

Epta to Install Transcritical CO₂ in Romanian Store in Latest Life C4R Pilot



DAAS, a division of Italian OEM [Epta](#) that provides turnkey retail projects in Romania, has agreed to a new installation of Epta's transcritical CO₂ technology at a refurbished store in Timisoara, at the Aushopping Sagului shopping center.

The installation is the sixth pilot project of the Life C4R (Carbon 4 Retail Refrigeration) project. Co-funded by the EU, Life C4R was created to accelerate the implementation of very-high-efficiency CO₂ refrigeration systems as a way of reducing GHG emissions and cutting energy. It officially ended in July.

The system to be installed is the Epta Eco2Large pack, a transcritical CO₂ system of medium and low power, with the efficiency-enhancing FTE 2.0 system on board, pre-tested and pre-installed.

"FTE 2.0 is ideal in all weather conditions, and thanks to the system of heat recovery, remote monitoring by Epta service 24/7, and the Costan chilled cabinets selected, it reduces the carbon footprint of the store," said Epta.

The system will provide a 10% reduction in energy consumption, and a saving of 78,239 kWh/year, compared to a corresponding system using R404a, said Epta. This is equal to 84,759 fewer washing machine cycles/year or 3,015 fewer small cars traveling 10,000 km (6,214 miles) per year for a decade.

The cabinets to be installed include the chilled units of the GranFit family; the vertical GranBering units for frozen products; semi-verticals with cascading shelves, both open (GranSibari) and closed (GrandValdaj) for beverages; and the vertical closed GranVista Next for fresh products. In addition, DAAS has proposed the closed version of GranVista Next for rear cabinets in the serve-over area for cured meats and cheese.

In July, Epta hosted a webinar in which other food retailers who participated in the Life C4R project [reported energy savings and other benefits](#) associated with installations of transcritical CO₂ (R744) equipment in warm ambient climates.

In the webinar, representatives of three European retailers – Conad Centro Nord, Consum and Mega Image – discussed the installations of Epta's transcritical CO₂ equipment, notably systems using the [FTE \(Full Transcritical Efficiency\) 2.0](#) and/or [ETE \(Extreme Temperature Efficiency\)](#) technologies.

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