

CHEMICAL FUME HOODS

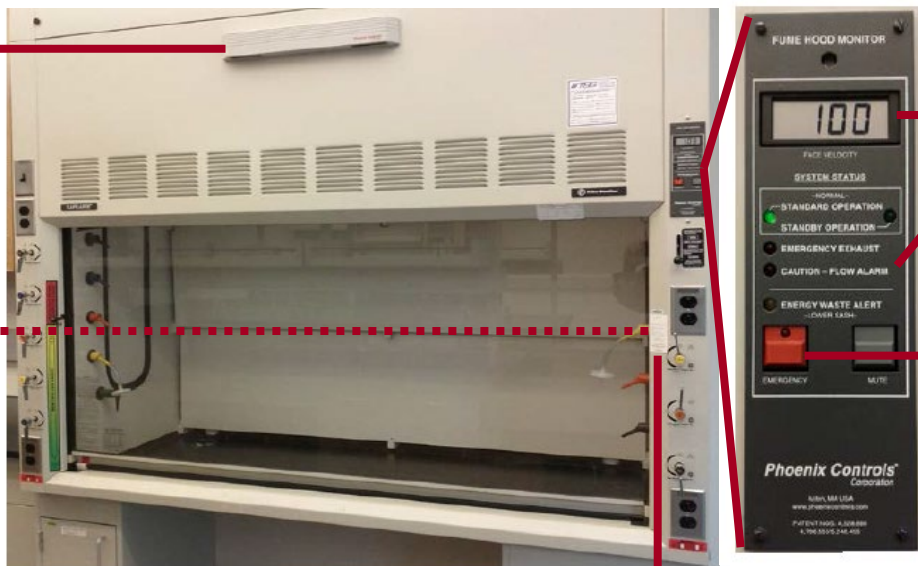
MOTION SENSOR

Detects presence of user to determine standard/standby mode of fume hood & adjusts airflow velocity

SASH

Keep sash height at or below arrow on certification sticker (green to yellow zone) to ensure proper velocity & physical barrier from splashes, flying objects, and fire.

SAVE ENERGY: Close the sash when not using the fume hood



FUME HOOD CONTROL BOX

FACE AIR VELOCITY (feet per minute, fpm)
Safe range: 100-150 fpm (80 fpm for high-efficiency hoods)

CAUTION – FLOW ALARM

Blinks/sounds when air flow is not within safe range and may compromise your protection, call the Office of Research Safety (ORS)

EMERGENCY

For emergency use (i.e. spill of a volatile chemical). Close sash & press EMERGENCY button to induce higher airflow velocity

ANNUAL CERTIFICATION STICKER

A sticker will be placed on the side of the fume hood to indicate face velocity at the maximum safe height & certification date. If the velocity is outside of the safe range, a warning sign will be placed on hood to alert users it is not safe for use until repaired.

! - SHUT THE SASH - !
STAY SAFE AND SAVE ENERGY - SHUT THE SASH WHEN THE FUME HOOD IS NOT IN USE.

DO:

- ✓ **Verify the airflow velocity prior to working**
Check face velocity on airflow monitor, a *Kimwipe* taped to bottom of sash can show that airflow is pulling into the hood.
- ✓ **Turn on the light inside the fume hood when working**
- ✓ **Work with the fume hood sash in the lowest possible position & no higher than the arrow on certification sticker**
Safe sash height is within green to yellow zone
- ✓ **Keep chemicals and other supplies at least 6 inches (15 cm) behind the plane of the sash**
To ensure proper airflow and that contaminants are not entering your breathing zone.
- ✓ **Close the sash when not in use or work is unattended**
- ✓ **Immediately report any fume hood issue to ORS**

DON'T:

- ✗ **Store Hazardous waste in fume hood**
- ✗ **Put your head inside a fume hood**
- ✗ **Accumulate chemicals or supplies in the fume hood**
- ✗ **Dispose of chemicals by evaporating volatile liquid in the fume hood**
- ✗ **Store any large pieces of equipment in the fume hood unless the fume hood is decertified i.e. not for handling chemicals**
- ✗ **Disable the airflow alarm and ignore it**
Report malfunction to ORS or your Lab Safety Specialist.
- ✗ **Mistake fume hoods for biosafety cabinets or clean benches**
Fume hoods may not provide protection required for infectious materials. Consult ORS if you want to use infectious materials in a fume hood.
- ✗ **Attempt to modify any part of a fume hood without approval from ORS**



THE UNIVERSITY OF
CHICAGO

Office of
Research Safety

P: 773-834-2707
researchsafety@uchicago.edu
<http://researchsafety.uchicago.edu>

