

CASE STUDY

The Carnegie Club, Skibo Castle, Dornoch



The Carnegie Club at Skibo Castle is an internationally renowned private members club, situated in the Highlands of Scotland.

The recently renovated swimming pool, a listed building, has been rebuilt to maintain the original appearance. The pool is contained in a solid stone walled, glass roofed building.

ESG was selected by the engineering consultants, K J Tait, to design, build, install and commission the complete ventilation system for the swimming pool.

The design constraints meant the installation had to be unobtrusive and still perform to a very high standard. ESG's system meets the demands of high fabric loss combined with limited boiler capacity as well as meeting low sound levels.



Members have commented on how perfect the ambient temperature was in the Pool Pavilion making it a great place to relax and unwind



Peter Crome
Chairman and MD
Carnegie Club, Skibo Castle





ESG installed their energy efficient air handling unit in the new plant building, constructed to resemble a boat house. The pool hall supply and extract ducts have been installed underground from the boat house to the pool undercroft.



ESG configured their control system to provide the best conditions in the pool hall and avoiding condensation forming on the glazing, even when outside temperatures drop to -7°C , without exceeding the boiler capacity available.

System Specification

Pool - 21.5m x 8.0m

Water and Air Temperature - 29.5°C

Ventilation Rate - $5.0\text{m}^3/\text{s}$

Boiler Capacity - 131kW-70F/60R

Fabric Loss - 78kW

Sound - internal NC35, external NC40

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.