

DCB Series Downflow containment booths

Applications

In the pharmaceutical, fine chemical and food industries, operations such as sampling, grinding, dispensing and filling generate airborne particles at varying concentration levels. Where the processes involve hazardous, toxic or sensitising materials, operators and adjoining areas require protection from exposure to aerosols of the process materials.

Personnel, product and environment protection

Vilair-AAF booths provide a controlled environment for these applications by means of controlled airflows and multi-stage high-efficiency air filtration systems. Booths provide:

- Product protection by vertical laminar airflow supplied from a HEPA filter system in the booth ceiling
- Operator protection in the work zone by downward airflow away from the operator into a multi-stage air filtration system
- Protection of the external environment by a controlled flow of ambient air into the lower section of the entry end of the booth; and by HEPA filtration of exhaust air

Features

- A modular design concept provides the flexibility to configure booths so as to meet specific application requirements
- Exhaust and downflow systems are separated so as to provide optimal control of exhaust air and downflow within the booth; thus eliminating problems that are encountered in designs that rely on single fan installations, dampers or baffles to balance airflows
- The exclusive use of high-quality AAF prefilters and HEPA filters provides assured capture of airborne contamination
- Local manufacture enables us to provide highly cost-effective equipment that can typically be installed within 16 weeks from order date.
- Booths can be installed as a stand-alone system requiring only 3-phase electrical supply; or integrated into an existing facility.



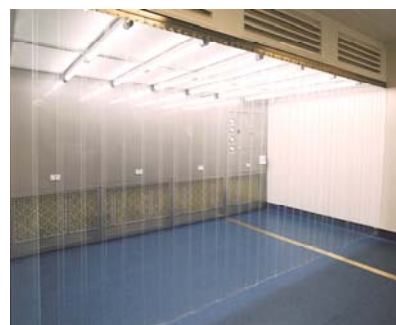
DCB-R booth 3.8 m wide, ISO 14644-1 Class 7

Specifications

DCB Series booths are manufactured to meet a specific user requirement specification (URS), and are manufactured in a range of widths from 2 m to 5 m, with standard work zone dimensions of 2.4 m high x 2.7 m deep. Standard booths are fitted with grade H12 downflow and exhaust HEPA filters; and a two-stage prefilter system with G4 and F9 filters serviceable from within the booth. Magnehelic gauges on the control panel monitor pressure differential of the filter systems.

Options:

- 100%-exhaust, single-pass operation
- Fascia cavities for computers and printers
- Automatic exhaust airflow control
- Temperature control
- H14 HEPA or ULPA filters
- Alternative prefilter specification
- Ventilated work benches
- Teardrop or flush lighting fixtures
- Integration of process controls



DCB-R booth 4.5 m wide, ISO 14644-1 Class 5