INNOVATIVE AIRFLOW TECHNOLOGIES

FOR LABORATORIES



ACCUTROL LLC

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ACCUTROL LLC

For your lab, clean room, or critical environment

Accutrol airflow technologies breathe life into invention. Our products secure the world's laboratories, clean rooms and critical environments, where airflow protects brilliant minds and helps ideas become realities.

Our technologies are vital to laboratory safety and efficiency, and are trusted by universities; biotech facilities; pharmaceutical research, development and manufacturing facilities; hospitals; water treatment plants and secondary schools, where tomorrow's finest medicines and scientific practices are tested and refined; where ingenuity thrives, evolves and affects positive change.

Our products are found where lab and facility owners demand higher standards of quality, control and safety, where there's a need to seamlessly integrate cost-effective and energy-efficient airflow solutions into new and existing ventilation systems.

The dedicated people who work inside your lab, clean room or critical environment deserve the **quality standards** and **peace-of-mind** that comes with Accutrol airflow technologies.

AccuValve® Airflow Control Valve

*A 2008 AHR Expo "Innovation-Value-Impact Award" winner and the preferred choice of many of the world's most prestigious and demanding lab owners.

AccuValve is Accutrol's innovative Airflow Control Device – the first airflow control valve designed for use in critical environments and the first to be recognized for its significant value impact.

The AccuValve is the standard by which all critical environment airflow control valves are measured. It operates with very low pressure drop, provides true airflow measurement without a straight duct run requirement and is easily installed. In addition, each AccuValve incorporates "ready" Demand Based Static Pressure Reset Control to meet the requirements of ASHRAE 90.1 and provides substantial long-term energy savings.

**AHR Expo: The International Air-Conditioning, Heating and Refrigerating Exposition*

Airflow Customized to Your Needs

Accutrol's innovative airflow solutions are award-winning, standard-setting and *customizable*. With your input, we'll tailor and integrate an airflow solution that will optimize your safety, comfort and energy efficiency — and we'll accomplish this with one or more of the following products:

Accutrol Fume Hood Control System

- Fast-acting, precise airflow control to ensure fume capture
- True airflow measurement feedback provides the laboratory airflow control system with accurate and reliable information to ensure proper airflow balancing within the lab environment
- User-friendly interface simplifies and demystifies hood controller setup

Accutrol Exhaust Equipment Control

- Independent and precise exhaust airflow control for biosafety cabinets, canopy hoods, snorkel hoods and other specialty lab equipment

Accutrol Lab Room Control

- A laboratory airflow and temperature controller that offers complete control of the laboratory space
- Maintains fast-acting control for precise airflow balance within the lab space
- Maintains occupant comfort with precise temperature control

AccuValve Airflow Control Valve

- Boosts energy savings by requiring low pressure while providing the high turndown, accuracy and true airflow measurement required for critical space airflow control
- Enables reduced fan brake horsepower, saving electrical and capital equipment costs
- The only critical airflow control valve that offers "ready" Demand Based Static Pressure Reset Control to meet the requirements of ASHRAE Standard 90.1 without adding costly materials in the airstream or straight duct run

Today, many facilities also find themselves needing to replace older airflow control technology due to new regulations or existing product obsolescence. If you are among them, consider Accutrol. Our AccuValve and Accutrol Fume Hood Control System give you the flexibility to directly replace your high-energy use airflow valves and fume hood controls with a very low pressure drop option for seamless integration with your existing Building Automation System.

Whether you're updating an existing system or installing a new one, Accutrol is the best choice for your critical environment needs.

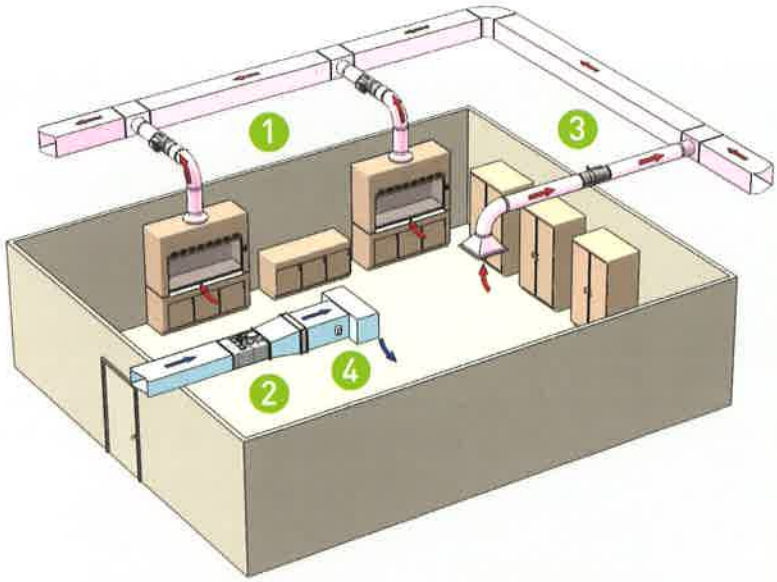
www.accutrolllc.com | **(203) 445-9991** | **sales@accutrolllc.com**

FOR LABORATORIES

CHEMISTRY LABORATORIES

Accutrol's high speed AccuValves and Fume Hood Control System provide precise, safe, energy saving airflow control in laboratories, meeting the demands of low and high density laboratory fume hood designed spaces.

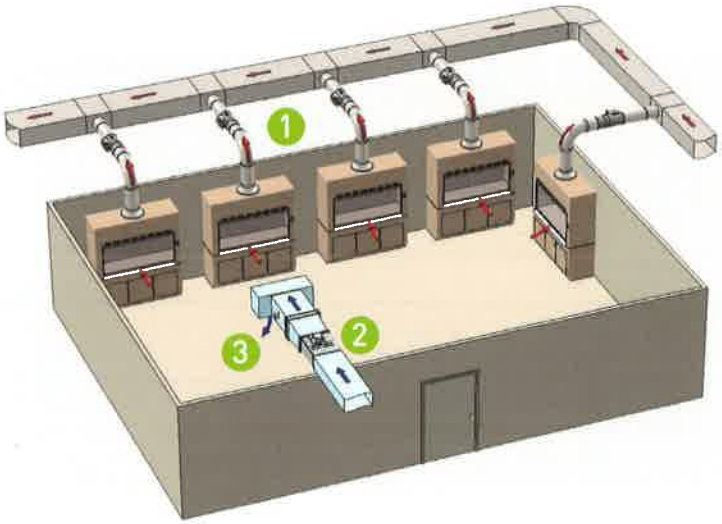
1. AccuValve Fume Hood Exhaust Valves with the Accutrol Fume Hood Control System
2. AccuValve Supply Airflow Valve
3. AccuValve General Exhaust Valve
4. Duct Temp Sensor



TEACHING LABORATORIES

Teaching laboratories require a high air change rate with the need to program the space to optimize energy savings when not in use. The Accutrol Fume Hood Control System offers its user simple, safe and energy efficient operation.

1. AccuValve Fume Hood Exhaust Valves with the Accutrol Fume Hood Control System
2. AccuValve Supply Airflow Valve
3. Duct Temp Sensor



Other critical environments that depend on fast acting airflow control include high containment laboratories, cleanrooms and vivarium spaces. The AccuValve meets the demands of these environments with precise airflow control and maximum energy savings.



AccuValve Technology-leading airflow control for critical environments

AccuValve Features and Benefits:

SAFETY

Fast Speed of Response
< 1 Second Response Time

High Accuracy
+/- 5% of reading

True Airflow Measurement
Actual airflow measurement without the requirement of a straight duct run before or after the valve

ENERGY SAVINGS

Low Pressure Drop
Allows design <0.3" PD at maximum airflow

ASHRAE 90.1 Compliant
Demand Based Static Pressure Reset Control (without additional hardware)

High Turndown
Provides precise control over large airflow range

LAYOUT AND INSTALLATION

Can be mounted in any position
360° plane (no special ordering or mounting arrangement needed)

Easy Access to Controller/Actuator
Controls can be mounted in inverted position if required for site conditions

Universal Input/Output
Can be directly controlled by BAS

MAINTENANCE

No Scheduled Maintenance Required

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LIFE SCIENCE

HEALTHCARE

Our innovative airflow technologies include:
Airflow Control Valves, Fume Hood Controls,
Room Airflow and Temperature Controls,
Pressure Monitors and Airflow Measurement

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