



Demand Control Ventilation

iFan Product Range

Mechanical ventilation should only be provided when it is actually required – delivered when demanded. Otherwise, by definition, the system operation is a waste of energy and resource. That's why, at Flakt Woods, we've developed increasingly intelligent technology. Systems that can take responsibility for recognising when the need is there – or when system requirements change – and react accordingly to maintain peak operating conditions.

The goal of this advanced Flakt Woods technology is simply stated: optimum performance with minimum running costs while providing full functionality.

Delivering demand-controlled ventilation

Our iFan intelligent fan systems always deliver performance tailored to the needs of the moment within the building space concerned – whether public, commercial or residential.

This advanced ventilation can therefore help maintain a better, more comfortable indoor environment while reducing energy usage and running costs to the minimum necessary. It does so using sophisticated controls that are constantly monitoring and reacting to changes in its operational environment.

iFan integral control specifications

The intelligent controls that are integral to iFan operation include:

Function	Performance	Set-up
<ul style="list-style-type: none"> • Auto changeover facility (Run & Standby mode) • Duty sharing (Run & Standby mode) • Run-on timer • Speed controller 	<ul style="list-style-type: none"> • Improved SFP values in normal ventilation mode • Fan operation varies in response to input signals: from maximum to trickle or stop 	<ul style="list-style-type: none"> • Integration with Building Management System [BMS] if required • Remote monitoring availability • Low voltage sensors/switches

While each iFan is effectively a stand-alone system, it can operate as part of the building control system when linked into the BMS. The Intelligent Control Unit [ICU] is at its heart, and this can beamed for various environmental conditions – either via automatic or manual (user) control.

As well as receiving and acting on sensor inputs, the ICU incorporates an LED display for set-up, operation and maintenance. This enables easy monitoring of running times, fan speeds and other operational data. It can also indicate faults or service intervals.

Commissioning iFan units

Commissioning is fast and simple. Each system features plug and play low voltage sensor and switch connectors, and a plug and socket connector between the ICU and iFan.

The ICU is then programmed with the maximum demand and operational conditions that are to be monitored. This control strategy is determined by the requirements of the installation design for the building environment.

