Safelab Systems Ltd

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Safelab Scope of Works – Testing of HEPA Filtered Equipment – Asbestos Application

The routine testing of HEPA filtered fume cupboard(s) for use with Asbestos. Please read the attached Technical Bulletin TB207:V2 in conjunction with this quotation. Please be aware that Safelab's engineer **will not** change the pre or main filters as part of routine testing. If filter changes have been quoted then this work will be performed by a third party specialist contractor.

Routine testing enables you to comply with the requirements of COSHH Regulation Nine which stipulates that a fume cupboard should be tested at least once every fourteen months by a competent person.

Routine testing consistent with (exceptions might apply):

- BS 7989:2001 Specification for recirculatory filtration fume cupboards
- COSHH REG 9 Control of substances hazardous to health
- HSG 258 Controlling airborne contaminates
  Note: Standards may reference BS EN 14175

The fume cupboard should be empty before testing commences. Safelab's routine testing includes:

A review by the engineer of (where available):

- System commissioning report
- User manual
- Logbook
- Previous statutory report / service card
- Confirm no changes to unit, system or process since last test

The engineer will check and advise on possible containment interference factors such as:

- AHU
- Doors and windows
- Busy thoroughfares
- Equipment in unit
- Operator / process

The engineer will perform a visible inspection and check operation of unit including the following (where applicable)**:**

- Hinges and sash stop mechanism
- Baffles and baffle fixings
- Sash and sash guides
- Glazing and panels: Seating, sealing and damage inspection
- Worktops: Seating and damage inspection
- Fan control
- Control panel operation / display
- Reset service counter
- Sash high alarm
- Low airflow alarm
- Pressure gauge
- Light

The engineer will perform qualitative and quantitative airflow assessments

- Airflow measurements see notes below *

The engineer will perform a filter seating & integrity challenge of the HEPA filter(s):

- HEPA filter challenge (if present) see notes below**

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A full written report, for each piece of equipment tested, will be produced by the engineer which records the results of the tests and checks performed. A copy will be e-mailed to the e-mail address provided by the point of contact or a copy of the report can be requested from Safelab by e-mailing: service@safelab.co.uk

The equipment's service record card will be updated following the thorough test and examination.

Testing protocol details:

*** Airflow testing**
Using a calibrated vane anemometer a number (depending on unit type and size) of airflow readings are measured. These measurements are recorded and averaged to provide a quantitative performance result. The required results vary depending on the type of unit and the application. Some cabinets require testing on down flow air rates as well as intake air.

**** Filter seating & integrity challenge** (HEPA filter)**:**
The purpose of HEPA filters is to remove at least 99.97% of airborne particles 0.3 micrometers (µm) in diameter. HEPA filters are used in various applications for the protection of end users and product. It is important to note that HEPA filters are designed to arrest very fine particles effectively, but they do not filter out gasses and odour molecules. For this the use of an activated carbon filter instead of or in addition to a HEPA filter is recommended. *(See BS EN 12469:2000 for DOP filter and seal integrity)*

A DOP (Dispersed Oil Particulate) test is conducted to detect leaks in HEPA (high efficiency particulate air) filters in their operational conditions. The test is designed to test the filter, seals and housing. In addition to testing the filter integrity it ensures that all air entering the controlled environment passes through the HEPA filtration system. In this test a generator is used to create an aerosol which is dispersed upstream of the filter. The downstream face and seals of the filter are scanned for leaks using a calibrated photometer. It is important to note that smoke detectors in the location will need to be isolated prior to the work commencing. *Please note: Safelab does not undertake particle counting.*

Please note that equipment such as Waysafe units can also be tested as above.

Terms and Conditions

The purchaser is deemed to accept Safelabs' standard terms and conditions which are readily accessible on our website (www.safelab.co.uk/standard_terms_conditions.htm)

Excluded from Quote (unless otherwise stated)

Replacement pre and main filters
Replacement sash stops
Cleaning or de-contamination
Any additional items or works not specified
PAT Testing & Particle Counts
Any remedial works identified at time of testing will be quoted for separately