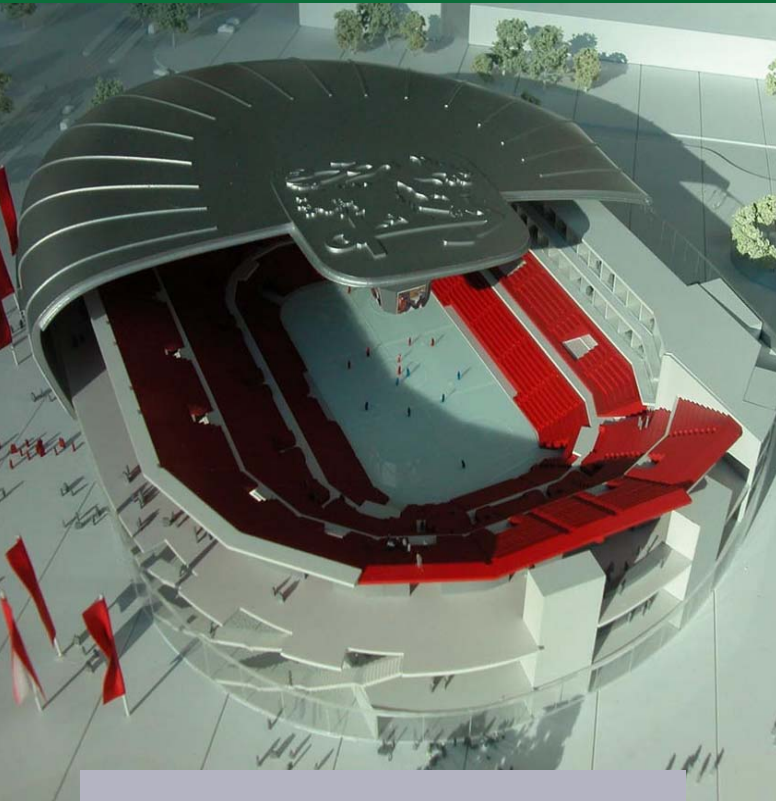


High efficiency ventilation solutions for the Ice Dome in Düsseldorf



Fläkt Woods has supplied the complete ventilation requirements for one of Europe's new landmark buildings - the "Ice Dome" in Düsseldorf.

■ FACTS

Customer:

Ice Dome, Düsseldorf

Need:

Complete high efficiency ventilation solutions for car parks

Solution:

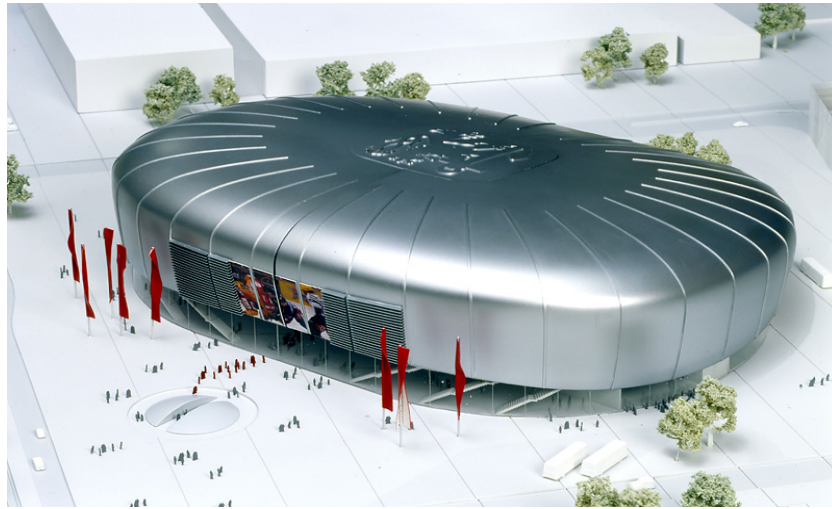
Fläkt Woods Axijet Jet Thrust Fans and Jet Control System



Fläkt Woods offer turnkey solutions for every application

Fläkt Woods' engineers advised on the technical aspects of ventilating the Ice Dome's parking areas using their in-house CFD application expertise.

As part of the contract Fläkt Woods supplied 35 Jet Thrust Fans for the underground parking areas, with diameters of up to 400 mm and with truly reversible performance.



The Ice Dome

The multi-functional arena has a 13,400 spectator capacity. Located at Theodorstrasse in Düsseldorf-Rath close to the exhibition grounds and the airport, the large facility features a futuristic design and lends itself to a wide variety of uses.

The car park

The project is a multi level car park with run and standby smoke extract fans rated for 300° Celsius and fresh air inlet fans for CO₂ ventilation.

Fläkt Woods delivered Jet Thrust Fans for installation in the Basement and Lower Ground levels and on the half levels between.

The location of the Jet Thrust Fans has been determined by Computational Fluid Dynamics (CFD) modelling and analysis, to ensure optimal distribution of air throughout the car park to prevent dead spots for pollution and movement towards extract grilles for smoke ventilation.

Using CFD, Fläkt Woods engineers are able to calculate how the airflow within the car park behaves under normal running conditions and during a fire.

Jetfoils

The Fläkt Woods Jetfoil is available either as a high efficiency unidirectional, or as a truly reversible Jetfoil which will give approximately equal airflow and thrust in each direction.

Fläkt Woods Group

Fläkt Woods is a global company providing solutions for ventilation and air treatment for buildings as well as fan solutions for Industry and Infrastructure applications.

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