SUCCESS STORY VIESSMANN (EN)

Compact solutions for maximum customer benefit.

Unique installation options.

Viessmann is a family-owned company headquartered in Allendorf (Eder) in Germany that develops intelligent and sustainable energy systems and HVAC solutions for residential, industrial and commercial buildings. Founded in 1917, the company employs more than 14,500 people in 74 countries. Of these, 9,000 employees work for the Climate Solutions business unit.

Like Belimo, Viessmann stands for sustainable and energy-efficient solutions with highest quality standards. As an OEM (Original Equipment Manufacturer), optimum indoor comfort in buildings through intelligent products and resource-saving energy sources is the company's focus. Using damper actuators from Belimo's UM series, Viessmann has developed the Vitoair FS 300E domestic ventilation system, which is one of the flattest of its kind and thus offers unique installation options.

BUILDING TYPE
Residential

PROJECT
Central domestic ventilation system with heat and humidity recovery

TRADES
Ventilation

PRODUCTS
Damper actuator UM230Y-F-L

BELIMO

Working together for comfort and energy efficiency.

Viessmann's wide product range includes a vast selection of renewable and fossil fuel system solutions for all applications, such as heat pumps, heating systems and ventilation systems.

The Vitoair FS 300E from the Viessmann product range is a central domestic ventilation system and is, with an overall height of just 245 mm and a maximum air flow rate of 300 m³/h, the most compact ventilation unit in its class. The two integrated heat exchangers allow heat and humidity to be recovered, thus ensuring optimum indoor air quality. The low profile construction of the Vitoair FS 300E allows flexible installation under the ceiling, on the wall or horizontally in pitched attics. In 2022, Viessmann's domestic ventilation system was awarded Product of the Year 2022 by the readers of haustec.de magazine.

A Belimo UM actuator installed in Viessmann's Vitoair FS 300E ventilation system (rendering)

The Vitoair FS 300E uses Belimo UM series damper actuators. The ventilation system has a low installation depth, making it easy to install even in low room heights. The air ducts underneath the actuators had to be as compact as possible so that, despite their narrow design, they still had a suitable cross-section for the ventilation unit.

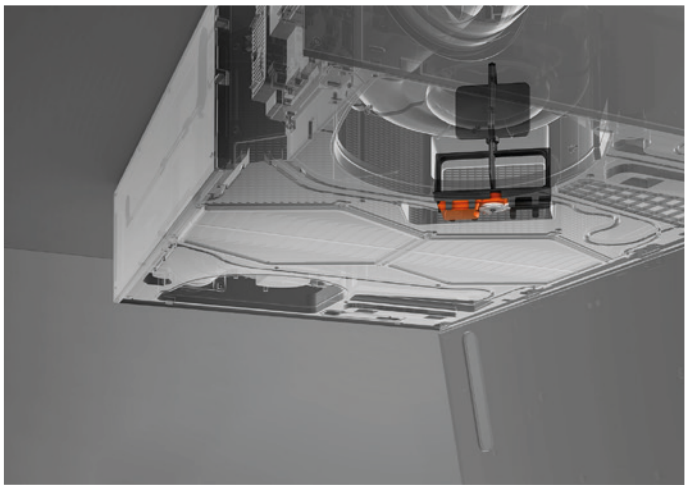
Belimo's UM230Y-F-L damper actuator provided the optimum solution to this challenge. UM actuators are among the smallest on the market. With an installation depth of only 28 mm, the actuator is extremely slim compared to others of similar power, enabling a more compact design of the entire ventilation unit. Belimo's reliable actuators are manufactured as ready-to-connect solutions for OEMs and offer simple and error-free mounting thanks to their integrated, reverse polarity-protected connector plugs.

"With the help of the UM actuators and their flat construction, we have been able to design the Vitoair FS 300E to be the flattest ventilation unit on the market and one that provides ready integration, even with low ceiling heights.

Daniel Schröder
Systems Engineer Ventilation Systems
Viessmann Climate Solutions SE

The Belimo UM230Y-F-L damper actuator

The actuator is used to control two dampers of a bypass in the ventilation unit. The bypass is activated, for example, on cool summer nights, allowing filtered outdoor air to be introduced directly into the building without heat recovery. This allows the ventilation system to use the actuator for energy-efficient operation as required. A patent application for this bypass solution was filed in 2022.



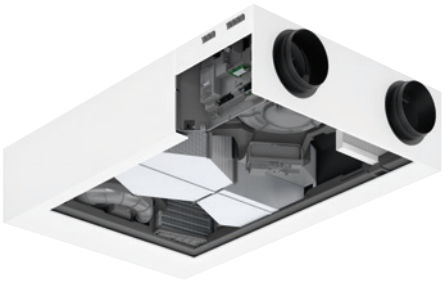
Interior of a Vitoair FS 300E ventilation system from Viessmann (rendering)

Working together for solution leadership.

For the implementation of the Vitoair FS 300E ventilation unit from Viessmann, Belimo impressed not only with the unique design of the UM actuators, but also with its customer-oriented service. "Working with Belimo has always been straightforward. Even last-minute enquiries were always dealt with quickly," says Daniel Schröder, System Engineer for Ventilation Systems at Viessmann. "Sample parts were provided free of charge and delivered in an uncomplicated and speedy manner, allowing us to develop our ventilation system without delay," he adds.

The Viessmann Vitoair FS 300E has been on the market since 2022.

Vitoair FS 300E (rendering)



Vitoair FS 300E, open (rendering)

All inclusive.

Belimo is the global market leader in the development, production, and sales of field devices for the energy-efficient control of heating, ventilation and air-conditioning systems. The focus of our core business is on damper actuators, control valves, sensors and meters.

Always focusing on customer value, we deliver more than only products. We offer you the complete product range for the regulation and control of HVAC systems from a single source. At the same time, we rely on tested Swiss quality with a five-year warranty. Our worldwide representatives in over 80 countries guarantee short delivery times and comprehensive support through the entire product life. Belimo does indeed include everything.

The "small" Belimo devices have a big impact on comfort, energy efficiency, safety, installation and maintenance.

In short: Small devices, big impact.

- 5-year warranty
- On site around the globe
- Complete product range
- Tested quality
- Short delivery times
- Comprehensive support

EN – 04.2023 – Subject to technical modifications

BELIMO Automation AG
Brunnenbachstrasse 1, 8340 Hinwil, Switzerland
+41 43 843 61 11, info@belimo.ch, www.belimo.com

BELIMO