

MMC RANGE

# Modular Mini Clean Rooms

for retro-installation and upgrade of existing room space



► **AIR QUALITY**

Meeting recognised Standards worldwide.

Modular Mini Clean Rooms may be supplied to ISO 14644-1 Class 5, 6, 7, 8 & 9 (ANSI/IEST/ISO in US), the International Standard replacing Fed Standard 209E.

► **WHY MODULAR?**

Modular Mini Clean Rooms offer a cost effective alternative to traditional 'built' facilities. They are completely freestanding, easy to assemble and are a cost effective way to upgrade existing room space.

The modular design of both soft and hard wall clean rooms allows for the components to be packaged with a low volume and shipped worldwide for installation by local qualified engineers.

► **A flexible and turnkey service; design, manufacture and installation of a clean room with all the features you need.**

Bigneat MMC Clean Rooms can be installed in a matter of days into either a newly built room or existing building space. We include integrated electronics and control systems, completing the installation with the validation and certification of the system.

► **APPLICATIONS**

For any application requiring an environment virtually free of contaminants such as dust or bacteria, for product protection when handling or processing non-hazardous materials. Clean Rooms are used for applications and industries such as hospitals, pharmaceutical, medical, aerospace, microelectronics, optical and computing.

► **CLEAN ROOM DESIGN TYPES**

**Soft wall:** This clean room system consists of an epoxy coated tubular mild steel support frame structure that supports the ceiling grid, fan filter housings and clear PVC curtain strip sides. Filtered air is provided by fan/filter units mounted in the ceiling that draw room air through a pre-filter and HEPA filter and blow sterile air down into the clean room. Ceiling infill panels will be installed in sections free of light fittings and fan/filter housings. Jacking castors allow mobile enclosure to be moved for cleaning, maintenance and production modifications.

**Rigid wall:** Our modular rigid construction and design comprises 1 metre panels (manufactured from mild steel with a low particle generating coating anodised aluminium and can include clear cast acrylic windows or other accessories or doors as appropriate). It is a strong construction and the walls and ceilings of the clean room are easy-to-clean and sterilise which is an advantage over 'soft-wall' constructed facilities. Filtration housings are roof mounted with a low level return route back to the filtration system.

Bigneat manufactures clean rooms to a maximum span, clear of structural supports, of 4 metres.



Branding Options

# IMPROVE RELIABILITY, IMPROVE PRODUCTIVITY, IMPROVE SAFETY.



Soft wall class 100/class 5 vertical laminar flow modular clean room

## ▶ IT'S YOUR CHOICE!

Clean room sizes up to 7 x 4m.

Choose clean room colour.

Select your options from an extensive list.

### OPTIONS INCLUDE:

- Airlock facilities for personnel, product and waste materials
- Branding and decorative features within acrylic windows
- Compressed air inlets
- Curtain strip walls (coloured, fire retardant, laser safe)
- Electrical sockets to side walls or ceiling
- Feature and coloured lighting
- Integrate controls into the structure of your enclosure such as remote status indicators, beacons and control system displays
- Positive and negative environment pressures.
- Static eliminator bars
- Temperature and humidity control.
- Traffic light system - safe to enter status
- Utilities, gas, water and waste as required
- Variety of door choices
- Visible & audible alarms for incorrect airflow conditions
- Lighting to customers requirements
  - White
  - UV Yellow
  - Black light

## OTHER CLEAN ROOMS TYPES ARE AVAILABLE, PLEASE ENQUIRE FOR MORE DETAILS:



### FILTRATION USED IN MMC CLEAN ROOMS

**Pre-filtration** eliminates particles at 5.0µm or larger to an efficiency of 92% as defined in BS EN ISO 779.

**Downflow sterile air** HEPA filtration (H14 Standard) eliminates particles 0.3micron or larger to an efficiency of 99.995% providing ultra-clean particle free air.

**ULPA (U16 Standard)** is available as an optional upgrade and has an efficiency of 99.999% for particle sizes of 0.1 – 0.3micron MPPS (Most Penetrating Particle Size) as defined in EN 1822.

## ▶ ESSENTIALS

High quality construction.

Largest component of enclosure for on-site assembly will fit through standard doorway.

## OTHER ENCLOSURES TYPES FROM BIGNEAT, PLEASE ENQUIRE FOR MORE DETAILS:



Controlled Environment Enclosure for Laboratory Automation.



A multi-use enclosure with several different compartments providing both operator and product protection.

## ▶ QUALITY ASSURED



Bigneat is accredited to BS EN ISO 9001: 2008



Bigneat systems are CE marked

Bigneat manufactures from UL approved components

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