

PX G1300[™]

A game-changing device that lowers the cost to own and operate CO₂ systems

IMPROVE ENERGY EFFICIENCY AND REDUCE COSTS

With a PX G1300-enabled system, you'll benefit from a lower energy bill and improved bottom line compared to alternative CO₂ systems². The PX G1300's simple design and precision manufacturing ensures high durability with virtually maintenance-free technology. Our leading PX[®] Pressure Exchanger[®] is a globally trusted technology with a long history providing efficiency, installed capital cost reduction, and operational reliability for our customers in desalination. The PX G1300 is a game-changing application of the pressure exchanger that provides those same energy-saving solutions for high-pressure CO₂ systems.

CURRENT AND FUTURE APPLICATIONS

- Commercial and industrial refrigeration
- Cold storage
- Data centers
- Heat pumps
- Power generation

LOWER YOUR CARBON FOOTPRINT WITH A PX G1300-ENABLED CO₂ SYSTEM

While natural refrigerants offer a climate-friendly solution to many industries such as refrigeration, cold storage, and heating, the accompanying electricity costs can make CO₂ systems cost-prohibitive. By reducing these costs, the PX G1300 makes it easy to meet stringent regulations and make the sustainable choice. As the world increasingly moves toward sustainable systems, we aim to make it easier for our customers to reduce their emissions and future-proof their operations.

¹Based on Energy Recovery's PX product history and performance in water desalination

²Based 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.

PX G1300

BENEFITS

- Reduces operating expenses by lowering energy consumption and emissions
- Easy to operate and maintain
- Simple, flexible design
- Proven, reliable technology¹

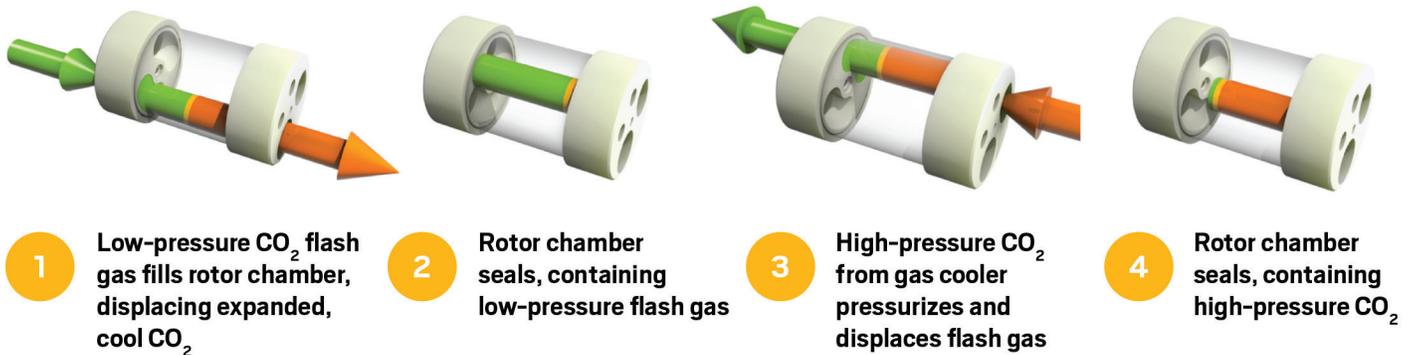


If you are ready to optimize your CO₂ system, please email us at CO2@energyrecovery.com or visit energyrecovery.com/CO2

HOW DOES THE PX G1300 WORK IN A CO₂ SYSTEM?

A typical Energy Recovery PX acts like a fluid piston, efficiently transferring energy between high-pressure and low-pressure liquid and/or gas through continuously rotating ducts. The PX has only one moving part, the rotor, which boosts reliability — the more moving parts in a mechanical system, the greater chance something could break.

The PX G1300 handles both gas and liquid, which makes it ideal for CO₂ systems in order to lower energy consumption. The PX G1300 operates alongside the high-pressure valve of the CO₂ system. Instead of simply throttling the pressure energy at a high-pressure valve, the PX G1300 harvests the energy to reduce compressor work and reduce power requirements. Diminished compressor work saves energy and reduces compressor duty cycles, leading to lower maintenance needs for the compressors and savings for the system operator.



PROVEN AND TRUSTED TECHNOLOGY

Energy Recovery's pressure exchanger (PX) technology is a globally trusted technology, providing significant savings and operational reliability for its users. PX technology recycles otherwise wasted pressure energy within industrial systems, saving energy, reducing waste and minimizing emissions. It can also handle a range of pressures, including pressure above and beyond what is needed for CO₂ systems.



Energy Efficient

Minimizes utility costs by increasing energy efficiency



Cost Efficient

Lowers operating expenses combined with potentially lowered capital expenses means a quick return on your investment



Reliable

Durable, simple design with little scheduled maintenance

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