

CASE STUDY

King Edward VII Specialist Science & Sports College



King Edward VII Specialist Science & Sports College in Coalville, Leicestershire have recently completed the renovation of their indoor swimming pool and changing rooms.

The pool was originally heated with an indirect gas air heater, the air being distributed in the pool hall by ductwork along the length of the pool and exhausted to atmosphere on the other side.

The heating in the changing rooms had long since stopped working. There was no energy conservation, the existing pool hall air heater could not cope with the demand in the winter months and the heating unit was very noisy.



ESG designed a variable fresh air ventilation system to serve the pool hall, the male and female changing rooms. The air handling unit was installed in a new extension to the existing plant room. The pool hall has no visible duct work as it is ventilated using a loop air distribution system. High level supply air and low level extract from one end. This provides even temperatures around the pool hall and ensures bathers feel no drafts. It is also a very efficient method to ventilate a pool hall.



Very pleased with equipment, it has made an amazing difference to our pool hall and changing room environment, as well as making a sizeable energy and carbon emission saving.



David Riley
College Manager



Two zone heating control ensures the pool hall and changing rooms remain at the correct temperatures for comfort.

Silencers ensure low sound levels inside and outside of the pool building.

System Specification

Pool - 25m x 9.7m

Water Temperature - 29.0°C

Air Temperature - 29.5°C

Changing Room Volume - 380m³

Pool Ventilation Rate - 4.3m³/s

Changing Rooms Ventilation Rate - 1.1m³/s

Total Ventilation Rate - 5.4m³/s

ESG

Pool Ventilation

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Contact us for a free appraisal of your requirements.

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