation eliminated & mould reduced
- Improved circulation of pleasant culinary aromas

Case Study

Airflow Cooling & Destratification



Results

Celtic Manor were very satisfied with the results of their installation and found conditions in both the Restaurant and Bar areas vastly improved within only a few hours of the system being turned on. They have also since noticed a significant annual reduction in their energy costs.

Contact Airius

Formed in 2004, we have revolutionised the industry with our market leading thermal destratification systems, which have helped improve airflow circulation and balance the internal temperatures in public and commercial buildings all around the globe. As testament to the efficiency of the Airius system, we have built up an extensive and prestigious global client base including well-known brands like Boots, British Airways, Mercedes, Morrisons and many more.

We can help you cut your costs with our thermal destratification systems, which recirculates accumulated warm air collected at the top of a building back down to the ground through an invisible column of air. This is then redistributed at floor level, recycling the heat which you have already supplied to the space, reducing the output and workload on your heating system. It also works with cooling. By continuously circulating the heavier and denser cooled air evenly throughout the space in its entirety, it eliminates hot and cold spots and ensures conditions are balanced for all.

When you choose Airius, you will be investing in the most effective thermal destratification system available on the market with an average ROI of between 12 – 30 months. Airius are also the only destratification fan supplier in the world to offer an unrivalled 120 day money back guarantee (terms and conditions apply).

Contact Airius to learn more >>