

B E S

CASE STUDY NO 10

Process Analytical Technology Laboratory

- New Prototype Fume Cupboards
- High Toxicity
- Double HEPA Filtration
- BS EN 14175 Standards
- Operational Facility

Whilst carrying out the design and construction of this new Process Analytical Technology Laboratory, we worked closely with the users to determine the exact operating requirements for their critical new facility.

The laboratory was located within an existing operational facility, which meant that detailed management of access and egress was required - so as not to disrupt work in surrounding areas.

The most important part of the project was the design, installation and testing of a 'prototype' fume cupboard. Although fume cupboard activities included some work on highly hazardous materials the fume cupboard incorporated a recirculation facility with double HEPA filtration to allow return of the filtered air directly to the laboratory.

Other parts of the project included providing tempered air into the new lab via a new ducted system connected to the existing plant. The tempered air was distributed into the area via new ceiling mounted supply diffusers and extracted via the fume cupboards.

On completion the HVAC services were balanced to provide the required pressure regimes and the fume cupboards were fully tested and validated in accordance with BS EN 14175.



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