

**Improving Comfort while  
Reducing Costs & Carbon**

**BRITISH AIRWAYS**



### Benefits

**Significant heating savings**

**Immediate comfort improvement**

**Reduced load on HVAC system**

**Reduced hangar heat-up time**

**Conditions achieved without upgrades**



### Overview

#### Client

British Airways Engineering is the aircraft maintenance subsidiary of British Airways, which provides support services to British Airways and many other airlines. It is responsible for the entire BA Boeing 747-400 fleet maintenance, cabin interior conversions and general ramp maintenance work for both their own fleet and other airlines.

#### Challenge

With the typical high ceiling in British Airways' East Penn maintenance hangar at Heathrow Airport, the expensively heated air was immediately rising to the ceiling and gathering where it was not required. This in turn increased the temperature difference from inside to outside, resulting in accelerated heat loss, increasing heating costs and an uncomfortably cold environment for employees.

#### Solution

To create as much air movement as possible and working with the leading contractor Gratte Brothers Group Ltd, BA invested in the uniquely patented Airius technology to balance temperatures, improve comfort and reduce costs within the hangar. The 27 destratification fans installed immediately improved the environment even before the heating/cooling system had been upgraded, simply by circulating the heated air supplied from the existing HVAC system more efficiently, reducing load, run time, costs and energy.



### Testimonial

*"Following severe temperature problems being experienced in a British Airways maintenance hangar at Heathrow, we (Gratte Brothers) were awarded the contract to upgrade the heating and ventilation system along with other M & E works.*

*The temperatures problems were severe with staff threatening to walk out. After exhaustive research, it was decided to install 12 x Airius Model 100 units and 15 x Airius Model 60 units to improve internal air circulation and reduce the extremely high heating and cooling costs.*

*The Airius fans made an immediate and significant improvement even before the heating/cooling system upgrades had been completed, so much so that all complaints from staff ceased immediately and they were now comfortable enough to work in their t-shirts.*

*The team at Airius were really helpful and a pleasure to work with. We will be tendering for further British Airways projects of this type and fully expect to purchase more Airius units."*

**Joe Forge - Contract Manager**  
**Gratte Brothers Group Ltd**