Success Story
HPW Fresh & Dry SARL, Côte d'Ivoire

A fresh perspective from West Africa's largest supplier of tropical dried fruits.

Worldclass solutions for sustainable manufacturing

At Belimo, we pride ourselves on delivering innovative and tested technologies that are suited to a range of HVAC applications across the world. Our partnership with HPW Fresh & Dry (HPW) in West Africa is a fantastic example of how our world-class solutions are being applied to improve the sustainability of manufacturing.

HPW is the largest producer of premium tropical dried fruits in West Africa and, with its Swiss counterpart HPW AG, supplies much of Europe with healthy, sustainably-produced food from the best raw materials. Belimo control valves, damper actuators and sensors have been installed both of HPW's production facilities for a variety of ventilation and water applications, including in fruit ripening and drying chambers, for optimised and intelligent building control.

TYPE OF BUILDING
Factory and manufacturing facility

PROJECT
Dried and fresh fruit production

SECTOR
Food production

PRODUCTS
Actuators, two- and three-way valves, sensors

BELIMO®

A system giving back to the community.

Founded in Ghana in 2010, and expanded to the Ivory Coast in 2019, HPW Fresh & Dry is the largest producer of premium naturally dried mango, pineapple and coconut in West Africa. HPW is also an important employer in the area with more than 1,500 employees, and its sophisticated sustainability business plan helps to give back to the region it operates in, while limiting its environmental impact.

The company continually provides technical support to its 1,400 smallholders, to maintain a close and trusting work relationship and ensure the highest quality fruit year round. With a commitment to zero waste and net CO_2 emissions, production is powered by solar energy (460 kWp) and the heat required for the fruit drying process is supplied by the burning of biomass – including mango seeds and coconut shells from production.

The ultimate control for HVAC systems.

The drying of fruits in tunnel dryers is an energy-intensive operation that requires precise control over temperature and humidity. All control devices from Belimo are designed to provide the optimal control, energy efficiency and safety for HVAC systems. For HPW Fresh & Dry, rotary fail-safe actuators are used to ensure seamless adjustment of motorised ventilation systems, while the various Belimo control valves are used in combination with easy-to-install sensors for reliable and consistent control over environmental parameters for the flow of both water and air. Together, these components add to HPW Fresh & Dry's overall goal of providing the optimal indoor climate control in the most energy-efficient way possible.

Retrofit Belimo actuator on a three-way valve to control the temperature difference between flow and return on a 1.5 MW biomass hot-water boiler

«Since investing in components from Belimo, we've had fewer shut down periods for repairs and maintenance, increasing our productivity.»

Maik Blaser, Manager,
HPW Fresh & Dry Côte d'Ivoire SARL

Increasing productivity across Africa.

HPW relies on Belimo components to provide reliable and robust heating solutions for over 10 years. The components are now used in virtually all heating systems, from the fruit drying and maturation chambers to the biomass boiler and waste heat recovery system for supplying renewable energy.

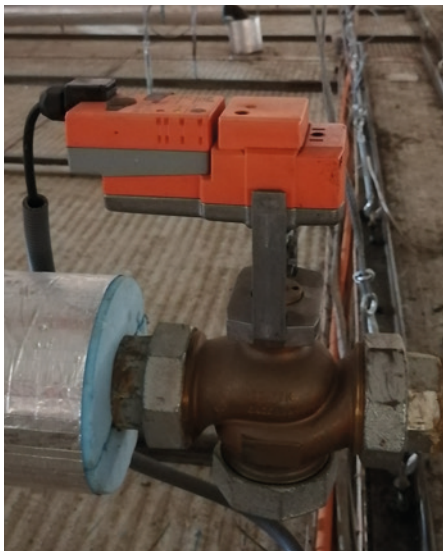
Maik Blaser, manager of HPW Fresh & Dry Côte d'Ivoire, explains: «We began working with Belimo in 2010 when we purchased actuators as retrofit tools to control the air outlet dampers that regulate our airflow. Since then we have expanded massively and process now more than 100 t of fresh fruit per day between our two factories in Ghana and the Ivory Coast, and continue to purchase Belimo components as we go. We later constructed our own dryers and made sure that they were equipped with three-way control valves, actuators and temperature and humidity sensors from Belimo.»

Belimo actuator on a biomass boiler to control flue gas recirculation

A reliable partner.

For a large producer such as HPW, it is imperative that operations run smoothly, as even the slightest downtime in manufacturing can have a huge impact on yield, efficiency and turnover. This is even more important when processing fresh fruit, as there is only a marginal timeframe before the produce is spoiled. In addition, it is important that HPW remain a trusted producer, as many employees and local smallholders rely on the company for their livelihoods.

Maik continued: «With production sites in Ghana and the Ivory Coast, it was extremely important for us to invest in solutions that were easy to install in both locations, reliable and guaranteed to have a long service life. Each device was straightforward to set up using the installation instructions and guides, and Belimo offers excellent online support. Since investing in components from Belimo, we have had fewer shutdown periods for repairs and maintenance, increasing our productivity and protecting our reputation as a supplier. We now use a combination of different valves, sensors and actuators, and will surely continue to invest in Belimo products in the future.»



Belimo valve and actuator to control hot-water flow to the heat exchanger of one of the fruit drying tunnels.

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 – 10.2021 – Subject to technical modifications

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