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Innovative HVAC system for sustained energy savings

Johann Osmers GmbH & Co. KG, Bremen/Germany

Johann Osmers is a company with a long tradition, specialized in the fields of sanitation, heating, and air conditioning. The company's new administrative and workshop building in Bremen has been equipped with leading-edge HVAC controls from Siemens, enabling the employees to gain experience and develop a better feeling for the advanced building systems they sell.

The history of Johann Osmers GmbH & Co. KG is a remarkable one. The company started 100 years ago making all kinds of sheet metal products, such as pots, pans, bowls, and roofing. Today, high-quality roofing made of metal is still one of the company's key products. In addition, Johann Osmers markets a broad range of products and systems for buildings ranging from sanitation, heating, ventilation, air conditioning, refrigeration, measurement and control to electrical engineering.

Osmers' new administrative building accommodates offices, a workshop, and a showroom with reliable building systems that use Synco™ control modules from Siemens. Thorsten Kunz, managing partner, explains: "We want to develop the best possible feeling for the innovative building systems we recommend to our customers. In our opinion, it is not only important to have an excellent reference plant, but we also want our customers to take advantage of the experience we have gained and want to be in a position to present leading-edge technology on site."

Answers for infrastructure.



Johann Osmers, Bremen

When the new company headquarters were planned and constructed, great importance was attached to energy efficiency and the capability of implementing complex control strategies.

Comprehensive solution

The heat source the customer wanted was a reversible brine water heat pump operating on ground water. The heat pump's capacity of only 50 kW is sufficient to heat 2,300 square meters of workshop and office space. This was made possible thanks to the excellent interplay and adaptation of heat output, building insulation, and Synco control strategy, which ensures sustained, efficient, and energy-saving plant operation.

Energy efficiency owing to communication capability

The Synco controllers communicate via the KNX bus system – a worldwide standard. This system makes certain that all processes are automatically matched and that energy-related information within

the plant is exchanged. The exchange of information and the energy saving functions integrated in the controllers make plant operation even more energy-efficient.

Advanced programmability

"On our projects, we have been using the freely configurable Synco controllers from Siemens for a considerable period of time, because the standard control modules are relatively easy to reprogram", says Ingo Neumann, qualified electrician for control technology at Osmers. This kind of flexibility enables the Synco system to easily combine extensive systems, such as plants of office and workshop buildings. "In our opinion, the license-free Synco control system is one of the most versatile on the market. It is also capable of mastering complex control strategies", added Ingo Neumann.

Synco – the right decision

Ingo Neumann summarizes: "Our experience with Synco is very positive."

Highlights

- Sustainability and energy efficiency thanks to solutions across boundaries of plant
- Significant energy savings due to KNX communication and integrated energy saving functions
- Flexible programming to meet the requirements of all applications
- Recommended by professionals