



FUMAIR

FlowMaster Controller

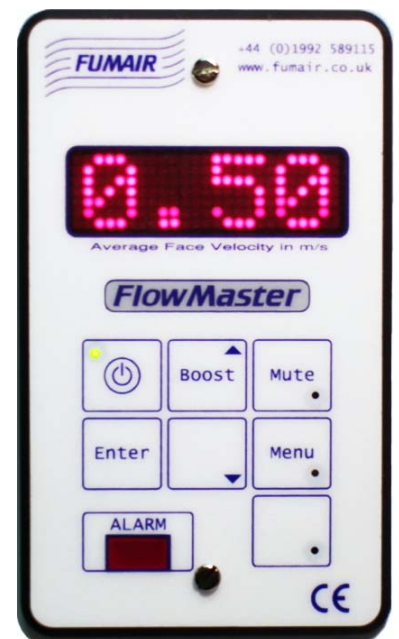
Made for fume cupboards, by fume cupboard makers

The Fumair FlowMaster is the culmination of our long experience and knowledge. The result is the most feature packed, accurate, versatile and reliable system on the market today.

Features include:

- Large, high intensity LED dot-matrix alphanumeric display
- 3-digit display of average face velocity in metres per second
- Scrolling messages for a clear, concise description of all options, key presses and events
- Ultra-fast response time and increased accuracy, sensed via a temperature compensated thermistor array
- Audible and visual alarms for airflow failure, sash overheight and mains failure, as well as for programmable events and inputs
- Multiple running speed outputs* linked to sash height, for energy efficient operation
- Multiple idle speed outputs* to maintain low-level ventilation through the fume cupboard and any attached storage cabinets when not in use
- Three fully programmable daily events
- Digital clock display option
- Remote control mode / keypad lock mode
- Alarm Mute button with programmable enable/disable and mute period for most events
- Programmable service alarm to remind the user the fume cupboard is due a service visit
- Self test with programmable "test state" for all inputs and outputs
- Boost key to force the extract fan to run at maximum speed*, irrespective of sash height
- Programmable delays to prevent nuisance alarms on start up and speed change
- Off delay to purge the fume cupboard of fumes on switch off
- 3 levels of software access, with separate password protection
- Unequalled versatility and programmability
- Volt-free outputs for alarm, airflow proven and on/off, plus 4 additional programmable relays
- 4 spare inputs with programmable states, alarms and scrolling messages
- 2 fully programmable spare keys
- Wipe-clean membrane operator keypad

* Speed changes only possible with the use of a suitable inverter drive



sales@fumair.co.uk

Tel: 01992 589115



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The Advantages of Inverter Control

Traditional fume cupboard extract systems use fans running at pole (full) speed with dampers fitted in the duct to control the amount of air being extracted from the fume cupboard. These systems are inefficient and often noisy. Belt-driven fans are also commonly used but these require regular maintenance and belt changes. The inverter offers many advantages over these traditional systems, including:

More control

The inverter allows fine-tuning of the speed and characteristics of the fan motor to achieve exactly the required extract volume at the fume cupboard.

Energy saving

The inverter allows the fan to run slower. A slower running motor absorbs considerably less energy, resulting in greatly reduced costs. By utilising multiple speeds linked to sash height massive energy savings can be achieved without comprising the use of the fume cupboard or the safety of the users.

The energy savings that can be gained by using our multiple speed inverter control systems are comparable to that achieved by variable volume (VAV) control systems - and at a fraction of the initial purchase price.

More protection

The inverter features over-current, over-voltage, under-voltage and thermal protection, auto-restart following a mains failure and onboard diagnostics.

Quieter extraction

Unlike traditional methods of fume extraction, the use of an inverter allows fine tuning of the speed of the fan; there is no need for noise-creating volume control dampers in the duct and, as the fan is generally running slower, the noise generated by the fan itself is greatly reduced.

Increased safety

Programmable “idle” speeds continue to vent the fume cupboard and any attached storage cabinets even when the fume cupboard is not in use, thus preventing the build-up of fumes and the potential for back draughts. For additional safety in the event of a spill within the fume cupboard a “Boost” button on the controller forces the fan to run at full speed.

No maintenance

There are no belts to maintain/replace as with traditional belt-driven fans. Unlike most VAV systems there are no moving parts in the control system.

Easy adjustment

The speed of the fan can be very simply and quickly adjusted to overcome dirty filters etc, or to achieve a new face velocity – all from the front of the fume cupboard, in real time.

Simplified wiring

The control system AND extract fan can derive their electrical power from a single 230v 1-phase power supply (usually above the fume cupboard).

Room extract

The system can be programmed to provide 24hrs a day, 7 days a week room extraction without the need for a separate, dedicated system.



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