

POLISHING AND LINISHING DUST EXTRACTION SYSTEM

BIOMET EUROPE, SOUTH WALES



Biomet Europe design and manufacture Titanium joints for hips, knees and shoulders.

In March 2007, Climavent installed a Centralised Dust Extraction System to capture the Titanium Dust generated in the Polishing and Linishing Workshop.

In order to prevent fires within the main dust collecting equipment a bank of four LW22 Wet Dust Exhaust Units have been installed with a CM7-650 centrifugal fan.

The system has an airflow capacity of 20,000m³/hr and provides Dust Extraction for six polishing wheels and four linishing belts. Purpose built extraction nozzles are provided at each machine and linked to a fixed ductwork installation which connects back to the Wet Dust Exhaust Units.



Once captured the dust is transferred to the LW22 units where it is separated allowing the cleaned air to be discharged to atmosphere. The dust particulate settles as sludge in the base of the Wet Dust Exhaust Unit and is removed periodically by rake.

Climavent provide annual servicing of the Wet Dust Exhaust Units including LEV, noise, vibration and water bacteria testing