

Raptor in action

Dealing with hazardous dust

Certain localised activities on site – including cutting and sanding, grinding and polishing – inevitably generate a lot of dust. If not handled correctly, this dust can cause significant health issues.

The dangers of dust

All dust is potentially harmful and can lead to respiratory problems if it gets into the lungs. When the dust includes silica – a common ingredient of bricks, concrete, cement and tiles – even inhaling tiny amounts on a regular basis can lead to serious illnesses, including lung cancer.

The HSE emphasises that “...reducing the emissions of dust at source, enclosing the source and removing the dust by effective local exhaust ventilation (LEV) should always be given first priority”



The Raptor self-contained extraction and filter unit

The Raptor is a lightweight, compact unit that can be moved to wherever dust is being produced. Its powerful fan draws in dust and traps it within a three-stage filter system.

- + Lightweight (16kg) and compact
- + Powerful but quiet in operation
- + Effective three-stage filtration, including HEPA filter
- + Airflow of 1000m³ per hour
- + Stackable
- + Can create negative pressures

Watch it in action 

Case study overleaf 

Raptor in action

A serious dust challenge

A construction services company had been asked by Lloyds Banking Group to install new fan coils in the heating system in their Halifax headquarters office. The work also entailed removing the old heating and chiller pipes, as well as the lagging around them. This generated substantial amounts of black dust, which both hung in the air and settled on the floor, to be further disturbed as site workers walked around the site. Even the separate welfare area set aside for the workforce was being contaminated by the dust as it was brought in on their footwear and clothing. Such was the extent of the problem that the contractor had to pick up the expense of regularly cleaning the dust walked through on to the client's carpets as workers left the site at the end of their shifts.

Initially, vacuuming the dust was the control measure adopted, but this could not handle the amounts being produced. This was the point at which RVT was brought in.



Raptors provide the solution

Two Raptor units were recommended to collect and filter the dust. After a week of operation, a site audit found that the existing dust had been completely cleared and there was no dust in the air or on the plastic sheeting. Site operatives' clothing was staying dust-free, which meant that the additional cleaning of the client's carpets was no longer required. The result was not only a dust-free site, but also that the cost of the Raptors was largely covered by the money saved on cleaning.

« One of the two Raptor units filtering dust from the air through the attached ducting and capture hood



DUSTEX®  **Raptor**

The Raptor is easy to deploy, and collects and filters dust in a wide variety of situations. To find out more, contact us on **0808 178 3286** or **info@rvtgroup.co.uk**