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 radiation therapy units, pathology laboratories and as environments for larger equipment.

Trolleys that can be connected to fume cupboards are also available for transporting samples and storing them during the work phase.

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
Widhts	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 700 and 900 mm
	Height adjustment range 200 or 300 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	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
Certificates	I.F.I. Institut für Industrieaerodynamik GmbH
	Type test approval (EN14175-3) for standard fume cupboard models.
Accessories included	Lighting 1000 lx, pressure difference gauge, operation switch 0-1-2, signal light, double socket outlet
Accessories	ATEX-protection (inside)
	Cold section
	Connections (data-, ethanol, gas-, compressed air-)
	Ceramic worktop (and sink)
	Double socket outlet
	Drains (formalin, special waste, water)
	Fire proof cabinet
	Height adjustment
	HEPA-filter
	Light intensity >1000 lx
	Lock of the sash in upper position
	Painted interior
	Pass through hatch
	Radiation protection
	Scale platform, stone
	Shelves
	Side walls, glass
	Sinks (stainless or acid proof)
	Slop sink
	Taps (ethanol, formalin, water, water-suction)

	Ventilation connection to cabinets or formalin trolley
	Waste bin hole
	Waste bin for confidential material
	Electric front glass
	Automatic closing of the front glass
	Bent front glass
Lighting	25 W LED, light intensity on worktop 1000 lx (fume cupboards under 1500 mm)
Ventilation connection	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)
Exhaust air volume	Nominal air volume 500 m^3/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^3/h
	Standard fume cupboard 1500mm 750 m^3/h
	Standard fume cupboard 1800mm 900 m^3/h
Electrical connections	Lighting 230 V, 1N, 50 Hz, 10 A
	Sockets 230 V, 1N, 50 Hz, 10 A or 16 A based on the connected equipment
	Separate connection boxes for both on top of the fume cupboard
Water and drain connections	The size of the connection depends on tap configuration
	Water line connection h=2400 mm
	on top of the cupboard or under the worktop
	Drain connection according to the sink configuration
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	Kavika HealthCare Oy, Mursketie 6, 15860 Hollola, contact@kavikahealthcare.fi, www.kavikahealthcare.fi