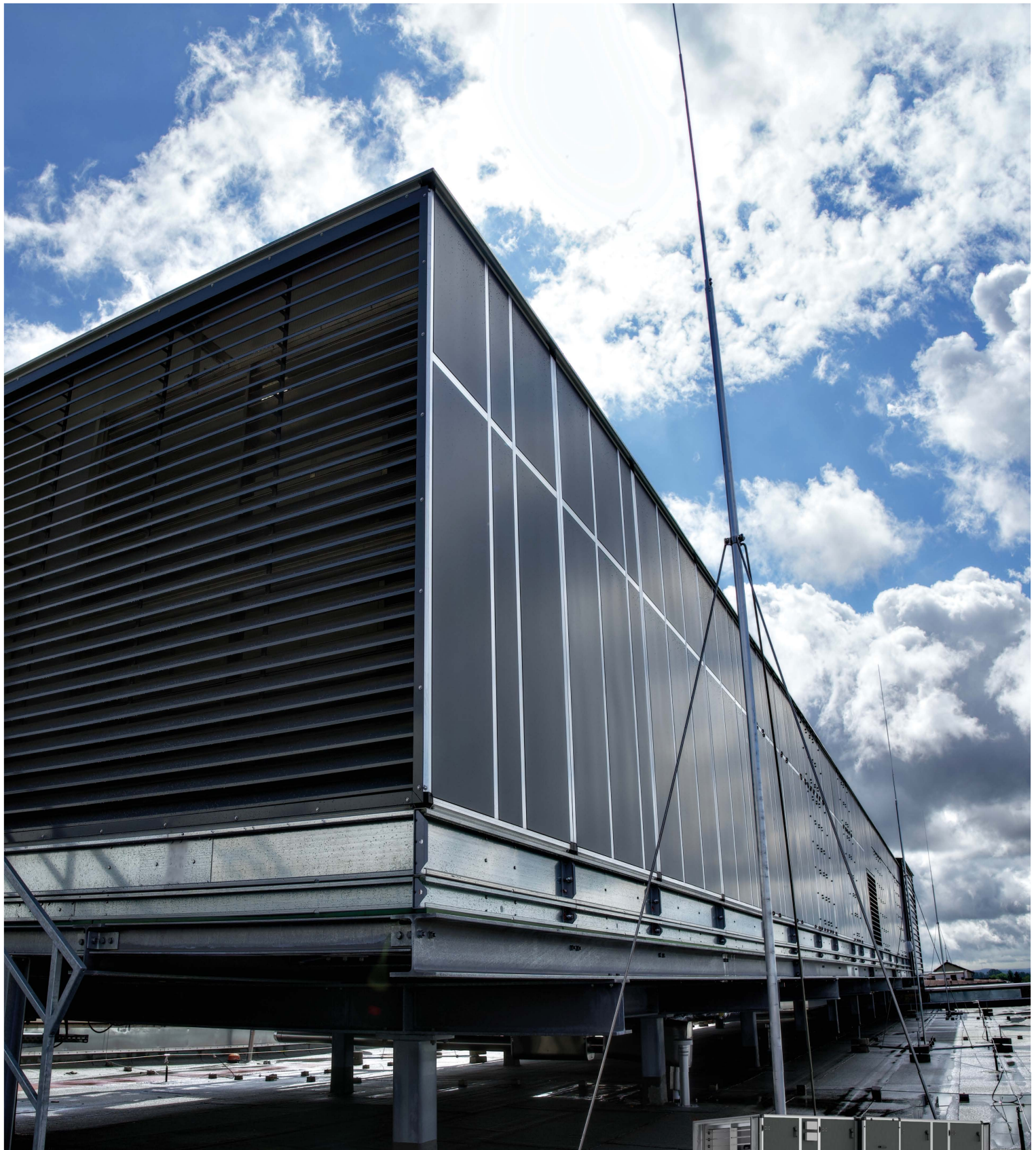




GRAND

Customised air handling unit range with excellent flexibility and quality for demanding applications.



Swegon 

Quality and experience you can trust

For more than five decades, the factory in Germany has been redefining excellence in air handling solutions, forming the foundation of the GRAND series.

Over the years, thousands of units have been delivered from the factory and installed at customer premises. When it is time for service, many still appear almost brand-new, which confirms their lasting quality and durability.

GRAND stands for enduring value in every dimension, especially when it comes to long lifetime and serviceability.



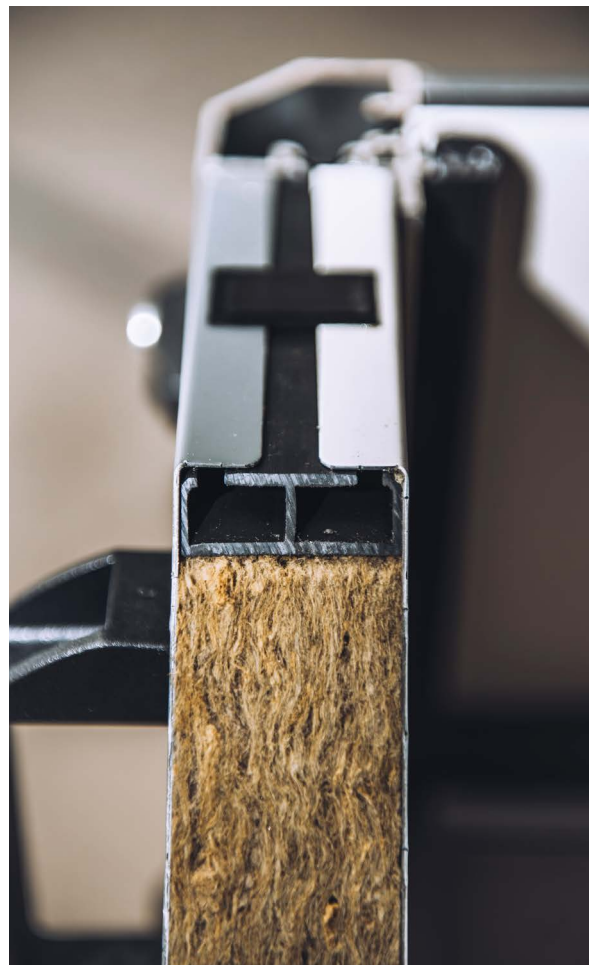
Endless flexibility in material, components and design

Excellent casing performance

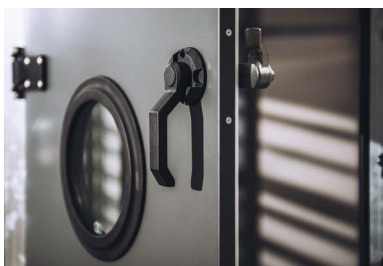
The GRAND series meet the highest requirements for energy efficiency, air tightness and mechanical stability.

- Thermal insulation: High thermal insulation T2 (M)
- Thermal bridging: No contact between outer and inner sheet metal minimises thermal bridges TB2 (M)
- Mechanical strength: High mechanical stability D1, thanks to double-sided adhesive insulation and high-density insulation
- Leakage class: L2 (R) / L1 (M)
- Pressure resistance: up to 2,500 Pa

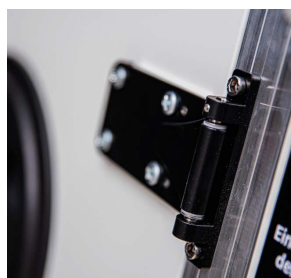
This combination of mechanical robustness and thermal optimisation ensures reliable, energy-efficient, and hygienic operation even under extreme conditions.



Cross section of casing

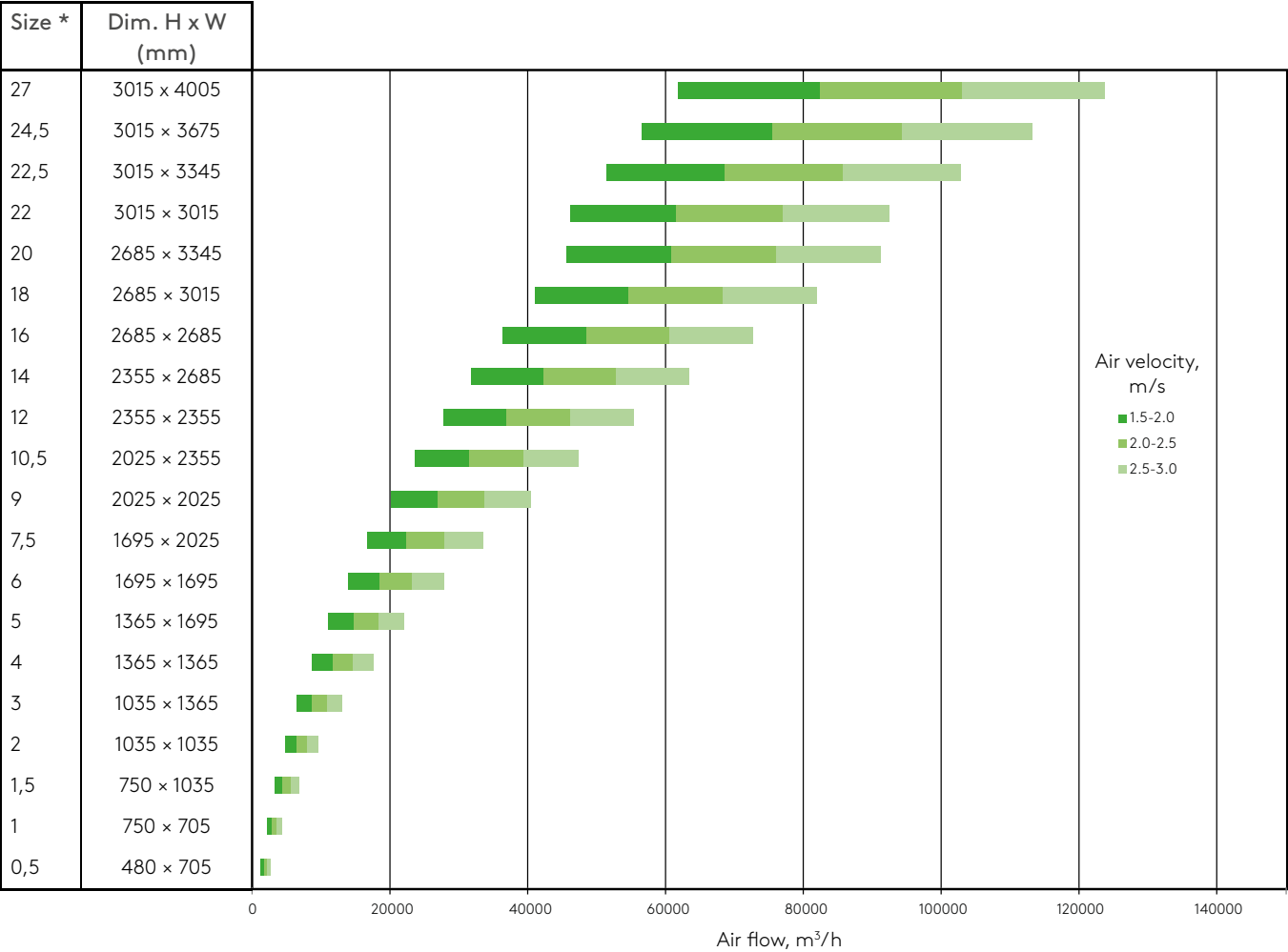


Lockable handle

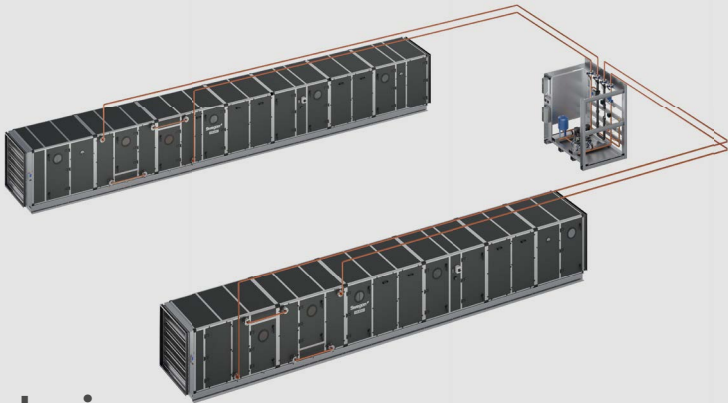


Adjustable hinges

Product range/sizes



* Standard sizes are shown, customised sizes are also available.



Profitability analysis for smarter planning

Modern air handling solutions are not only about high performance, but about creating a clear understanding of how systems perform over time. Through advanced analysis of operating conditions, it is possible to gain a comprehensive view of performance in both summer and winter scenarios, including dehumidification, heating and cooling recovery.

Functions such as humidification, adiabatic exhaust air humidification, and the use of free cooling also contribute to overall system efficiency and can be included in a complete energy evaluation. The result is a deeper understanding of energy use and operating costs throughout the year.

This holistic approach increases transparency and supports the development of solutions that combine comfort, sustainability, and long-term cost efficiency.

The difference is found in the details

Every detail in GRAND is carefully considered and engineered to perfection, e.g inspection windows are designed with double glazing in real glass, not plexiglass, ensuring superior durability, clarity and long-term performance.

Dampers are equipped with additional sealing foil to minimise leakage and secure optimal airtightness throughout the unit.

In-house developed and manufactured coils

The coils are based on patented and advanced design principles, including optimised coil geometry and optional oval tube technology, which reduces pressure drop while maintaining high thermal efficiency.

EcoFin is designed with corrugated fins, wide tube spacing and round tubes.

With EcoFin+, performance is taken even further, using corrugated fins with narrow tube spacing, round or oval tubes. Thanks to the innovative structured fins and flow-optimised oval tubes, pressure losses are reduced by up to 45% while maintaining the same thermal output.

This results in:

- Lower fan energy consumption
- Improved system efficiency
- Reduced operating costs



Highly efficient heat recovery systems

GRAND incorporates advanced heat-recovery technologies engineered for maximum energy efficiency, low operating costs, and exceptional operational safety. These systems are ideal for applications requiring minimal leakage, no moisture transfer and strict hygienic separation of air streams.

The heat recovery system also offers advanced features such as dehumidification cooling-recovery, free cooling, and highly efficient indirect heating and cooling capabilities.



The system controls the intermediate circuit to optimally balance the airflow and liquid flow, ensuring maximum heat recovery.

Hygiene is at the core of the design

Developed in accordance with VDI 6022, GRAND units ensure high standards of cleanliness and safe operation.

- Washable
- Stainless steel tray
- Tray across entire bottom with slope
- Window protection to minimise bacterial growth

GRAND ensures highly energy-efficient and safe heat recovery, even under the most demanding hygienic and thermal conditions like hospitals or pharmaceutical.

Experts in demanding and critical applications

The GRAND units are suitable for most types of applications but especially excel in hygiene and critical applications. Flexible solutions with hygienic design, sophisticated energy recovery systems, ATEX, service corridor and many other solutions to specific requirements.



Hygiene

Designed for pharmaceutical environments, clean rooms, and other applications where air quality and hygiene are critical. GRAND units feature smooth surfaces, rounded corners, and no internal protrusions for easy cleaning and maximum hygiene. Built to the air-tightness standard L2 (EN 1886), they ensure exceptional performance and safety.

Key highlights:

- Optimized for washability and hygiene
- Safe and easy maintenance
- Leakage testing available for individual units
- Full compliance with VDI 6022

Industry

Special focus is placed on industrial demands, including high operational reliability, effective corrosion protection for harsh environments, and design for easy service and maintenance. Each unit is tailored to specific requirements and never limited to standard configurations.

This reflects excellent engineering in practice: structured, precise and uncompromising, resulting in air handling units that maintain performance and integrity over decades, even in harsh environments.



Hospital

Hygienic design that meets requirement in all hospital environments, from operating theatres to patient hotels. Units can preferably be delivered with a hydronic heat recovery system to avoid any risk of internal leakage.

Designed to minimise internal chemical and bacteriological contamination, these units ensure the highest standards of hygiene and safety.

Key features:

- Accurate quality and temperature control
- Reliability, easy maintenance, and operational safety
- Superior washability and hygiene



Clean room

Our modular systems are engineered to meet the strictest standards, including DIN 1946, VDI 6022, and EN norms, ensuring absolute reliability and safety.

With smooth, easy-to-clean surfaces and a design that prevents contamination, GRAND units ensure optimal air quality for semiconductor production, pharmaceutical facilities, laboratories and food processing plants.

Key features:

- Tested and approved according to DIN, VDI, and EN standards.
- Smooth surfaces and removable components for maximum hygiene.
- Filtration stages with absolute filters
- Redundancy ventilation to reduce downtime during maintenance



ATEX

GRAND ventilation units can be customised for use in explosive environments up to category Ex II 2G IIB+H₂ T4, both indoor and outdoor. The systems are designed for zone 1, where explosive gas atmospheres may occur regularly.

The units are developed to maintain a high level of safety even in the event of foreseeable disturbances or faults, meeting the requirements of the current ATEX directive.



Feel good **inside**

