



ECOSYSTEM / OFFICE AND ADMINISTRATIVE BUILDINGS

# Air Handling Solutions for Office and Administrative Buildings

Maximum flexibility – Tailor-made ventilation systems

# Your strong partner for smart air handling solutions in office and administrative buildings

**Modern office environments not only require pleasant air conditioning but also often need to meet ambitious energy standards regarding their CO<sub>2</sub> footprint. Glass façades heat up quickly on the south side, while heating is still needed on the north side.**

In addition to offices, many office and administrative buildings feature large conference areas, a staff restaurant with its own kitchen, as well as server and technical floors. Another challenge: Most areas are only heavily used during core hours and are only partially occupied during off-peak times. At night and on weekends, office and administrative buildings are typically empty. Efficient ventilation helps reduce indoor air pollution.

Without sufficient ventilation, the concentration of carbon dioxide (CO<sub>2</sub>), germs, and other

pollutants increases inside the building. Yet all workspaces should be supplied with fresh air without drafts, and the technology used must be neither visually nor acoustically noticeable.

In the kitchen, beyond quiet operation and hygiene, the focus is especially on occupational and fire safety.

We support you from the very first planning phase and deliver smart climate solutions with low energy consumption in a compact design: precisely the installation- and maintenance-friendly solution your project needs today.





# WOLF Ventilation Technology: Hygienic, whisper-quiet, and efficient.

**Tailor-made WOLF ventilation systems combine comfort and sustainability with standards-compliant planning and economical operation. Our goal is for everyone to feel comfortable at all times on every floor, from the underground garage to the reception hall, event spaces, and up to the top floor. Workspaces in the kitchen and canteen are also designed to be pleasant and compliant.**

That's why precise control of climate, humidity, and noise is a top priority in our planning – always perfectly tailored to your individual requirements: on every floor, every side of the building, and in every season.

You won't see or hear WOLF ventilation technology. Thanks to innovative fan technology and low airflow speeds (up to 0.15 m/s), drafts are a thing of the past. Optional humidity recovery can prevent the unhealthy

phenomenon of "dry heating air."

Smart sensor technology ensures hygienically clean and conditioned air – exactly where it's needed, and only as much as is currently required. Even in complex room structures, the indoor climate – especially temperature and relative humidity – remains fresh and pleasant. Thanks to efficient filter technology, this is also possible in disadvantaged areas exposed to high environmental emissions.



# Heat recovery saves heating and cooling costs

**Precisely controlled WOLF air handling units not only use the most efficient and whisper-quiet fan technologies but also utilize the heat from exhaust air to temper the fresh supply air. This is achieved via high-performance heat exchangers that can recover up to 90% of the heat. This saves on heating and cooling costs.**

DIN 16798-1 regarding thermal indoor climate and air quality is implemented early in the planning phase. In new buildings, it can be decided early on whether the ventilation system will be installed on a technical floor or on the roof – possibly with color design

adapted to the architecture.

If maximum comfort and healthy well-being are desired, it can be considered at this early project stage whether active humidification is an option to prevent the phenomenon of “dry heating air” during winter months.



# Decentralized solutions for existing buildings

**Retrofitting ventilation units in existing buildings can be challenging if, for structural, aesthetic, or design reasons, no unit can be placed on the roof and no technical rooms are available inside the building. For such buildings, decentralized ventilation units from WOLF are ideal. They are installed inside or directly adjacent to the rooms to be ventilated.**

These compact units connect to the outside air via façade air outlets and offer the same climate comfort as centrally installed air handling units in terms of air quality, distribution, and energy efficiency.

Thanks to very short air duct paths, pressure and temperature losses are minimal. Even compact units adjust the air volume flow via

CO<sub>2</sub> sensors to different room occupancy levels and can be individually and quickly controlled. Ventilation centers, air shafts, and horizontal air distribution ducts are not required for decentralized units. This allows for fast on-site installation with short lead times for planning and minimal preparation work.



Reference Example: Decentralized HVAC Ceiling Unit



Reference Example: Decentralized HVAC Floor-Mounted Unit



# An Investment That Pays Off

**Efficient ventilation helps reduce indoor air pollution. Ventilation systems ensure a continuous supply of fresh, filtered air while simultaneously removing used air. This reduces the concentration of carbon dioxide (CO<sub>2</sub>), germs, and other pollutants in the building.**

## **Noticeable comfort. Reliable quiet. Maximum satisfaction.**

In a quiet and hygienically fresh atmosphere, work productivity increases, and sick days due to respiratory illnesses decrease. Our energy-efficient and whisper-quiet ventilation systems provide holistic comfort: They ensure a consistent supply of healthy, fresh, filtered air – without drafts or disturbing noise. Temperature and humidity can be individually regulated so that every person feels comfortable in every area of the building.

## **Sustainable comfort – for people and tomorrow**

A great indoor climate boosts well-being and productivity. Window ventilation is outdated. Window ventilation is a thing of the past – energy-efficient WOLF air handling technology with heat recovery and whisper-quiet state-of-the-art fan technology significantly reduces heating and cooling demand – and thus energy costs and the building's CO<sub>2</sub> footprint.

Our highly energy-efficient air handling units are therefore also used in DGNB or LEED-certified green buildings.



**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**

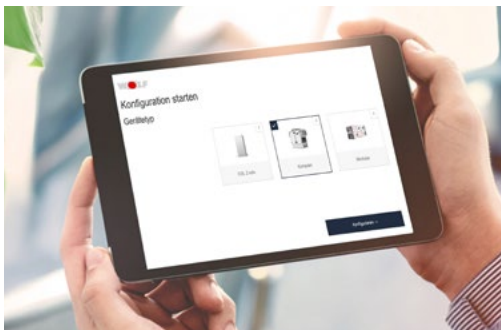
We develop our products at our headquarters in Mainburg, Bavaria - and manufacture them with the highest precision and vertical integration. WOLF Campus training programme offers you in-depth expert knowledge on professional installation, maintenance, etc. with seminars and in-house training courses.



### **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<sub>2</sub>.



### **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



Hotel and accommodation



Professional Kitchen



Production and industrial buildings



Healthcare



Agriculture



Experience, culture and sports buildings



Pools and spa



Logistics and warehouses



Retail stores



Transportation and traffic



Educational institutions



Data centers

## Get in touch for more details

Please find your local contact on:  
[www.wolf.eu/wolf-worldwide](http://www.wolf.eu/wolf-worldwide)



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Expert in Office Buildings