

## Case Study

---

We were asked to evaluate the existing Wood Dust Extraction System at a Comprehensive School after it had been suffering from poor performance for a number of years.

The system was inadequate for the School's needs as nine pieces of equipment were being used simultaneously, however the incumbent system was only capable of supporting two pieces of equipment.

Our design ensured that 100% utilisation could be achieved for all pieces of equipment spread over a number of classrooms.

The internally sited Dust Extraction System is equipped with a fully automatic cleaning mechanism, served by a control panel; the shaker is automatically activated upon shut down and hence reduces the dependence upon the operator.

Dust laden air enters the filter through the air inlet connection, the heavier particles are immediately deposited into the bins. Fine particles of dust travel with the airstream and are retained on the inside surfaces of the filter fabric until dislodged by the operation of the shaker mechanism.

Four steel bins each with a 12m<sup>3</sup> capacity are fitted with quick release toggle action sealing bands to ensure simple and clean removal of the collected dust by an operative.

The system was installed to ensure no disruption to the school and its operations.

