



Client:



Location:

London



Products Used:



DUSTEX®
Dust Control
Solutions



MONITEX®
Monitoring
Solutions

Major Data Centre Fit-Out Stays Dust-Free and On-Track

Project Overview

The LON 01-02 Data Centre is a recently upgraded facility located in London. Construction timeline included excavation and earthworks, before 24 months of building construction, designed to accommodate large-scale IT infrastructure.

The project provided essential support for the technology needs of businesses, government, hospitals, and schools in the region. Mace Construct Ltd were the trusted contractor responsible for the fit-out works of the new state-of-the-art facility.

Challenge

During the fit-out stage of the data centre's construction, it was integral that dusty works remained contained and controlled. Without specialist, temporary hazard control solutions in place, dust could be a direct threat to the future reliability, performance and compliance of the data centre as well as the long-term health of workers on-site.

Reducing the risk of dust migrating to finished areas was especially important to:

- Protect sensitive equipment being installed
- Prevent contamination of cooling systems
- Avoid trapped dust in raised floors or cabling infrastructure
- Minimise electrostatic discharge risks
- Ensure compliance with cleanroom or ISO standards
- Prevent costly delays and rework

Mace recognised the threat that dust presented to the site team working in the environment and the integrity of works already completed. They reached out to RVT Group after having a positive dust control experience on another job.



MONITEX® Area Dust Monitor

Real-time dust monitoring units were placed in the nearby finished areas. Not only did this keep a record of dust levels whilst fit-out works took place, it also meant on-site teams could rest assured that the dust control measures in place were effective.

What is negative pressure?

When dust is created in an enclosed area, harmful particulate is distributed in the air. This can spread to the surrounding environment via windows, doors and keyholes.

Our short video explains how negative pressure can help control airborne contaminants.



Solution

RVT Group recommended a comprehensive solution in-line with the 3C's® methodology (Capture, Contain, Control) to minimise the risk of dust migrating to finished areas of the data centre.

Capture:

RVT Group supplied a DUSTEX® Raptor to extract dust directly from the area where fit-out activity was taking place. By placing the capture hood as close to dusty works as possible, potentially hazardous dust was drawn into the extraction unit via the high performance fan with airflows of up to 1000m³/h. Once captured, dust was then forced through 3 stages of filter media, up to HEPA standard, making it ideal for protecting Mace workers from silica and other harmful dusts.

This multi-purpose, portable filtration unit meant that site teams were protected and could have confidence that their work would not impact other project areas, even during the diversity of dusty works carried out at fit-out stage.

Contain:

Mace paired dust extraction with DUSTEX® Air-lock and DUSTEX® Aire Guardian enclosures to separate work areas and ensure dust created did not migrate to other areas. When paired with the dust extraction units, a fully-contained, all-in-one, dust control solution was created.

Control:

Using the enclosures to seal off work areas and extracting from inside those areas created a negative pressure extraction system. This fully controlled the direction of airflow and meant that contaminated air could not escape unless extracted via the DUSTEX® Raptor (see photo on the right).

RVT Group's dust control solution helped Mace to keep the project on-track, keep compliant with health and safety regulations and, most importantly, keep the team protected from potentially harmful dust particulate.



Have a data centre project coming up?

Our solutions are tried, tested and trusted by contractors across the UK.

Speak to a consultant about how RVT Group's hazard control solution could help your project.

[Contact Us >](#)

