
SafeAire™ GS Filtration Fume Cupboards (BS:7989:2001)

SafeAire™ GS Filtration Fume Cupboards eliminate toxic vapours and fumes at work

The SafeAire™ GS Range represent a new generation of fume cupboards, designed to ensure the highest degree of protection of laboratory operators from exposure to harmful concentrations of toxic vapours, fumes and particles. A horizontal-even-airflow cleanses the work surface inside the fume enclosures, removing all contaminants of both heavier- and lighter-than-air toxic gases, vapours, aerosols and particulates from the environment, in line with European, British and International safety standards.

Flexibility

SafeAire™ GS Fume Cupboards feature a multiple operational flexibility, in that they can be used:

(1) as ‘non-ducted’ filtration fume cupboards – in the “recirculatory” mode – to BS:7989:2001 - when toxic vapours, fumes and particulates are absorbed into filter-systems - carefully selected from a dozen different grades of carbon filters and HEPA filter combinations - and the clean air returned into the room – and

(2) as ‘ducted’ filtration fume cupboards in the “combined operational” mode – to BS:7258:1994 - i.e. when the contaminants are removed from the airstream by the filters and the filtered air is extracted outside either by internal fans or by roof-mounted remote-fans - if required for extra safety via transition adaptors to ductwork, or when venting of a few compounds as necessary which are not removed by carbon filters.

(N.B.: - For information on ‘standard Ducted Fume Cupboards’ (to conform to BS:7258:1994 and BS:EN:14175) or Fume Cupboards fitted with acid-fume scrubbers please contact us.

Versatility and full mobility

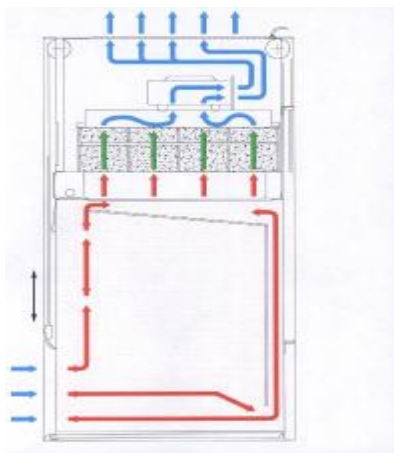
SafeAire™ GS Fume Cupboards are available as bench-top, free-standing or mobile fume cupboards, when mounted on their own integrated stands or trolleys. Operating in the “recirculatory” mode provides significant energy-saving besides protecting the environment – and provision of full mobility, invaluable in schools, colleges and universities. They can also be placed on existing work-surfaces as single or multiple bench-top units. Standard frontal widths are: 640mm, 800mm, 900mm, 1m, 1.2m, 1.5m, 1.8m. Constructed in sturdy interconnectable modular structures the SafeAire™ GS Filtration Fume Cupboards can be joined in a row to match the size of any required length of laboratory benching. They can also be erected in ‘Walk-In/Drive-In’ configurations for containment of toxic vapours and fumes from large floor-standing equipment, rotary evaporators, distillation rigs and endoscopy disinfectors.

SafeAire™ GS Filtration Fume Cupboards eliminate toxic emissions and protect operators and the environment

High-efficiency impregnated/activated-carbon filters (Main filters and optional security carbon filters) ensure safety of personnel as required under COSHH Regulations - when toxic contaminants have been correctly identified and suitable filter-systems adequately selected. The weight and volume of activated carbons employed in SafeAire™ GS Filtration Fume Cupboards (from 30 – 45 – 60 kg carbons per fume cupboard) are comparable to the weight and volume of carbons used in remote roof-mounted “zero-emission” filter-systems employed with ducted fume cupboards.

SafeAire™ GS1000-1200-1500-1800 Filtration Fume Cupboards

- ∅ Suspended Counterweighted gliding Safety Glass Sashes to BS:7258:1994
- ∅ Optional Stands or Trolleys or Benches with ventilated under-bench cupboards and services
- ∅ Automatic VAV (Variable Air Volume control) ensures constant face velocities at all sash height openings maintaining high fume containment factors
- ∅ Automatic electronic touch-screen controls, alarm systems and status reports displayed
- ∅ Multilayered Filter Systems (see Guide)
 - Main & Security Carbon Filters
 - Carbon & HEPA Filters
- ∅ Auxiliary Extraction Devices ensure effective extraction and uniform airflow
- ∅ Tested & Certified to BS:7258:1994 Parts 1 & 4 for fume-containment, to DIN:12924 and BS:7989:2001



SafeAire™ GS1200 Filtration Fume Cupboard

With counter-weighted suspended safety-glass sash To BS:7258:1994. Automatic VAV (Variable Air Volume Control) incorporated in electronic Timelog/PCB with LCD. Tested/Certified to BS:7989:2001 and BS:7258:1&4:1994.

Auxiliary Extraction Devices ensure effective extraction of both lighter-than-air and heavier-than-air toxic gaseous-phase compounds and particulates, effectively scavenging heavy solvent-vapours from the work-top.

Height of Freestanding GS Models:

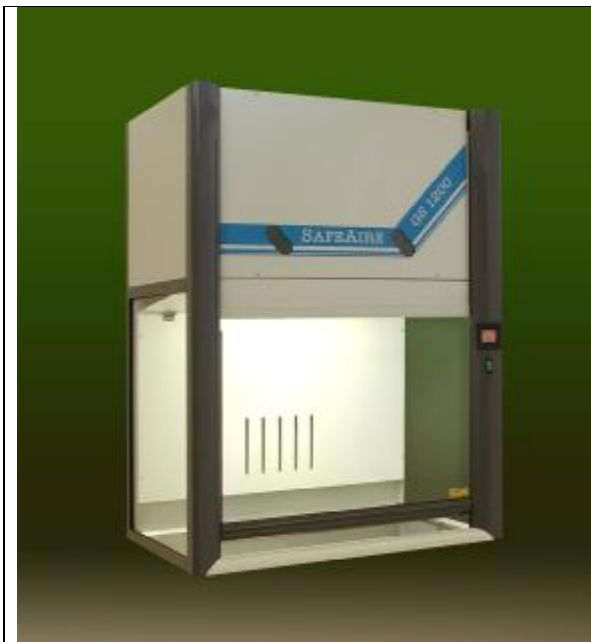
- 2.4 metre when fitted on 900mm height stands/trolleys
- 2.28 metre when fitted on sitting-work-height bench

GS Model	Dimensions (wxdxh) mm		Weight +Filter
	External	Internal	
1000	1000x754x1500	950x650x850	98kg
1200	1200x754x1500	1150x650x850	126kg
1500	1500x754x1500	1450x650x850	145kg
1800	1800x754x1500	1750x650x850	180kg

Face Velocity	Airflow		Power supply		
	Air Vol. m³/h	Voltage	Current	Power	
0.3 – 0.6m/s	500 – 720	230V-50Hz	1.4A	0.34kW	
0.3 – 0.7m/s	576 – 860	230V-50Hz	2.4A	0.56kW	
0.3 – 0.6m/s	720 – 1075	230V-50Hz	2.4A	0.56kW	
0.3 – 0.7m/s	864 - 1290	230V-50Hz	4A	0.85kW	

Gruppo Strola – EN ISO 9001 – ISO 14001 - BS 7989:2001 – BS 7258:1994 (1 & 4) - DIN 12924 – DIN 12927 – ANSI/ASHRAE 110 - 'CE'

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GS1000–GS1200–GS1500–GS1800 Models:

- Benchtop SafeAire™ GS1200 (H: 1.5 m)
- Freestanding SafeAire™ GS1200 (H: 2.4 m)
- Freestanding SafeAire™ GS1500 (H: 2.4 m)
on vented under-bench storage cupboard



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