SUCCESS STORY GOFLOW (NL)

A breath of fresh air in the classroom: Healthy indoor air thanks to intelligent facade ventilation

From stifling heat to optimum indoor air quality

A healthy room climate increases concentration, well-being, and performance — especially in schools. The Montessori school in Capelle aan den IJssel, located near Rotterdam, was built in the 1970s. However, outdated HVAC systems repeatedly led to insufficient comfort: High room temperatures, stuffy air, and elevated CO_2 levels put a strain on both teachers and pupils alike.

As part of a comprehensive renovation, the operator opted for a modern, decentralised ventilation solution. Facade ventilation units from the Dutch OEM partner Goflow were installed, featuring advanced components from Belimo that provide precise control, quiet operation, and high energy efficiency.

BUILDING TYPE
School

PROJECT
OEMs

TRADES
Ventilation

PRODUCTS
UH actuators, valve actuators, sensors

BELIMO

Compact and reliable solutions developed together.

Conventional ventilation systems often require central roof installations and extensive air ducts, involving significant structural alterations. Goflow chose a different approach: compact facade ventilation units installed directly in the classroom. "We installed what's called facade ventilation. The radiators were removed, an opening for supply and extract air was created in the facade, and a compact ventilation unit was installed," states Managing Director Joost Verbakel.

The units integrate heat recovery, air filters, and CO_2-controlled ventilation, as well as a connection to the existing heating system. Thanks to high power reserves, they can be operated at low speeds, which is a crucial advantage in noise-sensitive learning environments: "Basically, it's a smaller version of what's normally on the roof. The advantage of facade installation is the significantly higher air exchange rate in combination with local temperature control. Our units have such a large power reserve that they can run at low speed. This significantly reduces the noise level," he explains.

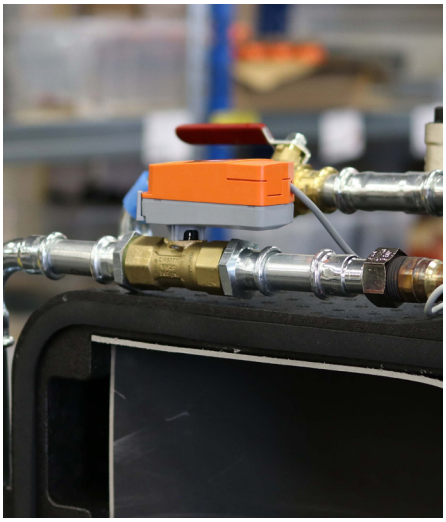
The compact dimensions of the facade installation placed high demands on the integration of the technology. In close cooperation, Goflow and Belimo developed a solution that is both space-saving and powerful. "Our products are very quiet and therefore ideal for learning environments. When we received the inquiry from Goflow, however, we briefly wondered whether everything would fit into such a compact housing. Together with Goflow, we successfully implemented this configuration," recalls Niek van der Vegt, Sales Manager Belimo Netherlands.

UH actuators from Belimo enable compact installations.

Minimally invasive and effective

Six classrooms were modernised simultaneously during the school holidays — the entire installation was completed in just two weeks. One working day was sufficient per room.

Belimo also supplied other key system components. The ball valves are characterised by their air-bubble tight shut off, compact design, and simple assembly of the compatible valve actuators. In addition, the Belimo sensors ensure seamless system integration. This results in a holistic, one-stop solution — with reduced complexity and maximum compatibility.



Belimo ball valves provide an air-bubble tight seal and are easy to install.

Transparent control and measurable results

All installed devices can be monitored and controlled centrally. Room parameters such as temperature and CO_2 concentration can be viewed in real time via a console. The success of the measure was already clearly evident in the first summer after the modernisation: CO_2 levels were almost consistently below 800 ppm — an excellent value according to Dutch guidelines for health-promoting school buildings.

In addition to the measurable key figures, teachers also report noticeably improved conditions. The room climate is perceived as pleasant and stable, a clear contrast to previous summer months.

A strong partnership for state-of-the-art HVAC solutions such as this facade ventilation system from Goflow, which can be installed directly in the classroom.

A sustainable solution that is future-proof

The combination of decentralised facade ventilation from Goflow and intelligent components from Belimo enables energy-efficient, flexible, and rapid modernisation of existing buildings. The added value is particularly evident in the education sector: better air quality, greater comfort, and optimum learning conditions — without costly renovations or lengthy downtimes.

This OEM partnership underlines how close cooperation can create innovative HVAC solutions that are both technically and economically compelling and make a sustainable contribution to healthy indoor environments.

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, and sensors and meters.

Always focusing on customer value, we deliver more than only products. We offer you the complete product range of actuator and sensor solutions 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 – 05.2026 – Subject to technical modifications

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