

Ultra-clean environments for the  
biopharma industry

### Applications

Many critical applications in the pharmaceutical, medical, scientific and electronics fields demand an ultra-clean work environment that is free from biological and particulate contamination. DFM Series downflow modules provide an economical means of achieving ISO 14644-1 Class 5 air cleanliness in a wide range of industrial and research applications.

### Description

Vilair-AAF DFM modules are self-contained, vertical laminar flow HEPA filter/ fan units. When installed with flexible curtains or rigid panels, modules form an ultra-clean zone in which a high degree of product protection is maintained. Vertical laminar airflow creates a biologically clean, particle-free work environment in the work area. A direct-drive fan draws in ambient air through a prefilter and supplies it to the work area through a HEPA filter system. The average air velocity in the work zone is maintained between 0.45 and 0.5 m/s, with all velocity readings within 20% of their average. Air cleanliness within the work area is better than ISO 14644-1 Class 5 (AS 1386 Class 3.5).

Modules are designed to be installed as single units or in multiples fastened end-to-end or side-by-side. When installed in this way, DFM modules enable an ultra-clean area of virtually any size or shape to be created.

### Features

- Wide range of sizes from 600 x 900 to 2400 x 2400
- Rigid construction in zincanneal steel with powder coat finish
- AAF prefilters and H12 minipleat HEPA filters provide assured capture of airborne contamination
- Minihelic gauge
- Glare-free fluorescent lighting
- Noise level of < 58 dB(A) and low vibration level
- Local manufacture enables us to supply within 6 weeks from date of order



Special unit for laboratory-animal application

### Options

- Benchtop, free-standing, mobile or suspended configuration
- Stainless steel construction
- Stainless steel or plastics work surface
- Clear enclosure panels in safety glass, polycarbonate or PVC
- H14 HEPA or ULPA filters
- Airflow alarm
- Service outlets in work zone
- Germicidal UV lamp
- Electric, height-adjustable floor stand



Height-adjustable stand