

March 2019

# Effective Dust Control at Royal Sussex County Hospital



## Case Study Key Facts

- The original hospital opened in 1826
- The building survived a fire in 1972
- Locals have campaigned for the hospital's redevelopment for 50 years
- In 2014, the hospital secured £420m of Public Investment funding for the works

The Royal Sussex County Hospital is undergoing a significant redevelopment to become one of the UK's top health facilities.

The £485 million project will see all existing buildings replaced along the front of the hospital and new wards built to reflect the hospital's '3T' ethos which prioritises 'teaching, trauma and tertiary care'. When the project is completed, 200 inpatient beds will be moved from 19th century builds into brand new accommodation and 65% of all rooms will be en-suite. Alongside gaining a new helideck for air ambulances, the hospital will increase capacity for Cancer Services, Neurosciences, Stroke Services and Intensive Care.

By 2024, staff and patients will benefit from over forty redesigned wards and two brand new buildings. The impressive project will meet the highest of clinical standards and will offer patients a modern, spacious care environment.

- Construction project led by the Kier Group
- High levels of dust created during hospital development
- Essential to prevent dust contamination into clinical wards
- Effective and mobile dust control was critical
- RVT's Dustex Raptor was selected as the ideal solution

## Dustex Raptor: Key Benefits

- Lightweight and compact
- Powerful yet very quiet in operation
- Perfect for sensitive areas
- Effective three-stage filtration, including HEPA filter
- 1000m<sup>3</sup>/hr airflow
- Can be used to create negative pressure in order to avoid dust migration

## The challenge

Kier Construction, a key contractor on the project, sought solutions to satisfy the health and safety considerations necessary to carry out work in a live hospital. As their work would focus largely on stripping walls back and re-plastering, they had a particular need for dust control to prevent cross-contamination into the clinical wards. The solution would need to be effective and mobile. Kier approached RVT to find a system that would fulfil their requirements.

## The RVT solution

RVT's Dustex Raptor was an obvious choice for this demanding project. The potent Dustex Raptor is a self-contained dust control unit that is designed to capture and filter dust from a wide range of tasks and applications found on construction sites. The unit comes complete with casters for ease of movement, and has a detachable lid to enable filters to be cleaned, checked and changed when necessary.

Additionally, the unit is fully suited to sensitive environments due to its powerful yet quiet operation. This enabled the unit to filter dust efficiently without disturbing patient care. These features made the Dustex Raptor perfect for the Royal Sussex County Hospital project.

**"Since having the Raptors in place we have had no comments regarding the leakage of dust into clinical areas. It has also helped to keep a cleaner working environment for our operatives"**

Site Manager, Kier Construction



Powered by 110v droppers to minimise cabling on the floor



The powerful filtering maintained a safe environment for construction workers and for patients in adjoining wards

© Copyright 2019 RVT Group. All rights reserved.