



Ventilation for Healthcare environments





Introduction

Expert in ventilation solutions for critical environments

Airvance Group is a leading designer and manufacturer of ventilation solutions for the most demanding and critical environments.

With 9 production facilities, 8 of which are located in France, the group develops innovative systems specifically adapted to the constraints of industry, hospital hygiene, and professional kitchens.

Our engineering teams design custom solutions that meet the strictest standards in air quality, safety, and energy efficiency.

Ranked among the top 5 European leaders in the ventilation sector, Alrvance deploys its expertise across several countries and generates nearly 45% of its turnover internationally. This global footprint allows us to support our clients on their most complex projects, wherever air management is a critical issue.

Ventilation for Healthcare environments

With over 60 years of expertise in air treatment systems, we master air quality within the most demanding sectors, including industrial cleanrooms, laboratories, and healthcare facilities.

We leverage the efficiency and expertise of our R&D department and our specialized 'Clean Concept' teams to address both the strict manufacturing process requirements and the crucial need to protect the operating field in hospitals.

As a member of ASPEC (Association for Contamination Prevention), we actively contribute to the development of industry standards while continuously refining our solutions to meet the most stringent international requirements, including ISO 16890 and EN1822 filtration standards.

Our dedicated network of experts provides customized, tailored solutions to the specific constraints of each environment, guaranteeing a safe, compliant atmosphere and the perfect operation of your installations.



Healthcare



Chemical, Cosmetic and Healthcare Pharmaceutical

Unidirectional flow ceiling systems

Our unidirectional flow ceiling systems represent the pinnacle of clean air technology for the most demanding environments. These systems create a controlled, laminar airflow that effectively sweeps contaminants away from critical zones while maintaining consistent temperature and humidity levels. Designed to meet and exceed ISO 5 classification requirements, our ceiling systems incorporate high efficiency filtration (H14/U15), secure flow diffusion technology, and robust construction to ensure longterm reliability. From operating theaters to pharmaceutical production areas, these solutions provide the highest level of contamination control with customizable dimensions to fit any critical space configuration.



BIOVAX®

Premium unidirectional flow ceiling system specifically designed for operating rooms and surgical environments, achieving ISO 5 classification with flow rates from 2,350 to 12,400 m³/h. BIOVAX features specialized provisions for medical equipment integration, including sealed passages for surgical lighting arms, while its nine standard dimensions are optimized for various surgical procedures. The system's 450mm height profile houses H14/U15 filtration and can be customized with integrated lighting, antibacterial coating, and stainless steel construction for the most stringent healthcare applications.



Ultra-clean environments



Medical integration



Customizable dimensions



BVX

Versatile unidirectional flow ceiling system achieving ISO 5 classification for sterile rooms in hospitals and pharmaceutical manufacturing, with flow rates from 1,330 to 9,600 m³/h. BVX combines stainless or painted steel plenums with H14/U15 filters and Secure Flow® technology to create consistent laminar airflow patterns that eliminate dead zones.

Available in nine standard dimensions with a 450mm profile.



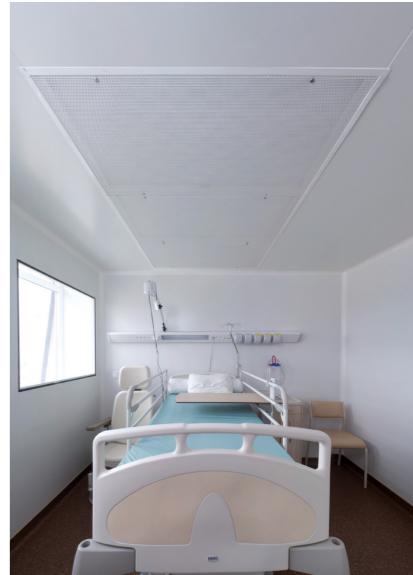
High purity



Robust construction



Versatile application



BVX SLIM

Low-profile unidirectional flow ceiling system with a space-saving 280mm height for existing buildings with vertical constraints while maintaining ISO 5 classification.

BVX SLIM delivers the same high-performance air quality as standard systems but with a 40% reduction in height, ideal for renovation projects. Also available in wall-mounted configurations for horizontal flow applications.



High purity



Reduced height (280mm)



Retrofit-friendly



BVX SPI

Monobloc diffusion ceiling with six-point stainless steel filter clamping system for perfect sealing integrity, engineered for pharmaceutical, electronic, and research facilities.

BVX SPI delivers ISO 5 classification with Secure Flow® diffusion grilles that eliminate flow disruption and dead zones.

Available in two height options (450mm and 280mm) with H14/U15 filtration.



High purity



Tool-free filter clamping



Pharmaceutical grade



Terminal filtration units

Our terminal filtration units deliver precise air quality control at the point of use for diverse clean environment applications. These compact solutions integrate seamlessly into ceiling grids with exceptional filtration performance and minimal space requirements, enabling facilities to achieve air cleanliness from ISO 8 to ISO 6.

CLEAN BOX



Terminal filtration unit for ISO 8 to ISO 6 clean rooms with continuously welded housing for guaranteed leakproof performance. CLEAN BOX accommodates two filter thicknesses (66/68mm and 110mm) with a tool-free clamping mechanism providing ± 3 mm adjustment for perfect filter seating. Available in six plenum sizes with flush diffusers, ideal for pharmaceutical, food processing, and aerospace industries.



Adaptable filtration



Modular design



Industrial applications



DIFFUSE BOX

Terminal diffusion unit offering precise airflow control and homogeneous distribution through customizable diffuser configurations. DIFFUSE BOX combines high-efficiency filtration with engineered diffusion technology to eliminate drafts while maintaining consistent particle control. Its modular design allows easy integration into various ceiling types with simplified maintenance access.



Optimized air distribution



Multiple flow patterns



Easy maintenance



ISOTOP 2

Airtight diffuser for ISO 8 environments with Class C airtightness in negative pressure up to -750Pa and Class D in positive pressure up to +2000 Pa. ISOTOP 2 features an Air Proof plenum tested to EN 15727 standards, available in seven sizes with top or side connections. Compatible with six different diffuser types, including perforated and swirl diffusers, for diverse clean room applications.



Superior airtightness



High pressure resistance



Versatile configurations

Integrated systems

Our integrated systems combine multiple clean air functions into space-efficient, all-in-one solutions that simplify installation and reduce technical space requirements. These comprehensive units incorporate filtration, airflow management, and control capabilities in pre-engineered packages that deliver consistent performance with minimal commissioning complexity. Designed with energy efficiency and space optimization in mind, our integrated systems provide the perfect balance of performance and practicality.



COMPACLEAN



Compact integrated air treatment system combining filtration, diffusion, and control in a single unit, dramatically reducing technical space requirements while maintaining stringent air quality standards.

COMPACLEAN incorporates high-efficiency filtration stages with optimized fan technology and intelligent controls to deliver precise air management with minimal energy consumption and installation complexity.

The system's space-efficient design makes it ideal for smaller clean rooms, laboratories, and specialized healthcare spaces where technical area limitations would otherwise compromise air quality performance.



All-in-one solution



Space-saving design



Energy efficient



