



Building & Industry

NOVENCO 

SCHAKO Group

Car park ventilation

Thrust system - invented by NOVENCO



Intelligent solutions start with design

In 1995, NOVENCO Building & Industry became the first company to design a ductless car park ventilation system using jet fans. As the inventor of the thrust ventilation system, NOVENCO set a new global standard for efficient, ductless ventilation. Today, NOVENCO continues to lead the market with unmatched expertise in designing and manufacturing car park ventilation solutions.

Eliminate ductwork

NOVENCO thrust ventilation systems remove the need for bulky ductwork. This not only saves space and materials but also reduces operational costs through lower energy consumption. When paired with a well-designed control system, axial fans operate more efficiently, providing long-term savings.

Smart control systems

Our intelligent control systems integrate advanced detection technologies with programmable control panels. They manage all aspects of ventilation - from dampers and supply/exhaust fans to strategically positioned jet fans - ensuring balanced airflow and maintaining a safe, healthy environment throughout the car park.

Car park jet fans

NOVENCO offers a wide range of jet fans, from low-profile models for minimal installation height to ultra-silent designs. Equipped with ZerAx® technology, our jet fans deliver efficient, future-proof ventilation tailored to any car park layout.

All requirements at lower operational costs

The NOVENCO thrust ventilation systems outperform traditional ducted systems in flexibility, efficiency and cost-effectiveness. Unique design features simplify otherwise complex service layouts and reduce installation time.

The thrust principle

Jet fans create high-velocity airflows that induce surrounding air, preventing the buildup of toxic gases such as carbon monoxide (CO). By drawing air from all levels, the system eliminates the need for extract points at different heights. This ductless approach is ideal for new constructions and retrofits alike, allowing flexible positioning of soffit-mounted fans for rapid installation.

Substantial Energy Savings

Without ductwork, supply and exhaust fans operate at lower pressures, enabling smaller, energy-efficient motors. Jet fans run at low speed for daily ventilation, consuming as little as 150 W, delivering significant overall energy savings.

Meeting all requirements

NOVENCO thrust ventilation systems satisfy all standards for day-to-day ventilation and smoke extraction during fires. Our versatile jet fan solutions provide capabilities often unavailable with conventional ducted systems, ensuring safety and compliance in every installation.

Certification

All NOVENCO jet fans and axial flow fans are tested and certified as smoke extraction fans in classes F200, F300, and F400, in accordance with international standard EN 12101-3.

About NOVENCO

NOVENCO Building & Industry is a global leader in high-efficiency ventilation solutions. With decades of engineering expertise, we develop fans and fan solutions that deliver exceptional energy efficiency, reliable performance and long-term durability - even under the harshest conditions.

The flagship ZerAx® fan series sets the benchmark for efficiency, durability and environmental performance across industrial and commercial applications.

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