Contained Air Solutions
part of the Breeze Group

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LAMINAR FLOW SOLUTIONS

Laminar flow cabinets and solutions, such as booths and modules, provide a continuous stream of filtered, particle-free clean air that flows uniformly over the work surface, ensuring sensitive materials are protected from contamination.

With integrated service connections and near-instant sterile working conditions upon startup, laminar flow solutions from Contained Air Solutions are available in a variety of versatile configurations to suit any requirement.

Configurations available:

- Vertical Laminar Flow Cabinets
- Horizontal Laminar Flow Cabinets
- Hybrid Laminar Flow Solutions
- Laminar Flow Booths
- Laminar Flow Modules
- Bespoke Laminar Flow Solutions



Vertical



Horizontal

Product protection

Compliant with BS EN ISO 14644-1 standards

ISO Class 5 or 4 clean air environment

FEATURES INCLUDE

- **Filter Monitoring -** Filter pressure monitoring available to monitor performance
- **Advanced Controls -** Tactile switches or touchscreen control options for ease of operation
- **High Efficiency Filtration -** High efficiency H-14 HEPA filtration with prefilter to extend filter life
- **LED Lighting -** Energy efficient LED lighting
- **Variable Speed Fans -** Energy efficient EC fans with variable speed to maximize filter lifetime
- **Safe Operation -** With audio and visual airflow warning alerts
- **Maximum Visibility -** With toughened glass side panels
- **Easy to Clean -** Stainless steel corrosion-resistant inner worksurface
- **Service Connections -** Electrical power sockets, service taps, vacuum, gas valves, and data connections for convenient workflows
- **Support Stand -** Fixed or DDA compliant motorised height adjustable to support any working arrangement
- **Convenient Disinfection -** Integrated UV sterilization option

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HORIZONTAL LAMINAR FLOW AIRFLOW

Horizontal Laminar Flow Cabinets create a clean, particle-free environment by directing HEPA-filtered air horizontally across the work surface. This unidirectional airflow ensures a sterile workspace, making them ideal for applications where product protection is the priority.



VERTICAL LAMINAR FLOW AIRFLOW

Vertical Laminar Flow Cabinets provide a clean, particle-free environment by directing HEPA-filtered air downward across the work surface. This unidirectional airflow prevents product contamination while reducing the risk of particles being blown toward the operator.

Blue: Inward environment air
Green: Filtered clean air



APPLICATIONS INCLUDE:

- Sterile Product Preparation
- Microbial Research
- Tissue Culture and Cell Culture
- Electronics Manufacturing and Repair

PRODUCT SPECIFICATION *Typical specification based on standard models*

Cabinet size	900mm	1200mm	1500mm	1800mm
External w/d/h (mm)	900/750/1302	1200/750/1302	1500/750/1302	1800/750/1302
Internal w/d/h (mm)	800/500/730	1100/500/730	1400/500/730	1700/500/730
Weight (kg)	175	200	225	250
Power consumption (kW)	0.09	0.13	0.16	0.19
Noise level (dBA)	<60			
Light level (lux)	800			
Air velocity (m/sec)	0.45			
Voltage AC	230V			
Filtration	H-14 HEPA (standard) @ 0.3µ 99.995% efficiency (ULPA available)			
Construction	2mm mild steel			
Finish	Traffic white RAL 9016			
Inner worksurface	Grade 316 stainless steel			
Side windows	5mm UV resistant toughened glass			
Standard	BS EN ISO 14644-1 Class 4 or 5. EU GMP Grade A			