

MODULAR

Sectional air handling unit
for outdoor installation



MODULAR



General information

MODULAR air handling units have been designed to fully meet individual user requirements. Their sectional design allows flexible configuration of size, functions, and technical parameters.

The capacity range from 700 to 100,000 m³/h makes them suitable for both small and very large industrial, commercial, and specialist facilities. MODULAR units offer the possibility of individually selecting functional sections, material design, housing colour, and control systems, allowing them to be precisely tailored to the requirements of engineering, technological, and architectural projects.

Technical specification

- Capacity: from 700 to 100,000 m³/h
- Version: indoor / outdoor
- Installation: floor-standing
- Design: sectional
- Special versions: saline / acid-resistant / with EX components



Individual **capacity** selection
(100,000 m³/h and more)



Individual **size** customization



Individual selection of **functional sections**



Non-standard **design solutions**



Individual customization of the **unit casing**



Customize the air handling unit to your needs



Flexible selection of functional sections



Rotary heat exchanger section



Cross-flow heat exchanger section



Double cross-flow heat exchanger section



Counter-flow / MHR section (hexagonal)



Mixing section



Fan assembly section



Heating section



Cooling section



Supply air section



Silencer section



Heat pump section



Reversible system section



Filtration section



Glycol recovery system section



Gas heater

Custom configurations

Designed for the most demanding operating conditions

Air handling units in special versions are individually designed devices for air treatment, adapted to the specific operating conditions and technical requirements of the facility.

These solutions are intended for applications where standard configurations do not meet design, functional, or material expectations.



Saline

Air handling units in saline-resistant versions are designed to operate in harsh conditions and at elevated humidity levels. Thanks to properly selected materials and design solutions, they are used in the food industry, pharmaceutical industry, food processing plants, and swimming pool halls.



Acid-resistant

Acid-resistant air handling units are designed for operation in environments with acid and alkali fumes as well as high humidity. Thanks to carefully selected materials, they offer high corrosion resistance and long service life, making them suitable for chemical and pharmaceutical plants, wastewater treatment facilities, and other demanding applications.

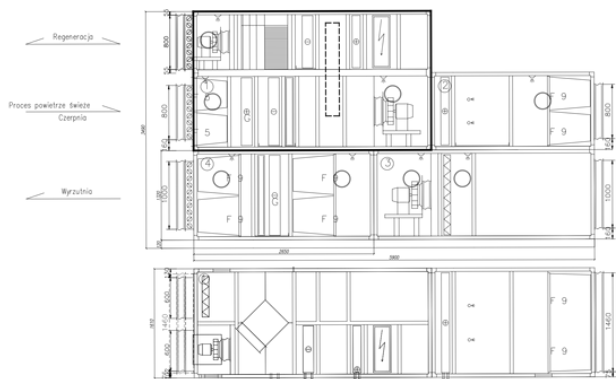
Explosion-proof

Explosion-proof air handling units are designed for operation in facilities and rooms with explosion risk. Thanks to appropriately selected design solutions, they are suitable for applications where flammable gases, vapours, or dust-air mixtures are present.



Hybrid air dehumidification

Air handling units with an air dehumidification module are advanced ventilation devices designed for operation in applications that require both ventilation and controlled air dehumidification. Thanks to hybrid technology, they ensure high efficiency wherever a stable humidity level is crucial for the technological process or user comfort.



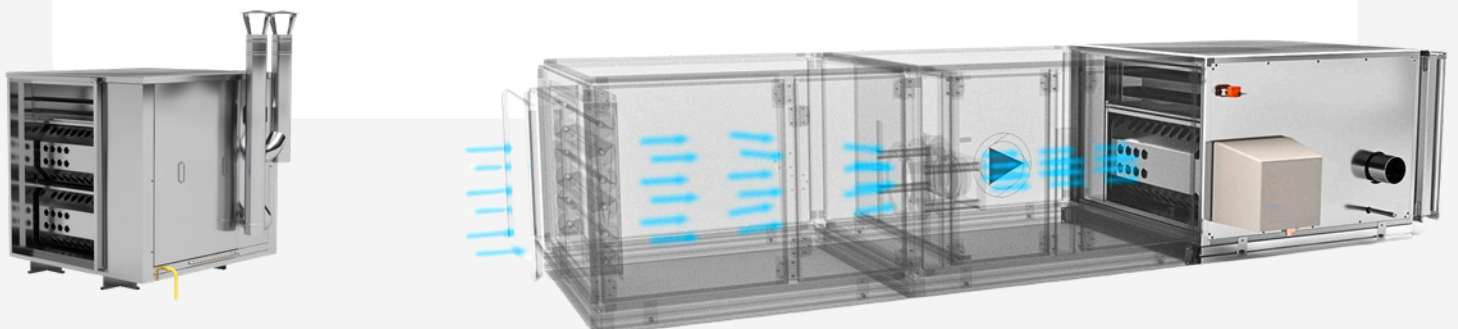
Integrated dehumidification built into the air handling unit

Our air handling unit features an innovative design with a fully integrated dehumidifier. This gives the customer a ready-to-operate, high-performance unit without the need for separate dehumidification systems.

Gas heater

Efficient and energy-saving heating.

The Gas Heating Module is a modern device designed for efficient and economical space heating through the ventilation system. Thanks to advanced gas combustion technology, it provides high heating capacity while reducing energy consumption and emissions.



Discover the full capabilities of the unit

with VBW Engineering proprietary automation



The proprietary VBW Engineering automation system provides full control over the unit operation and enables integration with building management systems.

We provide support in installation, cabling, selection of automation components and power/control switchgear.

If you expect more...

PREMIUM+ automation extends the capabilities of the standard control system with functions tailored to the requirements of the facility and the operating mode of the installation.

Discover the full potential of your unit

PREMIUM+ Automation



Full control over the unit



Optimization of operation and operating costs



Integration of units cooperating with air handling units



Individual graphics based on building design documentation



Intelligent energy management systems



Internet access from anywhere in the world



Integration with Smart Home systems

*additional options available during unit selection.

Plug&Play system (option)



The idea behind air handling units with the Plug&Play automation system is to manufacture and deliver a unit ready for operation, after preliminary configuration, connection of the necessary external accessories and power supply. This is possible thanks to the use of complete internal wiring of the unit and a control cabinet with a controller installed directly on the air handling unit.



Benefits of the Plug&Play system

- + Reduced installation and commissioning time (lower costs).
- + Factory configuration and complete wiring ensure trouble-free unit operation.
- + Electrical connection completed and verified by a qualified team of technicians.
- + Certified cables, electrical terminals, approved junction boxes and cable connectors.



Air tailored to **your** needs



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