



Service Brochure

EC Fan Upgrades

Specialist EC Fan Upgrade Solutions for Existing AHUs

Service Overview

Many AHUs continue to operate with ageing belt-driven fans, inefficient motors, and outdated control systems that consume excessive energy and increase maintenance requirements.

AHS Specialist Services delivers EC fan upgrade solutions designed to improve energy efficiency, enhance system reliability, and extend the operational life of existing AHUs. From individual fan replacements to complete fan wall conversions, we help clients modernise ventilation systems while minimising disruption to building operations.

Our solutions are tailored to the operational requirements of each installation and can provide significant reductions in energy consumption whilst improving controllability, maintainability, and system resilience.

Typical Fan Upgrade Works

- AHU fan condition and performance surveys
- EC plug fan upgrades
- Fan wall conversions
- Motor and inverter replacements
- Controls and BMS integration works
- Airflow verification and balancing
- Energy monitoring and validation
- AHU performance optimisation

Why Upgrade to EC Fans?

- Reduce fan energy consumption
- Improve airflow control and turndown capability
- Eliminate belts and reduce maintenance requirements
- Increase system reliability
- Improve resilience through fan wall technology
- Support decarbonisation objectives
- Extend AHU operational life

Contact us

Telephone:
01425 475384

Email:
sales@ahs-ss.uk.com

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Featured Project

Canary Wharf – EC Fan Wall Upgrade

Project Overview

AHS Specialist Services delivered an EC fan wall upgrade to a critical perimeter AHU serving a large commercial office building at Canary Wharf.

The existing AHU was fitted with ageing backward-curved fans and 37kW motors approaching the end of their operational life. The client required improved energy efficiency whilst maintaining operational resilience and the ability to continue operating at near full capacity in the event of a fan failure.

Due to the critical nature of the ventilation system, the complete upgrade was delivered during a restricted shutdown period, with works commencing on a Friday and the AHU returned to service by the following Monday.

Works Delivered

- Removal of existing fan assemblies
- Installation of new EC fan wall system
- Electrical and controls modifications
- Airflow verification and commissioning
- Weekend installation programme

Project Results

- Reduced fan energy consumption
- Improved system reliability
- Enhanced resilience through fan wall technology
- Reduced maintenance requirements
- Improved airflow controllability
- Upgrade completed within a restricted shutdown window

This project demonstrates how EC fan technology can significantly improve ventilation system performance while avoiding the cost and disruption of full AHU replacement.

Before Upgrade



Post Upgrade



Considering an EC Fan Upgrade?

Speak to our team to discuss how EC fan technology can reduce energy consumption, improve system reliability, and enhance the performance of your existing ventilation systems.

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