

John Roan School, Greenwich - London

Consultant

- Wates Construction

Client

- DMA South Ltd

Sector

- Education

Products

- Wind-iVent System

Equipment

- Natural Ventilation System

Application

- Balance Terminal



Front Entrance



Three 1.5msq Wind-iVent Systems



Internal view of Hall

Founded in 1677, John Roan School is one of the oldest state schools in the country, with a rich and distinguished past. Having received funding under the government's Building Schools for the Future initiative, the School is on the cusp of opening their doors to one of the UK's most innovative, fun and flexible learning environments.

The school will boast a modern sports hall housing four badminton courts, one indoor tennis court, and a basketball and volleyball court with space for 5-a-side football. There is a separate activity studio where Zumba and dance classes can be held, which will take PE lessons to a new level at the school! The canteen will have cashless payment, which will help elevate the distress of pupils forgetting or losing money.

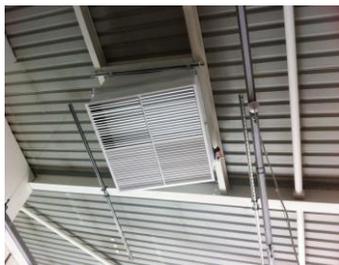
The John Roan has been dedicated to serving the community of Greenwich for more than 335 years. With a brand new, state-of-the-art 7,600m² building at Westcombe Park and a fully redeveloped facility at Maze Hill its is one of the largest Schools in the United Kingdom.

i-Control Solutions Available

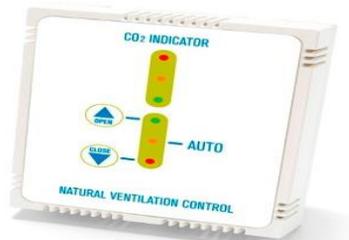




uPVC Low-Leakage Damper



Internal view of grille



Controller C/w CO₂ & Temp

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Product Range

The Airtherm “Wind-iVent” is a natural ventilation system operating on established aerodynamic principles. As external wind flows around the terminal itself, positive and negative pressure areas are generated. On the positive side air enters the louvres of the terminal and is directed down through the internal vanes into the room below allowing a fresh air supply to be delivered, and on the negative side the stack draws the stale unwanted air which is expelled through the terminal into the atmosphere.

Installation

The Wind-iVent units are lifted by a specialist crane company who work closely with our on-site engineers. The systems are mounted onto the 3mmthk aluminium fully insulated roof upstands. Each unit is fixed and secured to not only the upstand but internally using universal type fixings.

Once each unit is secured a low-leakage uPVC damper and 24v actuator is fitted, followed by the insulated plenum and an internal powder coated grille to complete the system.

Airtherm offer a roof plate solution for all situations, including self mount flashings and curb mount flashings with suitable upstands. The options for each project will be discussed at the design stage in detail, including the necessary openings that are required to suit our systems.

The features and advantages of such a system:

- ☼ A fresh air supply for workers - proven to increase productivity & reduce staff sickness
- ☼ Naturally ventilated - reduce your energy costs and carbon footprint without the need for mechanical ventilation
- ☼ Night time purge of stale air - creating a fresh working environment for staff the following morning
- ☼ Better control of building temperature and CO² levels
- ☼ Free cooling
- ☼ Easy to use Stand-alone control solution



99.7% rain rejection - Class 'A' Louvre

