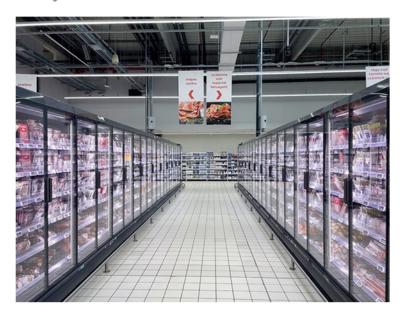




Significant performances improvement with Epta's XTE: an applied study in the Auchan Korzó hypermarket in Maglód

Independent global player and leader specialised in commercial refrigeration – celebrates the **positive results** achieved by the **Auchan Korzó hypermarket in Maglód**, Hungary, in the months following the completion of the **XTE (Extra Transcritical Efficiency) installation** in collaboration with **Energy Recovery Inc.**. The **innovative refrigeration system**, that is **patented** with IT granted application IT202200020811, is set to **revolutionise the Cold Chain** in the large-scale retail sector.



In detail, the store features a **customised transcritical CO₂ system**, consisting of two **modular ECO2Large units for large spaces**, one of which is integrated with XTE. The system, featuring **enhanced refrigeration capacity**, reaches a **total of 285 kW**.

"The data collected and analysed over a **significant range of operating conditions**, accounting for **various seasonal outdoor temperatures**, showed **performance beyond expectations**, with an **average measured savings of 15% with the XTE system in operation**, 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 efforts** aimed at making the technology increasingly cutting-edge, beginning with the **optimisation and standardisation** of the refrigeration circuit."

DEMO 19: THE AUCHAN IN MAGLÓD IS ENOUGH

The installation in Maglód represents one of the **first applied studies of XTE**, carried out as part of the **European project ENOUGH***, of which **Epta is one of the supporters participating to the demonstration of new technologies**. Funded by the European Union's **Horizon 2020** program and coordinated by **SINTEF Ocean** in Norway, the plan aims to **decarbonise technologies for Large-Scale Distribution** and make the cold chain **climate-neutral and more efficient** (grant n. 101036588 under H2020 program).

Specifically, the **Hungarian site demonstrates the feasibility** and **field performance of XTE**, with an **assessment** of the system in operation. The integration of the Energy Recovery's **PX G1300 pressure exchanger**, **suitable for use with CO₂**, proves to be effective, even at an operational level, for **recovering expansion work** and **reducing the energy consumption of the system.**

EPTA: A TURNKEY PROJECT WITH NUMBERS THAT COUNT

This **turnkey project** confirms Epta as a **Fully Integrated Provider**, capable of completing **every phase** related to the store's **restyling**: from **designing the best refrigeration system** and **configuring the layout of the counters**, to their **installation** and **commissioning**, as well as **providing after-sales services**.

An integrated approach that not only translates into superior quality and efficiency but also in numbers that count: 10,000 m² of sales area, 131 remote counters, connected via ducts and with the refrigeration units through 5 km of copper piping, and 24 temperature-controlled spaces for storing fresh and frozen foods, upgraded by Epta through retrofit interventions with 35 new evaporators.





EPTA IS EXCELLENCE IN EVERY DEPARTMENT

The **creative team at EptaConcept** was able to design a **harmonious** and **elegant layout** and create **synergies** between the **Eurocryor display cases** and the **Costan solutions**, thanks to the **complementarity of the Group's brands**, with the aim of **increasing attractiveness** and **profitability** in the various departments:

- <u>Pre-packaged fresh products:</u> with the positive vertical GranVista Next and the semi-vertical GranValdaj and GranSibari from the GranFit line under the Costan brand, ensuring perfect preservation of goods and excellent energy performance;
- <u>High-value fresh products:</u> such as cheeses, both fresh and aged and cakes, thanks to the Twin SV display case from the Ambienti family by Eurocryor, known for its dual temperature and complete transparency;
- <u>Frozen products</u>: with the <u>negative vertical GranBering units</u> from the <u>GranFit</u> series, in combination
 with the <u>Tortuga Ultra</u> cabinets under the <u>Costan</u> brand, for <u>excellent visual impact</u> and <u>immediate</u>
 access to the <u>products</u>.

Epta confirms its **technological leadership** also through a **comprehensive package of after-sales services** included in the **EptaService LifeCycle Program**, offering **advanced diagnostics**, **remote monitoring functions** and **predictive maintenance algorithms**, designed to support technicians in troubleshooting processes and **extend the lifespan** of the installed system.

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