

VERTICAL LAMINAR FLOW CLEAN AIR ENCLOSURES

Unidirectional flow enclosures designed to order to any size and complexity with a choice of materials and mountings and with soft or rigid side walls

VLF E



APPLICATIONS

Activities, processes or equipment which require ultra clean or aseptic conditions in many hi-tech industries including pharmaceutical, biotech, medical device, semi-conductor and aerospace

VLF E unidirectional flow enclosures are a simple means of providing clean air zones in any background environment and also represent an economical alternative to cleanrooms

PRINCIPAL FEATURES

- Unidirectional downflow with HEPA and ULPA filters
 - Prefilters to extend life of main filters
 - Choice of materials
 - laminated high density board
 - polyester coated mild steel
 - stainless steel
 - Choice of mountings
 - ceiling
 - C-frame
 - box section legs
 - structural
 - Choice of walls
 - partition walls
 - slatted PVC drapes
 - optical quality PVC zipped curtains
 - Speed controlled fans for optimum performance
 - Sectional construction for easy delivery and assembly on site
- Extremely short lead times are possible

TYPICAL DIMENSIONS (Box Section Legs)

Single Ended Modules

Double Ended Modules

		Nominal Filter Area						Nominal Filter Area			
		1.2 x 0.9	1.5 x 1.2	1.8 x 0.6	1.8 x 1.2	2.1 x 1.5	2.4 x 1.2	2.4 x 1.8	3.0 x 2.4	3.7 x 2.4	3.7 x 3.0
L	1420mm	1725mm	2030mm	2030mm	2335mm	2640mm	2640mm	L	3250mm	3860mm	3860mm
W	1115mm	1420mm	810mm	1420mm	1725mm	1420mm	2030mm	W	2640mm	2640mm	3250mm

Laminar flow cabinets and enclosures

Microbiological safety cabinets

Isolators

Downflow booths

Fume cupboards

Bespoke equipment

Clean rooms

Containment suites

Facility design, build and installation

Service and testing

Spares and consumables

Commissioning

Validation

Training

Regulatory Advice

Purchase, rent or lease solutions

OPTIONS

- Fan box at one end, both ends or on top to suit application
- Internal change areas
- Pass through hatches
- Plant fed air supply.
- Digital velocity monitoring devices
- Castors to facilitate mobility (for smaller units mounted on C-Frames or box section legs)
- Any other particular design requirement

CONSTRUCTION

304 or 316L stainless steel or polyester coated mild steel or laminated high density mineral board

INSTRUMENTATION AND CONTROLS

Magnehelic gauge to indicate pressure drop across main filters.
Fan speed controllers.
Switches for lights and fans.

NOISE LEVEL

Lower than 60 dB(A)

LIGHTING

1000 Lux

ELECTRICAL SUPPLY

220/240V, single phase, 425V, 3 phase or any other international requirement

STANDARDS COMPLIANCE

- BS EN ISO 14644 ISO Grade 5 air quality or better
- EC GMP Grade A air quality
- Electrical wiring designed to IEC 61010