

# 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.

Belimo delivers more than just products. We support our customers with innovative, efficient and energy-optimising solutions. Our devices are renowned for their Swiss quality and are backed by a five-year warranty. Additionally, our worldwide representatives – based in over 80 countries – guarantee short delivery times and continuous support across the entire product lifetime.

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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## ASIA PACIFIC SUCCESS STORY CEG SCHWARZWALD 11

# Belimo delivers a breath of fresh air to luxury Shanghai apartments.

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### A collaborative climate

Belimo is a global leader in the design, manufacture and supply of state-of-the-art HVAC technologies. The company's climate control solutions help to ensure consistent indoor air quality in environments which do not allow for natural ventilation, and are increasingly being installed in luxury residential applications. In a recent collaboration with Shanghai Bobo Architecture Technology Co. Ltd, our temperature, humidity and CO<sub>2</sub> sensors – in combination with control valves and advanced automation systems – were installed in a new luxury apartment complex to provide perfect tenant comfort. The CEG Schwarzwald development is named after the mountainous Black Forest region of Germany, and the architects were keen for us to bring a taste of that fresh mountain air to 58 luxury apartments in the CEG Schwarzwald 11 building.

<b>PROJECT</b> CEG Schwarzwald 11	<b>TYPE OF BUILDING</b> Residential building
<b>LOCATION</b> Shanghai, China	<b>SECTOR</b> HVAC
<b>PRODUCT</b> Belimo Sensors (room, temperature, humidity, air and water differential pressure), butterfly valves, damper actuators, zone valves, characterized control valves	



# Belimo brings the fresh air of the Black Forest to luxury apartments in Shanghai

## Seasonal stability

Shanghai’s subtropical monsoon climate can cause air quality to fluctuate drastically throughout the year, due to a combination of hot, humid summers and cold, dry winters. Compounded by Shanghai’s high pollution levels, this means that substandard indoor air quality cannot be mitigated simply by opening a window, and HVAC systems are necessary to ensure consistent air quality across all seasons. Knowing that you can only control what you can measure, we partnered with the building planners to install our state-of-the-art sensing technologies throughout the complex to precisely monitor the indoor climate. A total of 291 room sensors – recording temperature, humidity and carbon dioxide levels – were combined with intelligent control systems and automated actuators to provide optimal air quality. For example, in the event of CO<sub>2</sub> levels reaching 600 ppm, the flow through the air inlet and extraction vents is rapidly adjusted to increase circulation. Similarly, measurement of the temperature and relative humidity allow calculation of the local dewpoint, to help minimize the risk of condensation.



“Belimo products have met our stringent indoor air quality specifications for the CEG Schwarzwald project. Its HVAC solutions not only ensure indoor air quality for the residents, but also contributed towards the energy-saving and low-carbon requirements of the entire project.”

**Zhang Pengcheng, General Manager & Chief Engineer at Shanghai Bobo Architecture Technology Co. Ltd.**

## Reacting in real time

The energy efficiency of an HVAC system is closely related to its reaction time; the further that atmospheric conditions are allowed to drift from the optimum, the more energy is expended in the process of rectifying it. That’s why the sensors and control valves in the CEG Schwarzwald complex are connected with finely-tuned feedback loops, allowing efficient real-time optimization of the indoor air quality. By choosing our complete HVAC solutions, Shanghai Bobo Architecture Technology Co. Ltd is equipped with the tools needed to maximize tenant comfort. The company’s General Manager & Chief Engineer, Zhang Pengcheng, stated: “Belimo products have met our stringent indoor air quality specifications for the CEG Schwarzwald project. Its HVAC solutions not only ensure indoor air quality for the residents, but also contributed towards the energy-saving and low-carbon requirements of the entire project.”



### Belimo’s range of sensors

- Provide precise data on environmental conditions in each room
- Intelligent designs and high quality materials deliver long-term accurate readings
- Backed by a 5-year warranty and conforming to NEMA 4X/IP65 requirements
- Offer time-saving installation and commissioning features, like snap-on covers and NFC set-up



Room sensors with timeless design for indoor air quality measurements.



Belimo provides a complete range of innovative HVAC field devices for AHU applications.