



Press Release

Epta and Energy Recovery Win Refrigeration Innovation of the Year at RAC Cooling Industry Awards 2023

LONDON, UK – Sept. 22, 2023 – Epta Group (Epta) and **Energy Recovery** were together awarded *Refrigeration Innovation of the Year* for the XTE (Extra Transcritical Efficiency), Epta's next-generation commercial CO₂ refrigeration system. The award for *Refrigeration Innovation of the Year* recognizes systems, products, or processes that utilize new technology to provide definitive innovations to refrigeration.

"We are honored to accept this prestigious recognition from the RAC Cooling Industry Awards," said **Daniele Mazzola, Technical Marketing Manager**. "Our goal has always been to propose solutions that support our customers in their green transitions. We believe that our collaboration with Energy Recovery is a further step in bringing the best energy saving technology to the refrigeration market."

The innovative and patent pending XTE solution utilizes the energy savings and efficiency benefits of the PX G1300 and packages them into a complete next-generation refrigeration system. The application of Energy Recovery's trusted pressure exchanger (PX) technology, which revolutionized the desalination industry after its launch over 30 years ago, significantly improves the efficient operation of the transcritical CO₂ plant at any latitude.

That is possible as the whole system runs without synthetic or inflammable coolants and without using water, taking advantage of the CO₂ in the transcritical system as the cooling fluid. Specifically for this purpose, the PX G1300 has been suitably modified, inserted in the Epta ETE (Extreme Temperature Efficiency) system instead of the compressor and instructed to transfer the energy from the high pressure fluid stream to the low pressure one via rotating flow channels.

"When we first began developing the PX G1300, we had a strong belief that this product could provide the same game-changing efficiency gains in refrigeration that our PX technology delivers in desalination, and it is deeply gratifying to have that belief validated by the refrigeration industry and adopted by one of the leading players in the field," said **KC Chen, Energy Recovery Vice President of CO₂**.

Installations of the PX G1300 at several North American and European supermarkets have demonstrated efficiency improvements over 30% under certain conditions.

As a matter of fact the XTE mechanism, thanks to the PX G1300, not only reduces consumption peaks during warm months, enabling energy savings of more than 30% above +40°C compared with a traditional transcritical system, but also offers significant benefits in cold months, during which the XTE system starts running when temperatures are +10°C.



As European supermarkets battle rising energy costs and soaring summer temperatures, the XTE and PX G1300 for CO₂ refrigeration can reduce power consumption and safeguard the Retailers against high discharge failures and consequential damages from food losses.

Epta. Advanced solutions for your store.

EPTA – A multinational group specialised in commercial refrigeration which works globally thanks to its **Costan** (1946), **Bonnet Névé** (1930), **Eurocryor** (1991), **Misa** (1969), **Iarp** (1983), and **Kysor Warren** (1882) brands. Epta positions itself on the national and international market as partner able to produce and market complete refrigeration systems, thanks to the integration of specific product lines namely: traditional, positive vertical and semi-vertical, negative vertical and horizontal display refrigerators, Refrigerated display plug-in cabinets for the Retail and Food&Beverage sector, medium and high-power refrigeration packs and cold rooms. Based in Milan, it has a workforce of almost 6000 people and boasts national and international production facilities, a widespread technical and commercial presence worldwide, guaranteed by more than 40 technical-commercial monitoring centres.

About Energy Recovery

Energy Recovery (NASDAQ: ERII) is a trusted global leader in energy efficiency technology. Building on our pressure exchanger technology platform, we design and manufacture reliable, high-performance solutions that generate cost savings and increase energy efficiency across several industries. With a strong foundation in the desalination industry, Energy Recovery has delivered transformative solutions that optimize operations and deliver positive environmental impact to our customers worldwide for more than 30 years. Headquartered in the San Francisco Bay Area, Energy Recovery has manufacturing and research and development facilities across California and Texas with sales and on-site technical support available globally. For more information, please visit www.energyrecovery.com.

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