

BUILDING VENTILATION SOLUTIONS

# Case Study AHU Refurbishment Gresham Street Office

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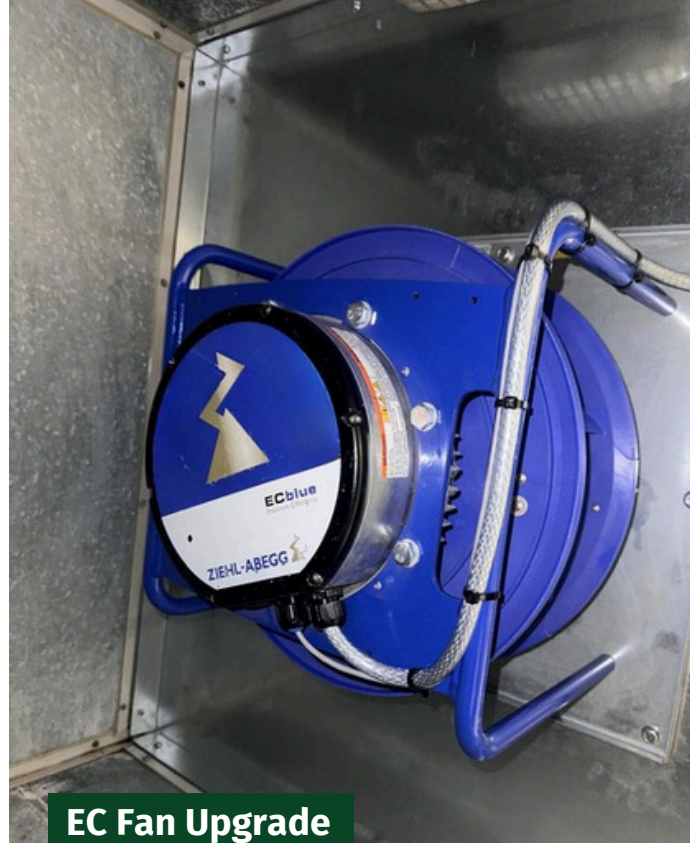
# Case Study - Gresham Street Office

The existing air handling unit (AHU) required refurbishment to enhance operational efficiency and adapt to new air volume requirements.

The project aimed to replace internal components of the AHU with newly selected ones designed for reduced air volume operation, ensuring improved performance and energy efficiency.



**New Coil & Corrosion Treatment**



**EC Fan Upgrade**

## **Frost Coil:**

The existing frost coil, which had become inefficient and outdated, was carefully removed to be replaced with a new, high-performance unit.

## **Filters:**

Both panel and bag-type filters were removed. These filters were found to be inefficient for the updated system requirements and were replaced with new filters designed for improved air quality and system efficiency.

## **Filter Frames:**

The frames holding the old filters were also removed as they no longer supported the new filter configurations. New ones were added.

## **Cooling Coil:**

The existing cooling coil, integral to temperature regulation, was replaced with a new coil designed to handle the revised air volume requirements more effectively.

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## Heating Coil:

The old heating coil was removed to be substituted with a more efficient model, ensuring optimal heating performance in line with the new specifications.

## Fan Assembly:

The belt-driven fan assembly, which was outdated and less efficient, was removed. This component was replaced with a new fan assembly designed for better performance at reduced air volumes.

## Inverter:

The old inverter, crucial for fan speed control, was also removed and replaced with a modern unit that supports the new system configuration.



New Panel Filter



New Rigid Filter

## The Project Outcome

The refurbishment resulted in a significantly upgraded AHU, tailored to operate efficiently at the reduced air volume specified. The new components not only improved system performance but also enhanced energy efficiency, leading to reduced operational costs and improved indoor air quality. The project demonstrated BV engineers' capability in managing complex AHU refurbishments, ensuring a seamless transition to upgraded technology while maintaining site safety and compliance with disposal regulations.

GET IN TOUCH WITH US

Our dedicated team is ready to assist you with your needs. Get in touch and we'll promptly respond to your inquiry. Don't hesitate to contact us for your personalised quote today!

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