



Merton Hotel, Jersey

**The Merton Hotel in St Saviour Jersey has the largest leisure facility on Jersey.**

Part of the facility is the leisure pool, which is located inside the Aquadome. The pool has a water slide, a lazy river, cascade fountains and spa pools.

20 years ago ESG designed, installed and commissioned the ventilation system for this complex. The air handling unit used variable fresh air to control the environment within the pool hall.

Sadly, nothing lasts forever and the hotel management asked ESG to supply, install and commission a replacement system. The new system includes two important improvements; low level extract and heat recovery.



Conditions are a lot better than before. Work carried out within timescale and budget - would certainly recommend ESG.



David Renouf  
Project and Engineering Manager  
Seymours (Services) Ltd





Aquadome spa pool



Aquadome at night

ESG designed and installed a replacement energy efficient ventilation and control system. The new installation includes variable fresh air with the addition of a plate heat exchanger, providing further heat recovery. ESG also modified the distribution ducts to include low level extract, to improve ventilation efficiency. The control system constantly adjusts the air flows within the air handling unit to control humidity and temperature within the pool hall whilst taking into account external weather conditions. Thus providing excellent conditions combined with the lowest running costs.

The same members of the ESG team who installed the original system returned to Jersey to carry out the new installation.

#### System Specification

Pool - 300m<sup>2</sup>

Water Temperature - 29.5°C

Air Temperature - 29.5°C

Ventilation Rate 6.8m<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.