

Шкафы для защиты продукции с вертикальным ламинарным потоком серии VLF R

Технические характеристики

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VLF R Series

VERTICAL LAMINAR FLOW (VLF) PRODUCT PROTECTION CABINET



Clean Air & Containment

When product protection is critical

The VLF R Series from Envair Technology guarantees superior product protection by offering a positive pressure particle-free working area achieved by initially pulling air through a G4 pre-filter (EN779:2012) and then pushing air through a High Efficiency Particulate Air (HEPA) filter type H-14 (BS: EN: 1822). This provides vertical laminar downflow air into the working area at a homogenous air speed across the filter face in a range of 0.36 m/s to 0.54 m/s.

The VLF R Series is designed for NHS hospital pharmacies for CIVAS (Central Intravenous Additive Service), TPN compounding and bagging, preparation of IV solutions and eye-drops, ampoule filling, etc.

It has been adapted and customised for integration of paperless medication workflow solutions such as BD CATO™, and automated compounders such as the Baxter ExactaMix® 2400.

The VLF R Series design is ideal when freedom of movement into and in the working area is paramount and when sited in a Grade B cleanroom. Otherwise you should consider our range of positive pressure isolators.

DESIGNED WITH CLEANROOMS IN MIND

The VLF R Series has been designed with the application in mind. All materials are specified to be non-shedding and resistant to common cleaning chemicals, with low noise and low energy consumption as standard with EC/DC fans and LED lighting (providing <750 lux in the work zone). This provides the most comfort and safety possible.

The VLF R Series is typically built to a clients URS, often including polished 316L stainless steel internally and externally, vari-height electrically operated height adjustable support frame, CCTV camera, sealed touchscreen monitor in rear wall of main chamber, power and data connection.



The VLF R Series offers a positive pressure working area for hospital pharmacies

KEY FEATURES

- Designed and built in the UK, with nationwide UK service support
- Airflow velocity at 0.45m/s maintaining a perfect Grade A work area suited for 'open' processing tasks and aseptic manipulation of components
- All dimensions can be customised to suit application and any large devices required in the work area
- Controlled and monitored using a Siemens Programmable Logic Controller (PLC) with critical parameters and alarms displayed on a 7" Siemens colour touchscreen HMI mounted on the front of the cabinet
- Transparent side screens and LED lighting to allow maximum visibility and light to the work area
- Choice of materials and finish to suit budget and application
- Extensive list of options and customisations including table frame (manual and electric), Isokinetic head for particle monitoring, HD CCTV camera, touchscreen monitor, sockets and service taps

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CONTROL AT YOUR FINGERTIPS

The VLF R Series is fitted with a Siemens KTP700 HMI colour display as standard. This is a PLC control system with touch control membrane and password protection for different levels of access control. It provides:

- Display of unidirectional flow velocity
- Display of HEPA filter differential pressure
- Power on/off indicator
- Fan on/off push button
- Lights on/off push button
- Latched audible and visual alarm for high filter pressure differential, high/low airflow and power failure
- Alarm mute function with user definable re-activation period (up to 30 minutes)
- Alarm log of last 10 alarm events



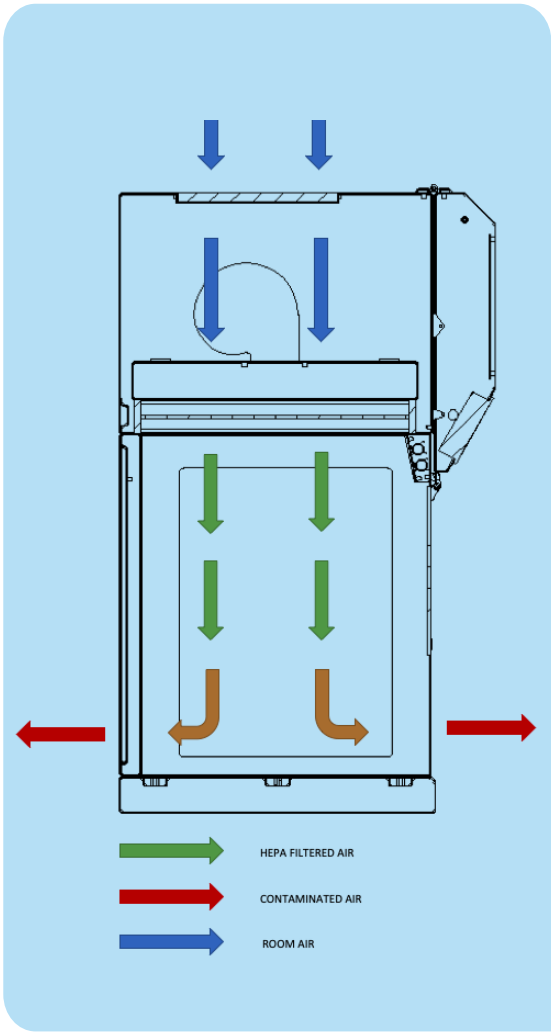
Siemens PLC control system



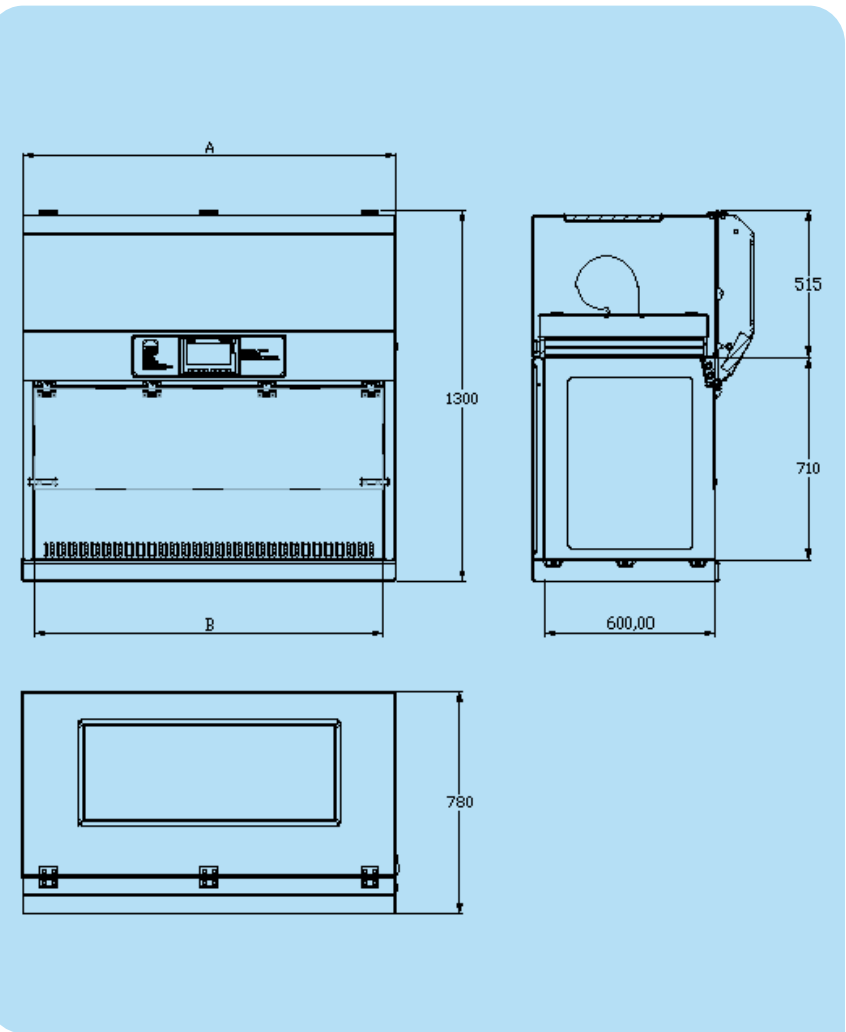
Paperless medication workflow solutions can be integrated into the VLF R Series

Airflow diagram

Recirculating (R) unit



Model designations and dimensions



MODEL	A (mm)	B (mm)	Airflow Volumes At 0.45m/s	Approx Weight (kg)	Max Power Consumption (watts)
VLF4R	1310	1225	1194 m ³ /hr	190	750
VLF5R	1610	1525	1485 m ³ /hr	260	1050
VLF6R	1910	1825	1776 m ³ /hr	300	1050

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Vari-height electrically operated support frame



A variety of service connections are available

STANDARDS COMPLIANCE

BS EN ISO 14644, EU GMP, BS EN 1822 (HEPA FILTERS),
IEC 61010-1:2001 (ELECTRIC WIRING)

QUALITY STATEMENT

Envair Technology provides world class design and manufacturing expertise for a full portfolio of clean room and containment solutions. We work with healthcare, pharmaceutical and laboratory facilities around the world, to protect the safety of teams handling hazardous compounds and maintain product integrity. Our engineers and production team are committed to the highest standards of excellence, meeting the requirements of ISO 9001:2015. We provide a comprehensive maintenance, testing and parts service for all our products, to ensure a lifetime of trouble-free use.



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