

PHARMA CLEANCUBE MAXI 2



Grade C&D



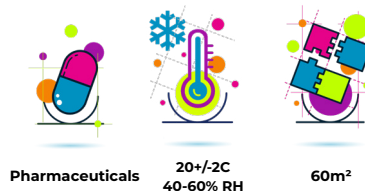
Press play for
video content

THE CLIENT

Hammersmith Medicines Research (HMR) – one of Europe's leading early-phase clinical research organisations, specialising in Phase I and early Phase II clinical trials. Founded in 1993, HMR provides end-to-end clinical research services from its purpose-built London facility, supporting Pharmaceutical and Biotechnology companies with safe, high-quality and innovative medicine development.

THE BRIEF

To support the expansion of its aseptic manufacturing capabilities, HMR commissioned Guardtech to design, manufacture, install and qualify a Cleancube Maxi 2 GMP Grade C aseptic manufacturing suite at its Park Royal facility in London. Installed within the site's undercroft car park, the off-site manufactured facility accommodates a two-glove isolator while providing controlled gowning, material transfer and aseptic manufacturing areas. Once HMR's permanent laboratories become operational, the Cleancube will continue serving as a flexible overflow and business continuity facility.



The Cleancube project included a Guardware furniture fit-out.

"The whole team went the extra mile..."

Guardtech Project Manager Arran Williams said: "This was a fantastic project for everyone involved. Delivering a GMP manufacturing facility in central London always brings logistical challenges, but thanks to the meticulous planning and commitment of our project, manufacturing and installation teams, everything came together incredibly smoothly. "Everyone pulled together and went the extra mile to accelerate the programme wherever possible, helping HMR bring this important facility online as quickly as possible."

Arran Williams
Guardtech Project Manager



cleancube
mobile cleanrooms



◆ **Electrical:** GT Lux Pro recessed LED cleanroom lighting at 500 lux working illumination, PIR occupancy sensors, emergency lighting provision, 3-compartment DADO trunking throughout, 10 double 13A sockets, 8 RJ45 network outlets, distribution boards, door interlock system, smoke detection throughout the facility.

Green Fence

Container 1

Container 2

Overhang of HWR building

Isolator

06. Laboratory Area
GMP C
+55Pa

05. Large Setup Area
(Non-sterile mant)
GMP C
+45Pa

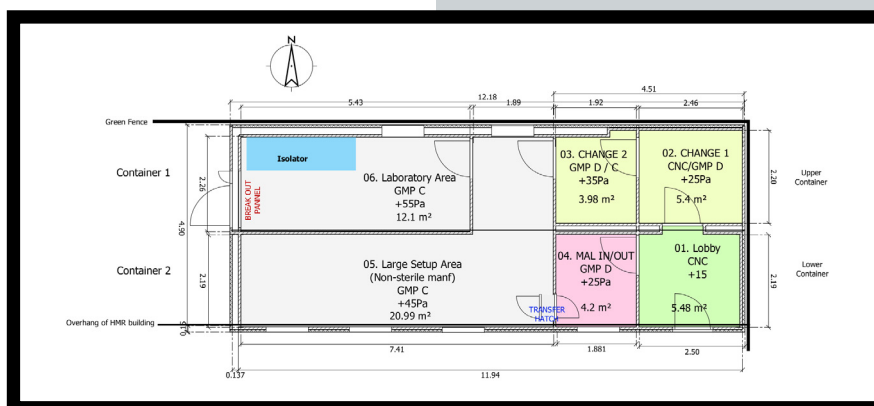
13. CHANGE 2
GMP D / C
+35Pa

02. CHANGE 1
CNC/GMP D
+25Pa

01. Lobby
CNC
+15

MAIL IN/OUT
GMP D
+25Pa

TRANSFER WATCH



PHARMA CONTAINER LAB



Press play for
video content

◆ **Mechanical:** GT Air Plus precision upflow CRAC air handling unit (AHU) with 26kW cooling capacity for heating, cooling, humidification and dehumidification – night-time setback mode for reduced energy consumption, plant skid housing external AHU, GT Flow Plus H14 HEPA Fan Filter Units (FFUs) with F7 pre-filtration and G4 fresh air filtration.

◆ **Furniture & Equipment:** ISOpass Max and ISOhatch Max grade 316 stainless steel active pass-through and trolley hatches with mechanical interlocks, ISO-seat Max ergonomic cleanroom chairs, ISObench Max Trespa-topped workbenches with grade 316 stainless steel frames, ISOlock Lite mild steel lockers.

THE CHALLENGES

Park strife: Installing the Clean-cube container facility beneath an existing undercroft parking structure meant every millimetre of available height had to be carefully managed.

*Continued
on next page*



PHARMA CONTAINER LAB

Contact Us



Guardtech's diligent, dedicated and creative Design Team developed a bespoke low-profile roof system that maximised internal cleanroom space while ensuring the completed facility remained fully compliant with the site's strict structural height restrictions.

Wall order: To satisfy Building Control requirements without compromising cleanroom performance, Guardtech engineered an independent fire-rated wall system specifically for the project. The bespoke solution delivered the required fire separation while maintaining the controlled environment, demonstrating the team's ability to integrate complex regulatory requirements into a modular container cleanroom design.

A long jump for Cleancube: The HMR facility became Guardtech's longest Cleancube modular cleanroom installation to date, incorporating a bespoke 50ft container configuration for the first time. This innovative approach maximised usable manufacturing space within a constrained footprint while retaining all the advantages of off-site manufacture, rapid installation and future relocation if operational requirements change.

Continued on next page



Press play for
video content

PHARMA CONTAINER LAB

Contact Us



Winning in the rain: Guardtech's innovative engineers designed a completely new roof lid for this project, featuring an integrated fall system to promote efficient rainwater runoff while remaining within the site's stringent height limitations. The bespoke solution combined practical weather protection with structural efficiency, ensuring long-term durability without sacrificing valuable internal headroom or cleanroom performance for a very happy client.

Continued on next page



**Press play for
video content**



PHARMA CONTAINER LAB

Contact Us



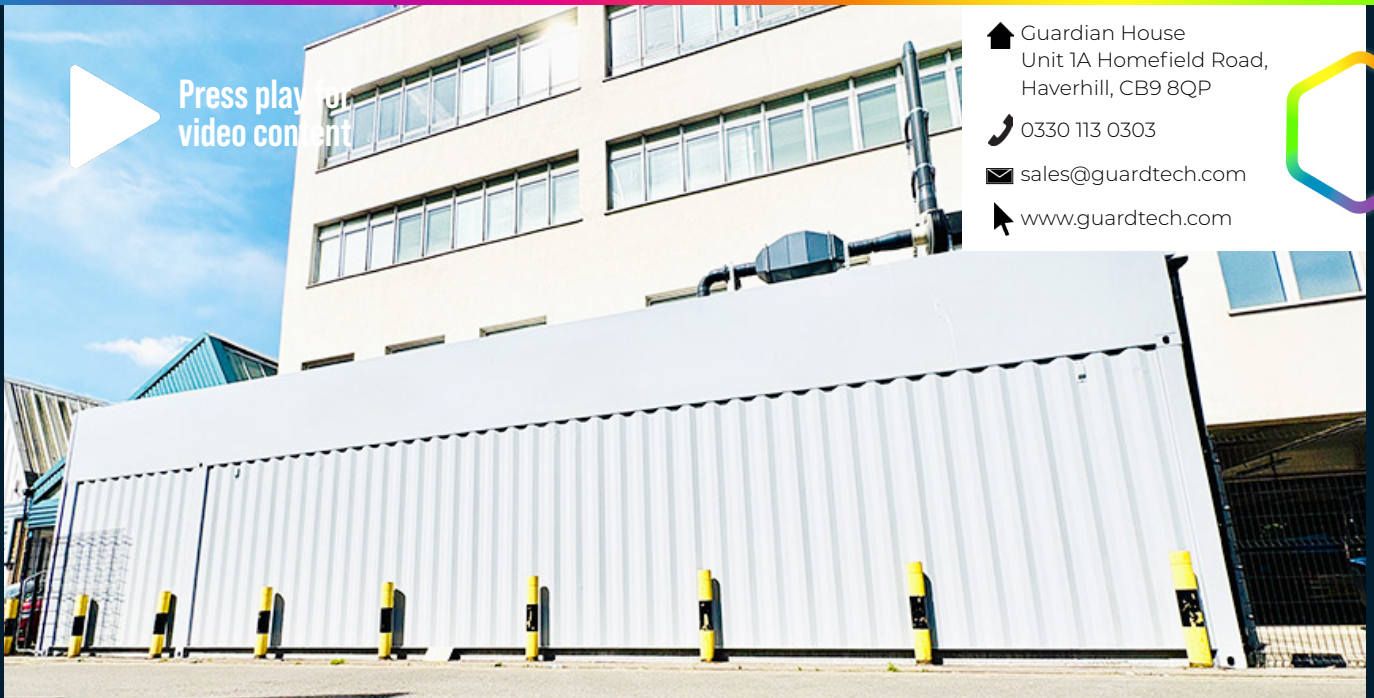
Press play for
video content

Guardian House
Unit 1A Homefield Road,
Haverhill, CB9 8QP

0330 113 0303

sales@guardtech.com

www.guardtech.com



THE RESULT

Guardtech Project Manager Arran Williams said: "This was a fantastic project for everyone involved. Delivering a GMP manufacturing facility in central London always brings logistical challenges, but thanks to the meticulous planning and commitment of our project, manufacturing and installation teams, everything came together incredibly smoothly."

"The whole team went the extra mile..."

"Everyone pulled together and went the extra mile to accelerate the programme wherever possible, helping HMR bring this important facility online as quickly as possible. It's another great example of what Guardtech can achieve when the whole team is focused on delivering for the client."

