

Demystifying Fume Hood Control Systems With a Simple, Intuitive User Interface

Evolution of Airflow Control Technology



ACCUTROL
LLC

www.accutrollc.com

Overview

Fume Hood Control Systems have historically been complex and cumbersome to use. The setup, modification and maintenance of the controls often requires utilizing factory trained personnel. This can be expensive and can often lead to scheduling delays waiting for a factory trained technician.

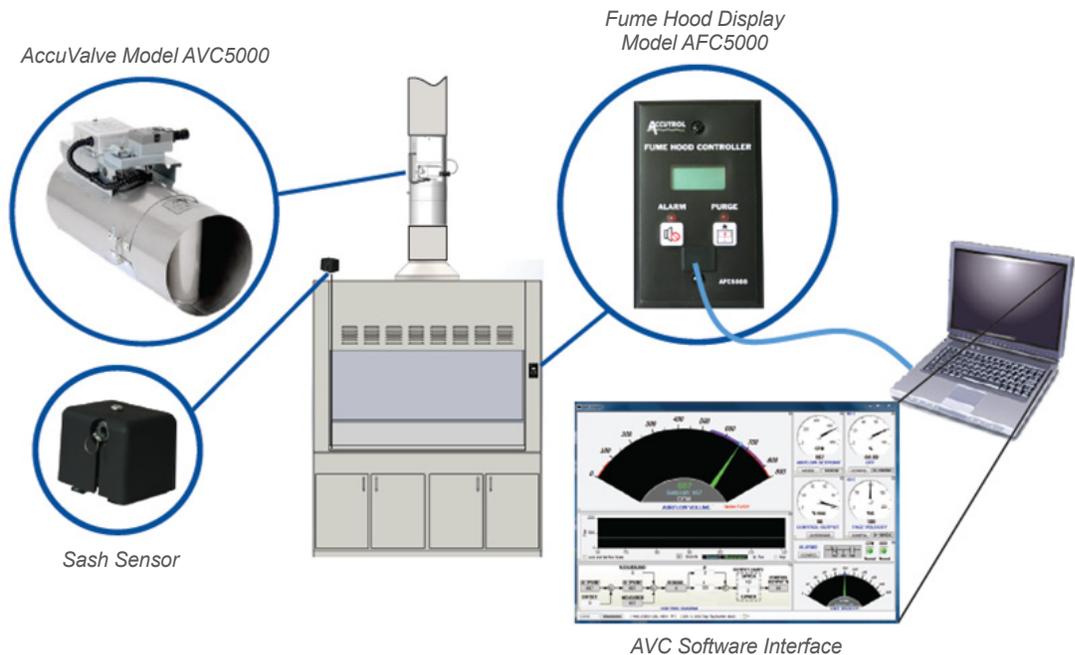
That has all changed with the Accutrol AVC5000 Fume Hood Control System.

Evolution of Technology

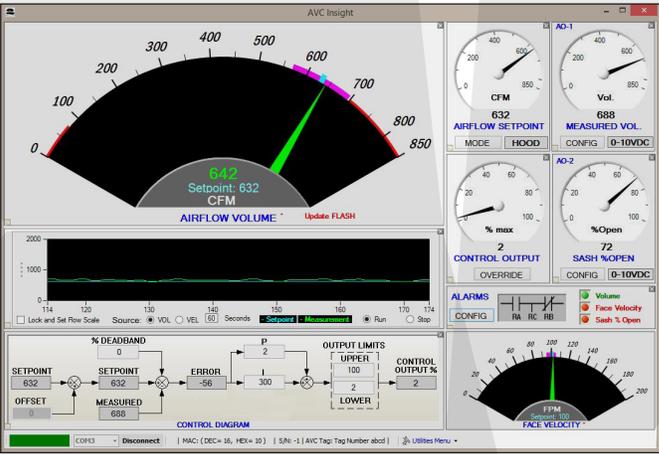
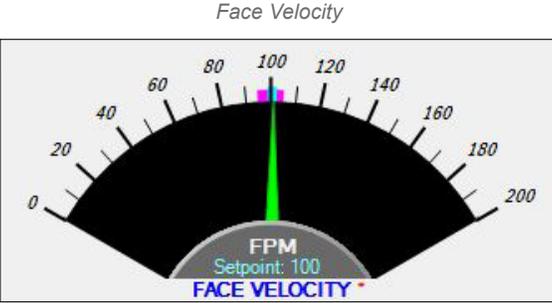
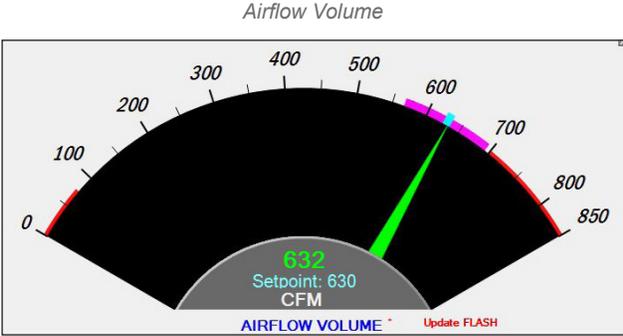
Fume Hood Control Systems over the last 30 years have been an enigma for owners. In the 1980s the idea of VAV Control of Fume Hoods became a way to reclaim energy dollars wasted by installations using Constant Volume Fume Hoods. Utilizing VAV controls on fume hoods reduced the amount of air exhausted from a laboratory enabling reductions in conditioned supply air. Regardless of the fume hood design, laboratories require airflow control to ensure proper protection of the user as well as overall airflow balance within the laboratory environment. This is where the mystery begins for many owners. The fume hood control setup is typically a very involved and time consuming process requiring navigation through a complex menu-driven system. This makes it very difficult for an end-user to make changes using their own trained staff once a system has been installed and in operation. This makes it necessary to hire outside factory trained technicians to make a change or to evaluate the system.

Accutrol is the first and only fume hood control manufacturer to offer a user interface (UI) for their fume hood control systems that is simple and intuitive and designed to be used by any owner. This enables the owner to eliminate costly service visits reducing the cost of ownership of the lab control system.

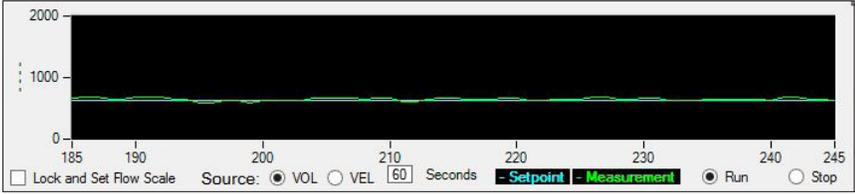
INTEGRATED FUME HOOD CONTROL SYSTEM



When used with the AFC5000 display and the free Accutrol Insight UI software, any laptop computer can be used to configure the controls to meet the needs of your fume hood. The Insight dashboard offers a wealth of information on the operation of the controls in a simple to understand format showing airflow measurement and setpoint in analog, digital and trending formats. The trending graph is extremely useful for tuning the control loop for your individual fume hood requirements.



Main Dashboard



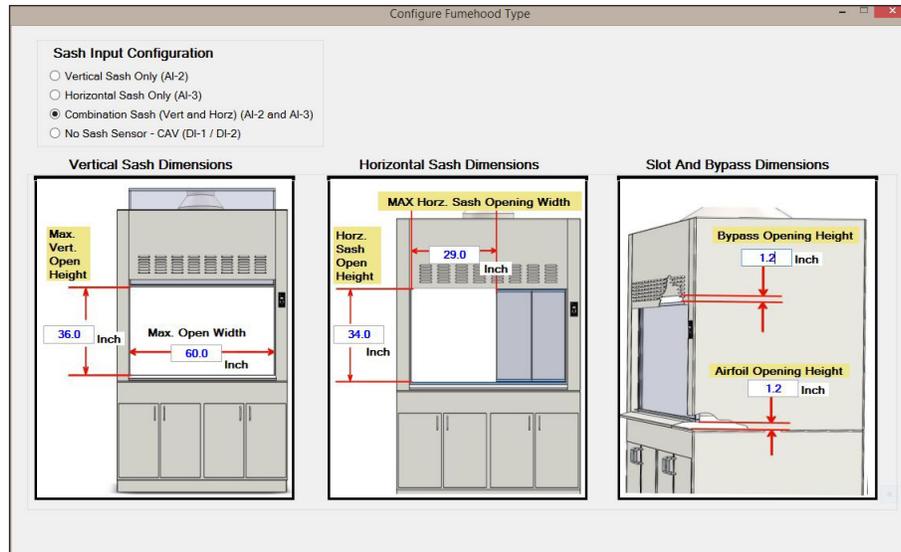
Trending Graph

If you can use a smart phone you can configure a fume hood. All instructions are graphical in nature and intuitive, eliminating the need for extensive training. A few minutes with the UI and a few clicks will enable the user to become an "expert" at setting up a fume hood control system.

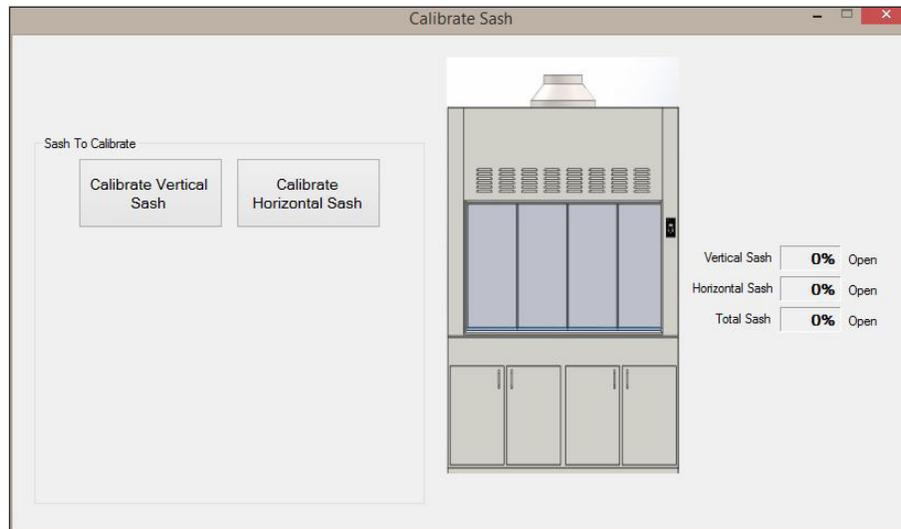


No longer is a large manual required with a tree of functions that needs to be referred to throughout the setup procedure. The Accutrol Insight provides a simple method of configuring the AccuValve AVC5000 to suit the owner's requirements.

The Accutrol AVC5000 Fume Hood Control System now gives the control to the owner. Setting up or changing the fume hood configuration is accomplished with a few clicks of your mouse, using the easy to use Insight graphical format.



Configure Fume Hood Type



Calibrate Sash Input

It really doesn't get any easier than this!

Accutrol has taken the mystery out of fume hood controls and handed the keys over to you the owner.

For a free live demonstration of the AccuValve AVC5000 fume hood control system at your facility please contact us at demo@accutrol.com.

The Accutrol AVC Fume Hood Control

Safe, Energy-efficient, Cost-effective



With the Accutrol AVC Fume Hood Control System you now have a safe, energy-efficient, cost-effective fume hood control package. The system is configured to control VAV fume hood face velocity based upon open sash area. Alarms can be field configured to indicate a variety of fault conditions to further suit your facility's specific needs. Importantly, your cost of ownership is reduced and everyday operations simplified.

Integral Operation with Low Pressure Drop AccuValve

Visual/Audible Indication with Flow, Alarm and Purge

Text Alarm Messages on Display

Programmable Purge Set Point

Up to 4 User Defined Setback Sequences

Optimized Energy Savings

Simple Installation and Wiring

Simplified Set-Up (No Menus)

Intuitive User Interface Using the Insight Program