

CLEAN AIR EQUIPMENT SERVICE AND FUMIGATION



Crowthorne specialise in providing independent service, validation and fumigation of clean air equipment within various industries.

We work closely with all clean air equipment manufacturers, undergoing training and establishing procurement routes in order to source replacement parts. This sets us apart from our competitors as we are able to get your laboratory equipment up and running as soon as possible.

Our EBDS fumigation system reduces laboratory downtime while ensuring your equipment meets the highest safety standards.

Crowthorne does not manufacture microbiological safety cabinets or clean air equipment and therefore provide a completely unbiased service report on the performance of your laboratory equipment.



Testing Microbiological Safety Cabinets

The performance of microbiological safety cabinets is validated in accordance with BS EN12469 and must include the following tests:

- ▶ HEPA filter integrity
- ▶ airflow velocity and visualisation
- ▶ operation of airflow indicators & alarms check
- ▶ KI-Discus (operator protection factor).

KI-Discus tests can also be carried out to determine product protection and cross contamination levels.

In order to comply with health and safety regulations, safety cabinets used for known or potential human pathogens must be rendered safe prior to service. Crowthorne offer a full fumigation service including re-circulating cabinets.

HEPA Filter Tests

Clean air equipment can only be relied upon for product protection once the airflows have been correctly set and a HEPA filter integrity test is performed to the specified standard. Air cleanliness within the device is shown by carrying out particle counts and determining the cleanliness level as defined in BS EN14644. HEPA filters load with particulate during operation therefore periodic servicing is essential to ensure performance continues to meet specification.

Equipment Calibration

Tests are only reliable when carried out using the correct instruments which have calibration traceable to National Standards. All of our test equipment meets the latest standards and is calibrated by an external qualified calibration house or equipment manufacturer.

Testing Fume cupboards

Where toxic materials are used and operators require protection, a fume cupboard (ducted or recirculating) should be used.

It is a COSHH regulation to carry out full commissioning and on-going maintenance testing of fume cupboards, to demonstrate safe performance. Tests include:

- ▶ airflows and alarm system check
- ▶ airflow visualisation
- ▶ containment.

Crowthorne offer containment testing using sulphur hexafluoride tracer gas which meets both UK and international standards and methods. We can carry out type test in factory conditions, as well as commissioning or on-site maintenance testing.

Re-circulating, carbon filtered fume cupboards rely on filter efficiency to provide operator protection – this should be confirmed by carrying out filter testing in accordance with BS7989.

Laminar Flow Cabinets

The majority of laminar flow clean benches (or cabinets) are designed to achieve a minimum of ISO Class 5. Crowthorne can carry out various performance tests and safety checks as part of a routine service contract, all of which can be tailored to suit your requirements.



Contact your
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