



APEX-2 Fume Cupboards



ISO 9001
ISO 14001
ISO 45001





Designed in collaboration with a leading UK university, the APEX-2 Premium Fume Cupboard has a single skin chamber, giving a much wider working area than a conventional twin skin design. For example, an 1800mm wide APEX-2 has a wider internal chamber than a conventional 2000mm wide fume cupboard. It also has a generous working height and depth, and its glass sides make for a lighter workspace.

The energy-efficient Variable Air Volume (VAV) unit has a glass fixed panel above the sliding sash, providing full-height viewing access to the internal chamber. Constant Air Volume (CAV) units have an aluminium bypass grille.

Installation & Relocation

To future-proof your laboratory the APEX-2 is easily relocatable. Instead of traditional on-site assembly, the APEX-2 units arrive in two parts. This allows quick and easy installation with either a FLT or pump truck. Relocation is also quick and simple, removing the worry of damaged or lost parts.

Performance

The curved radius profile entrance to the fume cupboard chamber gives excellent levels of containment. The unit can be operated at low volume flow rates down to 0.3m/s and the range has been tested to BS EN 14175 with excellent results. The key Robustness of Containment Protection Factor (PFR) reading is 1,500,000 for an 1800mm wide version at 0.3m/s face velocity.

All This as Standard

- Carcass constructed from polyester-coated zintec steel
- Interior liners & baffles from Trespa® TopLab® BASE solid grade laminate, complete with toughened glass side panels
- Electrics pre-wired to a 5-way consumer unit complete with built-in RCBOs & MCBs
- Energy-efficient, long-life LED flat panel lighting
- Cast epoxy worktop with raised edges
- Visual and audible low airflow alarm
- Water and gas services
- Power sockets as standard
- 316-grade stainless steel hinged lower aerofoil for cable entry
- 316-grade stainless steel tissue guards to prevent debris from being drawn into the extract ductwork
- Hinged drop-down upper panel for quick, easy maintenance and inspection
- State-of-the-art appearance and a choice of colours
- 12-month free warranty

Controls

- Advanced programmable control panel
- Alarms for air velocity, sash high, and fan operation
- Alarm levels reported on the display
- BACnet MS/TP and Modbus RTU available

Customise to your application

- Bench-mounted, walk-in, & height adjustable models
- Variable Air Volume (VAV) technology for energy efficiency, Constant Air Volume (CAV), and Low Flow designs
- Bespoke and larger size units are available on request – tell us your preferred dimensions
- Recirculating carbon-filtered systems where ductwork cannot be installed
- Automatic sash closure with PIR presence sensor
- Automatic fire suppression system (dry powder, CO2, or foam)
- Worktops from cast epoxy, Trespa® TopLab® PLUS, ceramic, stainless steel, polypropylene or PVC-u
- Broen, Vacuubrand and Spectrolab services
- Drip cups and sinks
- Standard single socket outlets, commando socket outlets, data sockets and emergency stop button
- Alternative sash configurations including framed sash, framed sash with horizontal sliding glass panels, split sash, triple sash and combination sash systems
- Scaffold bosses (polypropylene or stainless steel) and scaffold frames
- Polypropylene tissue guards
- Standard steel storage cupboards, polypropylene acid storage cupboards, fire-rated solvent storage cupboards or vac pump cupboards
- Pass through ports in side panels or from front panel into the chamber
- Anti-shatter film for glass panels
- Colour matching to your branding in RAL colours

Servicing

A Clean Air service includes much more than simply face velocity testing – ask us for details

- Full service and maintenance packages available
- Options to lock in prices
- Highly trained test engineers
- Never over-run your test date with our free test scheduling service
- Most makes and models of fume cupboard serviced

APEX-2 Fume Cupboards Technical Specification



The APEX 2 fume cupboard comes in standard sizes and can also be manufactured to your bespoke size requirements – just ask us for more information

Dimensions APEX 2

External width	1000mm	1200mm	1500mm	1800mm	2000mm	2400mm
External height	2650mm					
External depth	900mm					
Chamber width	965mm	1165mm	1465mm	1765mm	1965mm	2365mm
Chamber Height	1280mm (Worktop to Soffit)					
Chamber depth	640mm (Sash to Baffle)					
Sash Opening Width	700mm	900mm	1200mm	1500mm	1700mm	2000mm
Max Sash Opening Height	845mm					

Extract Volumes

	Face Velocity	1000mm	1200mm	1500mm	1800mm	2000mm	2400mm
Extract Volumes at a 400mm sash opening	0.3m/s	0.101m ³ /s	0.130m ³ /s	0.173m ³ /s	0.216m ³ /s	0.245m ³ /s	0.303m ³ /s
	0.35m/s	0.118m ³ /s	0.152m ³ /s	0.202m ³ /s	0.252m ³ /s	0.286m ³ /s	0.353m ³ /s
	0.4m/s	0.135m ³ /s	0.173m ³ /s	0.231m ³ /s	0.288m ³ /s	0.327m ³ /s	0.404m ³ /s
	0.5m/s	0.168m ³ /s	0.216m ³ /s	0.288m ³ /s	0.360m ³ /s	0.408m ³ /s	0.504m ³ /s
Extract Volumes at a 500mm sash opening	0.3m/s	0.126m ³ /s	0.162m ³ /s	0.216m ³ /s	0.270m ³ /s	0.306m ³ /s	0.378m ³ /s
	0.35m/s	0.147m ³ /s	0.189m ³ /s	0.252m ³ /s	0.315m ³ /s	0.357m ³ /s	0.441m ³ /s
	0.4m/s	0.168m ³ /s	0.216m ³ /s	0.288m ³ /s	0.360m ³ /s	0.408m ³ /s	0.504m ³ /s
	0.5m/s	0.210m ³ /s	0.270m ³ /s	0.360m ³ /s	0.450m ³ /s	0.510m ³ /s	0.630m ³ /s

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