

Commuters, Tourists and Site Operatives Protected from Dust in Trafalgar Square

During dusty applications, RVT provided an effective solution to capture the dust at source.

October 2020



Client:



Location:

Trafalgar Square, Central London

Featured Product Range:



Dustex® Dust Control Solutions

Providing powerful dust control in a busy inner city setting.

Refurbishment was required on the paving around the base of the world-famous landmark, Nelson's Column. This project involved the cutting of flags to size, the cutting of channels for drainage and the cutting of granite coping stones. This kind of expert maintenance ensures that Trafalgar Square is kept safe and preserved to the highest standard for the public.

The Challenge

As a prominent central location and tourist hot spot, Trafalgar Square is an extremely busy area. As this refurbishment involved applications that produced large amounts of airborne dust, a solution was needed quickly to protect the stone masons on site as well as the members of the public in the square. Therefore, RVT was approached for a solution.

Case Study Key Facts

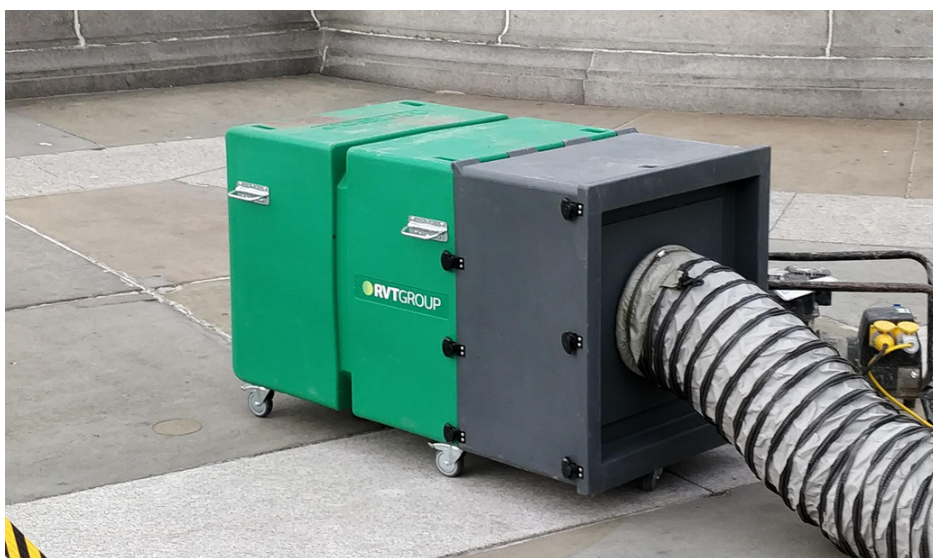
- Trafalgar Square is one of the biggest tourist and commuter hot spots in London, capable of holding over 35,000 people at once.
- The world-famous monument Nelson's column was built from 1840 to 1843, costing the equivalent of around £6 million today.
- This project required the refurbishment of paving at the base of Nelson's Column.
- Multiple cutting applications were producing large amounts of dust in this busy area.
- RVT's Dustex® DustMaster Pro unit was brought on site to create a negative pressure system with the contractor's own dust control enclosure. This ensured that those on site were safe and that no dust migrated outside of the enclosure to the wider square.

The Solution

Whilst the contractor already had their own dust control enclosure in place on site, they wanted a solution that would capture the dust at source. This would ensure that the stone masons working inside the enclosure were fully protected. RVT suggested using the self-contained Dustex® DustMaster Pro unit with the contractor's enclosure to create a negative pressure. Use of the negative pressure principle ensured that the dust was controlled at source, protecting those working inside the enclosure. This also prevented dust migration outside of the enclosure and to the wider square.

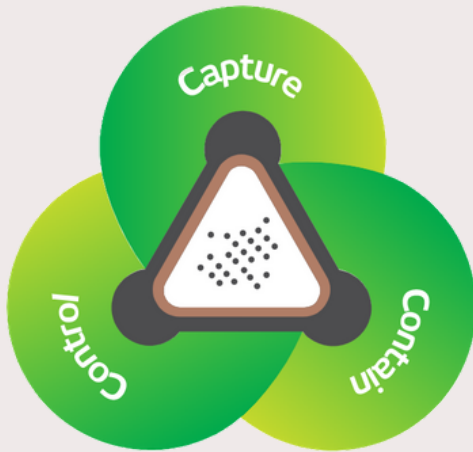


RVT's Dustex® DustMaster Pro creating negative pressure in the contractor's dust control enclosure .



RVT's Dustex® DustMaster Pro on site

The 3 C's Method:



- **Capture the hazard** - Position the dust extraction unit as close as possible to the activity to ensure the dust is captured at source.
- **Contain the hazard** - The work area should be contained as much as possible to prevent dust/fume migrating into surrounding environments.
- **Control the hazard** - Negative pressure can be applied to prevent dust migration further.

Dustex® DustMaster Pro

Ideal for Silica Dust



The Dustex® DustMaster Pro has been designed as a highly efficient dust extraction unit suitable for a wide range of applications.

This unit has an airflow of 2500m³/hr, which makes it suitable for creating negative pressure local dust control.

This powerful unit is supplied with a 600mm x 600mm galvanised capture hood which, via ducting, is connected to a robust plastic moulded filter unit.

The unit includes three stages of filter media; a washable EU4 filter, a secondary EU7 filter and a HEPA filter. The filters sit within the 100% sealed plastic body, ensuring zero dust migration.

"The DustMaster Pro is a great all in one unit. A lot more compact and time efficient than units I have used previously. It is convenient and effective. I would definitely choose this system over other dust extraction systems that are available."

Site Foreman - DBR Ltd