

Improving LEV System Efficiency

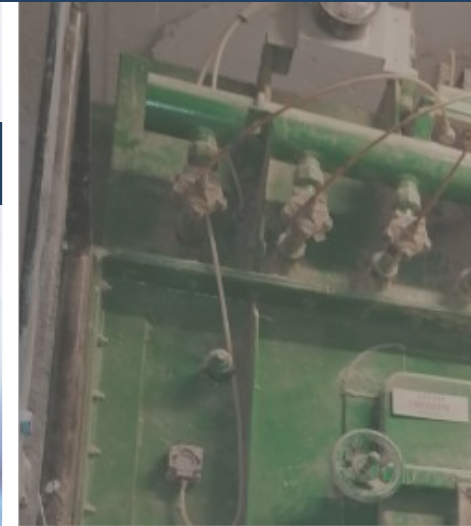
CHALLENGE



We were recently contacted by a worldwide food ingredients production company for help with their dust extraction at one of their plants in the south of England. They had 23 dust extraction units, which they felt were not operating as efficiently as they could be.

In order to maintain HSE COSHH compliance, the Maintenance Manager wanted to ensure that each of the 23 local exhaust ventilation (LEV) units was operating to full capacity and that they were as energy efficient as possible.

On initial inspection the dust extraction units were found to be in a poor condition. Many component parts needed attention and cleaning of the units had been neglected for a period of time.



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CASE STUDY

IMPROVING LEV SYSTEM EFFICIENCY

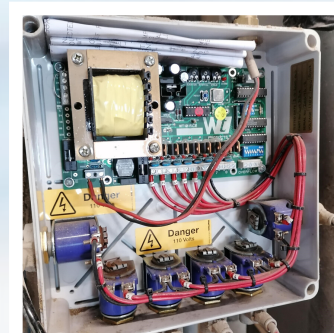
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SOLUTION

Our LEV specialist conducted a comprehensive survey of all 23 dust extraction units. The survey involved inspecting filter cartridges, bags and fastenings, fans and motors, reverse air controllers and valves, door seals, the compressed air manifold etc. in each unit.

Our survey report contained recommendations for any parts that needed changing or repairing and we prepared a cleaning schedule for the LEV units going forward. We then changed the filters in all units, conducted the recommended remedial works and performed electrical and mechanical checks.

The work completed by HVDS engineers significantly improved the dust extraction efficiencies of the plant to ensure COSHH compliance and worker safety.



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