

Project Case Study

Modular Cleanroom

The Client

WOMED

Location

Montpellier, FRA

Sector

Life Science

Modular Cleanroom expansion enhances production for Womed.

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Womed, based at the National Centre for Scientific Research (CNRS) in Montpellier, France, is a biotechnology firm specialising in innovative solutions for women's reproductive health.

With a focus on developing and manufacturing medical devices, Womed is committed to maintaining the highest standards of precision, cleanliness, and quality in their production processes.

The Challenge

In 2021, Monmouth Scientific installed an ISO 7 Modular Cleanroom for Womed. As production demands surged, the company required a significant expansion of their cleanroom facilities to accommodate increased manufacturing capacity.

The challenge in 2024 lay in delivering a large-scale upgrade that maintained strict ISO 7 compliance, adhered to tight deadlines, and met budgetary constraints—all without disrupting ongoing operations.

Project Specification

- Room Expansion - Significant increase in the cleanroom's operational surface area to handle higher production volumes.
- Changing Atrium - Addition of an atrium for improved workflow and contamination control.
- Air Filtration - Installation of an additional CAMT2000 unit and Terminal HEPA Filter to maintain ISO 7 cleanliness standards.
- Infrastructure
 - Additional Coved Skirting and Exhaust Grill for seamless cleanroom maintenance.
 - Floor Tiles covering the expanded work area, including the atrium.
 - Installation of an additional sliding door entry to enhance accessibility.
 - Four additional LED Light Panels to ensure consistent illumination.

The Solution

Monmouth Scientific delivered a seamless solution by leveraging the flexibility and scalability of the modular cleanroom system.

The upgrade involved increasing the cleanroom surface area and adding a changing atrium. This modular approach ensured that the expansion was both efficient and scalable, incorporating critical infrastructure enhancements to support increased production demands.



The Result

Monmouth Scientific's modular cleanroom solution provided Womed with the flexibility and scalability required to support their growth. The successful expansion exemplifies how tailored,

modular designs can adapt to the evolving needs of biotechnology firms, ensuring they can scale production to meet rising demands without compromising operational efficiency.

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Womed required an upgrade to our cleanroom space to meet our expanding production needs, and Monmouth Scientific delivered an exceptional solution.

By extending our cleanroom and adding an atrium, the solution allowed us to scale up rapidly and effectively. Their modular approach ensured we only incorporated what was essential, maximising both efficiency and cost-effectiveness.

The project adhered strictly to our timeline, which was critical for maintaining production flow. Monmouth Scientific's flexibility and commitment to delivering a tailored solution made all the difference in supporting Womed's growth.

Othmane Jaidi, Production Engineer

Modular Cleanroom

Features & Benefits

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- Modular, Scalable Layouts
- Rapid Deployment
- Custom-build Specifications
- ISO Class 6-9
- High quality HEPA Filters
- Turnkey Solution



Our Solution

Our Modular Cleanroom is a customisable and scalable turnkey solution designed to meet a wide range of contamination control needs across multiple industries. Whether for biomedical, electronic, aerospace or industrial applications, this high-quality modular system provides the optimal environment for sensitive operations and processes.

How It Works

The Modular Cleanroom functions by creating a controlled environment where the concentration of airborne particles are regulated to ISO 6-9 certifications. The room is equipped with HEPA filtration systems that continuously circulate clean air, removing contaminants.

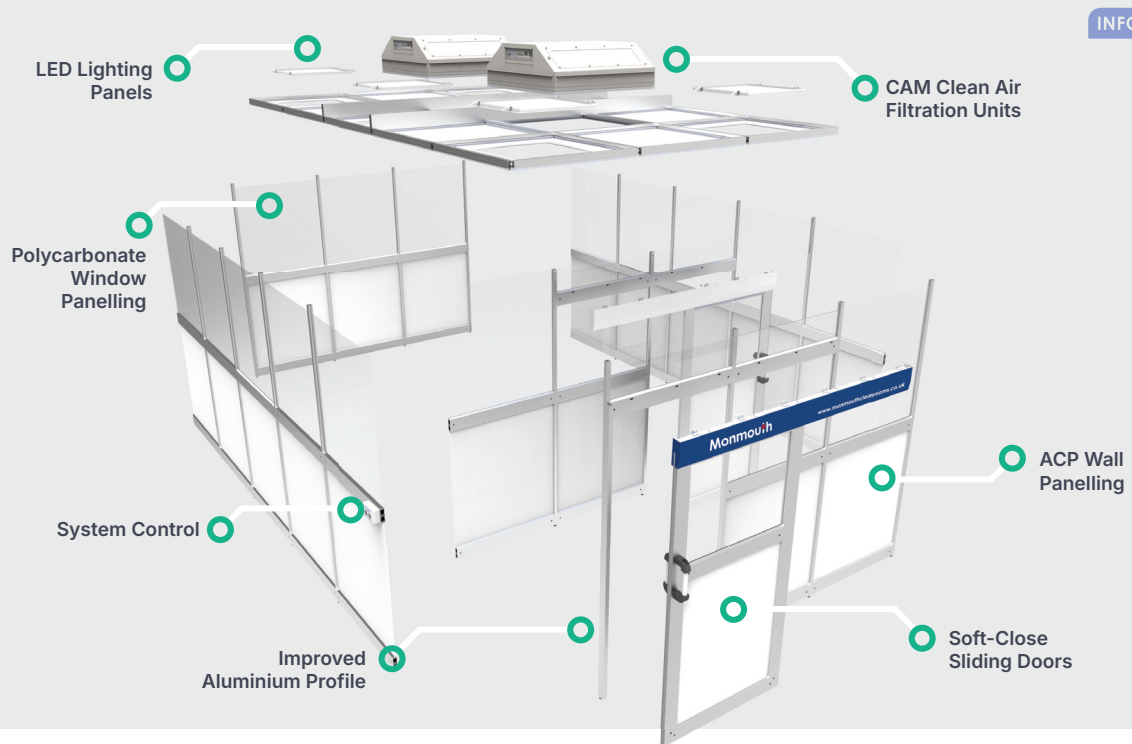
The modular panels are constructed from durable, easy-to-clean materials, ensuring a sterile environment. The modular design allows for quick installation, expansion, or relocation to meet changing operational needs, providing a reliable and efficient solution.

Technical Information

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|--|---|--------------------------|--------------------------|--------------------------|
| Custom-build Specification | Modular and scalable layouts tailored to project specifications. | | | |
| Standard Module Dimensions (W x D x H) | 2000mm x 2000mm x 2350mm | 3000mm x 2000mm x 2350mm | 3000mm x 3000mm x 2350mm | 4000mm x 3000mm x 2350mm |
| Filteration System | Clean Air Modules (CAM) + H14 HEPA Filter - 99.97% efficient at 0.3µm | | | |
| Air Cleanliness | ISO Classes 6-9 | | | |
| Structure | Free-standing aluminium framework. Aluminium composite panel walling and clear non-break polycarbonate window panes. | | | |
| HVAC | Our experienced team designs and installs the HVAC system to regulate air quality and temperature. | | | |
| Flooring | Optional custom flooring solutions tailored to project specifications, ensuring durability, hygiene, and compliance. | | | |
| Power | Electrical units ensure seamless power and control systems integration for cleanroom operations. | | | |

Modular Cleanroom



Aluminium Framework

Constructed from smooth profiles and free of horizontal surfaces, significantly reducing particulate build-up.



Future Proof Construction

Lightweight, modular construction can be expanded, reduced, dismantled and relocated easily and quickly at any time.



The Highest Quality

Conforms fully to BS EN 14644 certification and offer air cleanliness levels from ISO Classes 6-9.

Controlled clean environments for critical applications

Fume Containment | Biological Safety | Modular Cleanrooms | Powder Handling | Laminar Flow

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