

Pure competence in air.

FOR A GREENER AND SAFER WORLD NOVENCO BUILDING & INDUSTRY

Building & Industry



SCHAKO Group



Manufacturing Excellence

FOR A GREENER AND SAFER WORLD

NOVENCO® Building & Industry is a worldwide leader in design, development and manufacture of ventilation products and systems on the technological forefront of performance and durability. We provide the largest energy savings and efficient solutions for protection of lives in ventilation worldwide. Our relentless focus is on the reliability of the fans and instant system performance.



NOVENCO moves air for
a greener and safer world

NOVENCO's products and solutions guarantee



Energy savings
up to 50%



Life
safety



Lifetime
of 20+ years



Recyclability
rate of 98%



Fan efficiencies
up to 92%



Ultra low
sound levels



Low
maintenance costs



Plug-and-play
installation

NOVENCO's highly efficient ventilation fans and systems are installed here, there and everywhere for all sorts of conditions.



World's largest social media

NOVENCO fans cool Facebook down



World's coolest building

BMW WELT equipped with NOVENCO jet fans



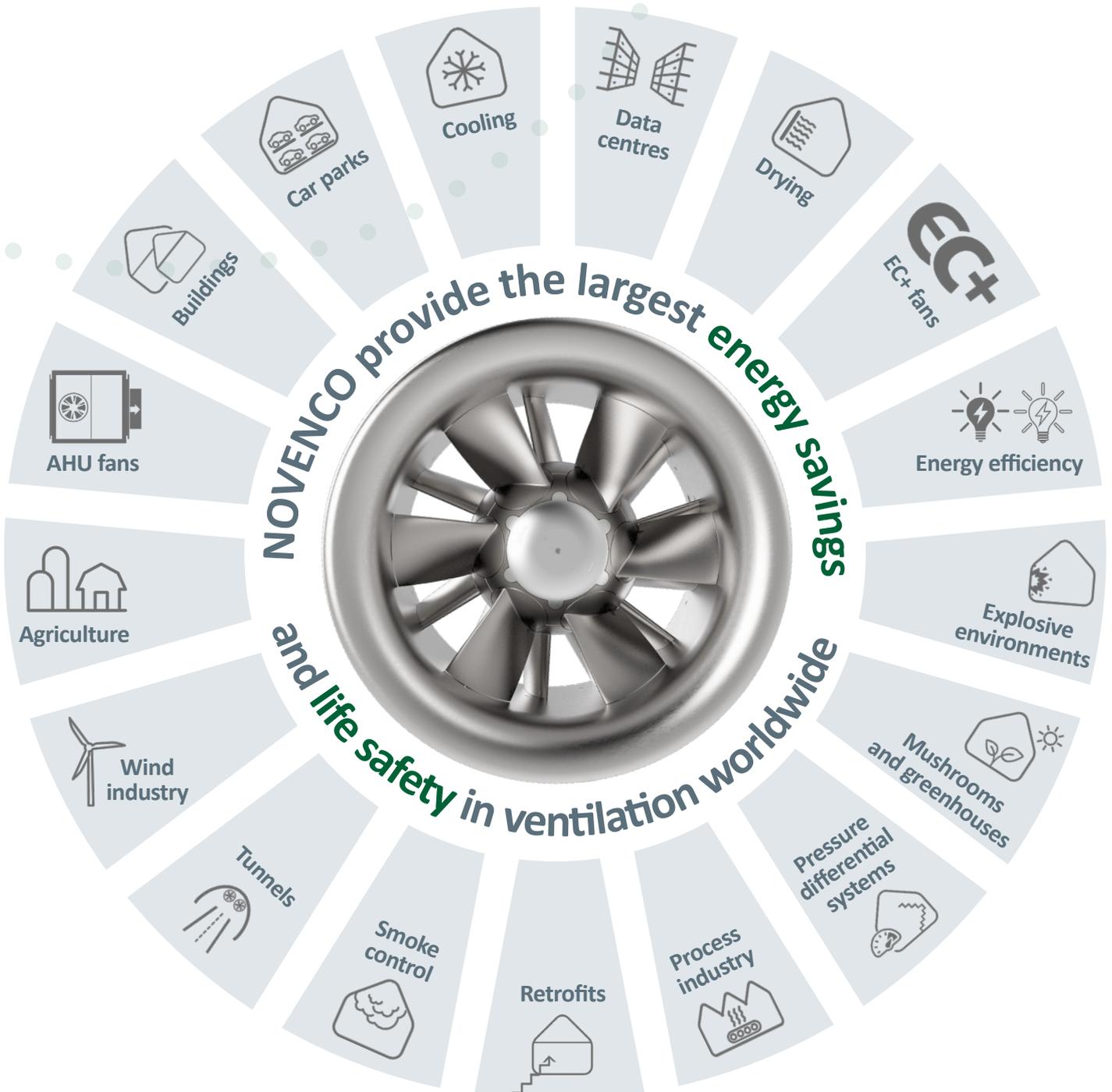
World's tallest building

Safety in Burj Khalifa's car park



NOVENCO SOLUTIONS

We provide energy-efficient and life safety ventilation systems well-known for uncompromising quality and the highest standards within a wide range of industries. We know and comply with business requirements and we have the products to supply the best solutions.



NOVENCO PRODUCTS

AXIAL FLOW FANS



ATEX AND EX FANS



CAR PARK JET FANS



TUNNEL JET FANS



SMOKE FANS



CENTRIFUGAL FANS



AIR HEATERS



DAMPERS



FAN ACCESSORIES



SUSTAINABLE PRODUCTS AND SYSTEMS FROM START TO END

The UN's 2030 Agenda for Sustainable Development and the 17 Sustainable Development Goals is a shared blueprint that calls for action by all countries in a global partnership. It is a blueprint that we are proud and eager to support in order to tackle the climate change, spur economic growth and help preserve nature.

#11: CREATE SUSTAINABLE CITIES AND COMMUNITIES

Through our highly efficient ventilation products with remarkable recyclability rates and energy savings, we support the cities and communities of the future, where the requirements for sustainable production, efficiency levels and green operation are critical. We also contribute positively to our local environment by minimising and sorting scrap and applying climate-conscious production and logistics processes.

#12: SUPPORT RESPONSIBLE CONSUMPTION AND PRODUCTION

We help reduce excessive consumption and production through development of highly effective and recyclable ventilation fans, which require minimal resources to run, save energy and reduce

the discharge of harmful substances. This allows us to enable operators worldwide to implement solutions that support the global climate goals.

Besides enabling our customers to more climate-conscious operation, we are also very ambitious internally. Our daily efforts and actions for energy-innovative and environmentally responsible production demonstrate our green enthusiasm.

#13: INSIST ON CLIMATE ACTION

We know that we have to walk the talk to make actual climate changes – and that is why we take climate issues into account in every decision we make. Our resource-friendly products reflect this dedication with long life spans, environmental friendly production processes and impressive recyclability rates.

The infographic features a central image of a silver NOVENCO ZerAx fan. To its right, three curved banners highlight UN SDGs 11 (Sustainable Cities and Communities), 12 (Responsible Consumption and Production), and 13 (Climate Action). A circular graphic of the 17 UN SDGs is positioned above the slogan 'The greenest watt is the one that is not produced', which is accompanied by three lightbulb icons (one lit, two unlit).

GREEN AMBASSADORS OF EC+ WITH NOVENCO ZERAX® FANS

The engineering of the ZerAx® fans is an unprecedented achievement in NOVENCO history. The ZerAx revolutionises the design and performance of axial flow fans and is in fact an energy-saver of the future that redefines and heralds a new generation of fans with unmatched fan efficiencies of 92%, low sound levels and 98% recyclability rate after 20+ years of product lifetimes.

Together with Danfoss, we provide the most efficient EC+ system solutions, which radically reduce energy consumption and maintenance costs, and hence increase efficiencies of HVAC systems.



92%

NOVENCO ZERAX® HIGH EFFICIENT AXIAL FAN

x



95%

HIGH EFFICIENT PM MOTOR

x



98%

HIGH EFFICIENT DANFOSS VLT®

=



85% EFFICIENCY

ENERGY IN FOCUS. NATURALLY.

With overall efficiencies up to 85%, the EC+ solutions are the most efficient, profitable and up-to-date available on the market. Conceived to increase efficiencies of HVAC systems, the EC+ concept offers to radically reduce use of energy in new-build and in existing installations. The high EC+ system efficiencies promote large economic savings and ROIs between 12-18 months. The complete plug-and-play solutions guarantee easy and fast retrofit of existing installations, lifetimes of 20+ years and zero down-times to ensure very low maintenance costs. Furthermore, the environmental impact is diminished and CO₂ emissions are significantly reduced.

EC+ CONCEPT FOR OPTIMISATION OF AHU SYSTEMS

This straightforward concept comprises the NOVENCO ZerAx® series of high efficiency fans, high efficiency IE4 or IE5 PM motors and intelligent and high efficiency Danfoss VLT® frequency converters. The motor and frequency converter efficiencies both reach above 95%, which with the ZerAx fan efficiency of 92% brings the overall system efficiency to an impressive 85%. This is the highest possible total system efficiency for AHUs on the market and is 20 -25% better than the closest alternative such as direct-driven centrifugal plug fans with EC motors.



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ENERGY SAVINGS WITH ZERAX® AND EC+

- AT LEAST 20% COMPARED TO BEST-IN-CLASS EC FANS
- TYPICALLY 40% BY RETROFIT OF OLD PLUG FANS
- TYPICALLY 50% BY RETROFIT OF OLD CENTRIFUGAL FANS

NOVENCO WORLDWIDE



NOVENCO offices
Denmark, Netherlands, United Kingdom,
Germany, India and Singapore



NOVENCO agents



SCHAKO GROUP

The 1.000 employees in all five companies of the SCHAKO Group are specialised in ventilation. The companies are reliable and competent partners for all solutions within ventilation, air-conditioning, fire protection and smoke extraction technologies. We develop, produce and deliver reliable, high-quality, energy-efficient and economical products and systems.



OT ventilation systems, energy and media supply bridges and surgical lights in operating theatres and medical practices

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Energy-efficient ventilation and life safety systems for buildings, industries and infrastructures



Air cleaning systems in commercial kitchens and industries



Ventilation and air-conditioning in commercial and public buildings



Special ventilation engineering in all kinds of laboratories



Air technology and smoke extraction systems for industries and tunnels



Components in ventilation, air conditioning systems and air distribution with JET-systems



Group

CERTIFICATION OF SUSTAINABLE BUILDINGS

GREEN QUALITY OF BUILDINGS

Sustainability is a prevailing issue when it comes to growth, efficiency and future viability. Therefore cities and municipalities focus increasingly on sustainable development. In recent years, many constructors and contractors have had their constructions certified with the sustainable LEED, BREEAM or DGNB stamps. The certification makes the buildings more attractive to buyers and users, while the sustainable constructions contribute considerably to the indoor and

outdoor environments. NOVENCO Building & Industry believes the LEED, BREEAM and DGNB certifications to be of great value to the sustainability of buildings and the construction thereof. It therefore follows naturally for us to enter the LEED, BREEAM and DGNB certifications and have our NOVENCO ZerAx® axial flow fans recorded in the certification programs.



The LEED certification is a globally recognised symbol of sustainability achievement and leadership. It is a commonly agreed overall system for reducing environmental impact.



The BREEAM is the world's first environmental assessment method for new building designs and stands for Building, Research, Establishment, Environmental, Assessment and Method.



The DGNB certification is a systematic approach to sustainability. It is considered the most advanced system of this kind in the world.



NOVENCO'S TIERS OF TRUST

ENERGY EFFICIENCY



DATA CENTRES



INDUSTRY

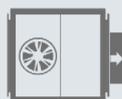


Mercedes-Benz

WIND INDUSTRY



AHUs



I love this shot because it looks like a sci-fi movie. These enormous fans draw in the outside air to cool the tens of thousands of servers in the data hall...



Mark Zuckerberg
Founder of Facebook

Pure competence in air.

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CVSA 

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