
SafeAire™ 'S' and 'SP' Ducted Fume Cupboards

(BS:7258:1994 • DIN:12924 • ANSI/ASHRAE 110:1995 • EN 14175:2004)

SafeAire™ 'S' and 'SP' Ducted Fume Cupboards vent toxic vapours, gases, fumes and particulates to protect laboratory operators

SafeAire™ 'S' and 'SP'-range Ducted Fume Cupboards are designed to ensure the highest degree of protection of laboratory operators from exposure to harmful concentrations of toxic vapours, gases, fumes and other harmful airborne compounds and particulates. 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.



Freestanding S1200 Ducted Fume Cupboard
on Base-Stand (Height: 2.4 m)



Benchtop S1000

Benchtop S1200

Benchtop S1500

Benchtop S1800

SafeAire™ 'S' and 'SP' Ducted Fume Cupboards are protective ventilated enclosures providing for the safe and controlled release of toxic contaminants released or generated within them to outside atmosphere - via ductwork and remote extractor fan – complying with requirements specified in BS:7256:1994, DIN:12924 and EN 14175:2003 Part 2. -

- **Multipurpose Standard 'S' Schools fume cupboards (8 models)**
- **All-Polypropylene 'SP' Fume Cupboards for acid digestions**
- **1.5 m height 'Bench-top' 'S' and 'SP' Fume Cupboards**
- **2.4 m height 'Free-standing' bench-type and walk-in fume-cupboards**
- **CAV models with Stainless Steel by-pass grille for constant velocity fans**
- **VAV fume cupboards suitable to run with Variable Air Volume control**

Portability and Versatility

SafeAire™ 'S' and 'SP' Ducted Fume Cupboards are available as 1.5 m height 'bench-type' or benchtop, 2.4 m height 'free-standing', "low-level" and "walk-in" fume cupboards, when mounted on their own base-stands with variable height or removable worktops.

The 'benchtop' models can be placed on existing work-surfaces as single or multiple units. Standard frontal widths are: 1 m, 1.2 m, 1.5 m, 1.8 metre.

Sturdy metal structure in strong corrosion resistant construction

Constructed in sturdy inter-connectable modular structures the SafeAire™ 'S' and 'SP' Ducted Fume Cupboards can be joined in a row to match the size of any lengths 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.

- **Constant even airflow at all sash-height openings**
- **High air exchange efficiency**
- **High fume containment factors**
- **SF₆-tested and certified to BS 7258:1994, DIN:12924 & ANSI/ASHRAE 110:1995**
- **Building Bulletin # 88 of Architects & Building Branch of Dept. of Educ. & Employment**

Standard 'S'-range – Multipurpose Ducted Fume Cupboards

The cold-rolled steel structures, outer panelling and aluminium profile components of the 'Standard S-range' ducted general purpose fume cupboards are epoxy-powder-coated for maximum corrosion resistance. Worktops and by-pass-grilles are made in AISI 316 grade Stainless-Steel. The suspended, counter-weighted transparent sashes and side-window panels are in toughened safety glass. Structurally identical to the SafeAire™ GS Filtration Fume Cupboards the 'S'-range Ducted Fume Cupboard can also be coupled and inter-connected with these within the same bank of fume cupboards – with side-sashes between them serving as pass-through hatches.

Flexibility – CAV and VAV options

SafeAire™ 'S' and 'SP' Ducted Fume Cupboards offer flexibility – as they can be installed:

- (1) as ducted CAV fume cupboards** – fitted with Stainless Steel by-pass-grilles for connection to constant velocity fans – (BS:7258:1994)
- (2) as ducted VAV fume cupboards** – suitable to be fitted with any specified VAV-control system (Variable Air Volume) for connection to variable speed fans – providing constant face velocities - as sash-movement automatically determines optimum volume-flow-rates (EN 14175:2003).

All-Polypropylene 'SP'-range – Acid Digestion Fume Cupboards

For processes involving extensive use of HCl and Chlorine and for acid-digestions the worktop, rear-panelling, back-baffle, internal and external structure, soffit and exhaust plenum are all made in 100 % stress-relieved Polypropylene – with plastic by-pass-grille (if fitted) for operation with a constant velocity plastic extractor fan. The SP Models are suitable for operation with remote roof-mounted acid fume scrubbers, or slimline rear-mounted packed scrubbers.

SafeAire™ SP-range Ducted Polypropylene Fume Cupboards for Acid Handling and Acid-Digestions



- Corrosion resistant Ducted Fume Cupboards in 100 % stress-relieved Polypropylene
- Suitable for handling high concentrations and high volumes of inorganic/mineral acids
- Polypropylene worktop fitted with dripcups, sinks, acid-resistant taps and services
- Vertically gliding, suspended-counterweighted BS:7258-type sash in transparent PVC
- Polypropylene back-baffle ensures even airflow pattern of high degree of laminarity
- The two vertical front columns housing the sash-side tracks are removable
- Sealed light-unit protected by transparent PVC shield
- Explosion relief panels

Dimensions

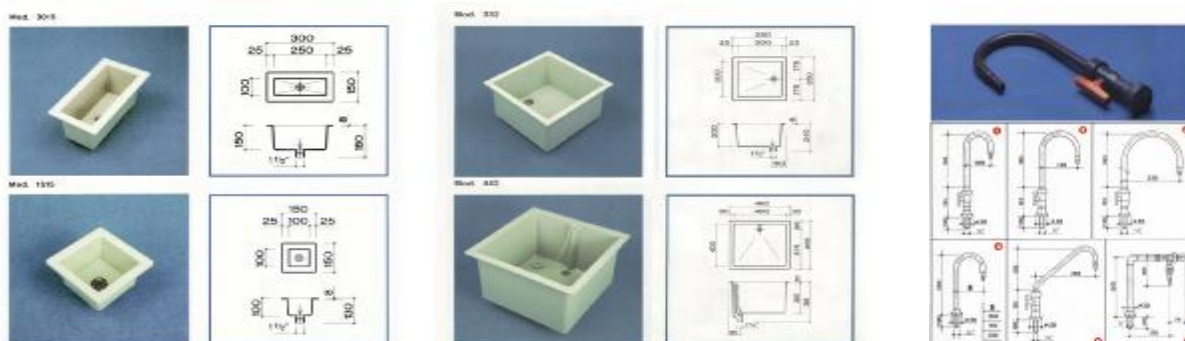
SafeAire™	SafeAire™	Dimensions (width x depth x height) mm			
		Ducted S	Ducted SP	External	Internal
S1000	-			1000 x 754 x 1500	950 x 650 x 1200
S1200	SP1200			1200 x 754 x 1500	1150 x 650 x 1200
S1500	SP1500			1500 x 754 x 1500	1450 x 650 x 1200
S1800	SP1800			1800 x 754 x 1500	1750 x 650 x 1200

External height when fitted on base-stands: 2.4 metre

The all-Polypropylene SafeAire™ SP Ducted Fume Cupboards are available with polypropylene sinks, drip-cups and taps and the bench-top models can be placed on polypropylene base-stands incorporating acid storage underbench cupboards with ventilation kits.



Models	Dimensions in millimetres		
Code	Width	Depth	Height
SP-1200	1200	750	1500
SP-1500	1500	750	1500
SP-1800	1800	750	1500
Dripcup-1515	150	150	130
Dripcup -3015	300	150	180
Sink - 332	350	350	240
Sink - 443	460	400	300



Polypropylene Dripcups & Sinks with waste outlets and overflow plugs

Polypropylene Taps

N.B.: - For information on ducting and on 'Zero Emission' solutions – i.e.:

- carbon and HEPA-filtration systems,
- SafeAire™ GS-range Filtration Fume Cupboards (to conform to BS:7989:2001),
- Stainless Steel Downflow Benches, plastic extractor fans and
- Acid-fume scrubbers – please contact us by E-mail, fax or phone:

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