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Epta's XTE Installation Boosts Hypermarket Efficiency in Hungary



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Epta, an independent global player and leader specializing in commercial refrigeration, is celebrating the positive results achieved by the Auchan Korzó hypermarket in Maglód, Hungary in the months following the completion of the Extra Transcritical Efficiency (XTE) installation, performed in collaboration with Energy Recovery. This innovative refrigeration system is set to revolutionize the cold chain for the large-scale retail sector.

The store features a customized transcritical CO₂ system that consists of two modular ECO2Large units for large spaces, one of which is integrated with XTE. The system, featuring enhanced refrigeration capacity, offers a total of 285 kW of cooling.

"The data has been collected and analyzed over a significant range of operating conditions, and accounting for various seasonal outdoor temperatures. It has shown performance beyond expectations, with average measured savings of 15% with the XTE system in operation. The savings have been measured up to ambient temperatures of 42°C." states Stefano Trabucchi, Epta System Engineering Group manager, who continues "This achievement is the result of continuous research and development (R&D) efforts aimed at making this technology increasingly cutting-edge, beginning with the optimization and standardization of the refrigeration circuit."



Epta XTE installation at Auchan Korzó hypermarket in Maglód, Hungary

The Maglód installation represents one of the first applied studies of XTE. It was carried out as part of the European project Enough, of which Epta is one of the supporters participating to demonstrate new technologies. Funded by the European Union's Horizon 2020 program and coordinated by Sintef Ocean in Norway, the plan aims to decarbonize technologies for large-scale-distribution and make the cold chain climate-neutral and more efficient.