

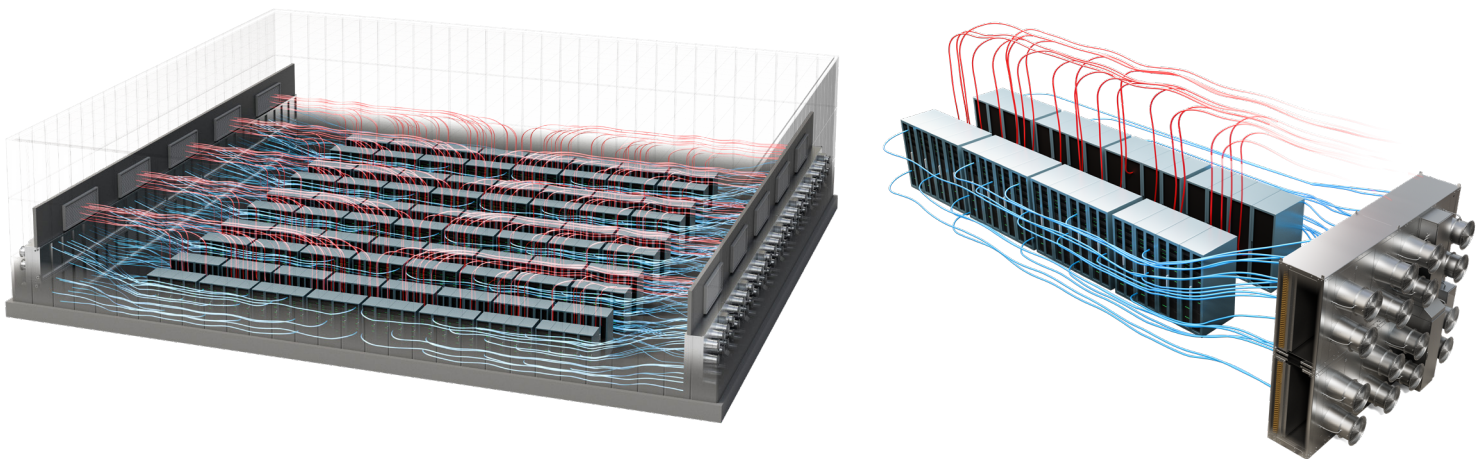
Building & Industry

NOVENCO 

SCHAKO Group

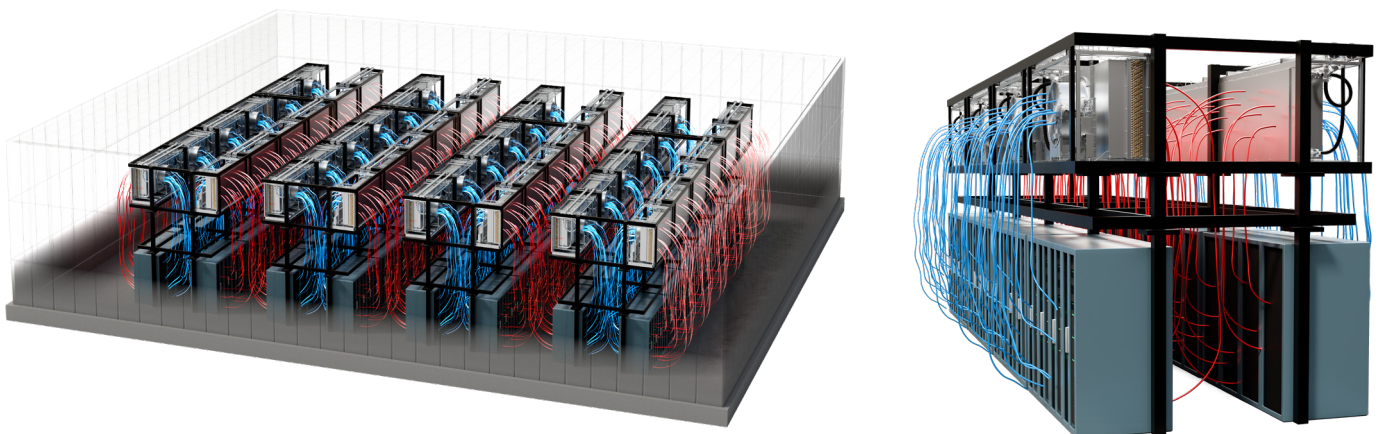
**Customised for hyperscale
Engineered for tomorrow
Powered by ZerAx®**

ZerAx[®] fan systems for high-efficiency data center cooling



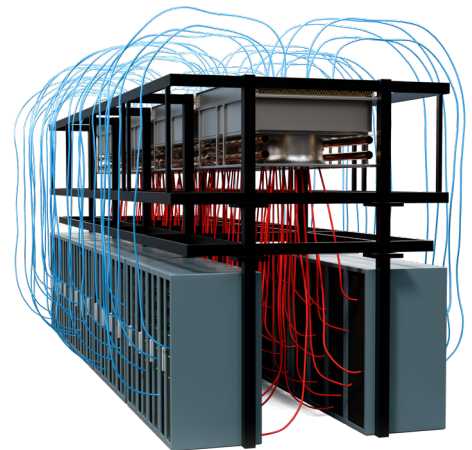
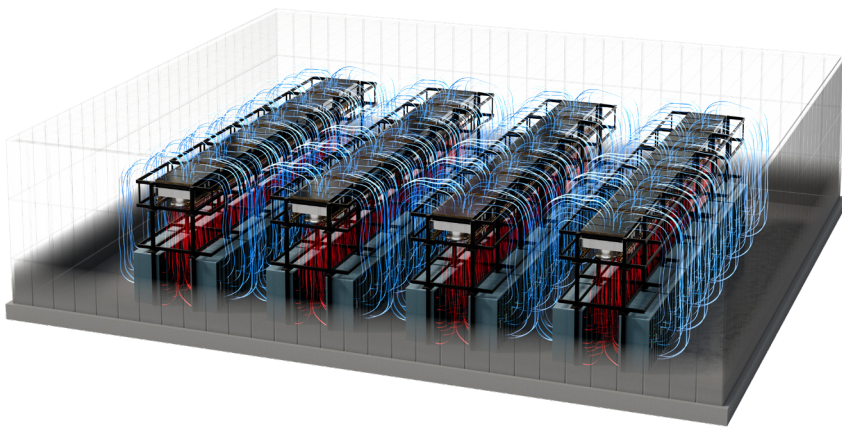
Wall-mounted cooling fan-coil for hybrid or total air systems

These fan-coil units support both hybrid and fully air-cooled data center architectures, providing precise airflow management and reliable heat removal. They help maintain stable thermal conditions and consistent equipment inlet temperatures across varying load profiles.



In-row vertical aisle cooling fan-coil

Installed directly above the racks, vertical in-row units remove heat at the source, reducing hot-spot risk and improving airflow separation between cold and hot aisles. This approach enhances cooling efficiency and supports scalable, high-density hybrid designs.



In-row horizontal aisle cooling fan-coil

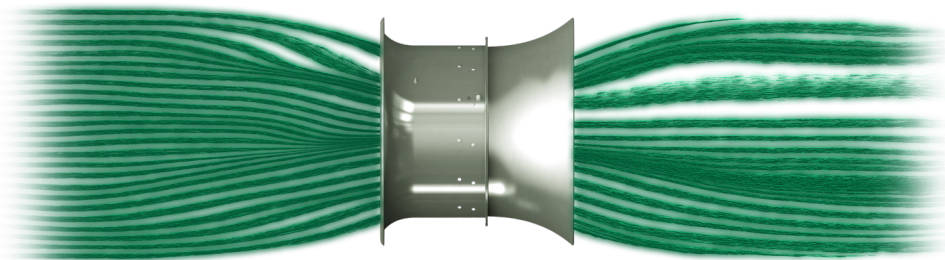
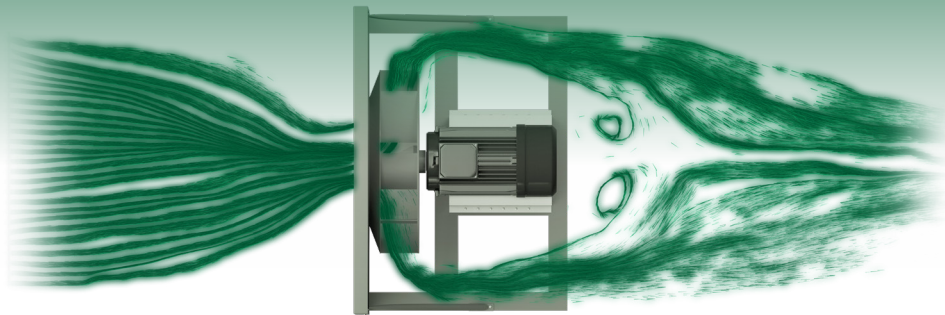
Horizontal fan-coil units provide uniform air delivery across rack rows, ensuring consistent intake temperatures and improved thermal balance. Similar to the vertical solution, but optimized for a reduced height installation.

Powered by ZerAx[®]

- up to 92% fan efficiency
- up to 85% system efficiency
- 20+ years lifespan
- 98% recyclability rate
- ultra-low sound level
- proven in hyperscales in US and Northern Europe
- the world's first fan with EPD



Dynamic pressure is the key



Difference in air flow between centrifugal fans and ZerAx® axial fans

Maximising energy efficiency in ventilation requires fans that utilise both static and dynamic pressures, which increases efficiency, reduces energy consumption, lowers operating costs, and cuts carbon emissions.

Traditional plug and centrifugal fans rely only on static pressure, wasting the dynamic pressure and limiting efficiency to below 90%. In contrast, axial fans capture the full total pressure – static and dynamic – allowing efficiencies above 90%.

While plug and centrifugal fans may seem simpler and more flexible, their long-term operating costs and environmental impact are higher. High-efficiency axial fans consume less energy, reduce costs and minimise CO₂ emissions, making efficiency the critical factor in ventilation design.



NOVENCO® ZerAx® fans
combine unmatched 92%
efficiency, over 20 years of
lifespan and 98% recyclability
- the ultimate in performance
and sustainability

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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