



***Suggested Specification For Johndec Airconserver Energy Saving Sash System**

Airconserver Energy Saving Sash System

Fume cupboard(s) shall be fitted with the Johndec Airconserver Energy Saving Sash System, maintains a constant velocity across the fume cupboard sash.

The system shall be capable of giving an infinitely variable air volume in relation to the sash position whilst maintaining a constant face velocity of 0.5m/s across the open sash. When the sash is at its minimum opening of 50mm the extraction rate shall be automatically set to give a minimum of five fume cupboard chamber air changes per minute as required for compliance with AS2243.8-1992. The system must be capable of giving immediate response to any movement of the sash; therefore limit switches will not be acceptable.

A boost switch shall be incorporated in the fume cupboard control module. When the boost switch is activated it should override the automatic mode of the controller and instantly provide maximum air quantity from the extraction fan, irrespective of the sash position. When the boost switch is de-activated the fume cupboard should immediately return to its normal synchronised mode.

Should the Airconserver Energy Saving Sash System be inactivated by power failure or obstructed to disable it to open or close, the fume cupboard control module shall display "Damper Failure" and services to the fume cupboard will be isolated immediately, the fan will continue to operate.

The fume cupboard discharge velocity shall be constant, at a minimum of 10m/s as required by AS2243.8-1992.