

## CASE STUDY

# Sandbach Leisure Centre Cheshire



*Sandbach Leisure Centre*

**As part of the renovation of the pool hall and wet changing rooms, ESG supplied and installed their patented combined pool hall and changing room ventilation unit incorporating variable fresh air ventilation and heat recovery.**

The existing system of ventilation did not include any form of energy conservation. Warm air was being blown into the pool hall along one wall and then extracted via roof fans.

ESG designed and installed a duct system to improve ventilation efficiency, installing high level supply combined with low level extract.

The new ESG ventilation system combined with our control system will save in the order of 86% of the gas and electricity cost, compared to full fresh air ventilation. It will also save over 300 tons of CO<sub>2</sub>.



Very pleased with new system which has really improved air quality and poolside conditions.

Quick and easy to maintain which is fantastic. Far better than previous installation.



Martha Chambers  
Assistant Manager





ESG was employed by Atherton & Partners Ltd of Birkenhead who provided ESG with all the builders work required for the installation. The project was completed with only 2 weeks closure of the pool.

NPS Stockport managed the project and Fairclough Construction were employed as the main contractor.

The air handling unit was supplied to site in component form and assembled in position.

A complete supply and extract ductwork system and controls system was then installed and commissioned. Local staff training was completed and the system handed over.

#### **System Specification**

*Pool - 25m x 9.0m*

*Water Temperature - 29.5°C*

*Air Temperature - 30.0°C*

*Changing Room Volume - 482 m<sup>3</sup>*

*Pool Ventilation Rate - 4.7m<sup>3</sup>/s*

*Changing Room Ventilation Rate - 1.3m<sup>3</sup>/s*

*Total Ventilation Rate - 6.0m<sup>3</sup>/s*

# ESG

**Pool Ventilation**

### **ESG - The Leading Pool Ventilation Specialist**

ESG designs and builds pool ventilation systems, completing over 100 in the last 5 years.

An independent specialist since 1979, ESG aims to provide all its customers throughout the UK with best conditions, quality products and a complete system.



- Design to meet individual customers requirements
- Provide systems for all types and sizes of pool
- Deliver lowest running cost and long life
- Embrace new technologies, to improve products

Contact us for a free appraisal of your requirements.

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