

VES CASE STUDY

NEWTON AYCLIFFE LEISURE CENTRE DURHAM

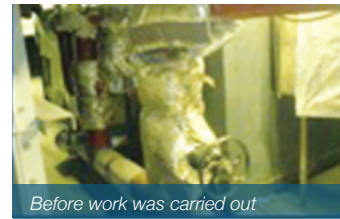


Newton Aycliffe Leisure Centre

Newton Aycliffe Leisure Centre, situated in Beveridge Arcade with a state-of-the-art fitness facility spread over three floors, a comprehensive list of exercise classes, 25 metre pool and sauna and steam room facilities, pride themselves on the experience every one of their members enjoys with each visit.

VES Assistance

VES were asked to improve and add heat recovery to the existing leisure centre's main AHUs with emphasis on improving energy efficiency, whilst still maintaining the CIBSE design requirements. The existing system currently utilised separate AHUs for the learner and main pool.



The Problem

VES encountered several issues that required solving throughout the project as described below:

- ▶ The original swimming pool units were located in high-level plant-room with separate extract system at basement level, exhausting to the atmosphere. This wasted a significant amount of energy
- ▶ The leisure centre needed to remain in operation throughout the works
- ▶ There was limited space available in the plantrooms

The Solution

To avoid significant energy waste, VES installed a single unit to supply both areas to reduce operating costs. Localised heaters allowed the separate areas to maintain individual temperature control. The new unit was designed to allow recuperation of thermal energy to reduce operating costs.

An internal building riser was modified to allow new ductwork to be installed from the pool to the high-level plantroom. Components from the existing system were re-used where possible to reduce installation costs.

So that the centre could remain open during the works, regular site meetings were held to liaise with the leisure centre management to minimise disruptions. Installation works were carefully phased to ensure constant supply to the swimming pools, allowing them to remain in operation and not impact on revenue.

Design and configuration of the new AHUs and services now allow greatly improved access to the plantroom.

Find out more about VES Specialist Site Services.

