

Ventilation Solutions for Production

Maximum Safety – Tailor-Made Air Handling Systems

Your strong partner in safe, clean and efficient processes

Production must run reliably without restrictions or interruptions. Unwanted or hazardous substances, smoke, vapors, etc. must be captured and removed at the source to protect sensitive products and employees. Humidity must neither be too low to avoid static charges nor too high to prevent condensation. At the same time, production is under significant cost pressure.

In compliance with international and local standards and regulations, the "lifeblood" air must be provided with maximum hygiene, often with comfort and fail-safe operation. Requirements fluctuate due to operational conditions. Moreover, production must not be restricted during installation or maintenance of the air handling technology. Accordingly, the demands on AHU systems used in production are extremely high. When planning air handling systems, consistent and stable climate conditions as well as operational reliability through durable components are key – including safe design for ATEX-regulated hazardous areas.

In addition to safety and hygiene, energy efficiency and sustainability are increasingly in focus. Managing large air volumes and heating/cooling costs are major levers to improve a site's carbon footprint. Therefore, demand-driven, flexible, and highly efficient AHU technology with low CO_2 emissions is required. This is not only environmentally friendly but also significantly reduces a company's energy costs.



Advanced Air Handling Solutions for Safe, Hygienic & Efficient Processes

WOLF air handling units not only ensure compliance with legal requirements and standards, but also make a decisive contribution to the safety, hygiene, and efficiency of industrial processes. They provide a reliable foundation for high-performance environments where air quality, operational safety, and energy efficiency are critical.

Special solutions such as ATEX-certified unit groups, factory-tested installations, and precise air volume control in accordance with DIN EN 16798 enable safe operation—even in sensitive environments like cleanrooms or ATEX zones with explosion risks. Two- or multi-stage filtration concepts (H13, H14, ULPA), combined with activated carbon filtration, ensure high air quality, while hygienic stainless-steel interiors and maintenance-friendly designs support strict industry standards. Modular or fully customized AHU units allow flexible adaptation to complex building geometries and diverse process requirements. Demand-driven air volume control, precise temperature and humidity regulation, and integrated fire protection ensure reliable operation, while comprehensive system solutions reduce interfaces and shorten planning and installation times. High-efficiency heat recovery systems (up to 80%), intelligent control technology, and energy-optimized drives reduce life cycle costs and meet ErP requirements. Digital tools support transparent planning and efficient operation, including carbon footprint calculations across the entire product life cycle. This makes WOLF a future-proof solution that reliably protects both people and products while meeting economic and ecological requirements.





Food and Beverage Industry

Freshness and hygiene are critical. WOLF ventilation technology ensures controlled airflow and high air exchange rates to prevent cross-contamination and guarantee HACCP-compliant conditions. Hygienic air distribution and easy cleaning are essential – whether in production areas, cooling zones, or packaging sections. Energy-efficient heat recovery and digital monitoring tools safeguard quality and sustainability.



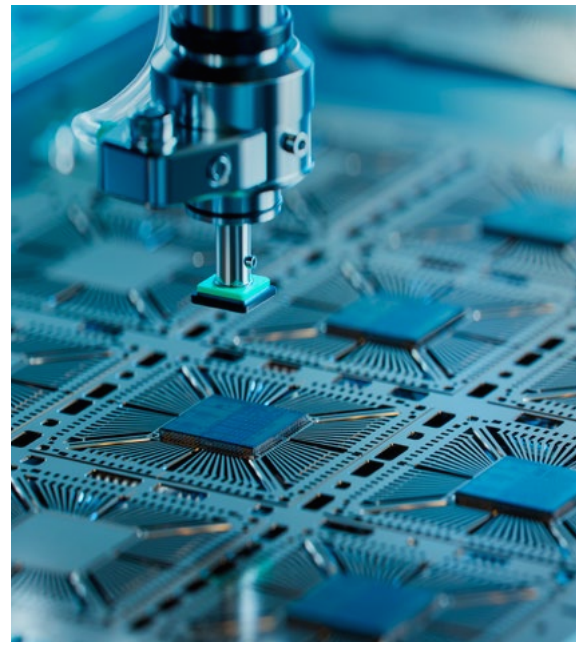
Pharmaceutical and Chemical Industry

Precision and safety are paramount in sensitive production environments. WOLF systems ensure stable air conditions, controlled pressure levels, and redundant supply – essential for cleanrooms and GMP-compliant processes. For ATEX zones in chemical plants, WOLF offers solutions with explosion protection and removal of solvent vapors and hazardous substances. Antimicrobial coatings, U15 filter walls for sterile production conditions, and TÜV-certified housing parameters guarantee the highest hygiene and safety standards. Additionally, decentralized ventilation systems enable flexible cleanroom concepts and seamless documentation through VDI-compliant data.



Electronics and Semiconductor Industry

Dust-free air and precise climate control are indispensable. WOLF ventilation technology meets the highest cleanroom requirements with extremely low particle concentrations and accurate temperature and humidity control. Air handling units for cleanrooms and production lines provide large air volumes and ensure controlled airflow for sensitive processes. Digital monitoring tools and redundant systems guarantee maximum operational reliability and rapid responsiveness.



Automotive Industry

Efficient processes require an optimal indoor climate. WOLF ventilation technology delivers powerful solutions for large paint shops and assembly halls with high air volumes and precise temperature and humidity control. Specialized ventilation systems ensure safe removal of solvents in paint shops, while climate control in assembly areas improves employee comfort. Heat recovery, BIM integration, and digital monitoring tools provide energy efficiency, planning reliability, and maximum operational control.



Metal and Mechanical Engineering

Robust processes require a stable climate. WOLF ventilation technology ensures high air exchange rates and controlled airflow to reliably remove heat and emissions. Systems for extracting welding fumes, oil mist, and dust guarantee clean working conditions, while temperature control in large production halls ensures consistent product quality. Energy-efficient heat recovery and digital monitoring tools provide operational reliability and sustainability – even under harsh environmental conditions.



Plastics Processing Industry

Temperature and air quality are critical for precise results. WOLF systems offer intelligent control and redundant supply to maintain constant conditions for molding processes. The removal of VOCs, odors, and vapors from injection molding or extrusion processes protects the production environment and ensures safety. Additionally, cooling of production areas guarantees stable temperature control, while VDI-compliant data enables reliable planning.



Printing and Paper Industry

Constant humidity and clean air are essential for material quality. WOLF ventilation technology provides precise control of humidity and temperature to prevent paper distortion and ensures efficient dust extraction. In addition, solvent vapors from printing processes are reliably removed. Maximum efficiency through heat recovery, combined with digital services and transparent life cycle costs, makes the solution economical and future-proof.



Textile Industry

Dust and fibers must not impair production. WOLF systems ensure efficient dust extraction and a clean, well-tempered climate with high air exchange rates. Precise control of temperature and humidity optimizes fiber properties and protects fabric quality. Sustainability and CO_2 transparency are integral parts of every solution.



Everything from a Single Source – Perfectly Coordinated

With WOLF ventilation technology, production facilities can be equipped for technical resilience and energy-efficient operation. Redundant systems can support emergency supply, while state-of-the-art fan technology and heat recovery contribute to energy-efficient operation. WOLF AHU technology is suitable for use in Green Buildings. High air exchange rates and precisely controlled airflow support the distribution of clean, conditioned air throughout the designated areas.

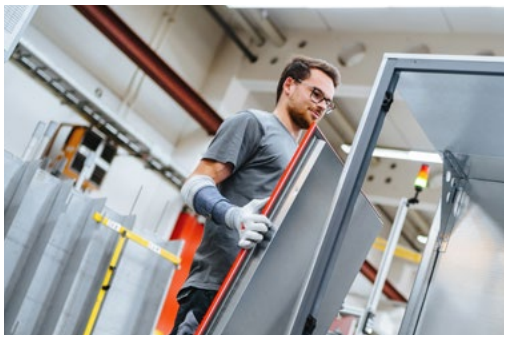
The AHU units are factory-prepared for connection and, if desired, fully wired – ready for just-in-time installation in technical rooms or mounted on a base frame for crane or helicopter transport to the roof. Connection to pre-installed duct systems and building management systems can simplify commissioning and help reduce operational interruptions during installation.

From planning to commissioning, WOLF provides a single point of contact. Maintenance and servicing are supported by hygienic and functionally optimized designs in accordance with European requirements. WOLF also offers monitoring and remote control.

Transparent life cycle costs, a verifiable CO_2 footprint, and an Environmental Product Declaration provide documented information across the product life cycle. Digital services such as the configurator and document package simplify project handling, while BIM integration and VDI-compliant data support planning processes. Sustainability is taken into account throughout the solution.



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



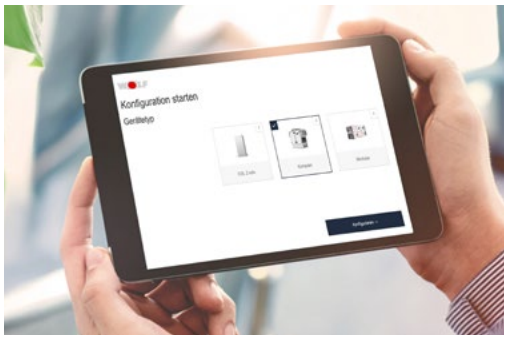
German Know-how

We develop our products at our headquarters in Mainburg, Bavaria - and 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 CO_2.



For an intact environment and diversity

We consciously prioritise durability and sustainability in our design and choice of materials. At WOLF, collaboration between different generations and nationalities is part of our working environment. Different perspectives and experience come together in our daily work.

WOLF Air handling

A suitable solution for every demand

- Hotel and accommodation
- Professional kitchen
- Retail stores
- Offices
- Agriculture
- Transport & traffic
- Pools and spa
- Logistics and warehouses
- Experience, culture and sports buildings
- Healthcare
- Educational institutions
- Data centers

Get in touch for more details

Please find your local contact on:
www.wolf.eu/wolf-worldwide

Contact us!



Willibald Weiss
Expert in Production and industrial buildings

WOLF