

Safelab Systems Ltd

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Safelab Scope of Works – Routine Testing of School's Filtered Fume Cupboard

The routine testing of a carbon filtered fume cupboard being used in Education up to and including A Level Science. 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

• CLEAPSS G9 School Fume Cupboards

• COSHH REG 9 Control of substances hazardous to health

• HSG 258 Controlling airborne contaminates

Note: Standards may reference BS EN 14175

Ideally 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 the operation of unit including the following (where applicable):

- Pre-filter: Inspect and replace where required*
- 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
- * Pre-filter from customer's own stock or supplied by engineer (fee applies)

- Fan control
- Control panel operation / display
- Reset service counter
- Sash high alarm
- Low airflow alarm
- Pressure gauge
- Liaht

The engineer will check operation and condition of services (where fitted)

- Electric sockets
- Water and Gas remotes (taps) and outlets
- Waste, traps and pipe-work

The engineer will perform qualitative and quantitative airflow assessments

Airflow measurements (Face velocity tests) see notes below*

The single source for the complete clean air solution

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Please note that the routine testing quoted by Safelab excludes a visual process capture check through the use of smoke tubes (see notes below**) unless the results of the airflow measurements (as above) give reason for the engineer to perform this additional check – in this scenario there is no additional charge for the smoke test.

(If you require smoke testing to be performed as part of the thorough test and examination please advise Safelab so that this quotation can be revised accordingly as additional charges will apply).

The engineer will perform a filter seating & integrity challenge

• Carbon filter challenge see notes below***

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 fume cupboard's service record card will be updated following routine testing.

Testing protocol details:

* Airflow testing (Face velocity)

Using a calibrated vane anemometer a number (depending on unit type and size) of airflow readings are measured across the unit's face. 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.

** Smoke capture test (where applicable)

Smoke capture tests provide qualitative support to the quantitative face velocity tests. Where the operational environment allows a small controlled source of smoke is introduced to the LEV. The smoke capture is visually observed and where applicable a capture distance is measured. The capture distance is relevant on capturing and receiving hoods as well as arms. Due to the enclosed design of a fume cupboard capture distance is not required. In this case the smoke test offers visual confirmation of satisfactory containment and air movement around the face.

*** Filter seating & integrity challenge (carbon filter):

A calibrated monitor fitted with a Figaro sensor is placed in the exhaust airflow of the unit. An IPA based spray is introduced to the cabinet intake airflow whilst the unit is running. The monitor will alert the engineer to any level of the substance reaching the sensor. This sensor is similar to the one used as part of the built in saturation alarm safety feature on many Safelab units.

Activated carbon filters come in many forms and handle a great number of chemicals. Our testing protocol gives a general indication to the condition of the filter as well as confirmation that it is seated and sealed satisfactorily (particularly important after filter replacement). We take into account the usage of the cupboard as well as the processes conducted within to offer the right advice regarding replacement and suitability of the filters.

More specific ongoing testing can be carried by end users utilising Draeger or Gastec systems at regular intervals between Safelab's routine examination and test visits. These systems allow for the specific testing of a chosen substance.

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
Consumable items such as internal lights
Replacement sash stops
PAT Testing / Cleaning or de-contamination
Any additional items or works not specified
All remedial works identified at time of test will be quoted for separately

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Important information:

The supply of replacement pre-filters for filtration fume cupboards:

Safelab supply a wide range of replacement pre-filters for all makes and model of filtration fume cupboards.

As part of the routine testing we perform (see attached scope of works documentation) or where we are performing the installation of replacement main filter(s) for a filtration fume cupboard Safelab's engineer will replace the existing prefilter (white cloth "blanket") with a new pre-filter. There are several important reasons for changing the pre-filter.

- 1) The pre-filter, as it blocks, can cause a drop in the fume cupboard's airflows.
- 2) The pre-filter provides protection of the main filter by capturing dust which might clog the surface of the main filter as the unit's airflow passes from the working area out through the main filter to be recirculated (as clean air) back into the room.
- 3) Replacing the pre-filter on a regular basis can extend the life expectancy of the main filter. (For Safelab manufactured fume cupboards please refer to the appropriate operating manual copies available on request).

This quotation from Safelab includes the supply of either:

- 1) A pack/or packs of replacement pre-filters (despatched from our factory).
- 2) The relevant number of individual replacement pre-filters to fit the fume cupboards on site (to be supplied from the attending engineer's van stock).

Once an order is placed and the work is completed Safelab will invoice for the supply of replacement pre-filters as quoted.

If you have replacement pre-filters available on site and do not wish to order more please either:

- 1) Place an order excluding the value of the pre-filters.
- 2) Contact the person who has generated this quotation so that the quote can be amended to remove the supply of the (quoted) pre-filters and the quotation can be re-submitted for consideration.

We are keen to avoid invoicing for the supply of pre-filters from the engineer's van stock if you have pre-filters readily available from your own stock held on site. If you order the quoted pre-filters they will be supplied and either fitted or left on site for future use.

Thank you.

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