VBW Engineering sp. z o.o.

MODULAR

Sectional air handling unit
tailored to the customer's needs



CUSTOM made

MODULAR

General information

MODULAR air handling units are advanced devices designed to be fully adapted to the individual needs of the user. Their design is based on a sectional structure, which allows for free configuration of size, functions and technical parameters.

The capacity range from 700 to 100,000 m³/h allows the unit to be used in both small and very large industrial, commercial and specialist facilities. MODULAR devices offer the possibility of individual selection of functional sections, material execution, housing color and control systems, thanks to which they ideally fit into demanding engineering, technological and architectural projects.



Technical Specification

- Capacity: from 700 to 100,000 m³/h
- Installation: interior/exterior
- Foundation: standing
- Construction: sectional
- Special versions: salt / acid-resistant / with EX elements

Individual fit
capacity (100,000 m³/h < and more)

Individual fit
dimensions

Individual selection
functional sections

Custom solutions
construction

Individual fit
device casing





Due to constant product development, VBW Engineering sp. z o.o. reserves the right to change parameters and dimensions without prior notice.

Tailor the AHUs to your needs

CUSTOM made



Flexible selection of functional sections

- Rotary heat exchanger section
- Cross flow exchanger section
- Double cross flow exchanger section
- Counterflow exchanger section / MHR (hexagonal)
- Mixing section
- Fan assembly section
- Heating section
- Cooling section
- Humidification section
- Damping section
- Heat pump system section
- Reversing system section
- Filtration section
- Glycol recovery system section
- Gas heater

Special Designs

Designed for the most demanding working conditions

Special-design air handling units are individually designed air treatment devices, adapted to the specific working conditions and technical requirements of the facility. Each solution is created in response to unusual design needs, both in terms of construction, functionality and materials.

These units are dedicated to investments where standard configurations do not meet expectations – from industrial and technological applications to facilities with rigorous hygiene, thermal or acoustic standards.

Brine execution

The **C5/C5** Brine execution designed for difficult conditions, the brine units combine advanced materials, such as coated steel, and unique design solutions. This makes them the right element of a ventilation system designed for chemical, pharmaceutical or food processing facilities, and above all in typical brine pools, where maintaining appropriate air parameters is crucial for the durability of the installation and user comfort.





Acid-resistant

The **CX/C4** acid-resistant ventilation unit is a specialist solution designed for use in aggressive environments with acid and alkali fumes and high humidity. Thanks to the use of acid-resistant materials, such as AISI 316L stainless steel and protective coatings, the device provides maximum corrosion resistance and long service life. It is perfect for the chemical and pharmaceutical industries, sewage treatment plants and other demanding projects, guaranteeing reliability and efficiency in extreme conditions.

Explosion-proof

Explosion-proof units are specialist devices for air treatment in buildings and rooms requiring special protection. Explosion-proof devices are products intended for use in places where there is a probability of explosive compounds, liquids, gases, vapors or dust-air mixtures with flammable and explosive properties.

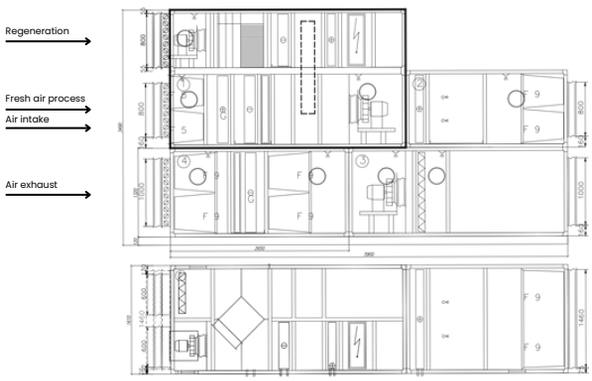


GIG National Research Institute

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Hybrid air dehumidification

Air handling units with an air drying module are advanced ventilation devices designed to work in specific conditions. Their task is to simultaneously ventilate and control the drying of air in rooms. Thanks to the use of hybrid technology, these units guarantee high operational efficiency where a stable humidity level is crucial for the technological process or user comfort.



Dehumidification built into the unit's structure

Our air handling unit is distinguished by its innovative design, in which the dehumidifier is fully integrated with the unit. Thanks to this, the customer receives a fully ready-to-use, efficient device, eliminating the need for separate dehumidification systems.

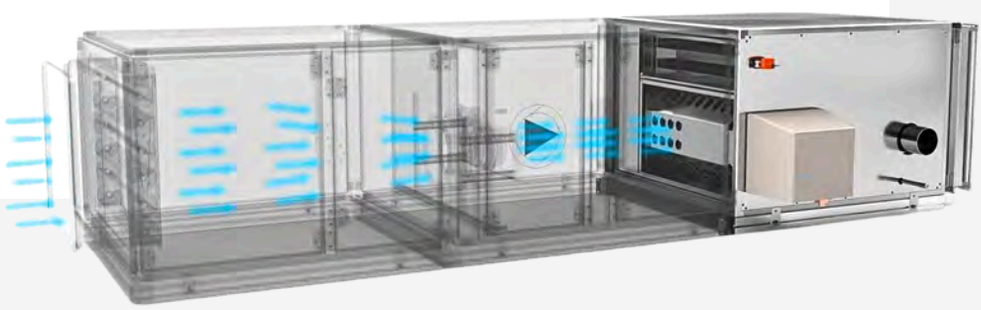
Gas Heater

Efficient and energy-saving heating.

The Gas Heating Module is a modern device designed for efficient and economical heating of rooms through a ventilation system.
Thanks to the use of advanced gas combustion technology, it ensures high thermal efficiency while minimizing energy consumption and exhaust emissions.







Discover the full capabilities of the device

Thanks to the proprietary automation by VBW Engineering



Our proprietary automation system supports modern solutions for **"Smart Home"**. Thanks to them, our customers gain full and easy control over the device.

Our experts offer comprehensive support, including assembly, wiring between automation components and the power and control switchboard. In addition, we deal with the start-up of automation systems and all agreements and activities related to integration with devices and components of other installations.

PREMIUM+ Automation

At the customer's request, we deliver devices with the PREMIUM+ automation system tailored to the customer's individual needs

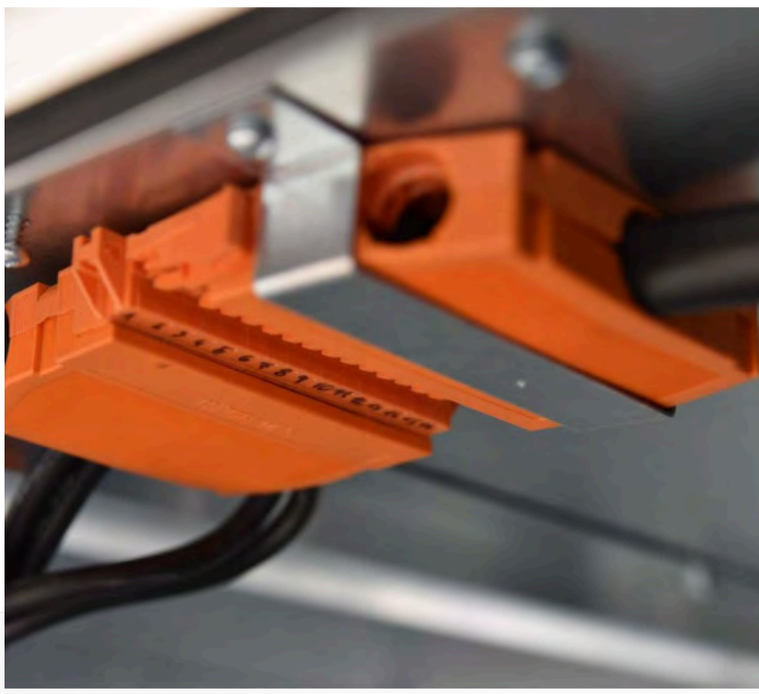
- Full control over your device
- Optimization of work and operating costs
- 24/7 access to the device (Remote Service Center)
- Reminders about inspections
- Integration of devices cooperating with control panels
- Individual graphics for building designs
- SMS — E-mail and text messages notifications available
- Intelligent energy management systems
- Smart Homes integrated Smart home systems
- Internet connectivity, access from anywhere on earth

*additional options available when selecting the device.

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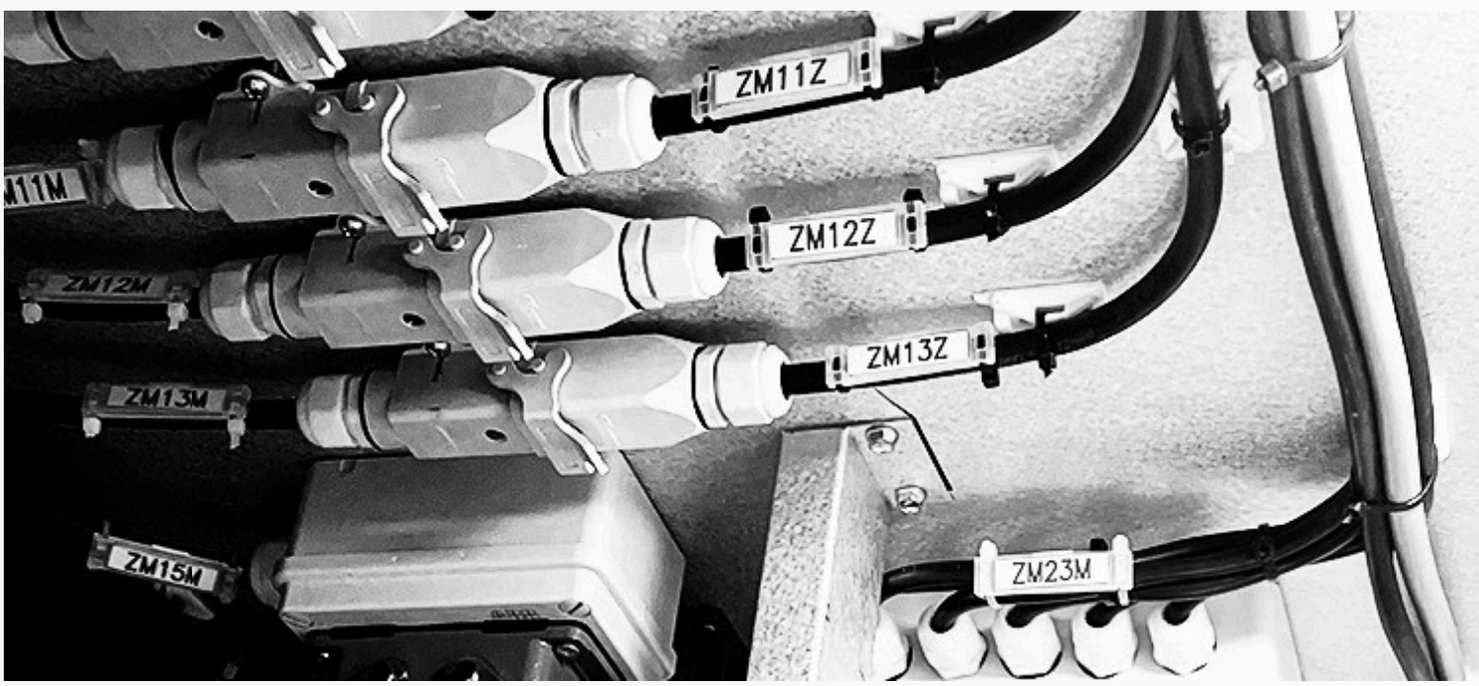
PLUG&PLAY System (option)

The idea of control units with the Plug&Play automation system is to produce and deliver to the customer a device ready to work, directly after initial configuration, connection of the necessary external accessories and supply voltage. Such a solution is possible thanks to the use of internal, full cabling of the device and a switchboard with a controller installed directly on the control unit.



Advantages of the **Plug&Play** system

- Reduced installation and commissioning time (cost reduction)
- Factory configuration and complete cabling guarantee trouble-free operation of the device
- Electrical connection made and checked by qualified technicians
- Certified cables, electrical terminals, certified boxes and cable connections



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Contact us!

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