

Services Offered:

Ventilation Engineering:

- Building Ventilation Optimization Service (BVOS™)
- Contaminant control systems
- Exhaust stacks & air intakes

Computational Fluid Dynamic (CFD) Modeling & Engineering Analysis for:

- Process & facilities
- Health, safety & thermal comfort
- Energy reduction
- Indoor Air Quality (IAQ) & environmental impact

Field Testing & Analysis:

- Systems performance - flows, pressures, temperatures, energy use.
- Contaminant levels
- Thermal comfort & IAQ

Our Clients:

- Industrial manufacturers
- Commercial facilities
- Hospitals & laboratories
- Mechanical contractors
- Health & safety consultants
- Engineering firms

About Us:

Air Science & Engineering provides state-of-the-art air engineering services. We help clients find effective solutions to air contaminant, temperature, flow and humidity problems using CFD (computational fluid dynamic) modeling and engineering analysis combined with field testing and years of practical experience.

We have:

- The latest technology & many years of experience.
- Engineering, industrial hygiene and process engineering expertise.
- Licensed Professional Engineer; Certified Industrial Hygienist.
- Received 1st place national award for metal fume control project.

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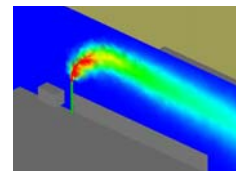
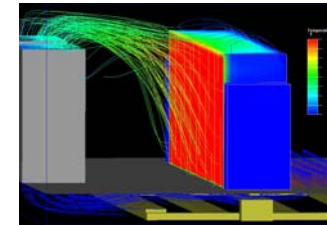
Start saving energy while
improving your work
environment.

Enhance your business with

Air Science & Engineering's

Building Ventilation Optimization Service

(BVOS™)



Did you know?

Costs to operate ventilation systems are substantial:

- Up to 60% of utility costs.
- A single lab hood—up to \$9,000 per year!
- \$100,000+ per year—typical medium industrial site.
- Most facilities have never been optimized.

Performance of ventilation systems impacts:

- Safety - Productivity - Work Environment
- The Bottom Line.

It pays to get these systems right!

- Designs matter - Non-optimum systems give poorer results and cost more to operate.
- New technology provides a way to optimize these systems.
- Today's competitive business conditions—demand optimization!

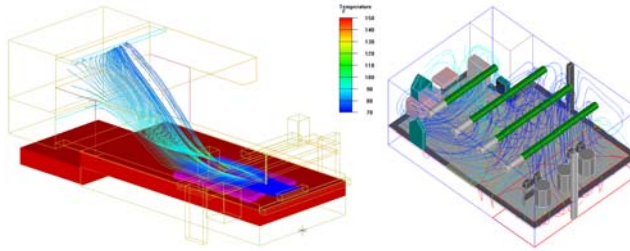
BVOS™ can help!

- Reduce energy costs.
- Solve problems related to ventilation, e.g. fumes, odors, drafts, negative pressure, complaints.
- Enhance your business!

Building Ventilation Optimization Service (BVOS™)

Optimized Exhaust and Air Supply Systems:

- Effectively capture contaminants without hampering production.
- Produce comfortable working conditions and the best air quality.
- Designed to minimize airflow, energy use and maintenance.



Optimized Stacks and Intakes:

- Provide adequate dilution.
- Prevent contaminant re-entry into facility.



Optimized Overall Building Ventilation:

- Maximizes air quality throughout the building.
- Minimizes energy use.
- Provides extra safety margin to handle emergencies.



Examples:

Laboratory:

- Contaminant re-entry prevented.
- \$50,000 per year savings.



Heavy Industry:

- Maintenance costs reduced \$200,000 per year.
- Production time increased.



Commercial:

- OSHA solvent odor complaint resolved.
- Productive work environment re-established.



Industrial Manufacturer:

- Fumes controlled & capital cost reduced by \$50,000.
- Operating costs reduced \$5,000 per year.



Hospital:

- Decontamination facility designed & validated.
- Optimized ventilation to protect hospital & staff.

