



**SUCCESS STORY HUDDERSFIELD  
UNIVERSITY: DAPHNE STEELE BUILDING  
(UK)**

## Efficient control for healthier spaces

### A legacy dedicated to health

In 2025, the University of Huddersfield, United Kingdom, opened a new building on its National Health Innovation Campus (NHIC). The Daphne Steele Building, named after the first black matron appointed in the United Kingdom's National Health Service (NHS) in 1964, features state-of-the-art facilities for the University's courses in midwifery, nursing, occupational therapy, operating department practice, paramedic science, physiotherapy, podiatry, and speech and language therapy.

The building is BREEAM-certified and meets the Platinum WELL Building Standard. To ensure high indoor air quality and an optimal air supply with maximum energy efficiency, a wide range of Belimo devices were implemented.

System integration was carried out by Westminster Controls, and the mechanical and electrical (M&E) works were delivered by BAM Construction.

#### **TYPE OF BUILDING**

University/NHS

#### **PROJECT**

New building

#### **SECTOR**

Ventilation

#### **PRODUCTS**

Application specific actuators, control valves, sensors and meters. Specialist control and monitoring of VAV, fire, smoke, leak detection and energy monitoring.

**BELIMO**<sup>®</sup>

# Maximum quality and reliability on time

The time frame for installation was very short, making timely delivery especially challenging. In addition, the high level of system integration between various parties increased project complexity. Thanks to Belimo's short lead times, all products were delivered on time, contributing to the fast realisation of the project.

A total of three air-source heat pumps and four domestic hot water (DHW) cylinders were installed. These applications required highly reliable sensors to monitor cylinder immersion, flow, and return temperatures. In total, nine Belimo sensors ensured precise measurement of immersion, flow, and return temperatures as well as leak detection. Their ease of installation enabled the project to be completed within the planned schedule. For ease of maintenance, all sensors were installed with clear visibility.

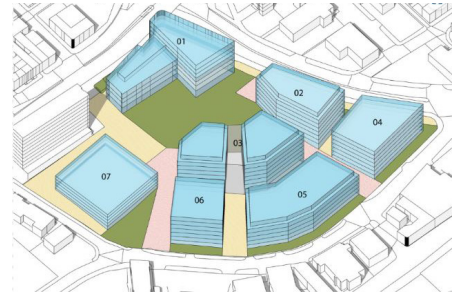
## Efficient fresh air supply

To provide an effective supply of fresh air, six air handling units (AHUs) were installed in the Daphne Steele Building. To ensure smooth and energy-efficient operation, the AHUs were equipped with a range of Belimo field devices:

- 14 damper actuators
- 30 air differential pressure sensors
- 12 air differential pressure switches
- 18 air temperature sensors
- Six air temperature and CO<sub>2</sub> sensors
- One outside air temperature and humidity sensor



Various field devices from Belimo ensure the smooth operation of the building's AHUs.



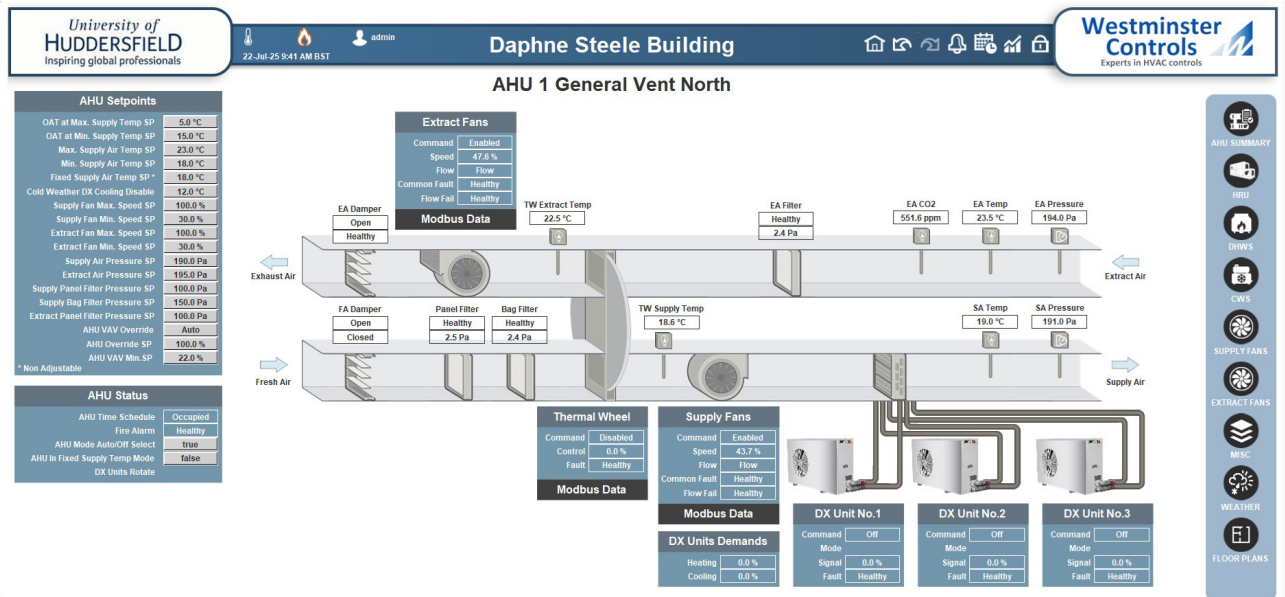
The Daphne Steele Building is the first of seven planned buildings to be built on the South Gate Campus over a seven-acre area. Building 2 is estimated to be handed over in the first quarter of 2026.



Smart devices like this damper actuator from Belimo ensure a transparent building operation.



Easy installation and maintenance combined with precise measurement



For energy-efficient operation and optimum room comfort, demand-based air distribution within zones was essential. 88 Belimo damper actuators were installed to motorise multiple variable air volume (VAV) systems from TROX. Thanks to Modbus compatibility, plant visibility was significantly increased.

To guarantee excellent indoor air quality, precise control of the AHUs and door heaters was critical. Measurement was the first step: a total of 94 Belimo room operating units were installed. Of these, 31 field devices measure the space temperature of the over-door heaters, while 63 units monitor room temperature and CO<sub>2</sub> levels.

### Connectivity is key

Commissioning and verification of readings were simplified thanks to the Belimo Assistant App. Throughout the process, Belimo supported the project team, from selecting the right field devices and ensuring speedy delivery to providing a 5-year warranty on all field devices.

Schematic graphic of the AHU operation in the Daphne Steele building including damper control, filter status, temperature and and CO<sub>2</sub> measurement, and DX controlling status.



The clear visibility of Belimo sensors simplifies maintenance.

# 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 guarantee



On site around the globe



Complete product range



Tested quality



Short delivery times



Comprehensive support

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