



**Excellent  
room comfort.**

### **UM/UH actuators – Belimo’s smallest**

Zone applications in residential and commercial buildings, as well as ventilation systems for schools and residential buildings require small, reliable and cost-effective actuator solutions. Ventilation as required lowers energy costs, reduces CO<sub>2</sub> emissions, and improves air quality and overall well-being.

With the UM/UH actuator, Belimo has developed a solution that is one-of-a-kind worldwide. The HVAC actuators have an integrated, reverse polarity proofed connector plug, can be easily installed (plugged in) and feature the smallest dimensions on the market. Belimo’s reliable actuators are ready-to-connect OEM (Original Equipment Manufacturer) solutions that are easy to integrate and offer many options for mechanical connection to the ventilation application.

- Easy integration, quick and error-free installation
- For optimised production steps from the OEM
- Best fit for the application, space-saving and noise-optimised

# Air distribution as required.

Modern people spend an average of 90% of their time inside four walls. It is therefore only to be expected that high demands are made on the quality of living. Comfort, health and energy efficiency are the focus here.

## Healthy air in the right place

Comfort ventilation for old and new buildings can be used in apartment buildings as a single-apartment or multi-apartment system. It is combined with heat recovery (HR) to reduce heat losses.

In an air distribution system, the dampers in the individual rooms/zones can be controlled as required (CO<sub>2</sub>, VOC, humidity, temperature or presence). The UM/UH is the ideal actuator for this application.

To temper rooms in commercial buildings (offices, hotels, schools, hospitals, etc.) as required, in addition to radiators, underfloor heating or chilled ceilings also active chilled sails/chilled beams can be used. The UM/UH actuator is also the perfect choice for these demanding applications, since it is compact, quiet and reliable.

## MAIN APPLICATIONS:

- Small air dampers
- Air distribution as required
- Apartment ventilation systems
- Classroom ventilation systems
- Air outlets, diffusors
- Cabin unit for ships
- Heating/chilled beams



# Small devices, big impact.



## Space-saving

Ventilation units, air distribution units and air outlets can be made smaller, increasing the unit's area of effective function.



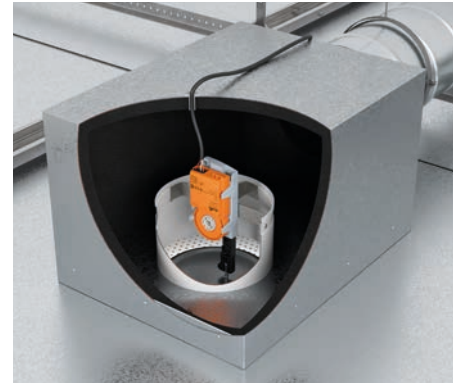
## Error-free assembly

In just a few simple steps, the actuator is fastened at the application in the right place and, thanks to the tested electrical connector plug, it is also quickly and securely connected. This saves a lot of trouble, time and costs.



## Best fit

No matter how the air damper is mechanically designed, even more applications can be covered more simply thanks to the 360° rotary movement and special "rotary longitudinal motion" with the linear unit.



(Available for shipment from Q3/2021)

	UM actuator	UH actuator
<b>Torque</b>	1 Nm	50 N
<b>Control</b>		
AC/DC 24 V	Open/close, 3-point, modulating (2...10 V)	Open/close, 3-point, modulating (2...10 V)
AC 230 V	Open/close, 3-point	Open/close, 3-point
<b>Pipe connection</b>	Molex Mini-Fit Jr. connector plug	Molex Mini-Fit Jr. connector plug
<b>Running time for 90°</b>	22 s, (10 s)	74 s, (30 s)/60 mm
<b>Degree of protection</b>	IP20	IP20
<b>Sound power level</b>	35 dB(A) @ 22 s/42 dB(A) @ 10 s	35 dB(A) @ 74 s/42 dB(A) @ 30 s
<b>Axis connection</b>		
Universal shaft clamp	6...12.7 mm	-
Form fit	8x8 mm, (6x6 mm, 10x10 mm)	-
<b>Height of stroke</b>	-	0...60 mm, adjustable in 1 mm steps
<b>Dimensions</b>	Shaft clamp: 107x56x28 mm Form fit: 107x56x25 mm	199x60x40 mm
<b>Weight</b>	Form-fit variant: 90 g Shaft clamp variant: 120 g	150 g



# All inclusive.

Belimo as a global market leader develops innovative solutions for the controlling of heating, ventilation and air-conditioning systems. Actuators, valves and sensors represent our core business.

Always focusing on customer added 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



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