

System Benefits

The introduction of the acclaimed high-velocity Jetfan system arose from a close partnership between **Interactive Special Projects** and world-class market-leading fan specialists **FläktWoods**.

FläktWoods made industry history in their field when they became the first to earn the mandatory European CE mark for safety-critical products.

Space Optimisation

With the ventilation ductwork removed additional income-generating space is released for additional parking and other installations.

Energy Saving

The carbon monoxide detection system monitors the air quality and initiates the ventilation system to operate on demand when pollution levels require it, thus reducing power consumption and running costs.

Reduced System Resistance

The absence of ductwork means minimal system resistance so that the motor size for the main extract fans can be substantially reduced - enabling them to operate at lower speed with lower noise levels and lower operating costs.

Cleaner Appearance

Replacing the restrictive ductwork with sleek ceiling mounted Jetfan units produces a cleaner, brighter, more open and spacious appearance.

Optimised System Design

When system efficiency is analysed and optimised, to provide improved control of pollution and smoke, it operates more effectively through the correct balance of technology and practical experience.

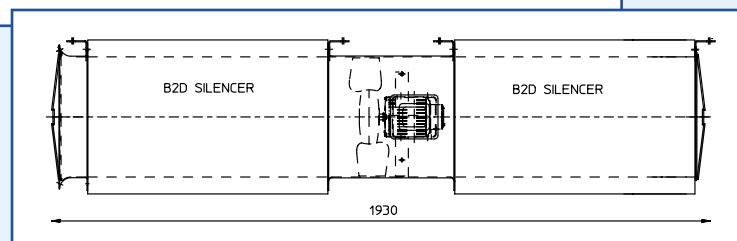
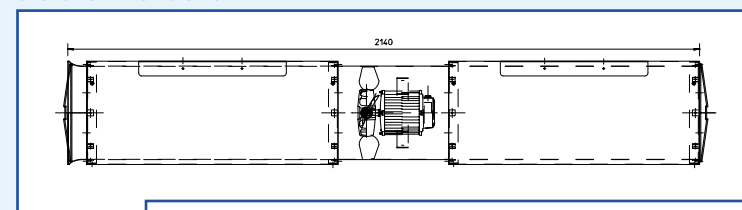
Tailored Solutions

A more bespoke approach to system design, including the use of Computational Fluid Dynamics analysis, is based on project specific requirements.



Technical Data

JF315 Low Profile Unit



JF355 Standard Profile Unit

Interactive 
Special Projects

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Ventilation systems for
enclosed or underground car parks

Company Profile

Interactive Special Projects has been at the forefront of UK developments in lifesaving smoke control technology since their introduction to the UK market. Their innovative Jetfan (impulse) ventilation systems, for underground and enclosed car parks, have revolutionised the way vehicle exhaust emissions - or, in the case of fire, smoke and toxic fumes - are removed and replaced by breathable uncontaminated air. Interactive Special Projects is part of a Manchester-based group of companies who also design and install smoke control systems for shopping centres, museums, hotels, theatres, airports, warehouses, factories and high rise domestic and commercial buildings throughout the whole of the UK and mainland Europe.



Malmaison Hotel, Newcastle

Matching the needs

Interactive Special Projects offers a complete design, fabrication and installation package, or any individual element – from design-only to project management - and the aftercare support that includes maintenance, servicing and 24-hour call-out. They are flexible enough to develop design concepts with consultants at the earliest stage of the project; match the most exacting performance specification; adapt to changing needs and provide the right tailored solution for any range of problems. And, importantly, their holistic view can make savings without compromising the design or effectiveness of their modern Jetfan (impulse) ventilation systems.



Recent Projects

With the clean lines of modern car park ventilation it's easy to forget the extensive, unsightly and bulky ductwork systems that were once commonplace. Interactive Jetfan systems are installed throughout the UK and in mainland Europe.



Number 1 deansgate, Manchester



triangle, Manchester



The Printworks, Manchester

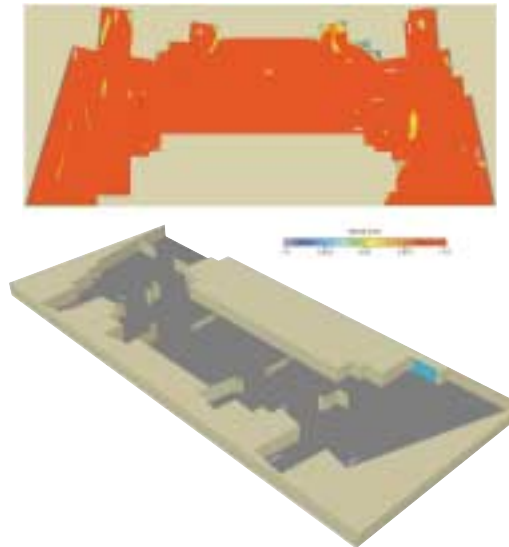


Royal Bank of Scotland, Manchester

System Overview

Computational Fluid Dynamics (CFD)

Enclosed car parks need ventilation to control the level of pollutants from exhaust fumes and, in the event of fire, rapidly remove toxic smoke, fumes and hot gases that may compromise escape routes and hinder access for firefighters. All Interactive systems fully comply with Building Regulations and Safety Standards and are designed to operate automatically in the event of an emergency. Systems typically comprise high temperature extract and, Jetfan units, smoke and CO detectors integrated control equipment and CFD analysis. Traditional systems utilise extensive ductwork which are visually obtrusive, place restrictions on designers and compromise valuable parking space. Modern Jetfan ventilation systems now use strategically placed and controlled, ceiling-mounted Jetfan units to direct polluted air to the extract point.



Equipment Selection

The number and location of Jetfan units is dictated by individual building layout and the requirements of the system. They are provided fully assembled with integrated silencers and guards, designed and tested to withstand temperatures of 300° for 60 minutes in line with the recommendations of the Building Regulations. All fans are tested to the mandatory EN 12101-3:2002 and carry the CE mark certificate of conformity now mandatory for all fans used for powered smoke control systems.



Attenuation

This is a fundamental design requirement for all projects. Control of system noise levels is provided by the inclusion of splitter silencer units and fan attenuation to ensure that the specified project noise criteria are met.

CO control

A purpose designed and integrated CO detection system provides for the optimum operation of the Jetfan system for efficient and controlled use of fan units on demand.



Cold Smoke Testing

All Jetfan systems are commissioned and demonstrated using 'cold' smoke which demonstrates the accuracy of the CFD analysis. Jetfan systems are designed to operate in emergency situations, not simulations.