

# Large PIR Cleanrooms



BRITISH  
MANUFACTURED



FIVE YEAR  
WARRANTY



BESPOKE  
DESIGN  
OPTIONS



ISO CLASS 6 - 9  
ENVIRONMENTS



**Monmouth Scientific's range of larger Modular Cleanrooms typically use 80mm thick double steel skinned, food safe coated, PIR wall panels.**

We can provide levels of cleanliness from ISO Class 6 through to ISO Class 9, depending upon customers requirements. We can provide a full service through from design and initial specification through to a full turnkey installation.

The PIR range typically utilises a plastic coated double steel skinned 80mm thick wall panel with Polyisocyanurate (PIR) insulation. These panels deliver an impressive strength to weight ratio, hygiene and temperature control, plus fast build times. This system will virtually eliminate the risk of mould and bacterial growth thanks to its ability to repel water and vapour. PIR panels are also fibre free, so there's no risk from airborne contamination. Engineered joints give excellent air tightness for further protection and prevention of dust ingress. Lengths of up to 18m give you more flexibility in design and can speed up construction.

A choice of surface finishes and colours are available but typically include: Foodsafe laminate/polyester, PVF2 and HPS200.

Rooms can be constructed in any size or shape and can be provided with self-supported walk-on ceilings if so required.

# Modular Cleanrooms



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**Our Modular Cleanrooms offer a cost-effective solution to creating a clean area within an existing room or space. The area is constructed from Monmouth's NEW free-standing aluminium framework which can be assembled on site in just a few hours.**

Each room is entirely bespoke, allowing us to accommodate sizes from small to large scale constructions. All components are manufactured from long lasting and easily cleaned materials to ensure years of uninterrupted service. The construction is lightweight and can be dismantled and relocated if required. With a choice of different size standard elements, a variety of working areas can be constructed. Panel walling is constructed from aluminium composite, to suit requirements, and clear non-break polycarbonate creates window panels.

Air cleaning filtration device(s) are fixed to the outside walls or ceiling and as air enters the room it is drawn through a HEPA filter (99.997% efficient at 0.3 microns) creating a positive pressure and clean air environment. A variety of levels of cleanliness can be achieved; ISO Class 6, 7 or 8 are the most common.

The Modular Clean Rooms can be built with or without changing/entrance areas. The entrances can be constructed as sliding doors, hinged doors, strip curtains or a combination of the three. If preferred, transfer hatches can be built in to allow the safe and easy passing of items into the clean air environment.

# Cleanroom Kits



**BRITISH MANUFACTURED** 

**FIVE YEAR WARRANTY** 

**SIMPLE BUILD & CONSTRUCTION** 

**ISO CLASS 7 & 8 ENVIRONMENTS** 

**Cleanroom Kits is the new and easy Modular Cleanroom concept brought to you by Monmouth Scientific.**

## Quick Delivery

Entirely designed & manufactured at our HQ in the UK, select from multiple available setups and we will ship to you in a matter of days.



## Simple Construction

We provide a solution with detailed instructions that is easily constructed by anyone with basic DIY skills.



## Flexible Validation

Once installed, the cleanroom is ready to be validated to the required classification.



## Improved Aluminium Framework

Specifically designed for Cleanroom use, Monmouth have developed a structure that is constructed from smooth profiles and free of horizontal surfaces, significantly reducing the potential of particulate build-up.



## Size Specification (W x D x H)

MODULE 4M	MODULE 6M	MODULE 9M	MODULE 12M
2000mm x 2000mm x 2350mm	3000mm x 2000mm x 2350mm	3000mm x 3000mm x 2350mm	4000mm x 3000mm x 2350mm

Available with Optional Atriums.

# Flexible Wall Cleanroom Canopies



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**FIVE YEAR WARRANTY** 

**SIMPLE BUILD & CONSTRUCTION** 

**ISO CLASS 7 - 9 ENVIRONMENTS** 

**Flexible Wall Clean Air Canopies can be constructed in any size or shape. They can offer cleanliness levels between ISO Class 7 and ISO Class 9.**

The system consists of an aluminium or powder coated zintec frame with floor to ceiling strip curtains hung on 1, 2, 3 or all 4 sides.

They can be provided on adjustable feet for permanently locating in a fixed area, or the system can be mounted on lockable wheels enabling them to be wheeled over equipment when necessary.

## Clean Air Modules

**Clean Air Modules (CAM) can be fitted to a wall, floor or ceiling designed to create a positive pressure environment within Cleanrooms.**

These systems have varied air speed controls and provide clean air through an EU4 grade pre filter and an H14 HEPA filter, which is 99.997% efficient at 0.3 microns.



### Size Specification

CAM 400	CAM 900	CAM 1000	CAM T 2000	CAM 2250
400 m <sup>3</sup> /hr	900 m <sup>3</sup> /hr	1000 m <sup>3</sup> /hr	2000 m <sup>3</sup> /hr	2250 m <sup>3</sup> /hr