

NEW YORK STRUCTURAL BIOLOGY CENTER

Fume Hood Operation

Created: 04/26/2005
Reviewed: 05/08/2017

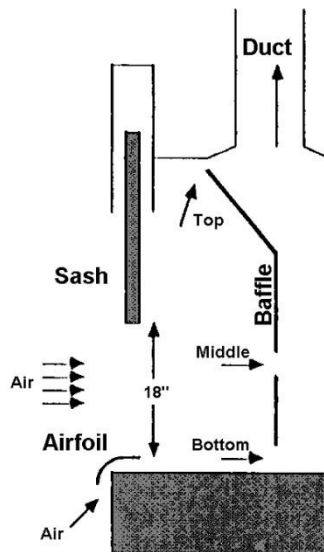
A. Purpose

To inform staff members how to work safely in a fume hood.

B. Applicability/scope

This policy covers NYSBC personnel that work with chemical that require handling in a fume hood.

C. Definitions/description



D. Normal operating parameters

1. The normal airflow face velocity should be between 80-100 fpm (ANSI/AIHA Z9.5, 3.3.1).
2. Operating sash height is 18" unless otherwise marked on the hood by height indicators.
3. Proper air flow is certified annually

E. Procedures

1. Open sash to height; 18" or indicated height.
2. Before beginning work, check for proper air flow; AirGard monitor or flow gauge.
3. Work with chemicals at least 6" back from front edge.
4. Do not block airfoil or exhaust baffles.
5. Do not store chemicals in hood.
6. Elevate large pieces of equipment on small blocks.
7. Lower sash completely when not in use.

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F. Health Hazards

1. Do not use foods with insufficient air flow or during a power outage.
2. Do not place your head in the hood.
3. Develop pump procedure for hazardous chemicals to immediately render harmless

Examples:

- For strong acids; a beaker of sodium bicarbonate
- For strong bases; a beaker of 5% acetic acid
- For toxic biological; a beaker of fresh 10% bleach solution
- For osmium tetroxide; a beaker of fresh tannic acid solution
- For thiols; a beaker of fresh 10% bleach solution

Additional reference information.

- [OSHAquickfacts-lab-safety-chemical-fume-hoods](#)
- <http://www.nysbc.net/twiki/bin/view/Main/HoodProcedures>

G. Emergency Contacts

NYSBC Facilities – (212) 939-0660 ext. 400

Laboratory Safety Officer – (917) 992-7173

For service:

ENV Services – (800) 345-6094