

Volumetric Controls



The volumetric controller is ideally suited for low velocity Fume Cupboards where sash position based variable volume control is required. The controller can accept multiple variable sash position or switched inputs so is suitable to most types of Fume Cupboards with single or double vertical sashes, or combination horizontal and vertical sashes. The controller can also be operated remotely by digital input, analogue 0-10V control signal or using the optional RS485 coms module.

The controller can also perform the task of a CAV or VAV box with the added benefits of a localized display of volume with programmable alarm points, Pushbutton On/Off and variable set point control (Min/Normal/Max volumes), Fan Stop/Start control and Lights On/Off functions so is also suitable for a wide range of applications such as LEV's, Enclosures, Canopy Hoods etc.



Benefits:

Safety and compliance

Protecting your staff from potentially hazardous fumes and substances and ensuring you stay compliant.

Energy and cost savings

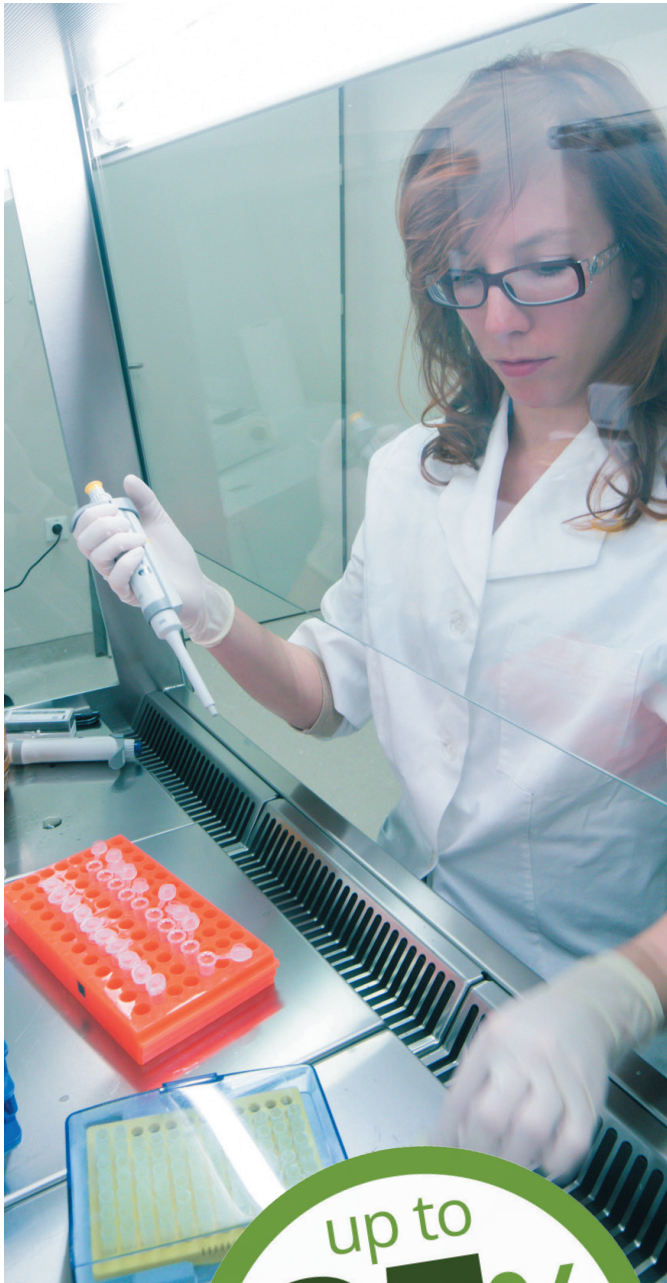
The TEL Volumetric controller reduces the volume of air taken from the fume cupboard when it is not being used, reducing energy usage by up to 85%, considerably reducing costs.

Carbon emissions reduced

With many organisations having to meet carbon reduction targets, TEL's Volumetric controller reduces energy wastage, ensuring reductions in carbon emissions.

Volumetric Controls

World leaders in airflow controls and monitors



Choose the right profile for your needs:

The volumetric controller has multiple field settable profiles and can be installed with or without the keypad depending on the application.

VAV (Sash Position Control)

The controller operates using a floating set point dependant on sash position.

3 Term control (Pushbutton Control)

The controller operates using fixed volume set points ($V_{max}/V_{norm}/V_{min}$) independent of sash position.

VAV Box control (Remote 0-10VDC Input control)

The controller operates from an analogue input voltage to a volume range between V_{min} and V_{max} parameter.

CAV Box control (Fixed Volume set point)

The controller operates to a fixed volume set point to give Constant Volume operation.

Choose the right options for your needs:

The controller can be fitted with add on plug in expansion modules to give additional operational features.

Enerdrive Module

A Plug in PCB that gives fail/safe operation of the damper actuator (damper opens on power loss).

RS485 Coms

A Plug in PCB that gives RS485 coms using Modbus RTU protocol.

Mains Fail

A Plug in PCB that gives a Mains Fail Alarm on power loss.

Battery Back Up

A Plug in PCB that gives full Battery Back up in the event of power loss.