# Controlled room and zone ventilation. The complete product range.





### Compact or universal – air volume control with Belimo.



### The cost-efficient way to controlled room climate.

Human health, well-being and work performance are crucially influenced by room climate. Belimo room and system solutions – a complete range of products for cost-efficient motorisation and control of zones and single rooms – are proven in numerous installations all over the world.

### VAV-Compact – efficient room control with a single unit

Actuator, controller and sensor in one unit - VAV-Compact provides an economical solution for variable and constant air volume control systems in office buildings, hotels, hospitals, etc. Special rotary actuators with a torque of 5 or 10 Nm and linear actuators with 150 Nm can be supplied for a wide range of VAV/CAV unit sizes and types. VAV-Compact controllers can be controlled conventionally, via LonWorks®, MODBUS or via the Belimo MP-Bus®. The MP types can be integrated in a higher-level system - together with one sensor per device - either via a DDC controller with an MP interface or by means of a gateway. The fans can be incorporated in an MP-Bus® based Belimo Fan Optimiser system to facilitate cost-optimised control according to demand.

### VAV-Universal – flexibility in problematic environments

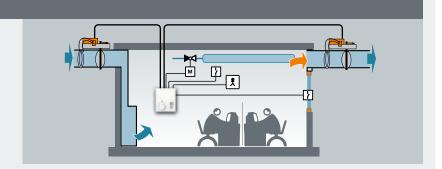
The ready-to-connect VAV-Universal range encompasses rotary and safety actuators as well as controllers with dynamic and static pressure sensors. These devices can be finely tuned to the exact requirements in industry, trade and public buildings. Digital, self-adaptive VRP-M controllers interact with fastrunning actuators in laboratories or production areas with a severely polluted room atmosphere to assure an instant supply of fresh air. Depending on what is chosen, the control systems can be integrated in a higher-level fieldbus and equipped - directly or over the MP-Bus® - with the Belimo Fan Optimiser to cut fan energy consumption by up to 50%.

## Increased convenience, a better working atmosphere, optimum energy efficiency.

### **VAV-Compact for convenient solutions**

### Individual room comfort

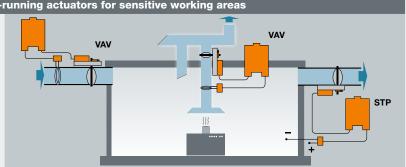
- Wide range of potential applications
- Adjustable to each application
- Demand-based single-room application
- Operation with Fan Optimiser system



### VAV-Universal with VRP-M controller and fast-running actuators for sensitive working areas

### Instant pure air

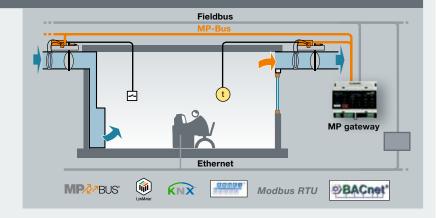
- Extraction of polluted air
- Ready-to-connect control system for maximum safety
- Integration in MP-Bus® network
- Volumetric flow or pressure control



### **VAV-Compact with bus connection**

### Intelligent simplicity

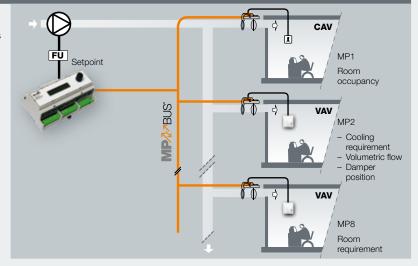
- System connection to DDC controller with MP interface via MP-Bus®
- Integration in higher-level systems such as LonWorks®, Konnex, Ethernet TCP/IP, Profibus DP, Modbus RTU etc. via MP gateway
- Convenient, cost-efficient wiring
- Maximum flexibility in new, retrofitted, converted or renovated buildings



### VAV-Compact with Belimo Fan Optimiser system for reduced energy consumption

### Up to 50% fan energy saving

- Optimised consumption and operating costs
- Reduced flow noise thanks to lower supply pressure in the air duct system
- Reduced wiring expenses thanks to MP-Bus® network



## Convenient room air solutions for working and public areas.



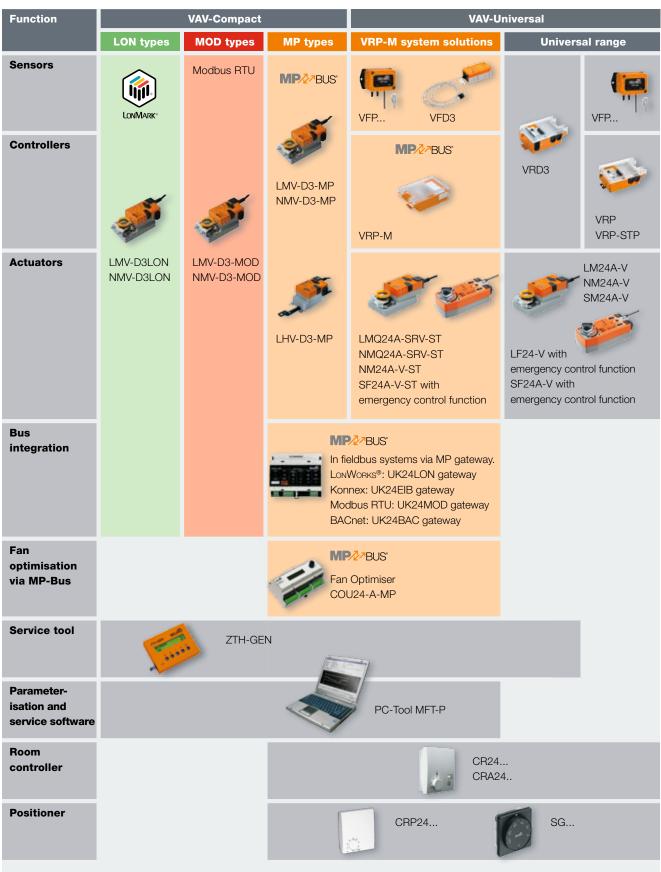
## Process air applications for sensitive working areas.



## Room air and safety applications for trade and industry.



## Product range overview. Volumetric flow and pressure control.



Note: Separate documentation for the VAV-Compact LON version, MOD version, VRP-M system solution, VAV-Universal, CR24, CRA24, CRP24 single-room controllers, COU24-A-MP Fan Optimiser, tools and interfaces can be found on the Internet at **www.belimo.eu** 

### All-inclusive.





### Headquarters

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