

Building & Industry

NOVENCO

SCHAKO Group

From outdated ducts to efficient NOVENCO® jet fans

Located in The Hague, the Netherlands, Scheveningse Duyn is a modern residential complex with 48 apartments and private underground parking. As part of a recent building upgrade, the entire underground car park ventilation system was renewed.

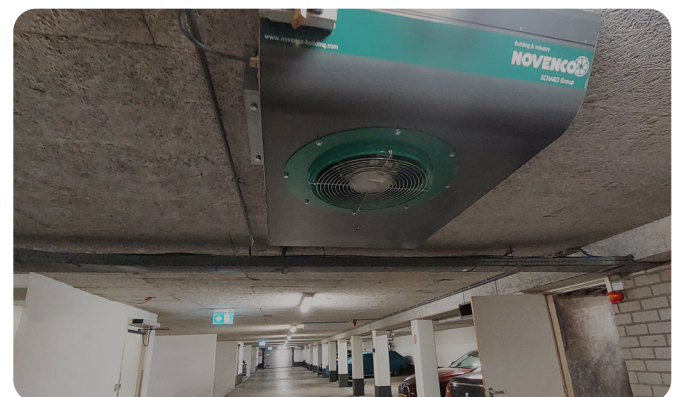
The project

For more than 30 years, the car park relied on two large roof fans connected to an aging ductwork system. Components became difficult to source, maintenance costs increased and the installation no longer met current health and safety requirements. Limited roof access further complicated repairs and servicing.

The challenge

The client required a complete replacement with a modern, future-proof solution that would:

- Improve air quality and ensure compliance with current building requirements.
- Deliver reliable, continuous ventilation performance.
- Offer accessible, efficient maintenance without disrupting daily use.



Jet fans installed directly on the ceiling for space savings



Before: outdated duct system – costly and inefficient



After: modern jet fan solution – reliable and energy-efficient

The solution

After a detailed assessment, the original ducted system was replaced with a jet fan ventilation concept supported by a new CO/LPG detection system and updated control infrastructure.

Included in upgrade

- 2 CGF-500 centrifugal car park jet fans for efficient air distribution
- 2 ZerAx® AZL-400 axial fans with IE5 motors, indicative 1.35 kW, for exhaust ventilation
- CO/LPG detection system compliant with NEN 2443
- NOVENCO control panel for detection-driven ventilation
- New cabling, surface-mounted hostalith conduit, roof cowls, silencers and limited ductwork for optimal airflow and reduced noise
- Full installation and commissioning of the new system

Facts:

- Reduced power consumption
- Improved air quality
- More efficient maintenance

The results

The new jet fan system has transformed the ventilation performance in the underground car park at Scheveningse Duyn. Continuous monitoring with CO/LPG detection ensures healthy air quality, while demand-controlled operation lowers energy use. Maintenance is easier and faster thanks to improved accessibility and centralised control.

Replacing a 30-year-old system, the new installation provides a long-term, reliable and energy-efficient solution designed to serve the building for decades.



CO/LPG detection system for continuous monitoring and safety