



Compact
filtration fume
cupboard
GS 900



**Technical description common
features of GS900**

The GS900 filtration fume cupboard is a safety device able to protect laboratory operators from the risk of inhaling harmful volatile chemicals directly recycling the laboratory air with a filtration system. It is completely mobile so it can be moved wherever protection is needed.

With a 360° visibility of the worktop it is the best choice in case of scholastic purpose.

The molecular air filtration process takes place through an adsorption process in one size "B" (450x600x100 mm) highly efficient activated or impregnated carbon filters. Preliminary filtration to remove environmental dust has carried on with one size "B" (450x600 mm) electrostatic prefilters with extremely high efficiency of 95% on particles of 0.5 µm. The unit is also able to equip additional safety filters (carbon filter or HEPA) downstream or upstream the main filter.

The filtered air extracted by M900 is totally recycled without affecting the operation of the air handler (HVAC)

The M900 is in comply with:

- CE Mark under 2006/42/EEC Machinery Directive

- 2006/95/EEC Low Voltage Directive

- 2004/108/EEC Electromagnetic Compatibility Directive

- CEI EN 61010 -1 Prescriptions regarding the safety of electrical measurement, control and laboratory equipment, Classification C.E.I.66.5

The M900 is certified to:

- DIN 12924, certificate test report number INV/DIN12924/261 from Invent UK Ltd, Imperial College London (UK)

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-BS7989/2001, certificate test report number 13/02 from *Bristol University*
 The filters are certified with regard to various types impregnated under BS7989/2001 (in accordance with the standard for the specific application), with tests demonstrating an efficiency of 99%.
 The fume cupboard is supplied complete with Operator's Manual and Safety Log Book, for recording routine inspections and certification of conformity with the relevant directives (CE marking).

Construction

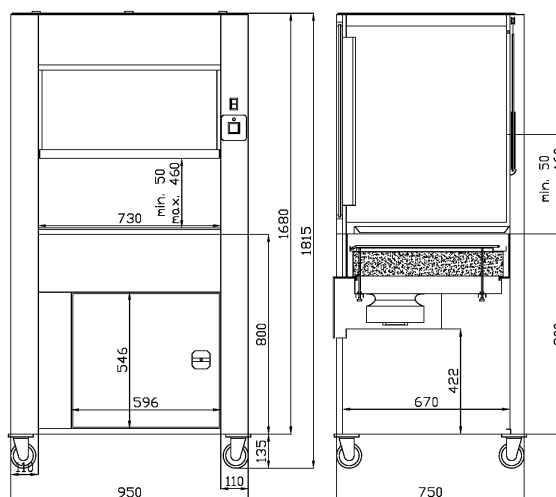
- Aluminium extruded uprights and Fe37 steel frame painted with epoxy- polyester powder.
- Side, rear and frontal panels made in 3+3+0.38 mm PVB safety glass.
- Back baffle made in safety glass
- Uprights colour: RAL7015
- Steel frame colour: RAL7035
- The frontal sash is counterweighted to be manually lowered or raised without any effort
- Both uprights and sash handle have an especially designed aerodynamic shape that allow to achieve the best containment

Worktops

- Removable, autoclave-ready tray worktops with fluid containment rims (capacity 10 l/m²) in AISI 304 stainless steel (standard included).
- Availability of polypropylene, monolithic ceramics or safety glass reinforcement for INOX worktop (optional).

Electric control

The GS900 is equipped with an electromechanical hour counter to manage the routine test and filter checks and a *low air flow alarm* that engage a red light in case of face velocity below 0.3 m/s.
 Three-step fan velocity triggered by raising/lowering of frontal sash in order to keep the face velocity at a constant value for any opening height of the frontal sash.



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