

**Improving Comfort While
Slashing Energy Costs & CO₂**



Benefits

ROI under 12 months

Improved heating system efficiency

Marked reduction in CO₂ emissions

Significantly improved comfort

Heat loss reduced



Overview

Client

The Farnborough Exhibition and Conference Centre is a 20,000m² exhibition hall based at Farnborough Airport in Hampshire. Owned and operated by the ADS Group, a premier trade organisation for over 1,000 Aerospace, Defense and Space Sector businesses, the Farnborough Exhibition Centre boasts international acclaim as the home of the world famous Farnborough Airshow.

Challenge

As with many exhibition hall spaces, maintaining comfortable temperatures, especially during winter months, proved extremely difficult as the heat supplied to the space was rising to the ceiling and escaping through the roof. This resulted in exorbitant heating costs, despite the fact that the hall still couldn't achieve desired, comfortable temperatures at floor level. It also resulted in high CO₂ emissions, which was working against the clients CSR and climate change reduction strategy.

Solution

To reduce the negative impacts of rising heat being lost through the roof, the client installed 94 Standard Series destratification fans throughout the hall. This continuously recirculated all the warm air supplied by their HVAC system, down away from the ceiling back to the floor where it was needed. This balanced temperatures to within 2°C between the floor and ceiling and reduced heating costs so much that they benefitted from an ROI of under 12 months.