

Cutting cost and complexity at Heathrow Airport



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We are seeing 18 months' of filter life, which sees a significant saving not only on maintenance and replacement parts, but it also means we can keep the efficiency of the building and the air handling units working.

Engineering & Operations Manager – London Heathrow



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Customer

London Heathrow Airport - United Kingdom



New services

A+ rated energy-efficient filter supply and fit, stock handling, AHU cleaning and routine inspection, system monitoring, fire damper testing, and more.



Outcome

A **single partner for all air handling** requirements across all terminals. **Complexity, stock handling, purchasing requirements all cut dramatically.**

THE CUSTOMER

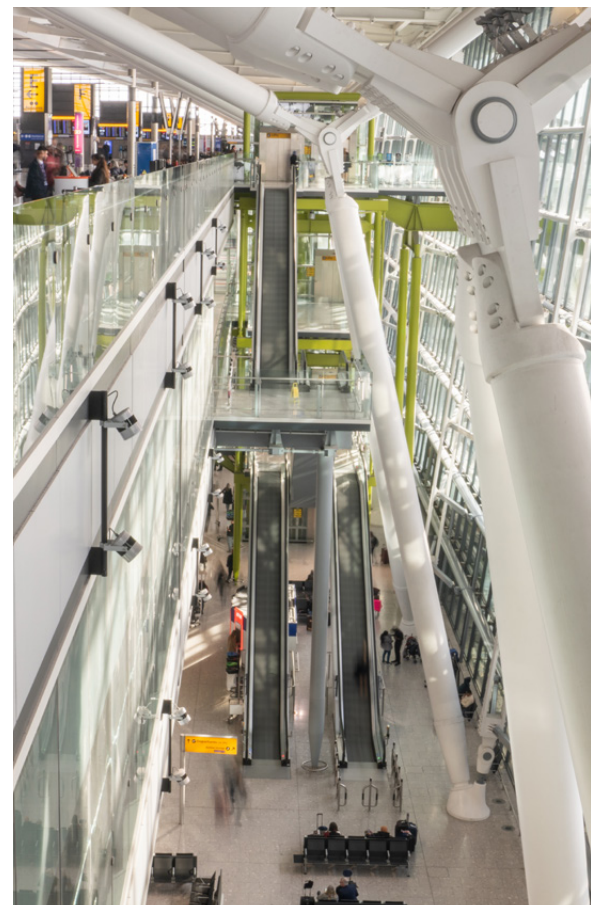
As one of the world's busiest airports, London Heathrow operates out of four terminals, employing over 75,000 people. The airport needed a comprehensive air handling solution to protect their ~20 million annual passengers from particulate matter, viruses, bacteria and other airborne pollutants.

THE CHALLENGE

Following the dramatic fall in air travel during the COVID-19 pandemic, Heathrow faced significant pressure to minimize operating costs without compromising on the quality of the passenger experience, now that traveler numbers had returned to normal.

The airport had already carried out several separate assessments of its air delivery system, which meant it was already optimized for both energy efficiency and air quality.

So, any cost and efficiency savings would have to be found another way.





THE SOLUTION

Working with the two on-site facilities management companies, MANN+HUMMEL proposed a full selection of services for the customer's air handling system.

This covered everything from air filter supply and fit, on-site stock handling, AHU cleaning and periodic inspection, fire damper testing – even monitoring and conditioning of the kitchen extract systems.

At the start of the project, MANN+HUMMEL also completely reconditioned several of the customer's AHUs with new frames, filters and other components.



Reaching an even lower energy demand

Heathrow's AHU was already optimized for low energy demand. But our A+-rated Airpocket Eco filter was able to lower this energy consumption even further by a few kWh. And it did so while maintaining the necessary air quality to ensure passenger safety and comfort – a win-win for the airport and the environment.

Airpocket Eco also comes with the benefit of proven long life expectancy.

This meant filter change intervals were maximized when carried out according to the customer's requirements – part of a full system monitoring service that we also provided.



THE RESULT

After reconditioning all the AHUs and installing new filters, Heathrow had a completely refreshed air delivery system. They also had a completely refreshed process for managing clean air across their terminals.

Switching to MANN+HUMMEL dramatically cut complexity from their filter procurement and management. Now, Heathrow deals with one partner for all their air requirements. This means:

- Less on-site stock handling
- Reduced purchasing requirements and POs
- Fewer supplier requisitions
- Less disruption to operations
- Fewer links in the supply chain
- A single team working on site and in secure areas

Managing a complex environment

Strict security protocols, high health and safety demands, long operating hours and large sites all make managing the air delivery system of an airport no easy task.

Fortunately, the MANN+HUMMEL team have vast experience of the intricacies of working in the unique environment of an airport.

Our on-site team for Heathrow each holds around 20-years worth of airport experience.



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Working with
MANN+HUMMEL has
been a bit of a game
changer for us. It makes
my life a lot easier!

**Engineering & Operations Manager –
London Heathrow**

**Learn more about our air filtration
solutions on our website**

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arrange a callback**

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Leadership in Filtration

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