

Case study 719

Andrews Ventilation Hire extracts toxic exhaust fumes!

When a market leading, multi-disciplinary construction company was tasked with the refurbishment of a major pharmaceutical company's distribution warehouse, Andrews Ventilation was called in to offer expert advice.

Our experienced specialist team understand the challenges faced by developing large projects such as this, especially those with difficult ground conditions. The knowledge which our ventilation technicians have gained in these developments allows us to provide the client with innovative, cost effective solutions ensuring the success of the project and less risk to the client.

During the refurbishment process, a diesel-powered piling rig – which is commonly used in foundation reinforcement and other groundwork projects – was in operation inside the structure. After discovering this high powered tool was producing toxic exhaust fumes, our ventilation hire experts were rushed in to provide a suitable temporary solution.

Having analysed the area, we proposed two FV300 fans to extract the fumes given off by the machinery on site. A Special Air Diffuser was mounted on the engine compartment to collect the fumes which were fed through 12" diameter flexible ducting to the first FV300. This fed the fumes via more flexible ducting to a second FV300 which in turn vented the fumes to atmosphere through more flexible ducting.

Our units were originally required on hire for one week; however after experiencing its effectiveness, our tailored system remained in for an additional week.



Air flow (max) - 5,100 m³/h
Power supply - 110 V 1 ph 50 Hz Run 11.4 A
Plug type - BS4343 16 A 110 V
Generator size - 5 kVA min
Transformer size - 5 kW min
Duct length (max) - 40 metres
Duct size - 300 mm
Noise level (max, with duct) -72 dBA @ 1 metre
Weight - 95 kg
Dimensions (L x W x H) - 631 x 822 x 1,054 mm
Control - Manual
Average power consumption - 1.25 kW/h

