

CO₂ REFRIGERATION

PX G1300®

Energy Efficiency, Simplified

The PX G1300 pressure exchanger can **increase energy efficiency, high-temperature rack stability, and cooling capacity** for CO₂ refrigeration systems.

Delivering compression and expansion within a single device, the PX G1300 can operate in temperatures as low as 50°F/10°C and improves efficiency as temperatures rise. It offers a **game-changing, simple solution** for optimizing CO₂ system performance.

PX G1300 Benefits

- **Support HFC phasedown goals** by offering a cost-effective path to CO₂ refrigeration
- **Lift COP** in subcritical and transcritical modes with maximum efficiency in hot temperatures
- **Enhance reliability** with increased high-temperature rack stability and cooling capacity
- **Reduce risk** of high-pressure discharge failure
- Reduce or **eliminate water usage**
- Engineered with **highly-reliable** alumina ceramic

Easy Integration

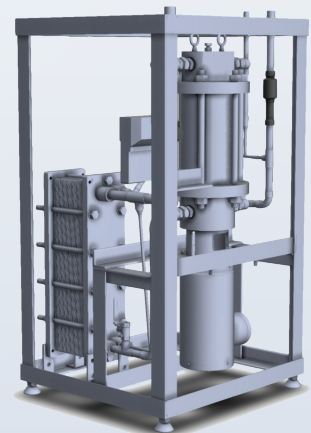
- Add to new or existing systems
- Integrate with as few as two tie-in points
- Compatible with commercially available controllers*
- Pre-designed module available now

*As of October 2023

For more information, contact us at CO2@energyrecovery.com.



MODULE DESIGN AVAILABLE



2 ft x 2 ft x 4 ft

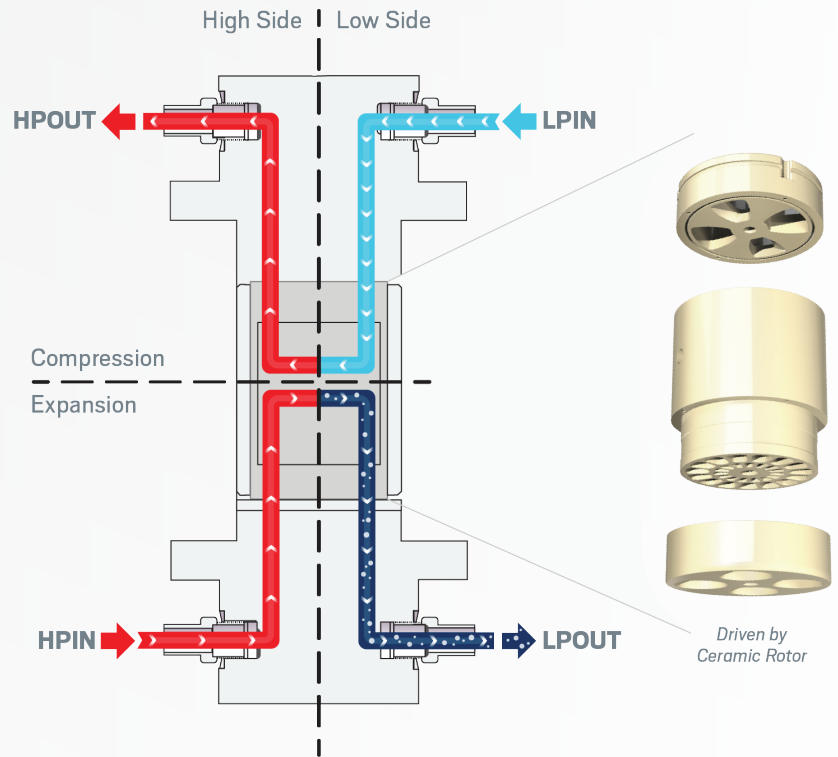


Powered by Pressure

The PX G1300 recovers and recycles CO₂ system pressure energy to drive both compression and expansion.

It works by expanding the refrigerant, like a valve, but recovers expansion energy and provides compression. Like a heat exchanger which exchanges heat between two fluid streams, the PX G1300 transfers energy from high-pressure to low-pressure CO₂.

This primarily mechanical process allows the PX G1300 to operate with minimal electricity footprint.



PRODUCT SPECIFICATIONS

Unit Dimensions	Maximum Inlet Pressure		Semi-Hermetic Motor
	HP	LP	
48 X 26 X 17 INCHES 122 X 66 X 43 CM	1500 PSI 103.4 BAR	700 PSI 48.3 BAR	US: 480V / 60 HZ CAN: 575V / 60 HZ
UL / CA / CE / CRN / PED / TSSA			



Trusted for 30 Years

Originally invented for the desalination industry over 30 years ago, our leading PX® Pressure Exchanger® is a globally trusted technology with a long history of providing efficiency, installed capital cost (CAPEX) reduction, and operational reliability. The PX G1300 is a revolutionary application of the pressure exchanger that provides those same energy-saving solutions for high-pressure CO₂ systems in commercial and industrial refrigeration.

For more information, contact us at CO2@energyrecovery.com.



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