

Ventilation Management

Introduction

The iFan is designed to offer environmental management through a controllable solution for the ventilation of Public, Commercial and Residential buildings, applying demand controlled ventilation ensuring optimum performance at minimum running costs.

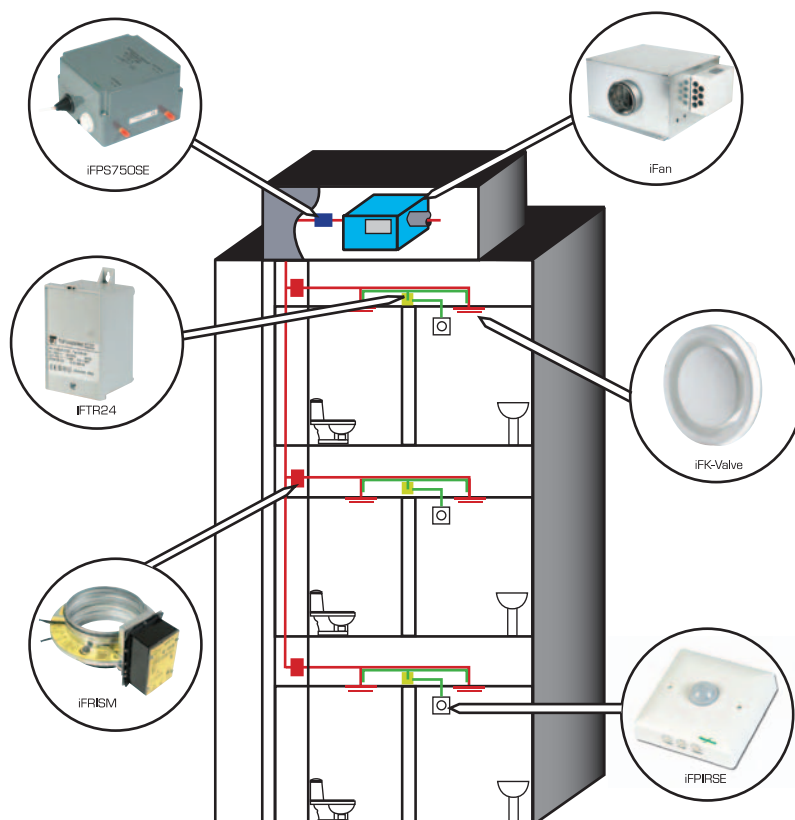
What Fläkt Woods Delivers

Full technical support to assist consultant and contractors to select appropriate solution for optimum performance.

Full range of Fans, Sensors, Switches, Valves, Dampers, Ducts and Fittings to ensure the most flexible control strategy to reduce running costs.

What the System Provides

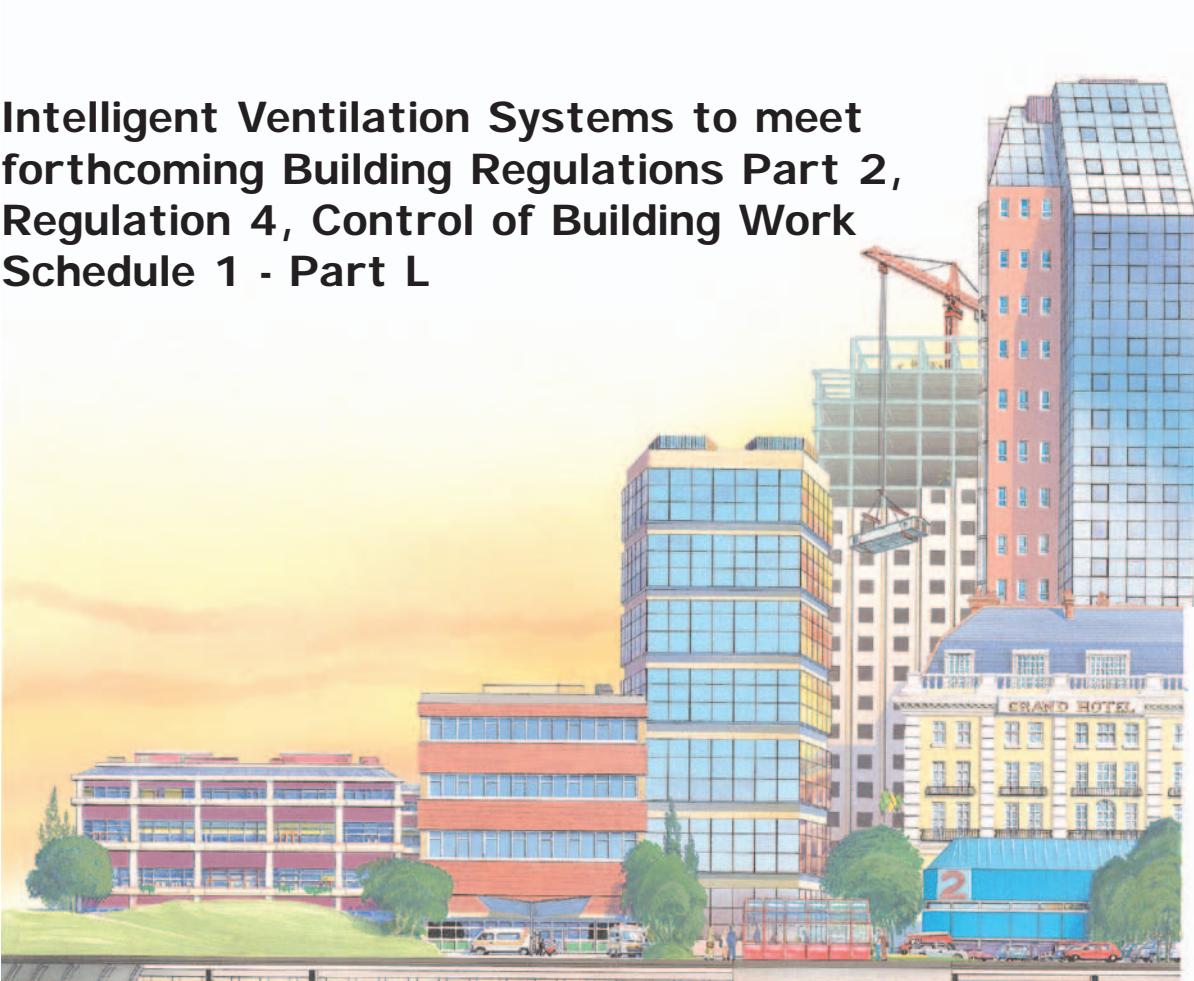
- Improved Environment
- Energy Saving
- Simplified Installation
- Product Design for Energy Conscious Buildings



Setting the Standard for Energy Management

Demand Controlled Ventilation

Intelligent Ventilation Systems to meet forthcoming Building Regulations Part 2, Regulation 4, Control of Building Work Schedule 1 - Part L



Seminar to prepare Architects, Designers, Builders and Installers on how this will impact on current thinking on affordable energy management, and how Intelligent ventilation systems can form part of the overall solution to comply with new criteria make this part of your continuous professional development

Technical Paper written by Dr Geoff Sheard for seminar dates email Robert Dann at info.uk@flaktwoods.com or phone 07801 723207



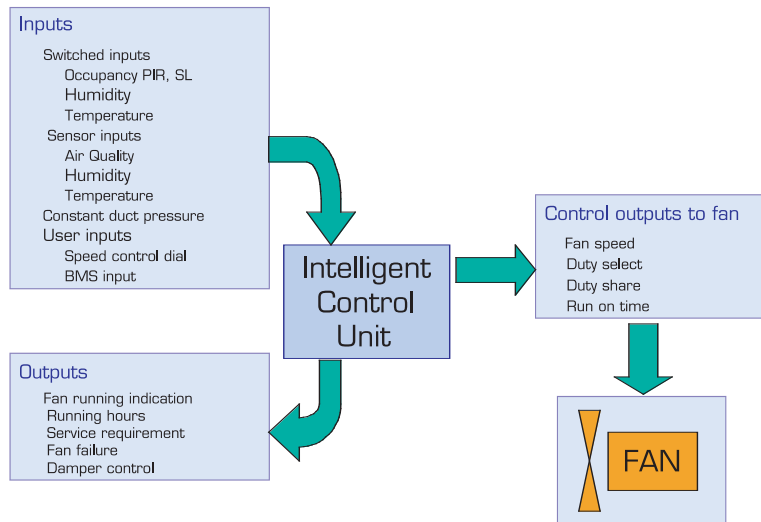
CPD certification available

Demand Control Ventilation

Lifestyles and more flexible working hours mean that buildings are now open longer and with varying occupancy levels. Rising energy costs associated with running plant continuously have created a demand for either user control or system-managed control.

To enable the designer of the system to optimise the power consumption, system performance, and comply with the requirements of Building Regulation Part L, Fläkt Woods has developed the Intelligent Control Unit to offer a multi sensor/switch control package for use with fans from the Express Range.

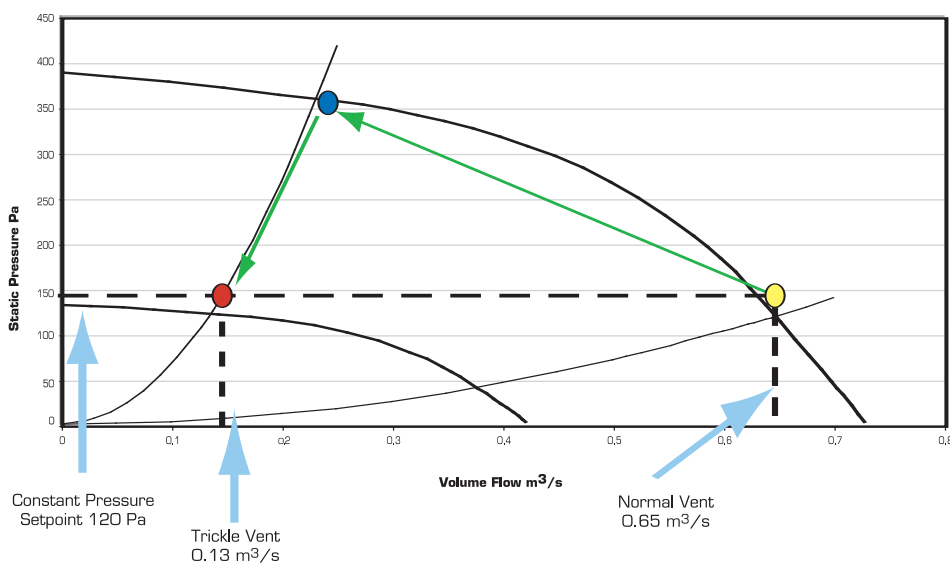
- Controlling Constant Pressure and Variable Air Volume, zone systems.
- Operates as an automatically activated (PIR) or manual activation via room mounted user interfaces.



Constant Pressure System

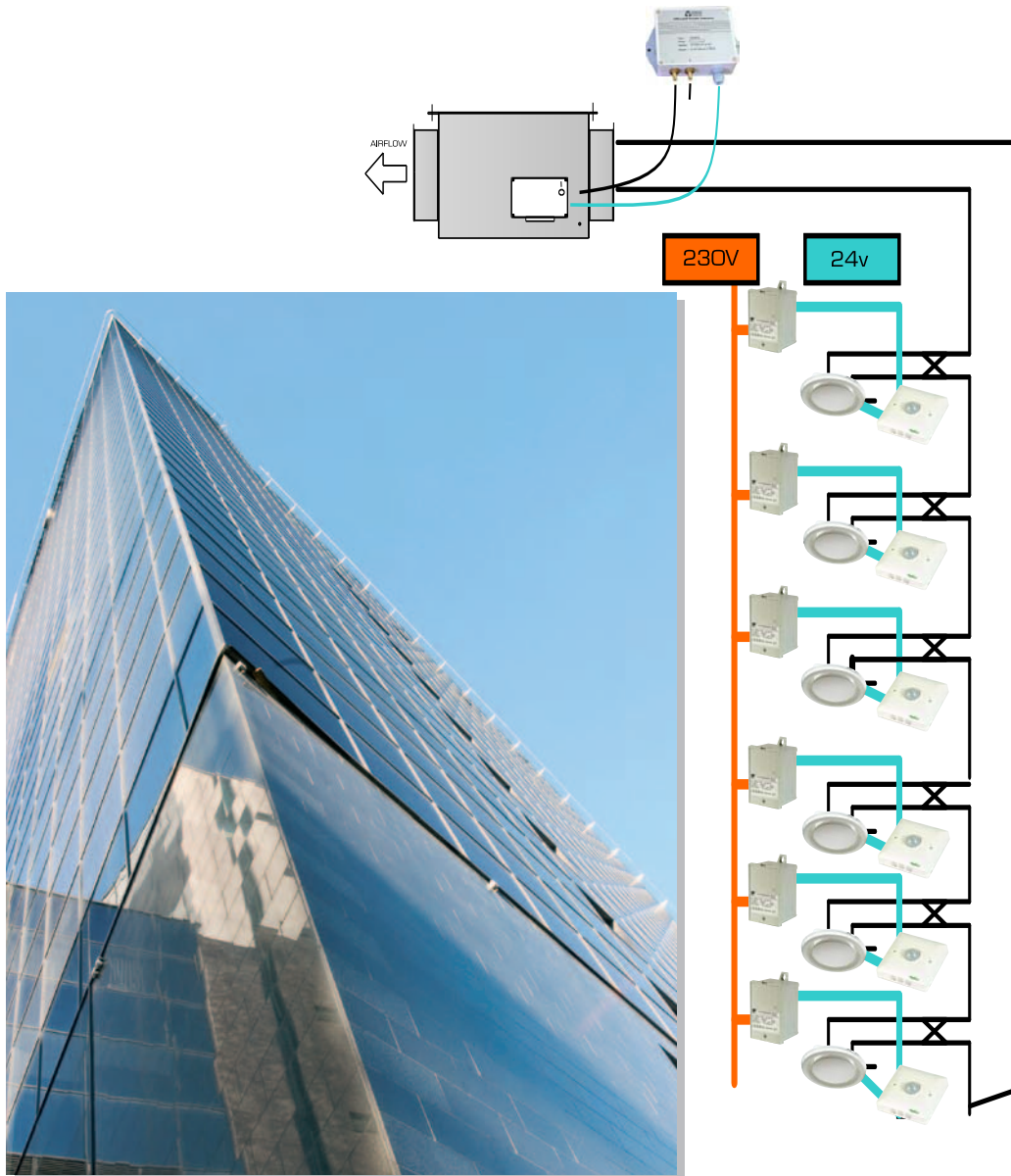
A system that is intended to maintain a pre-designed pressure in a duct. Fläkt Woods have developed a range of fans, controls sensors and switches that will enable the system designer to build on this concept and offer continuous trickle ventilation when the area served is unoccupied and which automatically increases the ventilation rate when occupied to the design requirement.

When designing constant pressure systems we recommend that the branch ducts have minimum pressure ratio 2:1 with the main duct. This ensures that the minimum power is consumed when operating in trickle vent mode.



Demand Control Ventilation

Developers with multi-level commercial or residential buildings are installing constant pressure systems controlled by either Passive Infra Red (PIR) occupancy detectors or switched live automatic systems either in individual rooms or apartments, or as a common ventilation system serving multiple levels. This ensures that the ventilation is only activated during periods of occupancy and minimises running costs.



Multi Level Commercial Building – Automatic Zone control via PIR