

The Midland Studio, Nuneaton

Consultant

- Engineering Practice

Client

- Midland Ventilation Ltd

Sector

- Education

Products

- Wind-iVent Systems

Equipment

- Natural Ventilation Systems

Application

- Balance Terminals



Front Entrance

Airtherm Engineering have recently completed the new installation of two natural ventilation systems for MVS Limited based in Stourbridge, West Midlands. Airtherm were MVS Ltd first choice when considering the scheme due our knowledge and experience on previous installations.

The project involved the use of our Airtherm wall mounted i-control solution which consists of room mounted ABS plastic control panel C/w in-built temperature sensor, CO² self-calibrating carbon dioxide sensor with traffic light indicators, night time cooling and external rain sensors. The complete system was commissioned by our appointed engineers.

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

i-Control Solutions Available





Natural Ventilation Terminals

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.



uPVC Low-Leakage Dampers

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



Contact Details:

Airtherm Engineering Ltd
Unit 8A,
Gainsborough Trading Est
Stourbridge
West Midlands
DY9 7ND

Tel: 0844 8092509
Fax: 01384 375218