FABRIQUÉ EN FRANCE

2026-2027

SINCE 1968

ADS Laminaire

More than 50 YEARS of experience

MODULAR CLEAN ROOM



SBM

www.adslaminaire.com

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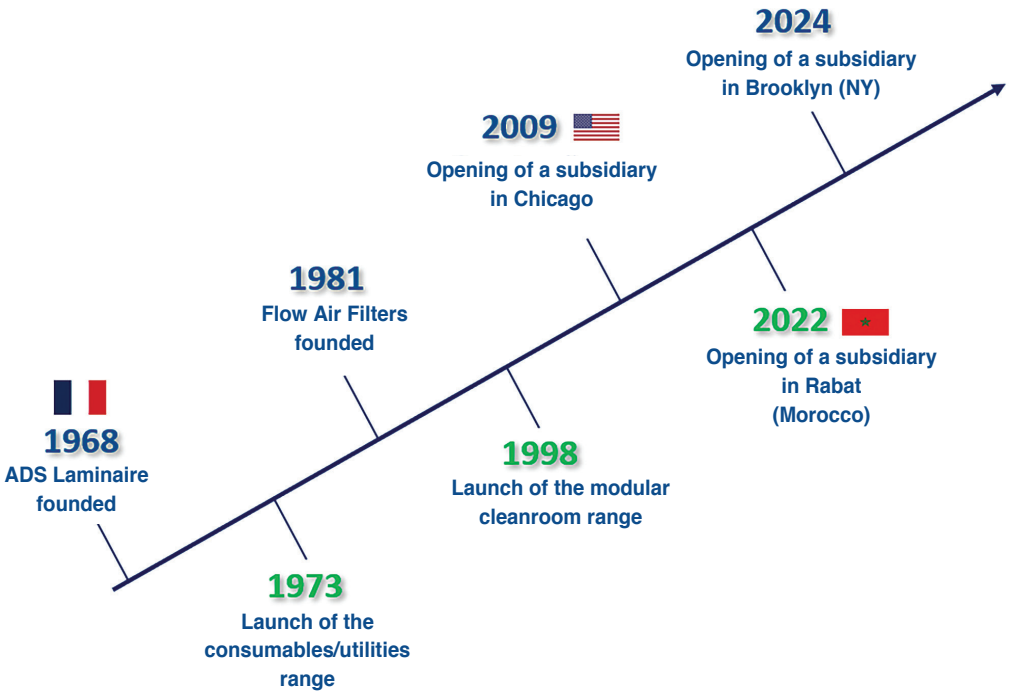


The technical characteristics and dimensions of our equipment are subject to change without notice as a result of developments. The pictures and diagrams in this catalog are not contractually binding.

ADS Laminaire company

ADS Laminaire has been designing, manufacturing and selling laminar flow equipment since 1968. It has gained a reputation in this field thanks to its experience, but also thanks to the quality and reliability of its products and the services it offers its customers.

In 1998, the Modular Cleanroom range was launched in response to growing demand for controlled environment areas, both nationally and internationally. Since then, several subsidiaries have been created to support this development.



Based in France and internationally, our **sales teams** are experts in their field and provide you with turnkey solutions and tailor-made support throughout your project.

At our **Design Office**, expertise and innovation combine to create tailor-made solutions that are perfectly suited to your requirements. We draw up detailed plans that allow you to check the accuracy of the data and ensure that each element meets your expectations precisely.

Our workshop in France is the nerve centre of our production. Each piece of equipment is designed with care and expertise by our team of professionals.

Our **quality department** ensures that every product complies with the strictest standards as well as our customer's requirements.

Our teams of installers deliver, install and qualify our equipment directly on site.

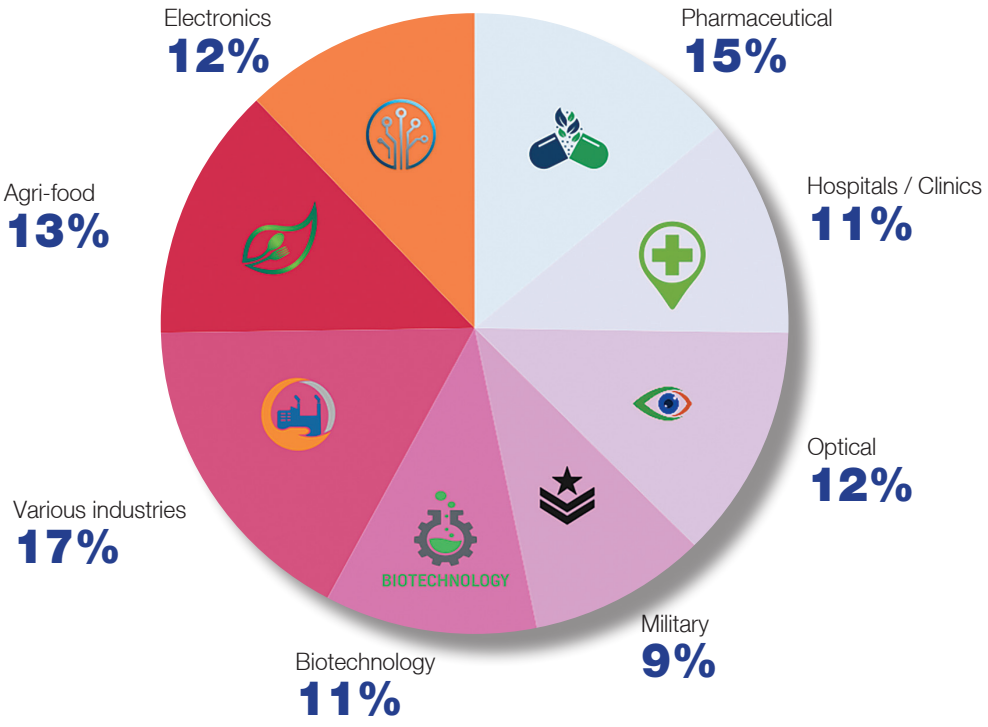
Our after-sales service and teams of technicians can meet all your equipment maintenance and qualification requirements, whatever the type.
From sales to design, manufacturing to final qualification, ADS Laminaire controls the entire supply chain process. This comprehensive management guarantees control, responsiveness and quality at every stage, ensuring the satisfaction and safety of its professional customers.

What is a Modular Clean Room (MCR)?

The Modular Cleanroom, launched in 1998, meets the growing demand from manufacturers and research laboratories for controlled environment areas.
Based on laminar flow technology, it guarantees a clean and secure atmosphere that complies with the most stringent standards, while improving air quality without modifying existing infrastructure.

Thanks to its modular structure, the MCR easily adapts to existing environments, offering a flexible, economical and quick-to-install solution. A genuine alternative to heavy-duty installations, it ensures performance, safety and time savings for professionals.

What are the sectors of activity*?



*2024 data

International Organisation for Standardization

ISO 14644
Examples of cleanrooms

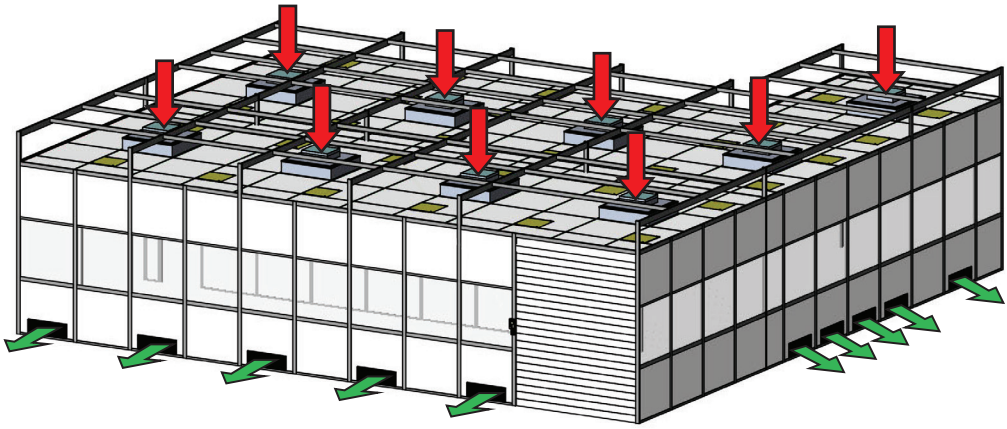
Air cleanliness class, ISO class	Type of air flow	Average air flow velocity (m/s)	Examples
5	U	>0,2	Aseptic core and similar processing areas D. Medical devices
5-7	NL or M	NA	Other processing areas to support aseptic production. Terminal processing areas for sterilised products, optics
7-8	NL or M	NA	Asepsis support areas in production, including controlled preparation areas

Air cleanliness class, ISO class	Type of air flow	Average air flow velocity (m/s)	Air changes per hour	Examples
2	U	0,3 - 0,5	NA	Photolithography, semiconductor processing area
3	U	0,3 - 0,5	NA	Work areas, semiconductor processing areas
4	U	0,3 - 0,5	NA	Work areas, multi-layer mask processing, compact disc manufacturing, semiconductor service area, utility service areas
5	U	0,2 - 0,5	NA	
6	M	0.1-0.3 Directed airflow		Utility areas, multi-layer processing, semiconductor service areas
	NL or M	NA	70-160	Aseptic core and similar processing areas D
7	NL or M	NA	30-70	Service areas, surface treatment
8	NL or M	NA	20-10	Service areas

MODULAR CLEAN ROOM: MICRO ENVIRONMENT

PRINCIPLE

The entire work area is swept by filtered and/or sterile air. Thanks to its flow velocity, this air flow produces positive pressure relative to the surrounding environment and creates a barrier against external particles.

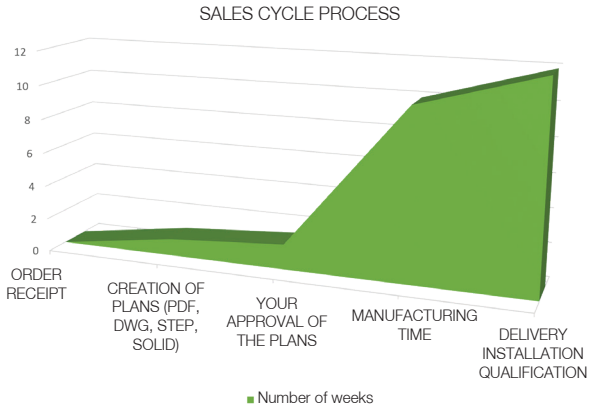


Outside air

Filtered air

MCR SALES CYCLE

ADS Laminaire manages the entire process, from the initial sales meeting to the final installation of your clean room, to provide you with a turnkey solution that is perfectly tailored to your needs.



Available options:
- FAT/SAT implementation
- QIQO
- Others upon request

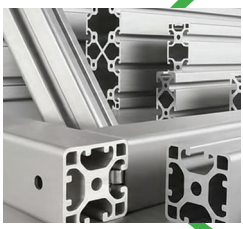
CONSTRUCTION

Delivered as a complete kit, the structure includes all the essential elements for creating and certifying your Modular Cleanroom: aluminium profiles, airtight doors, partitions, FFUs, lighting and control panel. A customisable solution for a turnkey project, designed according to your needs.

2. Assembly of the structure



1. Receipt of the kit



3. Installation of fan units and walls

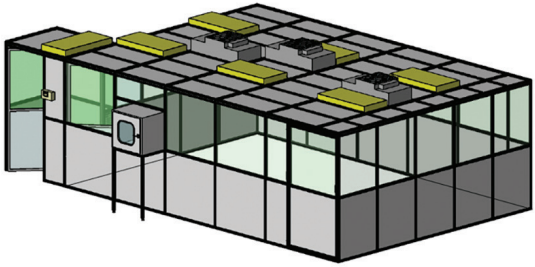


Compliant with standard: ISO 14644

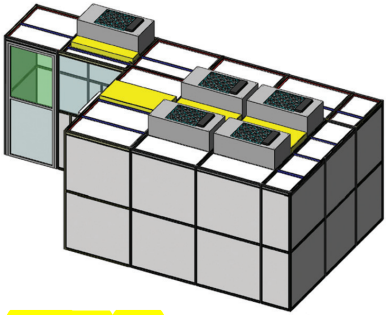


4. Qualification of your SBM (ISO 14644)

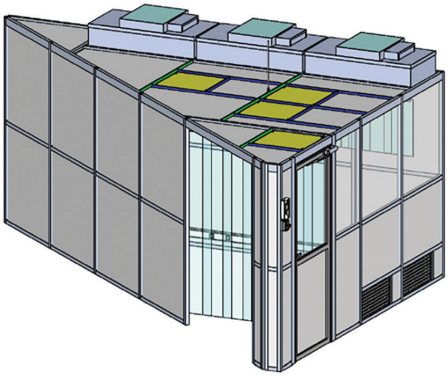
Examples of 3D plans



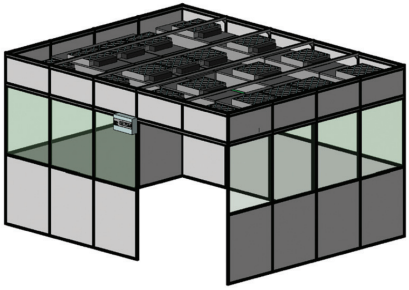
SBM 40m² (430 sqft) – ISO 8 – Industrial



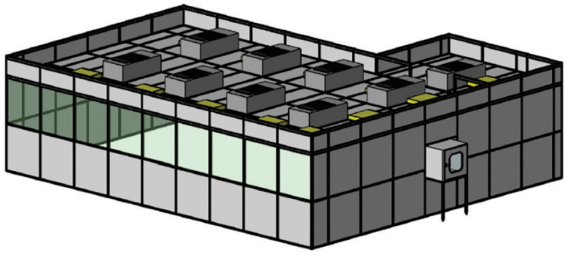
SBM 20m² (215 sqft) – ISO 7 - Pharmaceutical



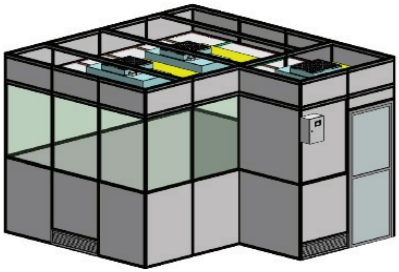
SBM 25m² (270 sqft) – ISO 7 - Optical



SBM 30m² (320 sqft) – ISO 5 - Microelectronics



SBM 80m² (860 sqft) - ISO 7 - Food



SBM 15m² (160 sqft) - ISO 6 - Clinical

Modular Clean Room ISO 5
Aerospace Industry





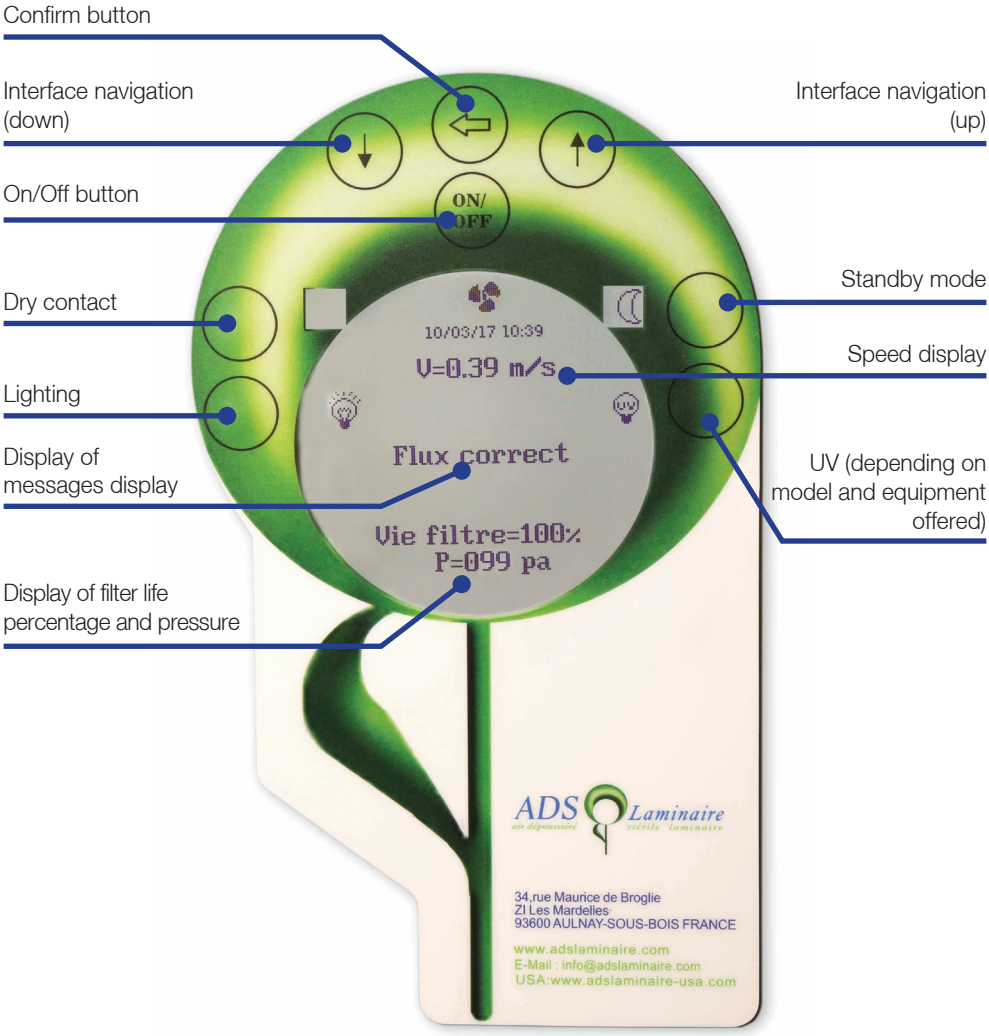
Modular Clean Room ISO 7
Pharmaceutical Industry



Modular Clean Room ISO 7 – Electronics Industry

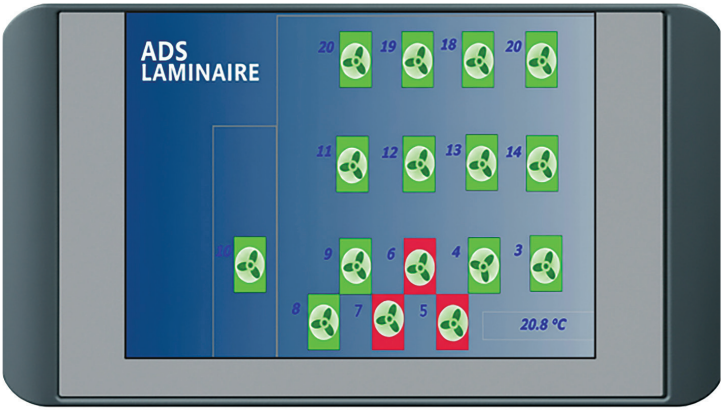
Control panel (Flower ADS)

Our Flower ADS control panel allows you to view essential parameters such as flow speed, pressure, flow rate, filter clogging status, as well as alarms, standby mode and device start-up in real time. Thanks to its intuitive interface, monitoring and controlling performance is simple and efficient at all times.

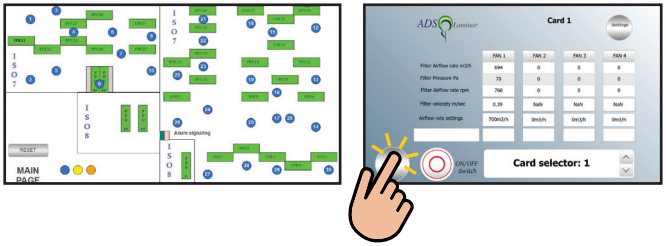


Human-machine interface (HMI)

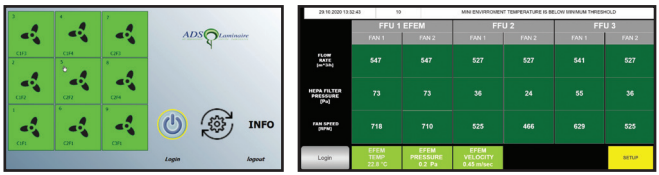
Our touchscreen PAD allows you to control Fan Filtration Units (FFU) divided into separate zones, which can be separated for customized control. Each zone and each FFU can be adjusted independently, with customizable parameters such as flow rates, speeds, pressures, and RPM, ensuring optimal adaptation to each environment. The HMI communicates with FFUs via the TCI/IP protocol, ensuring a reliable connection and centralized supervision of the entire system.



4.3 ″screen - - L x W x H = 161 x 103 x 42mm (6.3 x 4 x 1.6 inches)
*several sizes available



Adjust settings in just a few clicks !



Multitude of possible interfaces

Modular features tailored to your project and requirements for your cleanroom:

- Screen sizes
- ISO zone plan
- Temperatures
- Pressure
- Flow control
- Unit on/off
- Other interfaces possible
- Other on request...

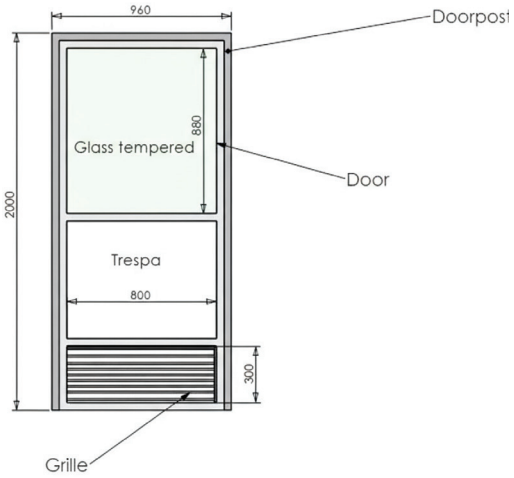
Modular Clean Room Doors

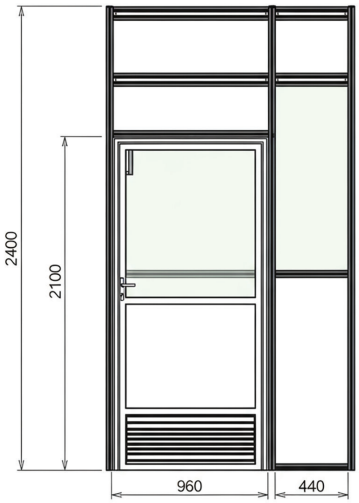
ADS Laminaire doors combine robustness and functional design to guarantee perfect sealing for your cleanroom. Designed with high-quality materials, they ensure optimal insulation while facilitating access and maintenance. Their modular integration allows for quick installation and adaptation to your specific needs*.





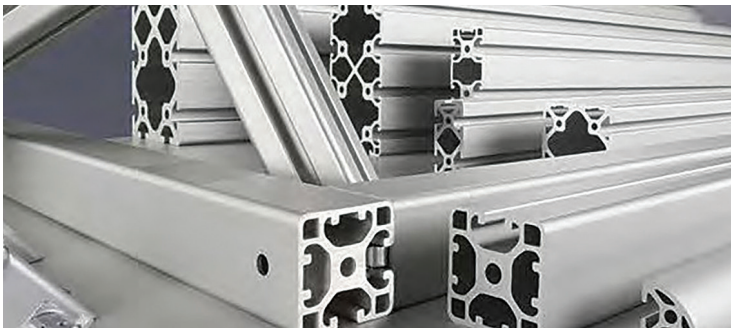




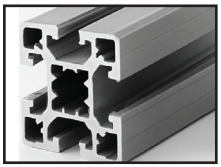


*Several types of doors are available. Contact the sales department

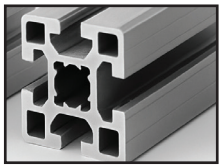
Anodised Aluminium Profiles



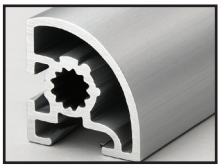
Aluminium profiles (anodised or epoxy painted) have metric threading along their entire length, allowing all mounting accessories (cross connector, omega brackets, mounting brackets, etc.) to be screwed on. Their light weight reduces costs while offering excellent load-bearing capacity. Partially closed extrusions, which are both aesthetic and streamlined, are ideal for a widerange of applications.



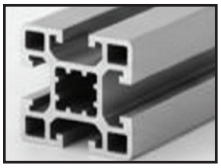
Ultra-lightweight profile 40x40 Type C03–1



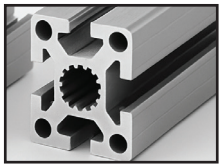
Double-sided profile 40x40 Type C02–4



Rounded corner profile 40x40 Type C03–8



Base profile 4 0x80 Type C01–3



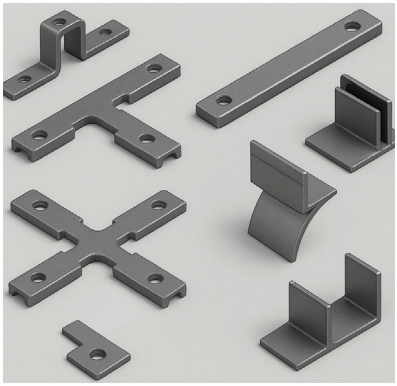
Corner profile 40x40 Type C01–7



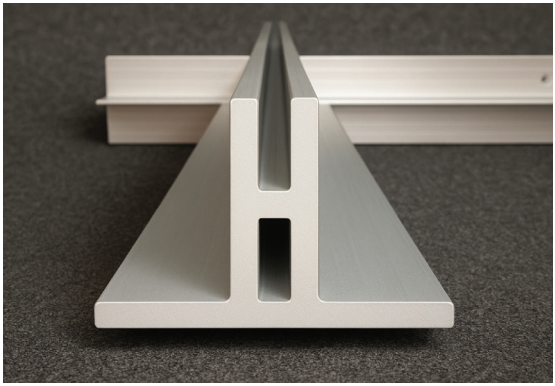
Corner profile 40x40 Type C01-7

T-BAR ceiling

The T-BAR system is a dropped ceiling designed exclusively for clean rooms. The T-BAR is supplied as a ready-to-assemble kit. The cross piece is located at the intersection of four profiles and joins them together. Thanks to the threading along the entire length of the profile, the omega can be screwed into the most suitable place to attach it to the concrete slab.



Mounting accessories



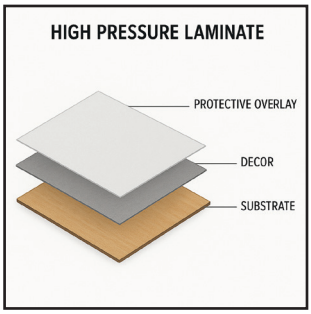
T-Bar: Flush mounting system



View of the ceiling of an SBM, self-supporting construction.
T-Bar ceiling suspended from the SBM structure

Rigid partition

ADS Laminaire works mainly with HPL. Depending on the requirements of each project, all cuts and electrical channels are prepared in advance at the production plant. This detailed technique guarantees excellent quality and allows for very quick on-site installation, thereby reducing unforeseen events on the construction site.

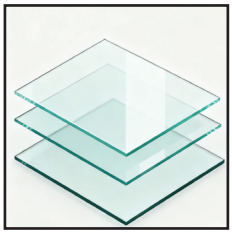


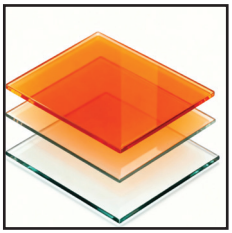
HPL

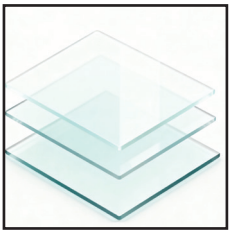
What is High Pressure Laminate (HPL)?

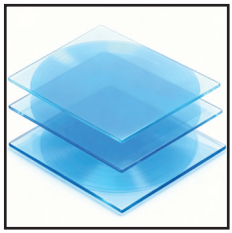
High-pressure laminate, or «HPL» as it is often called, is created through a multi-step process. The product is composed of six to eight layers, including a resin layer and a transparent coating.

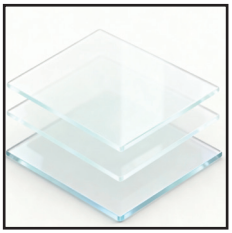
Depending on our customer's projects and requirements, ADS Laminaire offers various types of partitions with complete modularity. In addition to rigid HPL walls, several other materials can be used, such as:


Safety glass


Non actinic film


Polycarbonate


Vinyl strips


Plexiglas



HPL walls



HPL walls with safety glass



HPL walls with polycarbonate and vinyl curtains



HPL walls with example of a 40° angle



HPL walls with non actinic film

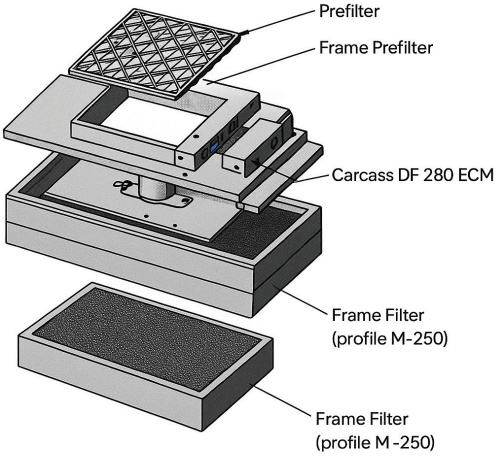
FANJET (FFU)

Installed on our structures, air is drawn through a G4 pre-filter by a powerful and silent motorised fan. (47 dBA in false ceilings up to a maximum of 54 dBA)
The pressurised air is filtered by a HEPA filter (ULPA option). The MONOBLOC system guarantees the integrity of the entire unit.
Automatic flow control compensates for clogging of the absolute filter, ensuring a constant airflow rate.

FANJET



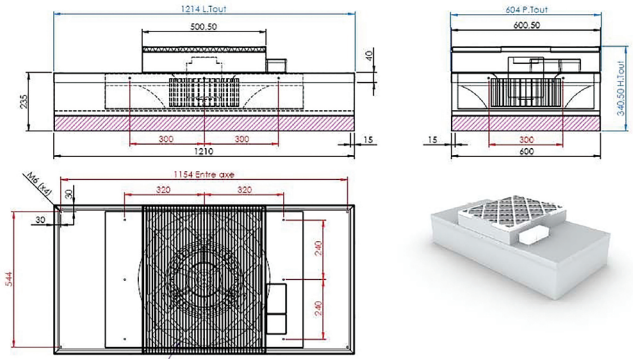
FANJET SP



*Available in several sizes:

60/60 - 60/90 - 60/120 - 120/120 (cm)

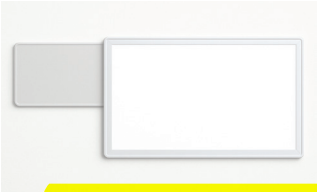
2/2 – 2/3 – 2/4 – 4/4 (ft)



Lighting

Our Modular Cleanrooms are also equipped with LED lighting in the form of tiles or strips. Available in several sizes and lighting levels, they are suitable for all types of configurations.

LED PANEL 32W
30 x 60cm (1 x 2 ft)



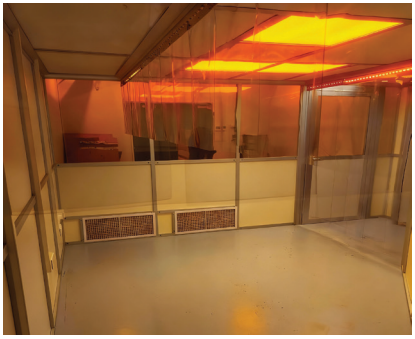
LED PANEL 45W
60 x 60cm (2 x 2 ft)



LED PANEL 52W
30 x 120cm (1 x 4 ft)



PEUT-ON RETIRER LES FONDS SUR LES IMAGES CI-DESSUS ?

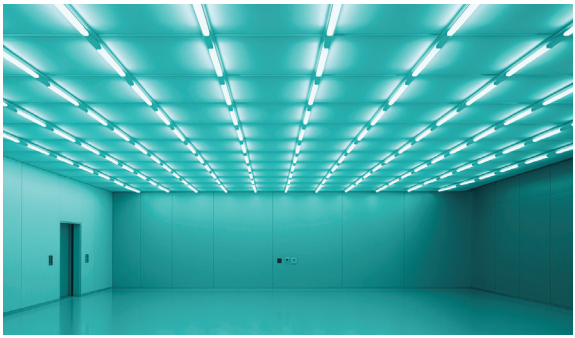




SBM with non-actinic lighting



Interior view of an SBM – ISO 5

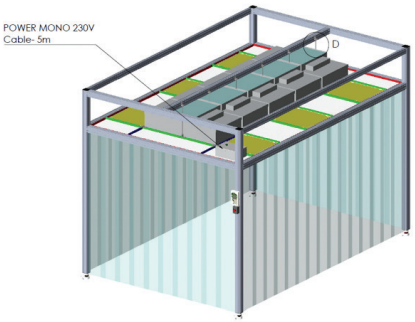


Interior view of an SBM with T-Bar ceiling. Non-flush lighting ISO 5

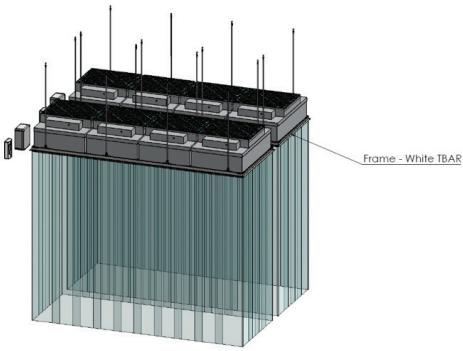
Modular Clean Room
Type Integral Blowing Ceiling (IBC)

ADS Laminaire also offers IBC-type modular clean rooms. They are equipped with antistatic vinyl curtain walls and can also be fitted with casters (optional). Practical and mobile, these IBC units are easy to use while complying with the desired ISO standards and class (ISO 8 to ISO 5).

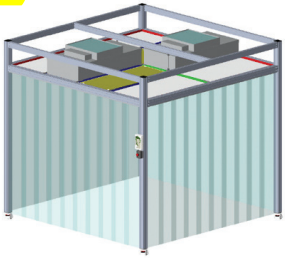
Example of IBC 3D



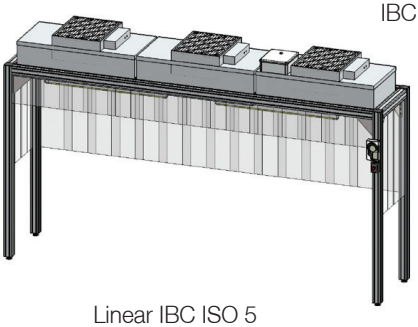
IBC 20m² (215 sqft) - ISO 6



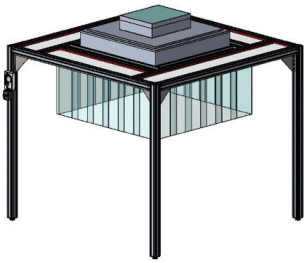
IBC 24/24 – ISO 5 suspended



IBC US 24/24 – ISO 7



Linear IBC ISO 5



IBC ISO 5 under flow

Photos of projects



IBC
ISO Class 8
Medical laboratory



3 IBC – ISO Class 5 – Laser optical instrument



IBC – ISO Class 7 – Electronic technology

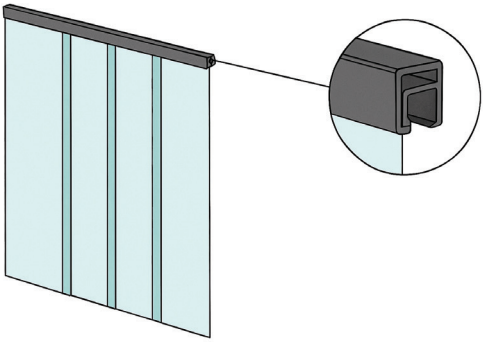


IBC
ISO Class 6
Gigafactory batteries

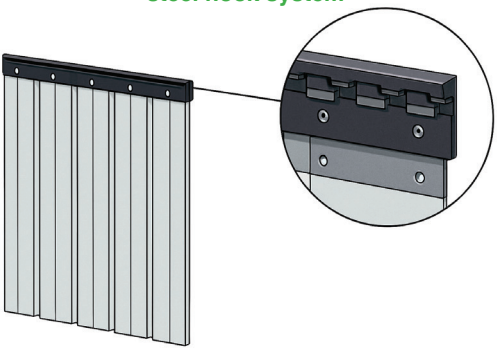
Antistatic Vinyl Curtains

Flexible antistatic PVC is a charge-dissipating (antistatic) material. It prevents sparks and other damage caused by static electricity. Flexible antistatic PVC strips and partitions can be used in a variety of applications, such as explosive atmospheres (mines, chemical sites, laboratories, industries, etc.) or in areas sensitive to electricity (microelectronics, packaging, batteries, etc.).

Vinyl curtains with «U» profile



Vinyl curtain with stainless steel hook system



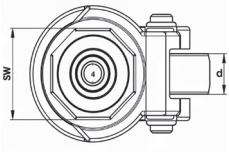


Features
Insulation (thermal and acoustic)
High resistance (scratches, impacts, chemicals)
Format: rolls / strips / panels
Sizes: width 30/100cm (1-3 ft)
Thickness: 0.04 ˝

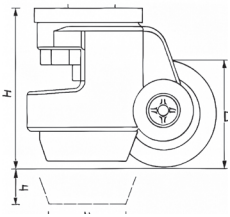
Casters

Our HRIG series casters made of die-cast aluminium are perfectly suited for our modular cleanrooms. They feature a smooth, easy-to-clean ivory coating, a simple height adjustment system and a sturdy footplate to ensure stability. Their robust design ensures reliable mobility while complying with the strict standards of controlled environments.





High-quality, durable and long-lasting POA series polyamide casters. Designed to offer smooth, reliable, quiet and snag-free rolling.



Caster on demand:
- Antistatic
- Brakes
- Motorised

Model	Wheel diameter (inches)	Wheel width (inches)	Load capacity (kg)	Type hub	Total height (inches)	Max. total height (inches)	Adjust-ment range (inches)	Hex key size (inches)	Centre hole diameter (inches)	Offset (inches)
HRIG-PDA 45G	1.8	0.7	180	Smooth	2.8	3.2	3.2	0.4	M 0.3 x 0.5	1.2
HRIG-PDA 50G	2	0.9	250	Smooth	3.3	3.7	3.7	0.4	M 0.5 x 0.6	1.4
HRIG-PDA 63G	2.5	1.1	500	Smooth	4.1	4.7	4.7	0.6	M 0.5 x 0.6	1.8
HRIG-PDA 72G	2.8	1.2	700	Smooth	4.7	5.2	5.2	0.6	M 0.6 x 0.6	2

INSERER SECOND TABLEAU EN MM

Lifts

Our robust and adjustable industrial jacks provide effective stability for any furniture or structure.

Their solid base and threaded rod ensure excellent stability and quick levelling, even on uneven surfaces.



MODULAR CLEAN ROOM - IBC ULTRA STANDARD

In order to better meet demand, ADS Laminaire has standardised several models of IBC-type Modular Clean Rooms, defined according to precise dimensions and a specific ISO class. Thanks to preliminary studies, these IBC units reduce costs, shorten the design phase and speed up delivery times.

INCLUDED IN OUR ULTRA STANDARD IBC

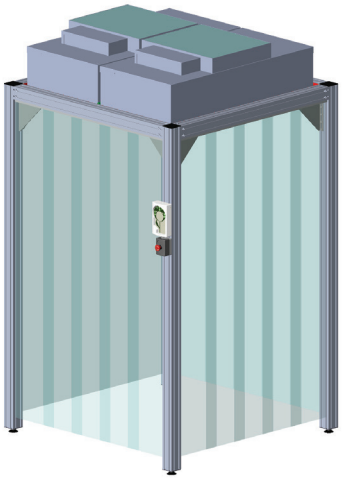
- Aluminium structure
- 500 Lux lighting
- Vinyl surround
- Jacks (Optional Casters)
- Useful height (under flow): 2090mm (6.8 ft)
- Overall height: 2500mm (8.2 ft)
- Column width (with wheel): 80mm (3.2 inches)

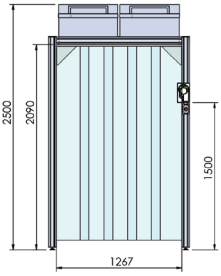
AJOUTER COLONNE EN MM (entre dimension (ft) et ISO class)

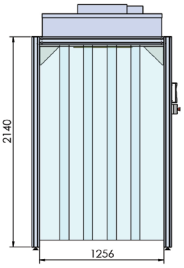
Model	Dimension (ft)	ISO class	Power supply 50-60 Hz	Number of FFU
IPS-5-12-12	4'6" x 4'7"	5	230 v	2
IPS-5-US-12-12	4'6" x 4'7"	5	110 v	2
IPS-7-12-24	8'6" x 4'7"	7	230 v	1
IPS-7-US-12-24	8'6" x 4'7"	7	110 v	1
IPS-5-12-24	8'6" x 4'7"	5	230 v	4
IPS-5-US-12-24	8'6" x 4'7"	5	110 v	4
IPS-7-24-24	8'6" x 8'7"	7	230 v	2
IPS-7-US-24-24	8'6" x 8'7"	7	110 v	2
IPS-5-24-24	8'6" x 8'7"	5	230 v	8
IPS-5-US-24-24	8'6" x 8'7"	5	110 v	8

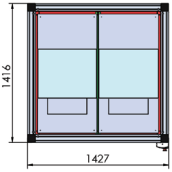
See detailed plans on pages 25/26/27

IPS 5 - 12/12



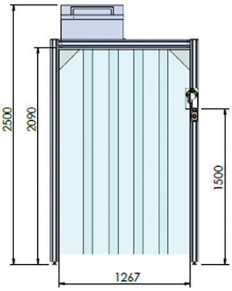


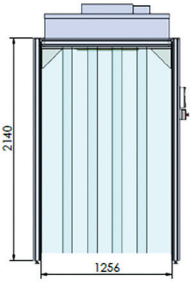


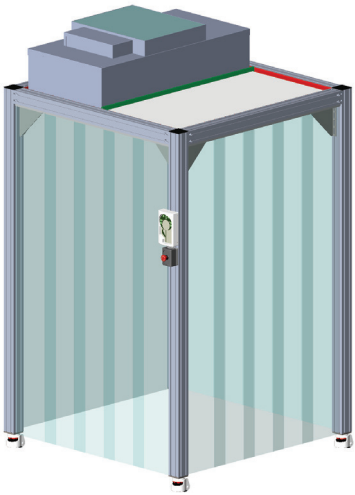


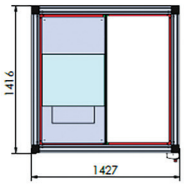
IPS 7 - 12/12 R*

R* = Casters

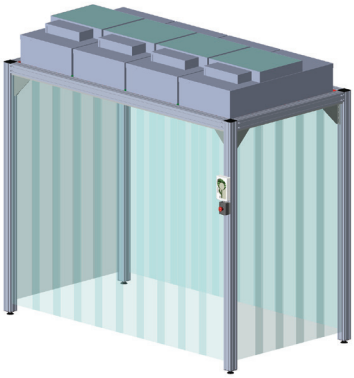


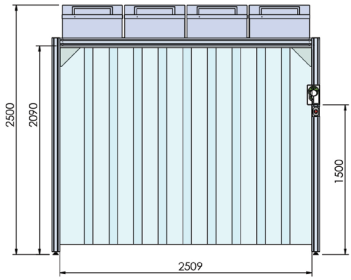


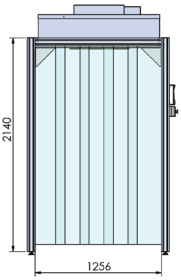


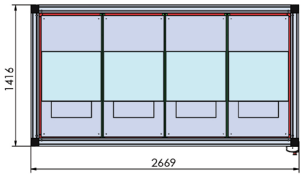


IPS 5 - 12/24



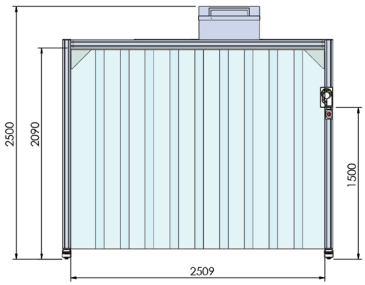


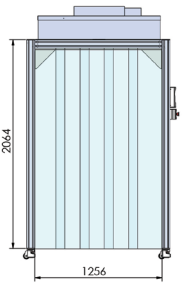


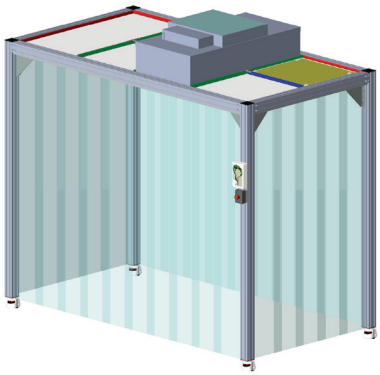


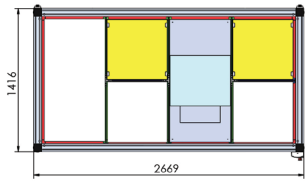
IPS 7 - 12/24 R*

R* = Casters

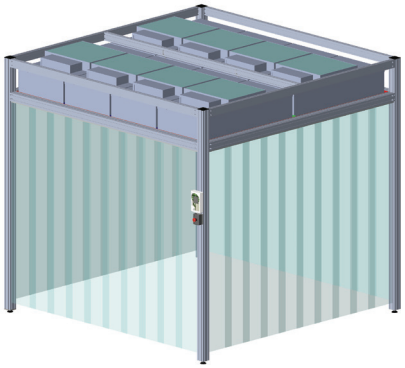


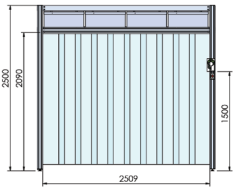


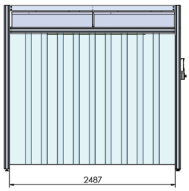


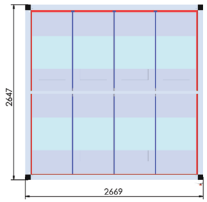


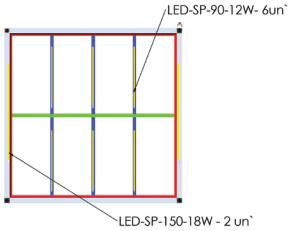
IPS 5 - 24/24





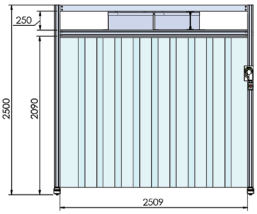


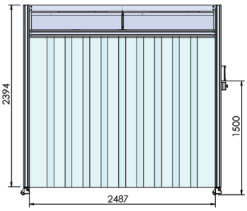


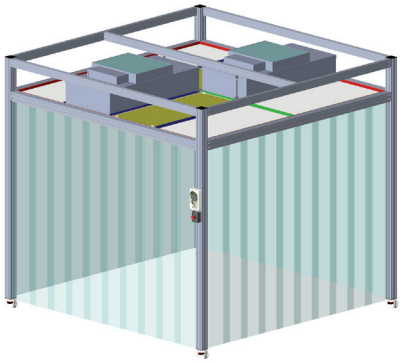


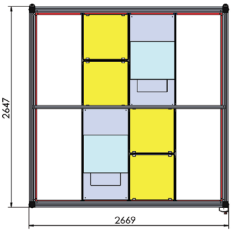
IPS 7 - 24/24 R*

R* = Casters



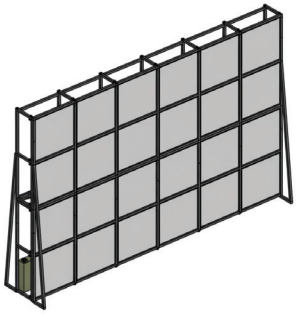




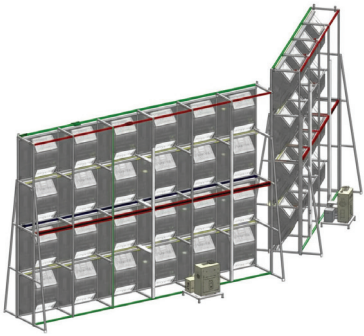


Laminar Blowing Wall

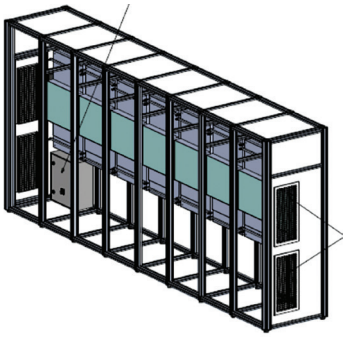
Like our Modular Cleanrooms, our FFU-equipped blowing walls can be installed either on the roof or horizontally. This flexibility allows us to meet your specific needs while guaranteeing the desired ISO class.
After passing through a double filtration stage (G4 pre-filter and H14 absolute filter), an ISO 5 class air flow is blown horizontally and laminarly over the entire working volume.
This controlled environment protects the area from external contamination.



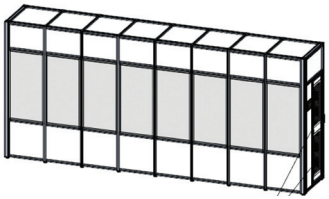
ISO 5 blowing wall – Pharmaceutical



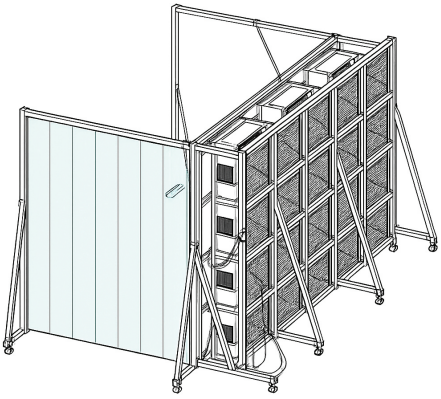
ISO 5 blowing wall – chemical industry



ISO 5 blowing wall – Clinic (rear)

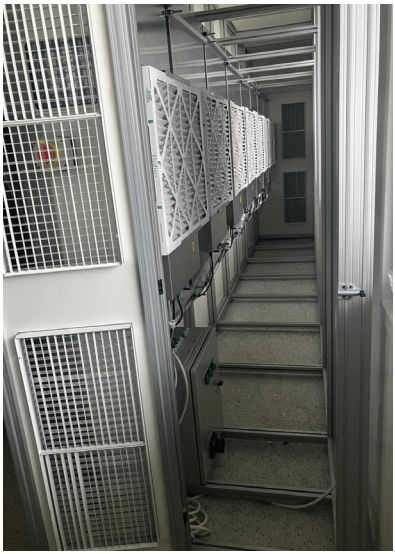


ISO 5 blowing wall – Clinic (front)

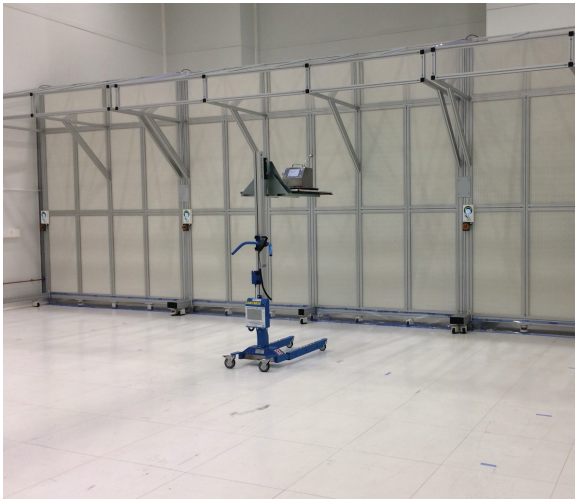


ISO 5 blowing wall – Aerospace

Examples of MS projects



ISO 5 blowing wall
Clinic (rear view)



ISO 5 blowing wall
Aerospace



ISO 5 blowing wall
Pharmaceutical

Qualification and validation

Speed checks



Equipment used
Hot-wire anemometer

Objectives
Map air velocity profiles and verify laminar flow. Measure frontal suction velocity. Determine flow rates and hourly renewal rates.

Equipment concerned
Laminar flow hoods, microbiological safety cabinets, clean rooms, supply ceilings, fume cupboards, ETRAF

Applicable standards
ISO 14644, EN 12469, NFX 15211, EN 14175, GMP

Flow visualisation



Equipment used
Smoke bomb, pear-shaped, smoke generator

Objectives
Visualise the laminarity of the flow. Check for the absence of induction. Test the air flow of the hood. Check the pressure cascade. Visualise the effectiveness of the air intakes (staff protection).

Equipment
Laminar flow hoods, microbiological safety cabinets, clean rooms, airblowing ceilings, fume cupboards, ETRAF

Applicable standards
ISO 14644, NFX 15211, EN 14175, EN 12469

Particle counting



Equipment used
Laser particle counter

Objectives
Determine the dust class of an area Identify leaks (by scanning filters) or contaminated areas.

Equipment concerned
Laminar flow hoods, microbiological safety cabinets, clean rooms, airblowing ceilings

Applicable standards
ISO 14644, GMP, EN 12469

Maintenance

EMERY integrity test (optional)

Equipment used
Spectrophotometer, aerosol generator (product used: Emery 3004)

Objectives
Check the integrity of the filters by looking for leaks on the filter media and the joint surface

Equipment
Laminar flow hoods, microbiological safety cabinets, clean rooms, air-blowing ceilings

Applicable standards
ISO 14644, EN 12469, GMP

Other checks (please, consult us)

- Qualifications (QI/QO)
- Noise level
- Illumination
- Bacteriological control
- Temperature/Humidity
- Activated carbon filter saturation test SF6 gas
- Containment test

Maintenance

- Filter replacement (HEPA, pre-filters, activated carbon)
- Adjustment, compliance restoration
- Decontamination (mandatory for any work on a workstation used for handling pathogenic germs)
- Filter recovery for destruction
- Miscellaneous repairs, replacement of parts

Machining

We can respond quickly to your spare parts needs thanks to our permanent stock:

- 2,000 HEPA filters (standard sizes)
- 10,000 pre-filters
- 500 fans
- 500 electronic cards

All tests result in a control report accompanied by calibration certificates for our equipment.
All our testing equipment is COFRAC calibrated or COFRAC traceable.

ADS Laminaire

~~Sterile Laminar Air~~



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