

BUILDING VENTILATION SOLUTIONS

Case Study

AHU Refurbishment

Pembroke Offices



Case Study - Pembroke Offices

50 Pembroke Court, located approximately 35 miles southeast of London, provides flexible open-plan office space with excellent connectivity to London stations and the Channel Ports. Following a comprehensive front-of-house refurbishment, the building required an upgrade to its AHUs to enhance the efficiency and performance of its HVAC system. The project aimed to ensure optimal air quality and comfort for its tenants, aligning with the modernised aesthetic and functionality of the newly refurbished front-of-house areas. This case study outlines the completed AHU refurbishment, detailing the specific upgrades and improvements made to both the supply and extract units within the rooftop plantrooms.



Pembroke Offices - AHU Refurbishment



INLET DAMPER

Installed for better monitoring of filter status, helping maintain air cleanliness and reducing maintenance costs.

REVERSE CYCLE COIL REPLACEMENT

All AHU-mounted coils, including the frost coil, heating coil, run around coil, and cooling coil, were removed. A new reverse cycle coil was installed in place of the removed coils.

AHU CASING REPAIRS

Internal patching of the AHU casing was performed as required. Any rusted areas were treated with red oxide primer.

ELECTRIC HEATER BATTERY REPLACEMENT

A new free-issued Electric Heater Battery (EHB) was installed, consisting of two 42kW EHBs to provide a total of 84kW heating capacity. All necessary metalwork to fabricate the EHB duct heater section was supplied and installed. Wiring was handled by other contractors.

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New Reverse Cycle Coil



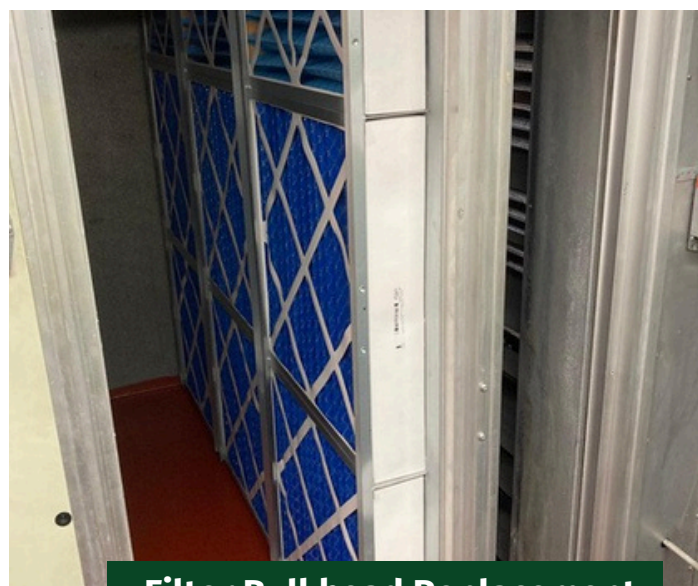
New EC Supply Fan

SUPPLY FAN & MOTOR REPLACEMENT

The existing belt-driven supply fan and motor were removed. A new fan bulkhead was supplied and fitted with three Ziehl EC fans. Fan power cables were wired to an isolator switch, and the controls were wired to a potentiometer.



New Electric Heater Battery



Filter Bulkhead Replacement

AHU CASING REPAIRS

Internal patching of the AHU casing was performed as required. Any rusted areas were treated with red oxide primer.

FILTER BULKHEAD

Introduced to prevent any risk of freezing in the system during colder months.

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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