



### APEX-4

Designed in collaboration with end users, the APEX-4 Premium Fume Cupboard has a single skin chamber, giving a much wider working area than a conventional twin skin design. For example, the 1800mm wide APEX-4 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 fixed glass panel above the sliding sash, providing full height viewing access to the internal chamber. Constant Air Volume (CAV) units have an aluminium compensating bypass grille.

### 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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## APEX-4 Fume Cupboard

### 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 4

|                                |                            |        |        |        |        |        |
|--------------------------------|----------------------------|--------|--------|--------|--------|--------|
| <b>External Width</b>          | 1000mm                     | 1200mm | 1500mm | 1800mm | 2000mm | 2400mm |
| <b>External Height</b>         | 2650mm                     |        |        |        |        |        |
| <b>External Depth</b>          | 900mm                      |        |        |        |        |        |
| <b>Chamber Width</b>           | 965mm                      | 1165mm | 1465mm | 1765mm | 1965mm | 2365mm |
| <b>Chamber Height</b>          | 1280mm (Worktop To Soffit) |        |        |        |        |        |
| <b>Chamber Depth</b>           | 640mm (Sash To Baffle)     |        |        |        |        |        |
| <b>Sash Opening Width</b>      | 700mm                      | 900mm  | 1200mm | 1500mm | 1700mm | 2100mm |
| <b>Max Sash Opening Height</b> | 790mm                      |        |        |        |        |        |

#### Extract Volumes

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

