HAVING THE RIGHT

Ending Point

Getting What You Need.

System Features

•Laboratory Electronic Actuator

· High speed actuation with solid state reliability

· Power failure options: maintains last position or fails NO/NC

· Manual override provision

· Integral current sensing provides actuator protection

•Laboratory Room Controller

· Closed loop PID control of HVAC systems to maintain tighter air volume and temperature control

· Optional room pressurization alarm

· Reports airflow directly in actual cfm(lps)

· Set points and control parameters easily assigned and changed using the Portable Operator's Terminal

· Quick return from power failure without operator intervention

· Maintains room pressurization during transient conditions, i.e., rapid hood sash movement

· Finely accurate air flow measurement system, for control of either electronic or pneumatic end devices

· Electronic outputs for valves and damper actuators

•Fume Hood Controller

· VAV control for constant face velocity fume hood operation

· Full integration with the APOGEE Automation System controllers and software

· True exhaust flow measurement used to verify proper positioning of a variety of flow control devices

· EEPROM memory for set point and control parameters - no battery needed

· Supports many fume hood models and sash configurations

•Supply and Exhaust Terminal Boxes

· Fast acting electronic actuation

HAVING THE RIGHT

Starting Point

Understanding What You Need.

Benefits

Siemens Building Technologies is proud to present its DDC electronic laboratory ventilation system. The Siemens system consists of fume hood controllers, the fume hood exhaust terminal, room supply terminals and room exhaust terminals all seamlessly integrated with the Siemens' Lab Room Controller. Your entire facility's ventilation requirements can now be specified for DDC controls.

The Siemens DDC electronic laboratory ventilation system will provide the designer and laboratory owner with the following benefits:

- elimination of costly pneumatic equipment and piping (compressors, dryers, air filters and associated installation costs)
- elimination of air/DDC control transducer componentry and accuracy tolerance build ups
- further reduction of any maintenance costs
- fast response times for room ventilation control components
- quiet, cleaner operation

Specify the Siemens DDC electronic laboratory ventilation system and eliminate the need for pneumatics in your laboratory.

The APOGEE family of facility systems
Delivering the highest point in efficiency, control, comfort and safety for every unique requirement:

APOGEE Automation
HVAC and environmental monitoring and control

APOGEE Critical Environments
Precise ventilation management for areas involving highly sensitive or hazardous operations

APOGEE Integration
Interoperability and centralized control of systems for maximum facility performance

APOGEE Life Safety
Early detection and notification of fire and life safety events for occupant and facility protection

APOGEE Security Technologies
Security management and control for protection of people and assets

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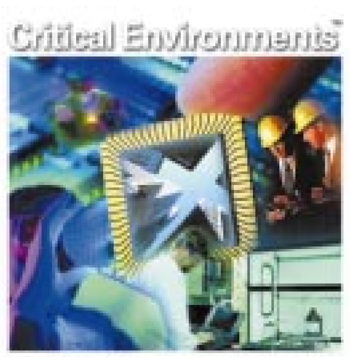
SIEMENS

Siemens DDC Electronic Laboratory Ventilation System

Achieve the highest levels of safety and performance for Critical Environments™

What is the shortest route to superior Critical Environments performance?



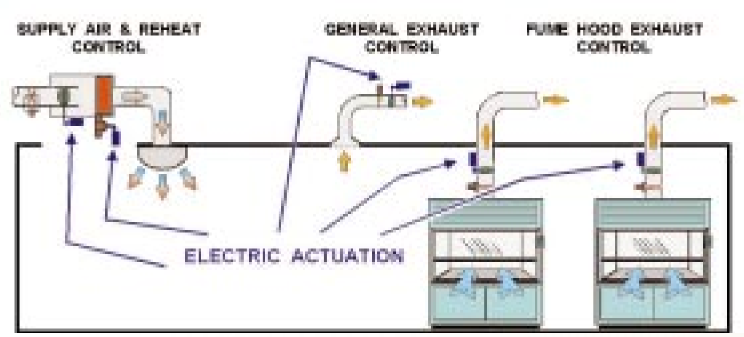
Laboratory Ventilation Design Guide

New Automated Laboratory Design Guide CD-ROM
- system ventilation sizing
- lift out CAD diagrams
- industry guides and regulatory standards

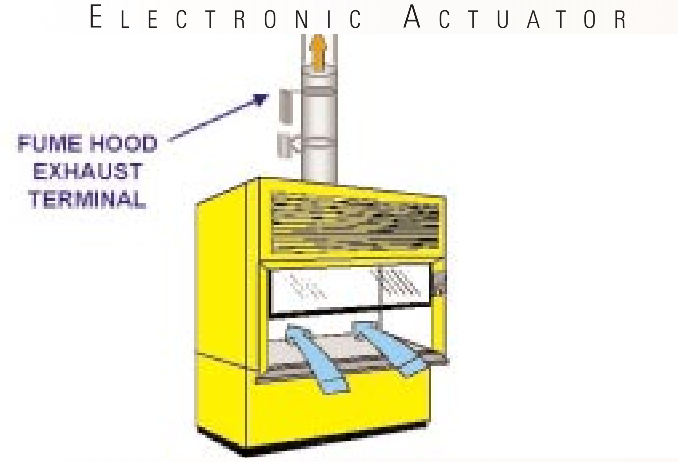
To obtain your complimentary copy, contact your local SBT representative.

System level

Room level



Electronic Actuator

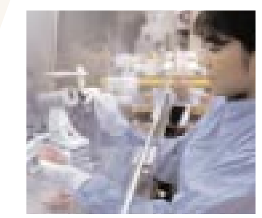


Keep the Line Straight

No Surprises.

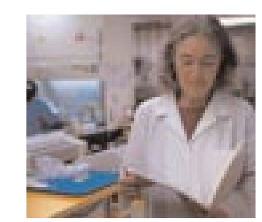
The Siemens DDC electronic laboratory ventilation system provides control over all aspects of the laboratory from fume hoods to room temperature, from humidity to pressurization controls. Whether you work with hazardous chemicals, biologics or research animals, our solution can be tailored to meet your specific requirements.

- Microbiological laboratories



- Animal rooms, vivariums

- General chemical & analytical laboratories



- Biomedical laboratory rooms

APOGEE Critical Environments

Maintaining a productive and efficient high precision environment is a perpetual challenge. On a daily basis you face the ongoing needs of meeting regulatory requirements and industry standards, ensuring personnel safety and product integrity, and maintaining operational reliability -- all while watching the bottom line.

Meeting this challenge requires careful planning, highly skilled systems knowledge and an extraordinary understanding of your business.

APOGEE™ Critical Environments provides unique and innovative solutions to help you manage and maintain the pinnacle of performance. Incorporating a process we use for every Critical Environments application, we ensure your investment with us will be long term, cost effective and secure.

You will receive precision facility control solutions for the protection of people, products, experiments, and investments. You can also be assured that the best expertise in technology and services is used to implement and maintain the best total solution for your unique requirements. We have a proven track record with pharmaceutical, healthcare, higher education and industrial manufacturing facilities.

APOGEE delivers the highest point in facility performance.