

### Fume cupboards

Stainless or acid-proof steel is used as fume cupboard material to meet the strict requirements of laboratories and hospitals in terms of chemical resistance and hygiene. If necessary the worktop and sink material can also be ceramic.

Fume cupboards are available with straight or sloped front wall. Models with straight wall are well suited for large equipment. Sloped front wall facilitates the sedentary work (see the photo). The standard and additional accessories are listed in the Technical information section under. Cabling and pipe lines are running inside the double structure of rear and side walls. The pool like structure of the worktop makes it easier to keep clean.

In addition to cabinets and drawers fireproof cabinets can also be placed at the foot of the fume cupboard for storing of flammable liquids. Cabinets can be connected to the fume cupboard's ventilation.

Special fume cupboards are available e.g. for forensic research, isotope laboratories or as environments for larger equipment



Please note the cabinets in the picture are equipped with special equipment.

### Technical information

Models	1010 Fume cupboard straight front wall 1015 Fume cupboard sloped front wall 1015 Standard fume cupboard models: width 1200 mm, 1500 mm and 1800 mm are equipped with exhaust air monitoring and alarm system, and if necessary with one Broen laboratory faucet and a slope sink
Materials	Stainless steel AISI 304 Acid proof steel AISI 316
Widths	Standard 1200, 1500 and 1800 mm Special widths 800–3000 mm
Depths	Standard 790 mm Special depths 600–1400 mm
Heights	Straight front wall 2300 mm Sloped front wall 2220 mm
Height of the worktop	Standard 720 and 900 mm Height adjustment range 300 mm (-200 – +100 mm) Special heights 350–1100 mm
Hauling dimensions	Standard cupboards (width +200 mm) x 900 x 2400 mm The cupboard can be detached into two parts for easier hauling (not applicable for height adjustable models)

Standards and directives taken into account	<p>EN 14175-2 Fume cupboards          EN 60204-1 Electrical equipment of machines          ISO 12100 Safety of machinery          Low Voltage Directive 2014/35/EU          EMC Directive 2014/30/EU          Machinery Directive 2006/42/EU</p>
Certificates	<p>I.F.I. Institut für Industrieaerodynamik GmbH          Type test approval (EN14175-3) for standard fume cupboards models.</p>
Accessories included	<p>Lighting, pressure difference gauge, operation switch 0-1-2, signal light, double socket outlet</p>
Accessories	<p>ATEX-protection (inside)          Cold section          Data connections          Double socket outlet          Height adjustment          HEPA-filter          Light intensity 1000 lx          Lock of the sash in upper position          Painted interior          Side walls, glass          Sink          Water taps          Ventilation connection to cabinets or formalin trolley          Waste bin hole with lid</p>
Lighting	<p>25 W LED, light intensity on worktop 600 lx (fume cupboards under 1500 mm)</p>
Ventilation connection	<p>Widths under 1000 mm 1 pc d=160 mm          Widths 1000–2000 mm 2 pcs d=160 mm          Widths over 2000 mm 3 pcs d=160 mm          If necessary connections can be joined together (adds +300 mm to the height)</p>
Exhaust air volume	<p>Nominal air volume 500 m<sup>3</sup>/h (140 l/s) per meter of fume cupboard width. This results a flow rate of 0,5m/s with 30 cm sash opening and 0,3m/s with full 50 cm sash opening.          Standard fume cupboard 1200mm 600 m<sup>3</sup>/h          Standard fume cupboard 1500mm 750 m<sup>3</sup>/h          Standard fume cupboard 1800mm 900 m<sup>3</sup>/h</p>
Electrical connections	<p>Lighting 230 V, 1N, 50 Hz          Sockets 230 V, 1N, 50 Hz          Separate connection boxes for both on top of the fume cupboard</p>
Connections for water and drain	<p>The size of the connection depends on tap configuration          Water line connection h=2400 mm on top of the cupboard or under the worktop</p>
Water and drain connections	<p>Drain connection according to the sink configuration          Water line connection h=2400 mm on top of the cupboard or under the worktop          Drain connection according to the sink configuration</p>

Gas connections

The size of the connection depends on the socket configuration

Connection point h=2400 mm on top of the cupboard

Control of the ventilation

Standard: signal light, pressure difference gauge and operation switch (0-1-2)

As an option an automatic air volume adjustment device can be installed

Manufacturer

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