



## VAV-Compact NFC. Another step forward.

### EXPERIENCE EFFICIENCY

The VAV-Compact<sup>1)</sup> is a cost-optimised unit comprising differential pressure sensor, controller and actuator, and has been setting standards in volumetric flow control in rooms and zones since 1990. The enhanced sensors guarantee implementation of modern ventilation systems according to DIN EN 15232. The unique operating concept helps to reduce energy consumption and costs. You also benefit from the following advantages:

- Transparent and functional to ensure system efficiency
- Intuitive and open operation using a smartphone, service tool and PC-Tool
- Rapid diagnosis and adjustment of the VAV unit using the Belimo Assistant app
- Simple, wireless connection via integrated NFC interface<sup>2)</sup>
- Efficient commissioning as data can be read and written even when deenergised

Demand the original from the pioneer.

# VAV-Compact NFC. Complete, efficient, intelligent.

## Energy-efficient volumetric flow systems in accordance with DIN EN 15232



The legal energy provisions require the building shell to be both highly insulated and sealed. Any emissions that may arise must be evacuated and corresponding amounts of fresh air must be supplied. DCV systems<sup>3)</sup> for demand-based control satisfy the requirements for controlled air exchange according to energy efficiency class A of DIN EN 15232. Modern VAV systems ensure demand-controlled operation from the air conditioning's fan to the room – not supplying the maximum possible but rather exactly that required.

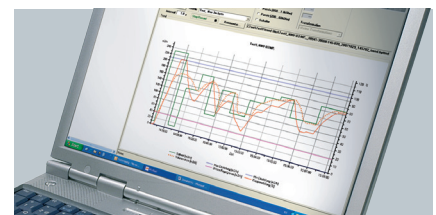
## Transparency and information



**Belimo Assistant app.** Make light work of adjustments to operating volumetric flows as usage changes. Set points/ actual values and damper position are displayed for instant assessment of system efficiency. The NFC interface eliminates the need for any cable connections.

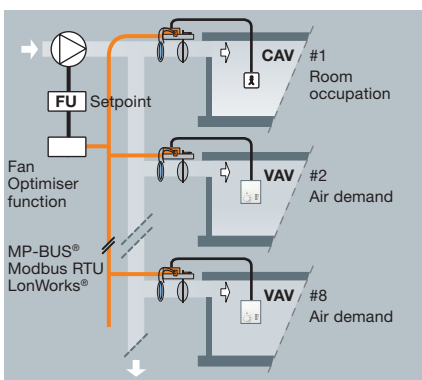


**Service tool ZTH EU.** VAV units that are hard to access as they are mounted in concealed locations can be operated directly from the control cabinet, floor substation or CR24 room controller thanks to the ZTH EU. Values can be displayed with ease and adapted should usage change.



**Belimo PC-Tool.** The tried and tested PC-Tool enables complete operation, functional testing and adjustment of the VAV-Compact units. Trend functions with graphic illustrations simplify checking. All parameter setting and actual values can be saved and printed out at any time offline or online.

## Open system solution for analogue and bus control

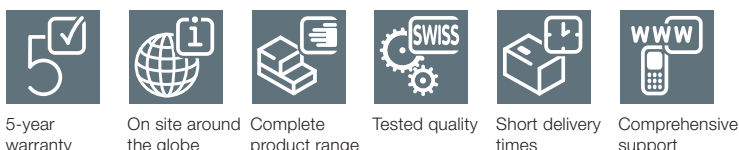


The VAV-Compact series has highly sensitive sensors for precise  $\Delta p$  recording. This allows the smallest of volumetric flows to be controlled. The simple integration of devices in DCV systems with a Fan Optimiser function with pressure feedback plays an important role in meeting SFP requirements<sup>4)</sup>.

The VAV-Compact units can be extended at any time from analogue actuation to an MP-Bus<sup>®</sup> system – in many cases with the existing cabling. This enables massive savings in installation costs. Less cable means smaller fire loads and smaller control cabinets. Central access to all relevant VAV controller data ensures simple realisation of energy-efficient systems according to DIN EN 15232.

<sup>1)</sup> VAV – Variable Air Volume: variable volumetric flow system  
<sup>2)</sup> NFC – Near Field Communication: wireless transmission standard  
<sup>3)</sup> DCV – Demand Controlled Ventilation: demand-based ventilation system with Fan Optimiser system using pressure feedback  
<sup>4)</sup> SFP – Specific Fan Power

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