

Tipton Bridge, Tipton, West Midlands

Consultant

- ESDP Limited

Client

- Cockbill Grant Limited

Sector

- Healthcare

Products

- Wind-iVent System

Equipment

- Natural Ventilation System

Application

- Balance Terminal



Wind-iVent System

Airtherm Engineering have recently completed the new installation of one natural ventilation system for Cockbill Grant Limited based in Rughley - Staffordshire. Airtherm beat local competition based on our knowledge, experience and technical ability providing detailed design proposals and drawings for the client's consideration.

The unit selected for the project was based on information provided by the client, which consisted of the following: room volume, occupancy level, heat gains and geographical location of the building. Our computer aided calculation package selected the optimal size matching the information inputted by our technical engineer ensuring full performance and satisfaction for the application.

Our natural ventilation systems are designed in line with all current publications such as CIBSE guidelines, AM10 Natural Ventilation in commercial buildings and Building Bulletin 101. The terminal sizes are selected by our new computer aided software 'Wind-iCalc' and fully conform to the CIBSE requirements.

i-Control Solutions Available



Product Solution



Natural Ventilation Terminal



uPVC Low-Leakage Damper

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



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