

Energy Recovery's PX G1300 Technology Unveiled as Key Component in Epta Group's Next-Generation CO₂ Refrigeration System

SAN LEANDRO, CA / ACCESSWIRE / February 27, 2023 /[Energy Recovery, Inc.®](#) (NASDAQ:ERII) today announced its PX G1300™ energy recovery device is a featured component in [Epta Group](#) (Epta)'s next-generation commercial CO₂ refrigeration system, the XTE (Extra Transcritical Efficiency). Epta, independent global player and leader specialized in commercial refrigeration, unveiled the XTE on the [first day of EuroShop 2023](#), the world's number one retail trade fair located in Düsseldorf, Germany.

Energy Recovery is also a special guest of Epta, presenting each day of EuroShop in the [Epta Talking Arena](#) where the focus will be on the latest trends and innovations in refrigeration.

"We are excited to work alongside an established player in the European market, who brings extensive experience in the CO₂ refrigeration industry to the table," said KC Chen, Energy Recovery's Vice President of CO₂. "CO₂ refrigeration is a sustainable alternative to climate-damaging hydrofluorocarbons, but it comes with a catch, especially when it's hot outside - it uses a lot of energy. The PX G1300 offers a reliable way to solve that challenge."

The PX G1300 delivers a range of benefits when applied to CO₂ refrigeration racks:

- **Reduced carbon footprint.** PX G1300-enabled CO₂ systems improve the coefficient of performance (COP) and lower energy consumption, thereby reducing carbon emissions.
- **Future safe for rising temperatures.** The PX G1300 protects against high thermal failures.¹
- **Operating expense savings.** PX G1300-enabled systems will lower energy costs and improve the bottom line.²
- **Capital expense neutrality.** The capital costs of PX G1300-enabled CO₂ systems are equal or better than current COP upgrade technology.³

The first European supermarket to incorporate a PX G1300 energy recovery device into its CO₂ refrigeration system saw efficiency improvements of 25%-30% at temperatures of 35-40°C (95-104°F), compared to a standard CO₂ booster system.

The PX G1300 is an application of Energy Recovery's trusted [pressure exchanger](#) (PX) technology, which recycles pressure energy within commercial and industrial systems, capturing it and redistributing it throughout the system to save energy, lower costs, and

reduce waste and emissions. The PX has been the dominant energy recovery technology in seawater desalination for the last 25 years. The PX G1300 takes this innovative technology a step further, applying it to the multi-phase fluid environment found in CO₂ refrigeration systems.

CO₂ refrigeration systems are a more sustainable alternative to traditional refrigeration systems that emit HFCs, which are potent greenhouse gasses that can be between 675 and 3,922 times more harmful to the climate than carbon dioxide. In the European Union (EU), a quota system for HFCs was introduced in 2015 with the aim to reduce the use of HFCs by 79% by 2030. Commercial and industrial refrigeration users in the EU and beyond are looking to transition away from traditional refrigeration systems to meet both their climate goals and the demands of recent regulation.

¹ Based on Energy Recovery laboratory and modeling results.

² Based on the anticipated offering price of the PX G1300 Integrated System Design 1 (which is available on our website) compared to a standard CO₂ refrigeration system with no energy savings measures.

³ Based on Energy Recovery estimates. Actual results may vary based on multiple factors including system architecture, cost of electricity, ambient temperature, square footage and size of the store, variable loading of the refrigeration system, time of day, and geographic location.

About Energy Recovery

Energy Recovery (NASDAQ:ERII) creates technologies that solve complex challenges for commercial and industrial fluid-flow markets worldwide. Building on our pressure exchanger technology platform, we design and manufacture solutions that make commercial and industrial processes more efficient and sustainable. What began as a game-changing invention for desalination has grown into a global business accelerating the environmental sustainability of customers' operations in multiple industries. 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.

Forward Looking Statements

Certain matters discussed in this press release are "forward-looking statements" within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. These forward-looking statements are based on information currently available to us and on management's beliefs, assumptions, estimates, or projections and are not guarantees of future events or results. Potential risks and uncertainties and any other factors that may have been discussed herein regarding the risks and uncertainties of the Company's business, and the risks discussed under "Risk Factors" in the Company's Form 10-K filed with the U.S. Securities and Exchange Commission ("SEC") for the year ended December 31, 2022 as well as other reports filed by the Company with the SEC from time to time. Because such forward-looking statements involve risks and uncertainties, the Company's actual results may differ materially from the predictions in these forward-looking statements. All forward-looking statements are made as

of today, and the Company assumes no obligation to update such statements.

Press Inquiries

pr@energyrecovery.com

+1 (713) 353-5406

Investor Inquiries

ir@energyrecovery.com

+1 (281) 962-8105

SOURCE: Energy Recovery

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