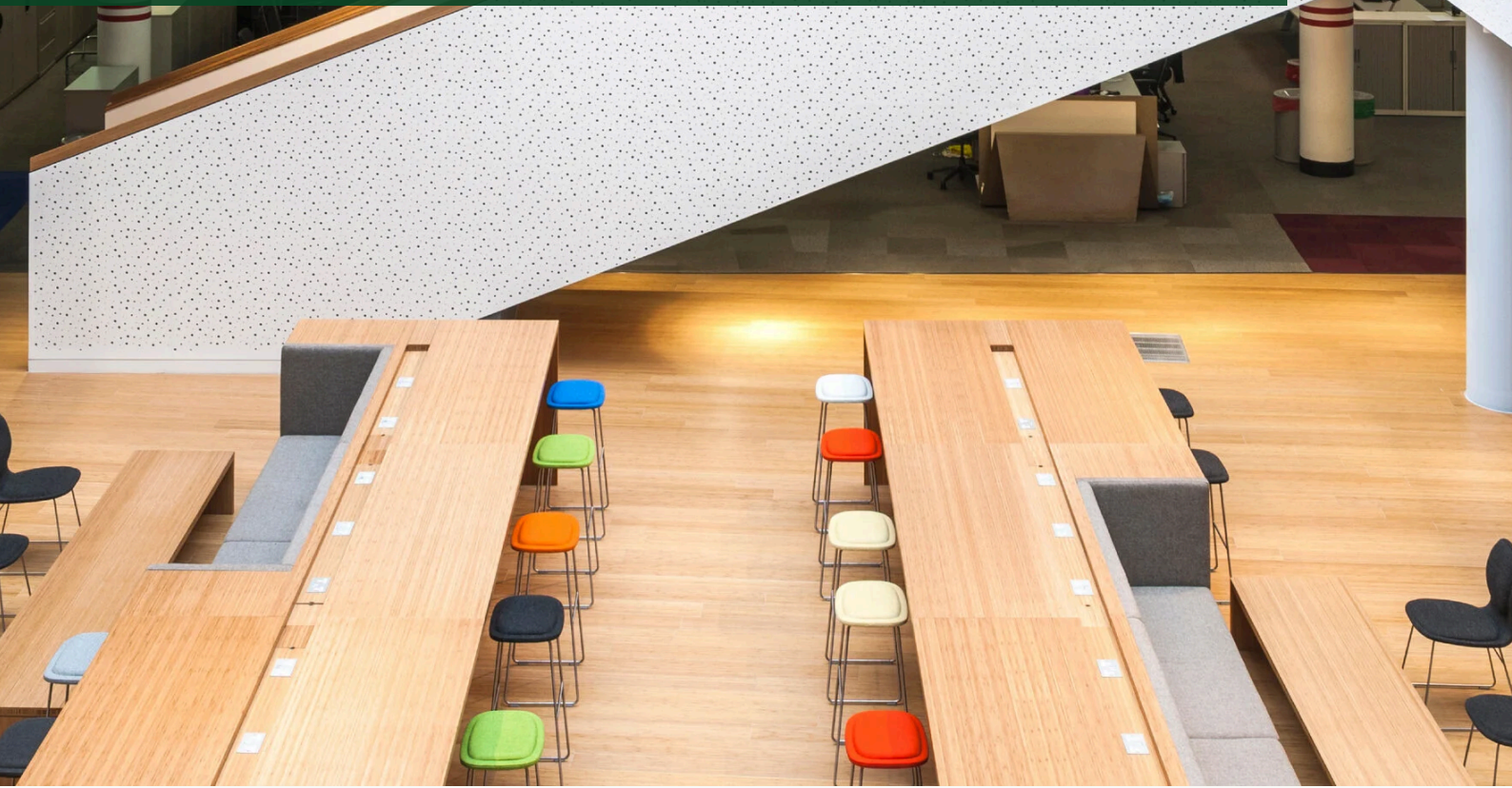


BUILDING VENTILATION SOLUTIONS

Case Study Extract Fan & Duct Installation Kingly Street Office



Case Study - Kingly Street Office

This case study outlines the proposal to supply and install new boiler room ventilation in a plant room, adhering to the standards set forth in BSS6644:2011. The aim of this installation is to enhance air circulation within the boiler room, ensuring optimal performance and safety for the facility's heating systems.



Office Block - Kingly Street, London

Boiler Inlet Supply Fan:

A fan rated at 0.752 m³/s was installed at a low level on the right-hand side of the plant room. Positioned under the existing fresh air louvers, the fan was connected to the window louver via new ductwork, which terminates with a bell mouth, ensuring consistent fresh air supply into the room.

Extract Fan:

The extract fan, rated at 0.361 m³/s, was installed at high level on the left-hand side of the plant room. The new ductwork connects this fan to the fresh air door louvers, effectively extracting air from the room and ensuring proper ventilation.

Electrical Integration and Controls

Both fans were wired into the existing mechanical distribution board (DB) to utilize the current electrical infrastructure. To enhance safety, automatic controls were added to the system, ensuring that the boiler(s) will automatically shut down if either fan fails to operate. These controls were integrated into the building's management system (BMS) to provide seamless monitoring and efficient operation.

Case Study - Kingly Street Office



The new ventilation system was successfully installed, providing enhanced air circulation, improved safety measures, and seamless integration with the facility's existing control systems. This installation helps maintain optimal conditions in the boiler room, contributing to the overall efficiency and safety of the heating system.



BMS Controls

The newly installed system consisted of:

Boiler Inlet Supply Fan: A fan rated at $0.752 \text{ m}^3/\text{s}$ was installed at a low level on the right-hand side of the plant room. Positioned under the existing fresh air louvers, the fan was connected to the window louver via new ductwork, which terminates with a bell mouth, ensuring consistent fresh air supply into the room. **Extract Fan:** The extract fan, rated at $0.361 \text{ m}^3/\text{s}$, was installed at high level on the left-hand side of the plant room. The new ductwork connects this fan to the fresh air door louvers, effectively extracting air from the room and ensuring proper ventilation.

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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