



Service Brochure

AHU Refurbishment & Decarbonisation

Existing AHU Refurbishment, Life Extension & Decarbonisation

Service Overview

Many existing AHUs continue to have structurally sound casings and frameworks despite suffering from ageing components, poor energy performance, increasing maintenance requirements, or non-compliance with current operational standards.

AHS Specialist Services provides comprehensive refurbishment and decarbonisation solutions that modernise existing AHUs while avoiding the cost, disruption, and access challenges often associated with complete replacement.

Our refurbishment programmes are tailored to each installation and can significantly improve reliability, energy efficiency, maintainability, and equipment lifespan whilst supporting wider net-zero and carbon reduction objectives.

Typical Refurbishment Scope

- AHU condition and dilapidation surveys
- EC fan and fan wall upgrades
- Heating, cooling and frost coil replacement
- Gas burner removal and low-temperature heating conversions
- Filtration upgrades
- Damper and actuator replacement
- Controls and BMS integration works
- Corrosion treatment and casework repairs
- Internal cleaning and remedial works

Why Refurbish Instead of Replace?

- Extend AHU service life
- Reduce capital expenditure
- Improve energy efficiency
- Support decarbonisation objectives
- Minimise disruption to building operations
- Improve reliability and maintainability
- Upgrade performance without replacing existing plant

Contact us

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Featured Project

Waitrose Chiswick – Decarbonisation

Project Overview

As part of Waitrose's decarbonisation programme, AHS Specialist Services refurbished the existing roof-mounted AHUs serving the Chiswick store to remove reliance on gas-fired heating and improve overall energy efficiency.

The project involved replacing existing gas burners with heat pump-compatible heating coils, upgrading ageing fan assemblies with high-efficiency IE5 EC plug fans, and completing a range of refurbishment works designed to extend the life expectancy of the existing equipment.

Works Delivered

- Gas burner removal
- Heat pump-compatible heating coil installation
- IE5 EC plug fan upgrades
- Damper servicing and replacement
- Internal cleaning
- Corrosion treatment
- New filtration installation

Project Results

- Reduced energy consumption through IE5 EC fan technology
- Eliminated gas-fired heating from the AHUs
- Extended equipment life expectancy
- Improved system controllability
- Supported Waitrose's net-zero strategy

This project demonstrates how targeted refurbishment and component upgrades can provide a practical alternative to full AHU replacement while delivering meaningful carbon and energy savings.



Before Upgrade



Post Upgrade



Considering AHU Refurbishment?

Speak to our team to discuss how refurbishment and decarbonisation can improve performance, reduce energy consumption, and extend the life of your existing ventilation systems.

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