



HVAC solutions for logistics centres and warehouses

Maximum efficiency – customized ventilation systems

Your strong partner for smart HVAC solutions for logistics centres

In logistics and transport companies, stagnant air, dust exposure, extreme temperatures, and excessive humidity can negatively impact both employee health and concentration as well as the quality of stored goods. Insufficient ventilation causes air stratification with varying temperature levels and/or hot and cold spots between shelving units and in picking areas.

WOLF is your specialist for HVAC and air cooling systems in logistics centres. Our experts provide ventilation solutions tailored to large room volumes, temperature stability, and air quality—while ensuring operational reliability and cost-effectiveness.

Our goal: to maintain uniform temperature and humidity throughout the logistics centre using robust premium technology. Naturally, this is achieved sustainably and intelligently controlled with state-of-the-art efficiency

and your preferred form of heat recovery. This way, you are fully covered when it comes to economic viability.

We support you from the initial planning phase and deliver climate control solutions with low energy consumption in the optimal design, ensuring constant conditions in the logistics centre regardless of outdoor weather. Precisely and according to your requirements—the ideal installation- and maintenance-friendly solution for your logistics project.



Fresh and hygienically clean air

To provide employees and goods with uniform and consistent conditions, three key factors must be considered. The first concerns the purity of the ambient air. WOLF ensures hygienically fresh air in picking areas as well as in office and social spaces with multi-stage filter systems compliant with ISO 16890 (including ePM1, pre-filters, and ePM2.5).

Since air is both supplied and extracted, an additional benefit is the reduction of cardboard dust throughout the picking area. CO₂ sensors dynamically adjust air supply as needed. Clean air improves well-being and has a positive impact on employee health.

For particularly high requirements regarding supply air, activated carbon filters can remove odors, and HEPA filters ensure particle-free air. Between shelving units — especially in automated high-bay warehouses — the aspect of fresh air is less critical. Here, air is conditioned primarily in recirculation mode with only about 10% fresh air admixture.

Draft-free air distribution

In chilled areas, drafts are a major concern as they affect employee comfort. When WOLF ventilation units are used instead of conventional air coolers, room air is supplied and extracted without drafts. The position of the ventilation dampers precisely controls how much air flows through which damper and how far each damper is opened in the ventilated space. WOLF HVAC units are practically invisible and inaudible. Highly efficient yet quiet fans ensure low-noise operation and pleasant airflow speeds of around 2 m/s.



Consistent relative humidity and temperature all year round

For highly sensitive goods such as pharmaceuticals, it is essential to maintain temperature and humidity within a narrow target range to ensure product quality and efficacy until the expiration date. Logistics providers must secure the entire supply chain in accordance with GDP (Good Distribution Practices).

WOLF rotary heat exchangers prevent the air from becoming too dry in winter and reduce indoor humidity in summer. This keeps relative humidity within the desired range below 75%. In temperature-controlled logistics centres, relative humidity is typically maintained precisely between 40% and 60%. This effectively prevents condensation and moisture damage during transport and storage.

WOLF air curtains in loading and unloading areas prevent conditioned indoor air from mixing with outdoor air, which is often contaminated with fine dust, ensuring that temperature and humidity remain stable indoors. WOLF ventilation units also provide a consistently pleasant indoor climate in office and social spaces.



/D1

Control

In the ventilated areas, optimally positioned data loggers ensure continuous monitoring of temperature and trigger immediate corrective actions in case of deviations. The same applies to airborne pollutants and humidity levels. WOLF ventilation units take into account outdoor temperature as well as room occupancy and idle periods when conditioning supply air.

Our solutions integrate seamlessly into external building management platforms via appropriate interfaces, enabling precise, real-time monitoring and management both on-site and remotely.



/D2 Energy efficiency

The operating costs of a ventilation unit in large spaces and climate-controlled warehouses over its entire lifecycle can be up to four times higher than the initial investment. Since this factor significantly impacts profitability, WOLF places great emphasis on highly energy-efficient solutions for performance and temperature control. The latest rotary heat exchanger technology achieves heat recovery rates of up to 82%. In addition, next-generation EC fans operate significantly more efficiently than standard technology, especially under partial load, and deliver top performance. Over a service life of 15 to 20 years, this results in operating cost savings of 30% to 40%, while also reducing the carbon footprint of the logistics centre.



/D3 Space requirements

WOLF ventilation units can be installed outdoors or in dedicated technical floors above the ventilated areas. If neither option is possible, units with a small footprint can be custom-designed for confined spaces along the perimeter, exactly according to customer specifications.

Safe, efficient, and future-proof

All WOLF solutions share the same principles: maximum operational reliability, efficient energy use, and customized air quality management. This ensures you are always on the safe side regarding operating costs and are prepared for an energy-responsible future. Municipal climate targets and corporate environmental and sustainability goals can thus be reliably achieved.

Logistics centers equipped with WOLF HVAC units can be certified according to GDP (Good Distribution Practices) for pharmaceutical storage. Temperature and humidity can be controlled centrally and remotely to ensure optimal air quality, precisely adapted to room occupancy and other influencing factors.

WOLF designs solutions individually tailored to local climate conditions and other environmental factors, including building regulations. We take into account maximum heat loads, the structure of your logistics centre, and the desired temperature and humidity ranges in the conditioned spaces.

Robust, energy-efficient, and durable solutions that deliver your exact desired indoor climate are key to your economic success—efficient and reliable around the clock. This not only ensures the safety of stored and picked goods but also creates a healthy microclimate at workstations.

WOLF service goes beyond expert consulting and support during planning, construction supervision if required, and commissioning. We provide maintenance throughout the entire lifecycle of your ventilation technology to keep operating costs as low as possible—with just one dedicated point of contact.



WOLF is one of the leading international suppliers of innovative solutions for indoor climate control. Here's what matters most to our customers:



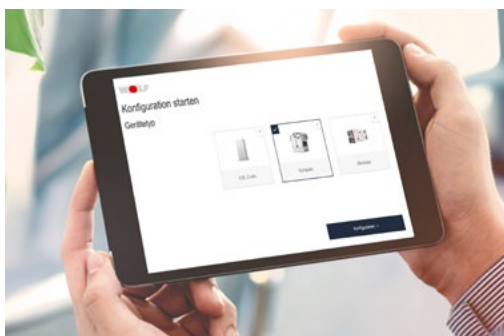
German know-how

We develop our products at our headquarters in Mainburg, Bavaria. We manufacture them with the highest precision and vertical integration. WOLF Campus training programme offers you in-depth expert knowledge on professional installation, maintenance, etc. with seminars and in-house training courses.



Partnership at eye level

A nationwide and international network of personal contacts at our locations ensures fast and uncomplicated support. The WOLF Service Team provides you with expert advice and support during commissioning and maintenance. A network of wholesale partners facilitates the procurement of spare parts.



Simply powerful solutions

WOLF ventilation systems combine efficiency, durability and ease of operation. The wide-ranging air handling product portfolio is complemented by digital services that save time, money and CO₂.



For an intact environment and diversity

We consciously prioritise durability and sustainability in our design and choice of materials. At WOLF, different generations and nations work hand in hand and benefit from each other.

WOLF Air handling

A suitable solution for every demand



Professional kitchen



Pools and spa



Production and industrial buildings



Healthcare



Agriculture



Experience, culture and sports buildings



Offices



Data centers



Retail stores



Transport & traffic



Educational institutions



Hotel and accommodation

Get in touch for more details

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