



 CAMBRIDGE
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THE CLIENT

Cambridge Clinical Laboratories – an early adopter of new technologies in healthcare diagnostics. CCL continually review worldwide developments to see whether those new technologies could benefit UK healthcare, and this is never more needed than after the COVID-19 pandemic. CCL have a range of tests available to help diagnose and manage health conditions in the Oncology, Virology and Fertility fields and this continues to expand into other health areas.



Diagnostics



20+ / 3



30m²



THE BRIEF

The client wanted to expand their diagnostics testing to include Category Level 3 pathogens. Initially, it was their intention to introduce testing on novel tuberculosis. In terms of redeveloping their existing premises, they were hamstrung by numerous factors – lead times, cost implications, planning consent and the fact they'd have to increase the thickness of concrete floors on a rented building. Placing a plug-and-play CleanCube Midi next to their existing building saved them a huge amount of time, money and hassle.

“The CleanCube team were brilliant to work with...”

Tony Cooke, CEO at Cambridge Clinical Laboratories, said: “The solution was a lot more convenient than any other option in the market. We had really tight timescales and we’re in a rented building – so we’d have had to get landlord’s permission, go through all the planning consent, so this is just so much quicker. The team were brilliant to work – Michael Burton, in particular, was fantastic. I’d highly recommend the Guardtech Group as a containment lab provider.”

Tony Cooke, Cambridge Clinical Laboratories CEO

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CleanCube
mobile cleanrooms

CLEANCUBE MIDI CL3

Contact Us



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THE TECH SPECS

Designed, installed, cleaned and commissioned by Guardtech built to the following specification:

- ◆ **Structural:** GT Shell Plus wall panel system, GT Lid Pro ceiling panel system, 4 x GT Access Lite powder-coated steel single doors with aluminium wrap-around and kick plates, GT Deck Plus vinyl flooring with black rubber capping in Sapphire Blue.
- ◆ **Electrical:** 12 x double 13amp sockets and 6 x CAT6 data outlets in three-compartment PVC dado trunking, Uninterrupted Power Supply (UPS), GT Lux Lite LED teardrop, 64-Amp 3-Phase power supply required bought to external rotary isolator, electromagnetic interlocks, smoke detection heads & fire alarm system with control panel.
- ◆ **Mechanical:** GT Flow Lite wall-mounted split system, 2 x extraction fans.
- ◆ **Monitoring:** GT Scan Plus Environmental Monitoring System measuring temperature, humidity, pressure via wall-mounted LED transmitter with probes.

- ◆ **Furniture & Equipment:** Stainless steel stepover bench, full-length stainless steel mirror, mobile sink with motion sensor tap, Trespa workbenches, 2 x ducted biological safety cabinets with carbon and H14 HEPA filtration.

THE CHALLENGES

- ◆ **Making the upgrade:** The client made a significant saving by taking on a BSL2 unit previously used for COVID-19 testing. As a result, this CleanCube had to be modified accordingly to meet the stringent requirements for a Containment Level 3 lab. The layout for the CleanCube also changed, presenting the CleanCube Install Team with a number of challenges. Among these were the addition of all the new electromagnetic door interlocks and electrical supplies that went into the refurb, as well as reworking the layout to feature three separate rooms.
- ◆ **Extracting a little more:** The upgrade included penetrations for the extract systems, which proved particularly challenging for the team get right. On top of this, the Install and Design Teams worked brilliantly to formulate an extract system that kept the room balanced whilst operatives were working, and not working, with the biosafety cabinets.

◆ **Tight squeeze:** The client required the CleanCube to be situated directly against their host building – this meant pushing it 15 metres into a three-metre alleyway with the building on one side and a fence on the other. It was a tight squeeze, but the Install Team are always prepared to go the extra mile to keep a client happy.

THE RESULT

Tony Cooke, CEO at Cambridge Clinical Laboratories, said: "The CleanCube is up and running and we've been approved by the government Health & Safety Executive to use it. We're developing a novel tuberculosis test and now have our first samples in place. This is an entirely new process from what we've done previously in the lab and part of it needs to be conducted in a Category 3 containment suite. The solution was a lot more convenient than any other option in the market. We had really tight timescales and we're in a rented building – so we'd have had to get landlord's permission, go through all the planning consent, so this is just so much quicker. "The CleanCube team were brilliant to work – Michael Burton, in particular, was fantastic. I'd highly recommend the Guardtech Group as a containment lab provider."