

HIGH VACUUM ON TOOL DUST EXTRACTION SYSTEM

VESTAS BLADES, VENTURE QUAYS, ISLE OF WIGHT



With a 28 per cent market share, and 33,500 wind turbines installed, Vestas is the world's leading supplier of wind power solutions.

In December 2006, Climavent installed a High Vacuum On Tool Dust Extraction System to capture the GRP dust generated by sanding and finishing the Turbine Blades.

The system is capable of providing Dust Extraction for 35 operators and consists of a fixed ducting installation with two DH2030 High Vacuum Exhaust Fans and an RPC4/23 Reverse Jet Filtration Unit.



The system extracts directly from the hand tools which have integral extraction facility and 38mm hose connections. Once captured the dust is transferred through the ductwork to the filtration unit where it is separated allowing the cleaned air to be recirculated back into the workplace. The dust is discharged from the filter hopper through airlock and diverter valves to two 1m³ IBC's. In order to allow the finishing process to continue uninterrupted we have supplied an auto changover system to allow the IBC's to be filled and emptied in sequence.

The system is now serviced on a quarterly basis by Climavent engineers who also service Dust Extraction Systems at the Vestas factories in Newport and Southampton.

