

Fläkt Woods Exports Its Jet Fan Technology

The Fläkt Woods Group has ventilated road tunnels using impulse ventilation with Jetfans for over 30 years. We have applied this vast experience to solving the problems of ventilating enclosed and underground car parks, offering complete packages, from design to commissioning of car park ventilation.

■ FACTS

Some key projects:

Bahrain World Trade Center
Hong Kong Airport in China
Wroclaw University Library in Poland
Esso Glen in England
Dusseldorf Airport in Germany
Odivelas Parque in Portugal

Need:

Tailor made solutions for efficient car park ventilation.

Solution:

Jetfans from Fläkt Woods.



Fläkt Woods' Jet Thrust Fans are ideal for use in car parks

Jet Thrust Fans eliminate distribution ductwork, which is needed for conventional ventilation systems. Without ductwork, system resistance can be significantly reduced, which means fan speed and noise levels can be a lot lower. The use of detection and control equipment will contribute to considerable savings in running costs.



A large order was placed to provide the ventilation solution for a car park at a new supermarket called Odivelas Parque, for Mundicenter in Portugal, where Fläkt Woods has exported over 3,000 Jetfans to-date.

Fläkt Woods has supplied the ventilation solutions for the car parking areas at the Bahrain World Trade Centre. The car park provides 420 parking spaces serving the shopping mall and offices. They are on four floors, basement, ground, first and second floor. The Company is providing a range of specialist fans, including 97 reversible car park Jetfans of 400mm diameter.



A solution with Car Park Jetfans resulted in savings of around 50% for Wroclaw University in Poland. The library building houses all the collections and administration offices, which calls for a flexibility of ventilation in its arrangements and settings



Fläkt Woods has provided a new ventilation system for the terminal 4 International Airport in Hong Kong. The solution included improvements to both the supply and extract systems together with 60 Jetfans.

The Company has installed a new ventilation solution for the extension to Düsseldorf Airport, supplying 50 JM Aerofoil car park fans. Computational Fluid Dynamic (CFD) analysis has been used in the design to optimise the installation, providing better smoke extraction in a fire situation.



Fläkt Woods has supplied the ventilation solutions for the prestigious Esso House in London. In total 52 Jetfans were installed for the car park areas, located on the basement and mezzanine levels, along with the extract fans to provide a common extract system. The fans are capable of producing a thrust range of up to 37 N 50Hz, and designed for emergency operation of 300°C for 1 hour. Fläkt Woods supplied the complete package, which included the jet control systems for CO, installation, and electrical wiring.



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