University of Victoria

Fume Hood Validation Sticker

Fume Hood Validation Certificate

WorkSafeBC → _____ "A" Face Velocity Profile

WorkSafeBC → _____ "B" Air Dynamics Tests

Best Practice _____ "C" Sash Operations

Best Practice _____ "D" Use and Operation

WorkSafeBC → _____ "E" Alarm Calibration

Date Tested → Date of Validation: _____ Due Date: _____

Comprehensive Report Ref. → Model#: _____ Inventory #: _____

Certifier: _____

See Report for Details

WorkSafeBC Criteria

- **A Face Velocity**
  - **Pass/Fail**
  - 0.40m/s to 0.60m/s
  - individual reading within 20% of the average velocity
  - UVic target 0.45m/s to 0.50m/s
- **B Air Dynamics**
  - **Pass/Fail**
  - Smoke testing to demonstrate containment
  - Reverse flow; looping; eddying; or turbulence
- **E Alarm**
  - **Pass/Fail**
  - Calibrated to alarm when face velocity drops below 0.4m/s

University of Victoria

Best Practice and Information

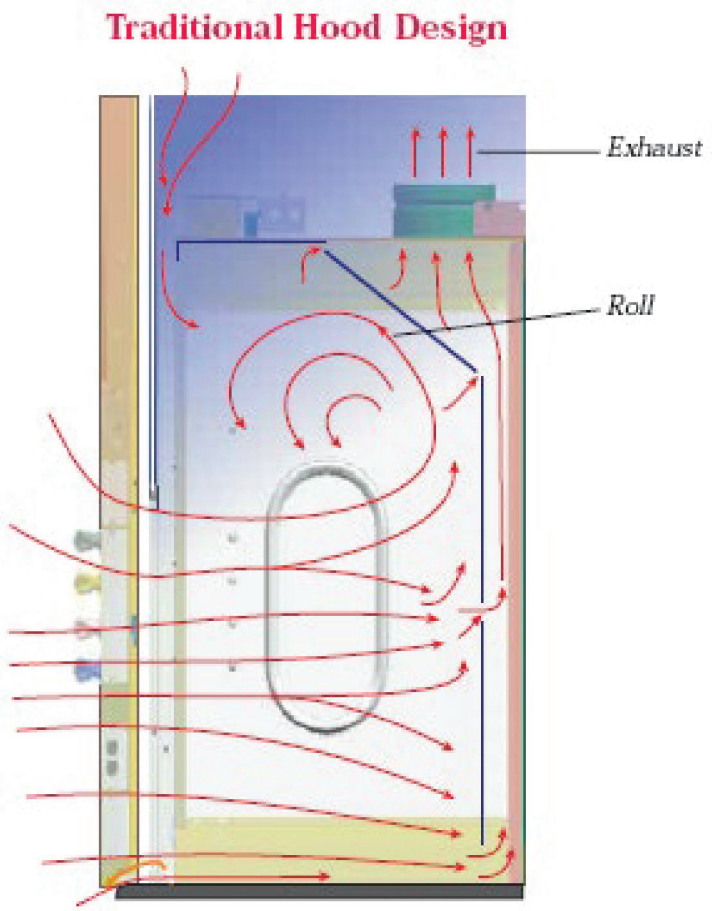
- **C Sash Operation**
  - **Yes/No**
  - Ensure sash can maintain opening at designated height
  - Moves freely
- **D Use & Operation**
  - **Yes/No**
  - Apparatus a minimum of 15cm from the hood face
  - Does not adversely affect airflow into the hood
- **Values are reported as %**
  - a pass in 4 of 5 criteria would give 60%
  - Individual criteria are available in the Comprehensive Report available by request from OSHE

University of Victoria

Chemical fume hoods

Regular

- Provide **operator protection** while using solvent vapours and dilute corrosive solutions
- Types of chemicals being used
  - –Solid toxic chemicals
  - –Volatile chemicals
  - –Dilute corrosive solutions

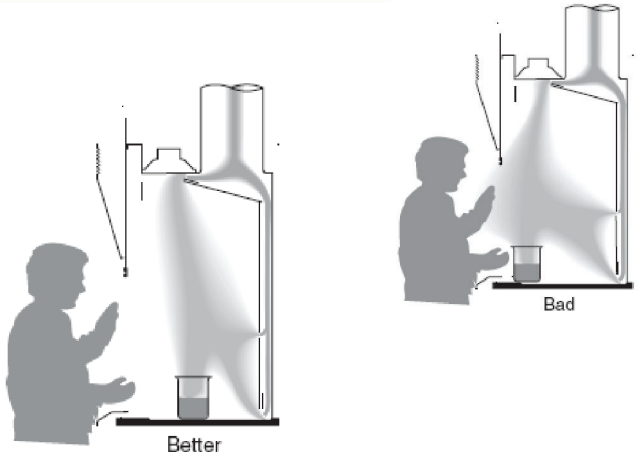


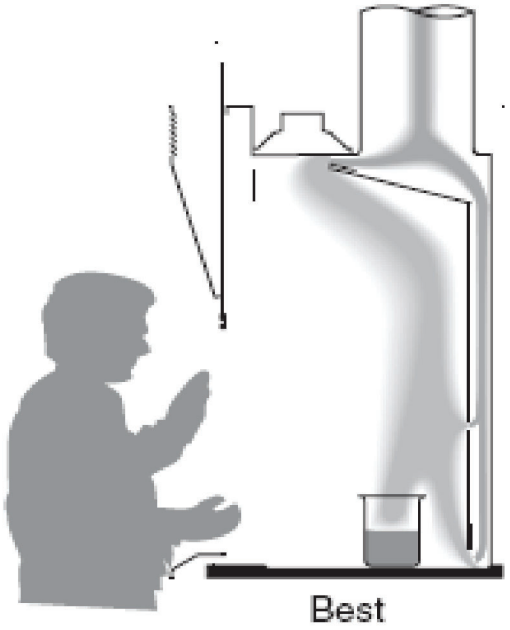
Corrosion resistant

- Provide **operator protection** while using solvent vapours and concentrated corrosive solutions
- Types of chemicals being used
  - –Solid toxic chemicals
  - –Volatile chemicals
  - –Concentrated corrosive solutions

Working safely in the hood

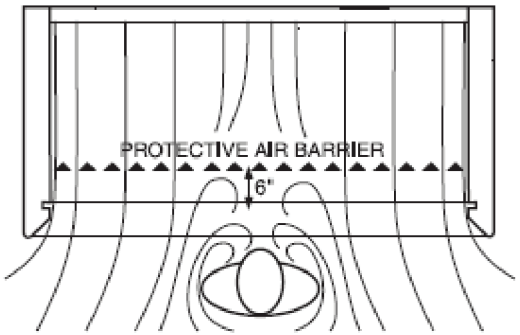
- Check air flow
- Adjust sash height to indicated level
  - –Sash also functions as a splash shield
- Turn on the light
- Use slow, direct movements to avoid drawing the contaminant out of the hood.
- Keep foot traffic and air currents in front of the hood to a minimum to avoid disrupting the airflow into the hood.
- Compressed air guns can dramatically alter the flow of a hood



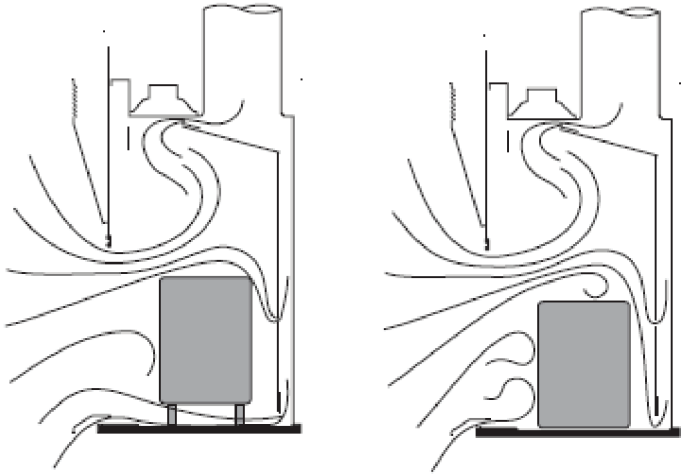


Reduce clutter to increase protection

- Position work at least 15cm into the hood to ensure the hood airflow captures the hazard



- Do not block the air flow to the rear of the hood
- Reduce fume hood clutter or use a shelf to maintain clear airflow



Good Bad

- Used for working with chemicals
- Storage should be in designated chemical storage cabinets