

PROJECT PARTNERS



The Life-C4R project is a 3-year (2018-2021) international marketing project that, thanks to Epta FTE Full Transcritical Efficiency system, will substantially contribute to replacing HCFC and HFC greenhouse refrigerants with CO₂ in commercial refrigeration, in a very simple, efficient and reliable way in any country, with any external temperature, allowing 10% energy and 20% installation and maintenance savings.



**Carbon
4 Retail
Refrigeration**

Natural Technologies
for Sustainable Retail



Epta is a multinational Group specializing in **commercial refrigeration**. It operates worldwide through its brands **Costan, Bonnet Névé, Eurocryor, Misa, Iarp and Kysor Warren**, helping its customers reach excellent performances in Retail, Ho.Re.Ca and Food&Beverage sectors.

Epta Iberia is one of the companies of the Epta Group. Established in Spain in **1973**, its main activities are the **commercialization of goods** manufactured by Epta and the **engineering, installation and commissioning** of retail stores.



DAAS is an **engineering company** founded in **1993** with Romanian shareholders that now is part of the Epta Group. DAAS, as engineering procurement, construction, maintenance and project management company, provides **turnkey projects for commercial retail**, industrial and Ho.Re.Ca. sectors.

It is part of the European programme **LIFE17** that includes a **numerous array of projects to combat climate change**.

THE STRATEGIC ACTION PLAN INCLUDES



Industrial development of FTE based on tests and results in laboratory



3 pilot prototypes will be installed and tested at end users' premises in Italy



4 replication prototypes (Romania, Spain, elsewhere) to validate the performances under other climate conditions



A **full Life Cycle Analysis** will be performed according to the standards of LCCP to evaluate the project's carbon footprint and environmental performances



A **dissemination activity** to specific international organisations (stakeholders, academia, policy makers and general public)

www.carbon4retail.eu



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The heart of the project is the FTE system technology in its 2.0 version, that allows to fully replace old refrigerants with CO₂, a natural, non-toxic and non-flammable fluid, in a simple, efficient and reliable manner, in any climate situation anywhere in the world.

TECHNOLOGY

In the 2.0 version, the **FTE Full Transcritical Efficiency** is fully integrated in the power rack thus requiring no extra space in the technical room and further reduced installation and startup times.

ETE Extreme Temperature Efficiency is the new Epta technology that complements FTE to further enhance the efficiency of CO₂ in the warmest climate conditions, designed to operate also with one temperature stage systems and industrial refrigeration.

SIMPLE
GLOBAL
INDUSTRIAL
RELIABLE

4 Replication projects in Europe
(Romania, Spain, Elsewhere)

BENECASSIM

21.548 kWh/year saved, that is equal to



23.344



21.548



11.889

CARPENEDOLO

54.514 kWh/year saved, that is equal to



59.057



54.515



30.077

BOLOGNA

35.868 kWh/year saved, that is equal to



38.857



35.868



19.789

PERUGIA

57.215 kWh/year saved, that is equal to



61.983



57.215



31.567

3 pilot projects in Italy (already delivered)



Washing machine



Dishwasher



Phon

CYCLES SAVED IN ONE YEAR