

27 November 2024

Warsaw

## Europe's largest heat pump installed at CTPark Warsaw West

CTP, Europe's largest listed owner, developer, and operator of logistics and industrial properties by gross lettable area (GLA), has partnered with Raben Group, one of the largest logistics companies in the world, to complete Europe's largest heat pump installation at CTPark Warsaw West. The second-largest installation of heat pumps in the world behind a Japanese installation, Raben's installation of 87 Mitsubishi Electric units with a total capacity of 12.4 MW will heat and cool two warehouses with a total area of 110,000 sqm on a daily basis.

Warsaw West is one of CTP's zero-emission industrial and logistics parks, with no fossil fuels used to heat the buildings and rooftop photovoltaic installations powering the Mitsubishi Electric heat pumps, in addition to the park's existing extensive sustainable features

In 2023 Raben Group signed an agreement with CTP to lease 110,000 sqm at CTPark Warsaw West in Wiskitki, comprising two of the five buildings being built, in Poland's largest logistics deal of the year. Raben Group is due to move into these buildings later this year, which will be used to carry out warehousing and forwarding operations supplemented with a whole range of added services, including packing or contract logistics.

At Raben Group's space at the park a number of modern solutions are being implemented to meet Raben's decarbonisation strategy. This includes climate control of warehouse space (humidity and temperature control and heating of warehouses) through heat pumps, which is the current standard for new Raben Group buildings. The use of heat pumps combined with highly efficient underfloor heating technology ensures efficient use of electricity, minimising carbon dioxide emissions into the environment. The estimated effect of these technologies used will be a reduction in carbon dioxide emissions by 700 - 750 MgCO<sub>2</sub>e/year compared to an equivalent warehouse space heated with gas.

*'We are proud that our EAHV-M1500YCL-N Mitsubishi Electric units were selected for such an ambitious project at CTPark Warsaw West. These high-tech heat pumps*

are perfectly suited to Raben Group's needs, offering flexibility in adjusting heating and cooling capacity and reliable operation even in extreme weather conditions. What sets this installation apart on the warehouse and logistics market is its scale and innovation, making it the largest in Europe and the second largest in the world. The CTPark Warsaw West complex, thanks to its zero-emission approach and integration with photovoltaic systems, has created ideal conditions for the implementation of the project, which not only meets the highest ecological standards, but also allows Raben Group to achieve significant operational efficiency and compliance with their ESG strategy,' said Piotr Geśła, Deputy Division Manager Mitsubishi Electric.

"Raben Group's long-standing co-operation with CTP across various European markets has resulted in the joint development of one of the most modern warehouse spaces in Poland (approximately 110,000 sqm). Ensuring the highest standards, safety of operations and minimising their impact on the environment is a challenge and a primary goal for us. We decided to apply a number of modern solutions, rarely found on the warehouse market on such a large scale, which are part of Raben Group's decarbonisation strategy. Among other things, we applied climate control of warehouse space (humidity and temperature control and heating of warehouses) realised by means of heat pumps - the current standard for new Raben Group buildings. The use of heat pumps combined with highly efficient underfloor heating technology ensures efficient use of electricity, minimising carbon dioxide emissions into the environment. We estimate that the effect of the technologies used will be a reduction in carbon dioxide emissions by 700 - 750 MgCO<sub>2</sub>e/year compared to a standard warehouse space heated with gas of an equivalent size," explains Tomasz Spychalski Group Facility Manager, Raben Real Estate.

"We have been working with Raben Group in different parts of Europe for more than a decade. Establishing long-term partnerships is one of the pillars of our business strategy. The contract with Raben Group for the space at Warsaw West was signed for a period of 10 years, allowing the tenant to invest in such an extensive heat pump installation, which will allow it to optimise its ongoing operating costs, as well as implement its ESG strategy. This project also confirms CTParks' ability to adapt to the precise expectations and needs of our customers. We are proud that CTPark Warsaw West will house the largest Mitsubishi Electric heat pump installation in the world outside Japan," says Piotr Flugel, Managing Director, CTP.

EAHV-M1500YCL-N Mitsubishi Electric units have been installed in the facilities. In response to Raben Group's precise expectations, they have been grouped into eight cascades for underfloor heating in each building, the installation of which includes -

a record on the Polish market - 150 kilometres of pipes, thus making it possible to separate zones of different temperatures in the warehouses. The four cascades also produce chilled water, which is used to cool down the storage space using heating and cooling apparatus. The entire system is grouped into modules of 2 to 24 units, using their assigned hydraulics.

Each of the heat pumps installed at CTPark Warsaw West has four cooling circuits and uses so-called inverter compressors. This type of solution guarantees a wide range of possibilities for adjusting the heating and cooling power to the tenant's current needs. The function of compressor rotation and unit redundancy, meanwhile, translates into a high level of reliability of the entire system regardless of the prevailing conditions. The units used were designed in such a way that the heating mode could be carried out even at external temperatures reaching  $-20^{\circ}\text{C}$ , which was an extremely important requirement for Raben Group.

Raben Group's business model is to lease BTS (Build-to-Suit) facilities. The company places a number of requirements on developers, related to the operational efficiency of the space, ensuring ergonomics and a high level of safety, as well as low energy consumption and the use of various solutions to reduce the environmental impact of the building.

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## ABOUT CTP

CTP is Europe's largest listed owner, developer and manager of logistics and industrial real estate in terms of gross leasable area, with 12.6 million sqm GLA in 10 countries (as of 30 September 2024). The company certifies all new buildings to BREEAM at a level of 'very good' or above and has achieved a negligible-risk ESG rating from Sustainalytics, reaffirming its commitment to sustainability. For more information, please visit: [www.ctp.eu](http://www.ctp.eu).

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