

Control program for the functionality of fume cupboards

This guide has been prepared for Ecoscience and Environmental Science

The guide for the control program for the efficiency of fume cupboards has been prepared in accordance with the memo received on 6 August 2021 by the Faculty of Technical Sciences.

The control program consists of the following elements:

- When installing a fume cupboard, a trace gas analysis is conducted by the supplier, who also prepares a certificate stating whether the fume cupboard is suitable/not suitable for working with various substances.
- When moving a fume cupboard, and if there are significant changes in the use of the fume cupboard that may prevent normal air flow, a trace gas analysis is conducted.
- The users (room manager or a user of the room designated by the room manager) control all the functions of the fume cupboard (airflow, alarm, etc.) 3 times a year in quarter 1, 2 and 3, respectively.
- Nat-Tech Building Services conduct one annual function test (smoke test, flow test, installations, alarms, etc.) of the fume cupboard – if the airflow deviates more than 10% from previously measured values, trace gas is also measured.
- All fume cupboards must have a flowrate in the hatch opening of at least 0.5 m/s, regardless of the opening height of the hatch. Control measurements are carried out at hatch opening of 10 and 40 cm.
- A log must be kept of the results of all tests/checks of the fume cupboard.
- A log for three full calendar years must be available by the fume cupboard.
- The certificate for the latest trace gas analysis must be available by the fume cupboard.
- Old control forms and certificates are stored by Building Services.

When installing a fume cupboard, the supplier performs and pays for a trace gas analysis.

Other trace gas analyses are carried out by an external company at the expense of the department/centre.

The control program above is fully adequate for checking the effectiveness of the cupboards and meets the requirements for safety factors for fume cupboards that are used to work with section 20 carcinogenic substances.

The template for completion of the self-test for fume cupboards is on the OHS websites, respectively:

- <https://envs.medarbejdere.au.dk/arbejdsmiljoe>
- and
- <https://ecos.medarbejdere.au.dk/udvalg-og-moeder/arbejdsmiljoeudvalget>

The templates are identical and are available in both Danish and English.

Other relevant links:

- <https://www.bfa-i.dk/kemi-og-biologi/allergi-og-beskyttelse/stinkskabe>
- [Self-control/test of the safety of fume cupboards. August PDF Free Download \(docplayer.dk\)](#)
- https://www.hk.dk/-/media/dokumenter/om-hk/tvaergaende-landsforeninger/dansk-laborantforening/arbejdsmiljoebrevkassen/laboratorieindretning/stinkskabe_ensagsomaldrigvildoe_9_2016.pdf?la=da&hash=48C0AE8F6215CA3B0C3FE731906347CA
- <https://at.dk/regler/bekendtgørelser/foranstaltninger-forebyggelse-kraeftrisikoen-stoffer-materialer-1795-sam/>

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