

The fume hood is often the primary control device for protecting Laboratory workers when working with flammable and/or toxic Chemicals. By following safe operating procedures for fume hoods, We can prevent injuries and property loss.

If you have any questions regarding the performance, safe work Practices or training please contact the at 864-656-0341.

Please visit our website: clemson.edu/research/safety/c



Fume Hood Function

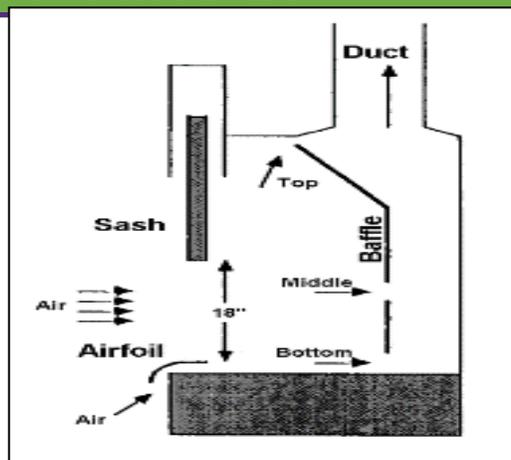
- Airflow should be 80 to 120 feet per minute (fpm).
- The sash height should be set at 18 inches or below from the bottom of the opening
- A fume hood that is performing properly is often worse than no hood at all because the user is likely to have a false sense of security about its ability to provide protection.
- RS evaluates the performance of fume hoods annually
- RS marks each hood with a calibration sticker indicating the airflow, date of test, and arrow indicating the 18-inch sash height.
- Facilities Services works to identify and correct problems that may arise.

Before Using a Fume Hood:

- Make sure that you understand how the hood works.
- You should be trained to use it properly.
- Know the hazards of the chemical you are working with; refer to the chemical's Safety Data Sheet (SDS) if you are unsure.
- Make sure that the monitor/alarm is working and the airflow is within the required range.
- Understand the emergency action plan for your lab.
- Make sure airfoils, baffles and sash stops have not been removed.

Safe Use of a Fume Hood

- Eliminate clutter in the hood. Fume hoods are not meant for permanent storage of chemicals or lab equipment.
- Keep combustibles, such as paper towels, out of the hood.
- Never allow your head to enter the plane of the hood opening.
- Use appropriate eye protection and Personal Protective Equipment (PPE).
- Be sure that nothing blocks the airflow through the baffles or through the baffle exhaust slots.
- Elevate large equipment (e.g., a centrifuge) at least two inches off the base of the hood interior.
- Keep all materials inside the hood at least six inches from the sash opening.
- When not working in the hood, close the sash.
- Minimize traffic near the hood, especially when conducting a hazardous work.
- Do not use fume hoods as a means of evaporating old or unwanted chemicals.



Promptly report any hood that is not functioning properly to your supervisor, Departmental Safety Coordinator or Research Safety. Post that hood has been removed from service.