

APEX-3 Fume Cupboard

APEX-3

Designed in collaboration with end users, the APEX-3 Premium Fume Cupboard offers a wider working area than a conventional twin skin model. For example, the 1800mm wide APEX-3 has a wider internal chamber than a conventional 2000mm wide fume cupboard. It also has a generous working height and depth. The APEX-3's twin skin side wall allows service outlets to be side-mounted.

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-3 is easily relocatable. Instead of traditional on-site assembly, the APEX-3 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.



Customise to your application

- Variable Air Volume or Constant Air Volume
- Automatic sash closure with PIR presence sensor
- Broen, Vacuubrand and Spectrolab services
- Dripcups or sink
- Standard single socket outlets, 3Ph socket outlets, data sockets and emergency stop button
- Standard sash, framed sash, framed sash with horizontal sliding glass panels or a split sash
- Cast Epoxy, Trespa® TopLab® PLUS, ceramic, stainless steel, polypropylene or PVC worktops
- Automatic fire suppression system (dry powder or CO2)
- Standard steel storage cupboards, polypropylene acid storage cupboards, fire rated solvent storage cupboards or vac pump cupboards
- Pass through ports in side panels
- Scaffold bosses and scaffold frames

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Controls

- Flush membrane programmable control panel with digital airflow display
- Visible & audible alarms for air velocity, sash high and fan operation
- Alarm levels reported on the display
- BACnet MS/TP & Modbus RTU available

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 an 8-way consumer unit complete with built-in RCBOs & MCBs
- LED flat panel lighting
- 316-grade stainless steel hinged lower aerofoil cill for cable entry
- 316-grade stainless steel tissue guards to prevent debris being drawn into the extract system
- Unique drop down front service panel for access to the consumer unit, light and any other items fitted above the soffit
- State of the art appearance and a choice of colours



Maintenance

Clean Air offers professional service and maintenance for fume cupboards, with fully trained and experienced engineers. Ask us for more information.

Dimensions APEX 3

External Width	1000mm	1200mm	1500mm	1800mm	2000mm	2400mm
External Height	2650mm					
External Depth	900mm					
Chamber Width	920mm	1120mm	1420mm	1720mm	1920mm	2320mm
Chamber Height	1280mm (Worktop To Soffit)					
Chamber Depth	640mm (Sash To Baffle)					
Sash Opening Width	700mm	900mm	1200mm	1500mm	1700mm	2100mm
Max Sash Opening Height	850mm					

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

