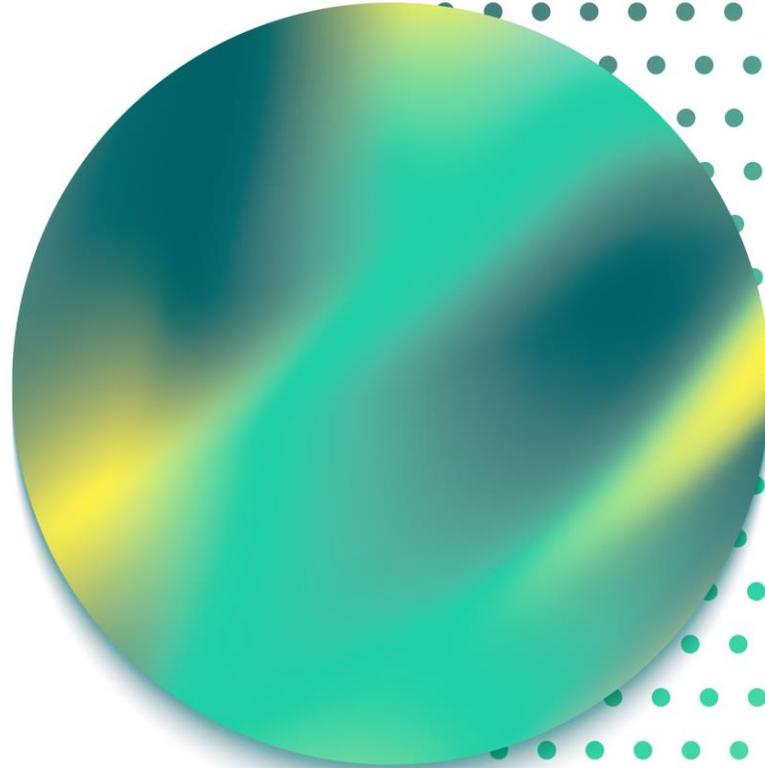




ATMO 30-31
March 2022
World Summit



#atmo_worldsummit



energy recovery®



Enabling Green Refrigeration: The Energy Recovery PX G1300 Future-Proof Your Refrigeration Operations at Lower Cost

Joseph Marchetti | Satyaki Das

NASDAQ: ERII

Forward looking statement

This presentation contains forward looking statements within the “Safe Harbor” provisions of the Private Securities Litigation Reform Act of 1995. Forward looking statements in this report include, but are not limited to, statements about our expectations, objectives, anticipations, plans, hopes, beliefs, intentions, or strategies regarding the future. Forward looking statements that represent our current expectations about future events are based on assumptions and involve risks and uncertainties. If the risks or uncertainties occur or the assumptions prove incorrect, then our results may differ materially from those set forth or implied by the forward-looking statements. Our forward-looking statements are not guarantees of future performance or events. Words such as “expects,” “anticipates,” “believes,” “estimates,” variations of such words, and similar expressions are also intended to identify such forward looking statements.

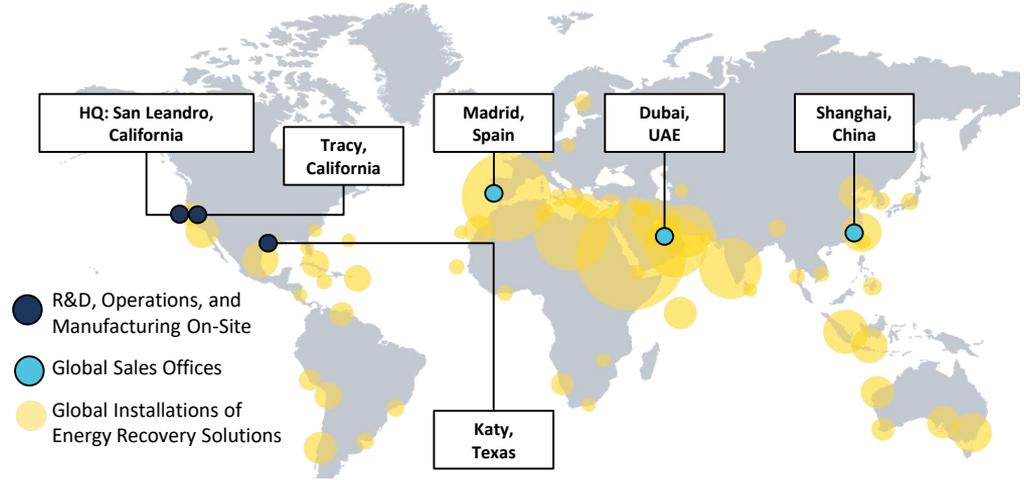
These forward-looking statements are subject to risks, uncertainties, and assumptions that are difficult to predict; therefore, actual results may differ materially and adversely from those expressed in any forward looking statements. You should not place undue reliance on these forward-looking statements, which reflect management’s opinions only as of the date of this presentation. All forward-looking statements included in this presentation are subject to certain risks and uncertainties, which could cause actual results to differ materially from those projected in the forward-looking statements, as disclosed from time to time in our reports on Forms 10-K, 10-Q, and 8-K as well as in our Annual Reports to Stockholders and, if necessary, updated in our quarterly reports on Form 10 Q or in other filings. We assume no obligation to update any such forward looking statements. It is important to note that our actual results could differ materially from the results set forth or implied by our forward-looking statements.

1. About Energy Recovery
2. History of the PX[®] Pressure Exchanger[®]
3. PX G1300[™] for CO2 Refrigeration
4. Indio, CA Supermarket Project
5. What's Next

Financial Snapshot
NASDAQ: ERII

2021 Revenue \$103M

Market Cap ~\$1B
as of 03/28/2022



26TWh

*Saved in Electricity Consumption**

12.5M

*Metric Tons of Carbon Emissions Avoided**

\$2.6B

*Saved by Customers in Energy Expenses**

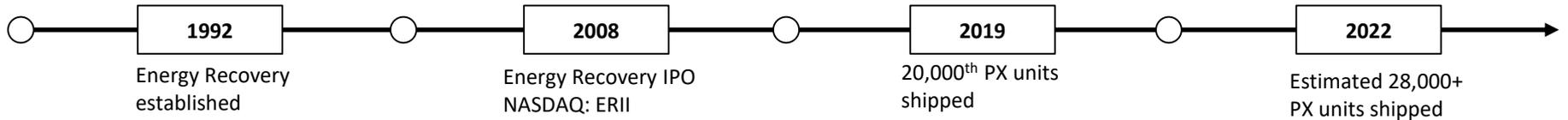
98%

of Energy Recovery Product Revenue from Energy Efficiency-Related Sources

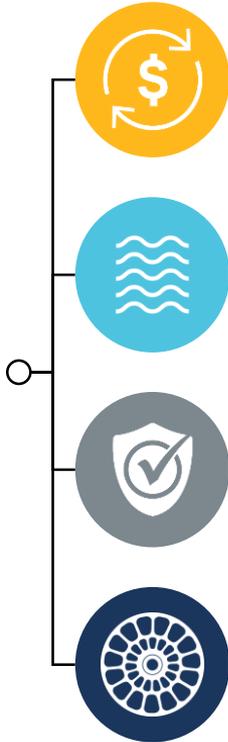
*Energy Recovery estimates

ENERGY RECOVERY SNAPSHOT:

Energy Recovery designs and manufactures solutions that reduce waste, improve operational efficiency, and drive cost-savings for our customers.



WHY ENERGY RECOVERY?



Our solutions increase efficiency and lower lifecycle cost by reducing waste and energy consumption in industrial fluid-flow systems.

Our flagship PX[®] Pressure Exchanger[®] (PX) energy recovery device revolutionized seawater reverse osmosis desalination (SWRO), reducing energy costs by up to 60%. * The PX is now the industry standard for energy recovery.

Through our vertically integrated manufacturing, we ensure the quality, durability, and reliability of our products.

We continue to push the boundaries of our core technology, the pressure exchanger, to handle different operating environments and industrial applications.

**Energy Recovery estimate*

OTHER INDUSTRIES SERVED – PRODUCT OFFERINGS ACROSS MULTIPLE SECTORS

Industry	Markets	Customer Type	Key Benefits Provided
	Seawater Desalination Brackish Water Desalination	<ul style="list-style-type: none">○ International EPC Firms○ Desalination OEMs○ Plant Owners and/or Operators	
	Industrial Wastewater Treatment	<ul style="list-style-type: none">○ International EPC Firms○ Industrial Plant Owners and/or Operators	<ul style="list-style-type: none">✓ Less Energy Consumption✓ Lower Emissions✓ Reduced Costs
	Sour Gas Processing	<ul style="list-style-type: none">○ EPC Firms○ Plant Owners and/or Operators	
	CO₂ Refrigeration	<ul style="list-style-type: none">○ Commercial End Users○ Industrial End Users○ System/Rack OEMs	

ESG AT ENERGY RECOVERY: ACCELERATING INDUSTRIAL SUSTAINABILITY

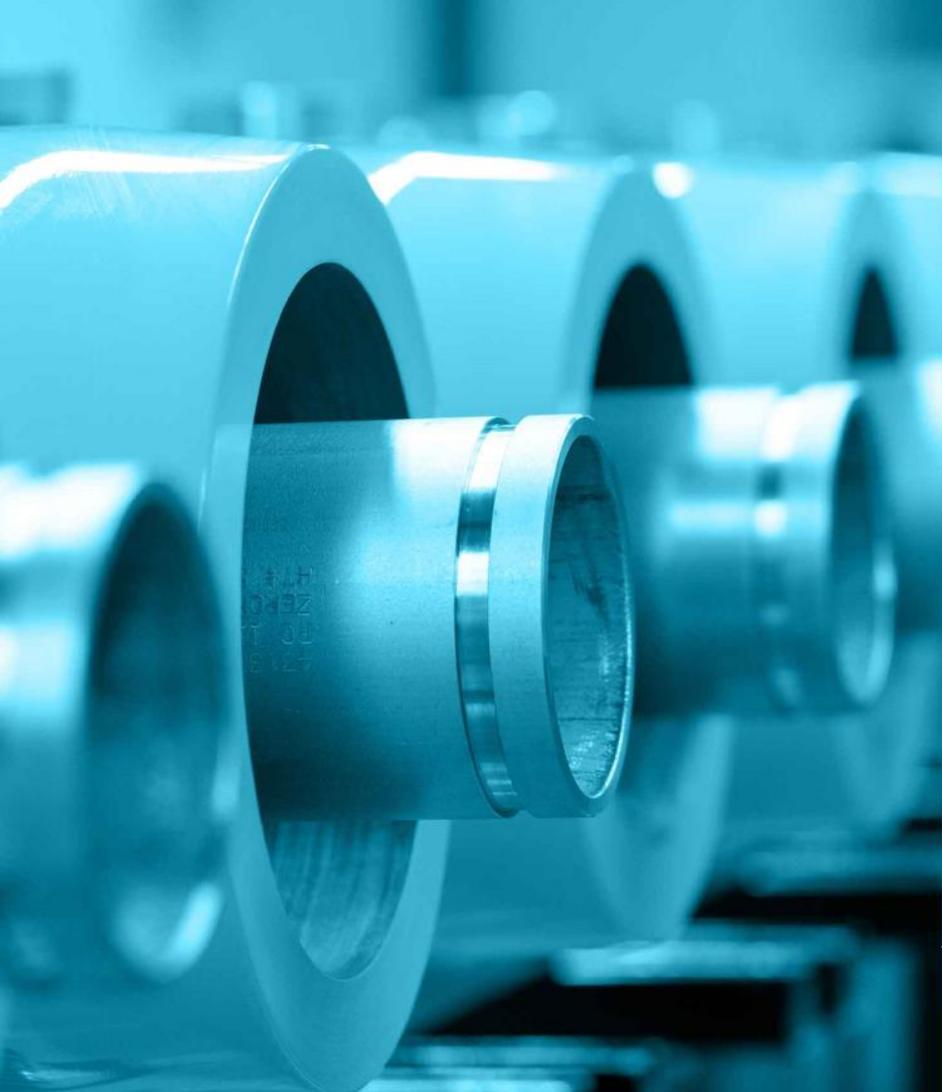
- Energy Recovery's ambitious Environmental, Social, and Governance goals include:
 - Double emissions reductions from Energy Recovery products by the end of 2025 based on a 2019 baseline
 - Report climate-related risk strategy and management aligned with the Task Force on Climate-related Financial Disclosures' recommendations by the end of 2024

Awards & Recognition



To download the full report,
please visit [bit.ly/ERII ESG 2020](https://bit.ly/ERII_ESG_2020)

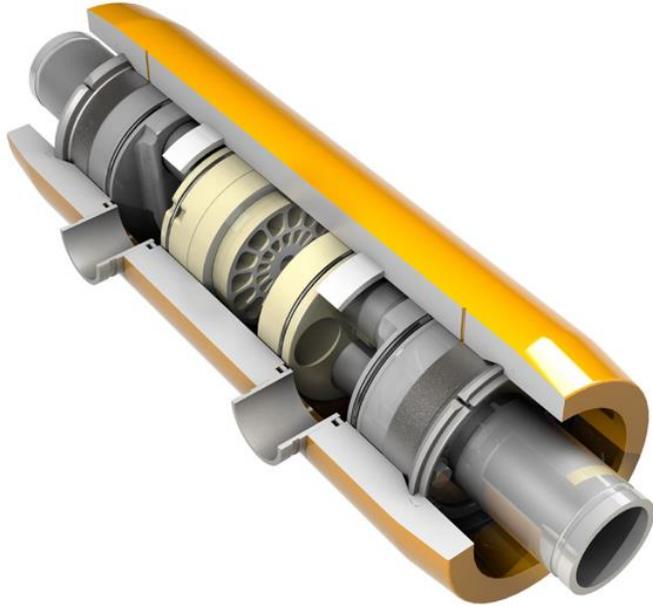
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The Pressure Exchanger (PX)



THE PX ENERGY RECOVERY RUGGED AND COMPACT DESIGN



Rotor

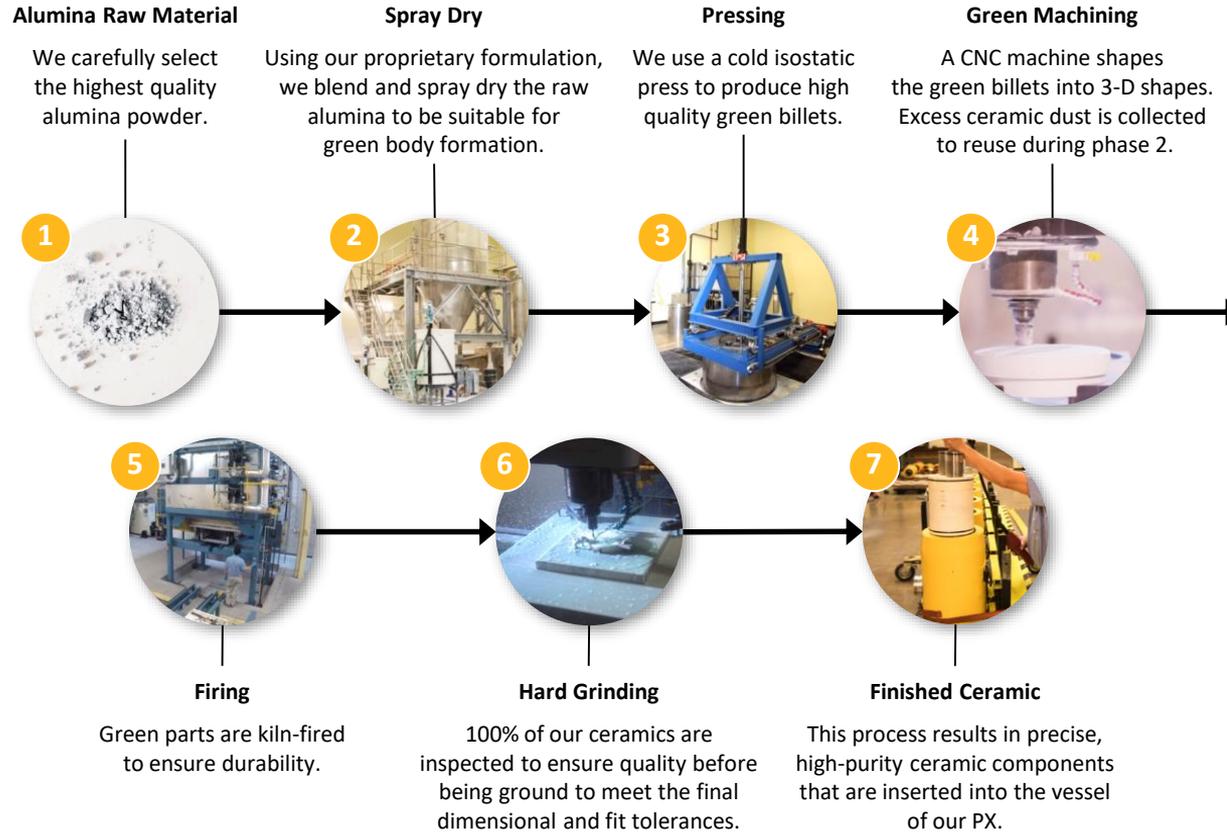
- Only moving part
- Hydrodynamic bearing
- No material to material contact

State-of-the Art Materials

- Trade-secret ceramic formulation
- Extremely durable material (3X steel hardness)
- Never corrodes
- No fatigue

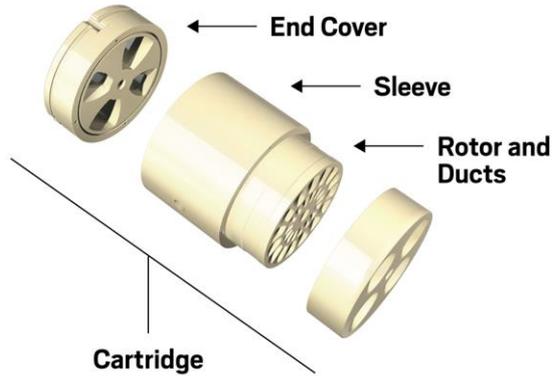
Lightweight/Small footprint

PX MANUFACTURING: CERAMIC PROCESS



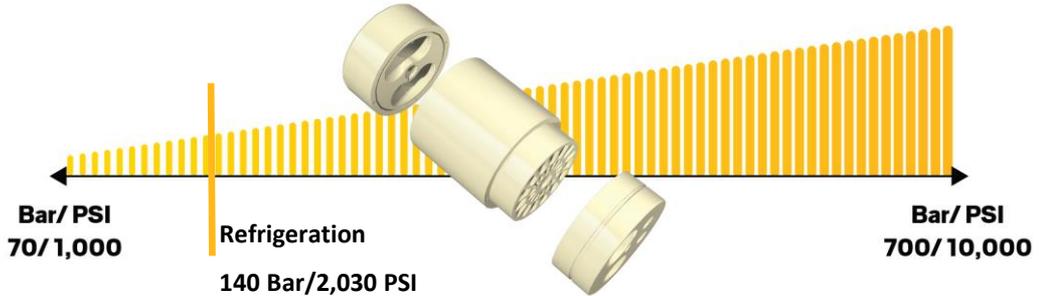
Anatomy of a Pressure Exchanger

Transfers energy from high-pressure to low-pressure fluids (both liquids and gas) through continuously rotating ducts with only one moving part (the rotor)

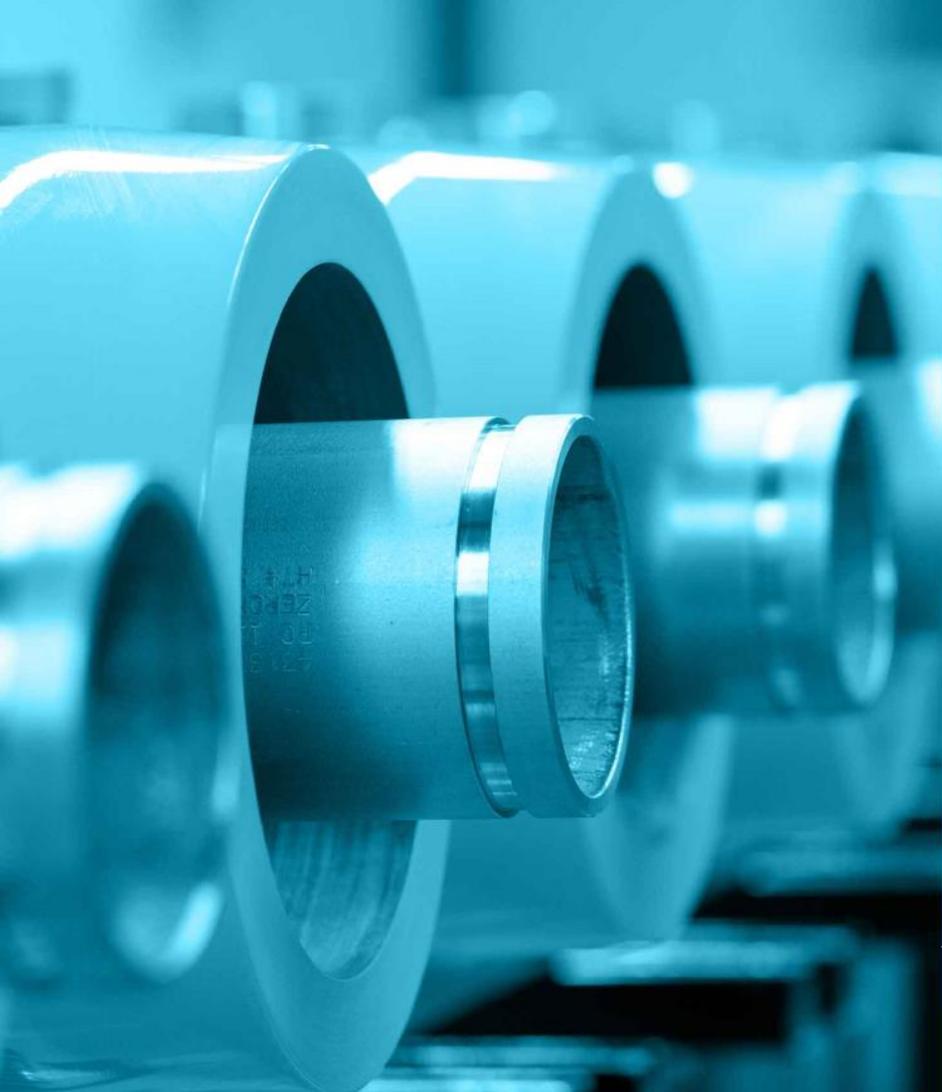


- The pressure exchanger technology is versatile – can handle liquid, gas, slurry, & supercritical fluid and range of pressures
- Benefits include lower lifecycle cost and energy use in industrial fluid-flow systems
- Pressure exchanger technology is at the heart of many of Energy Recovery's products

Pressure Exchanger Technology Operating Range



Pressure Exchanger can handle liquid, gas, liquid with suspended solids and supercritical fluids



Refrigeration: The PX G1300





**Energy savings leads to lower
total cost of ownership**



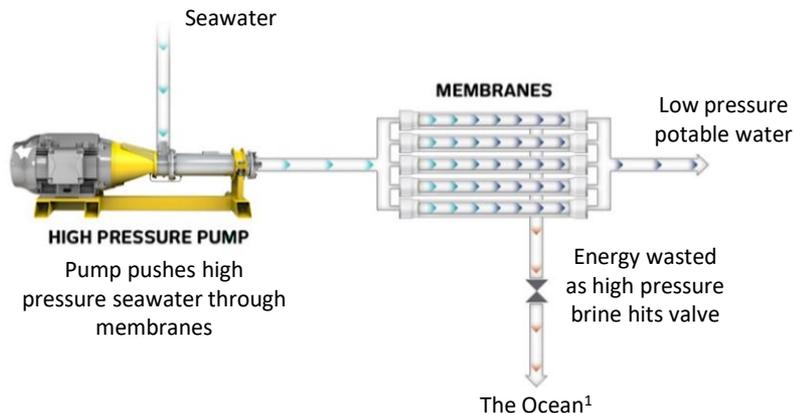
**Designed for easy operation
and maintenance**



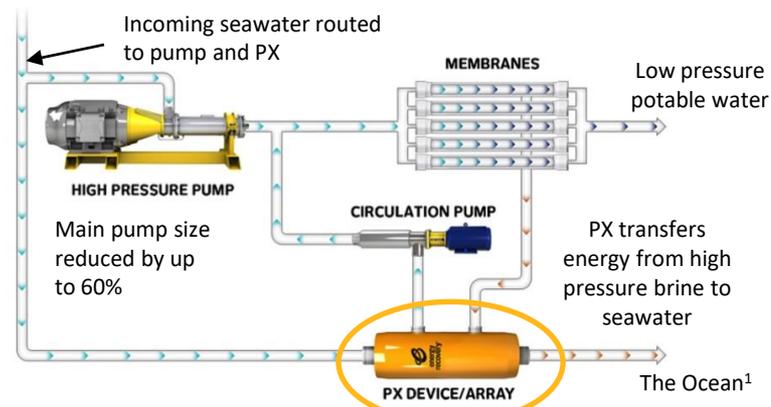
**Enhanced system efficiency
and reduced compressor
loading**

PRESSURE EXCHANGER RECYCLES HYDRAULIC ENERGY, REDUCES ENERGY COSTS

Without Energy Recovery Devices (ERDs)
= Approx. 60% of Energy Wasted

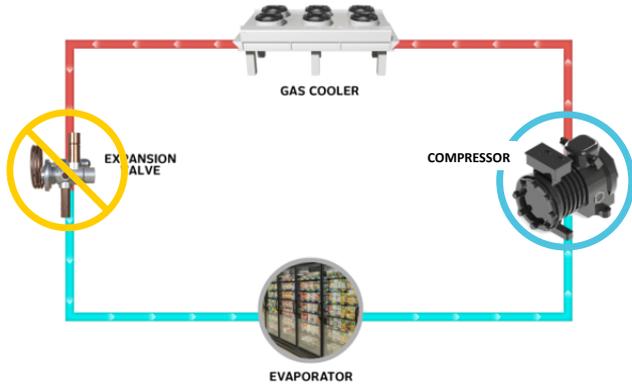


With PX Pressure Exchanger
= Energy recycled, up to 60% decrease in energy use



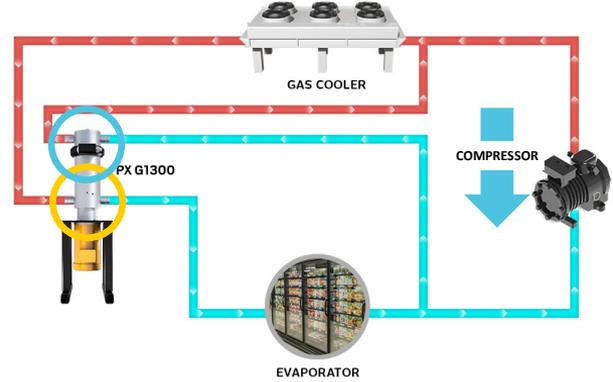
¹Ocean or other geological mass

Without Energy Recovery Devices (ERDs)*



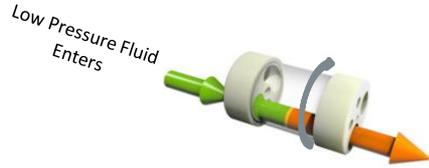
Existing simplified refrigeration system

With PX G1300*

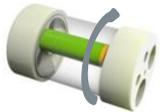


Pressure energy harnessed to reduce compressor work

PX G1300™ WORKING PRINCIPLE



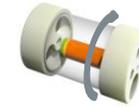
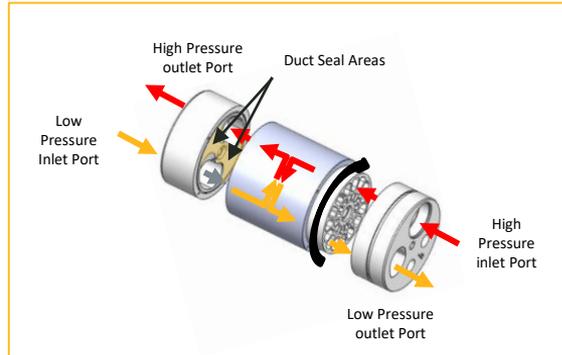
Cycle 1* (Part 1) - Low pressure fluid enters rotor ducts that are open to a low pressure port



Cycle 2 - Low pressure fluid in the ducts are sealed within the sealed area



Cycle 3* - Low pressure fluid in the ducts are exposed to high pressure fluid when ducts rotate and open to high pressure port

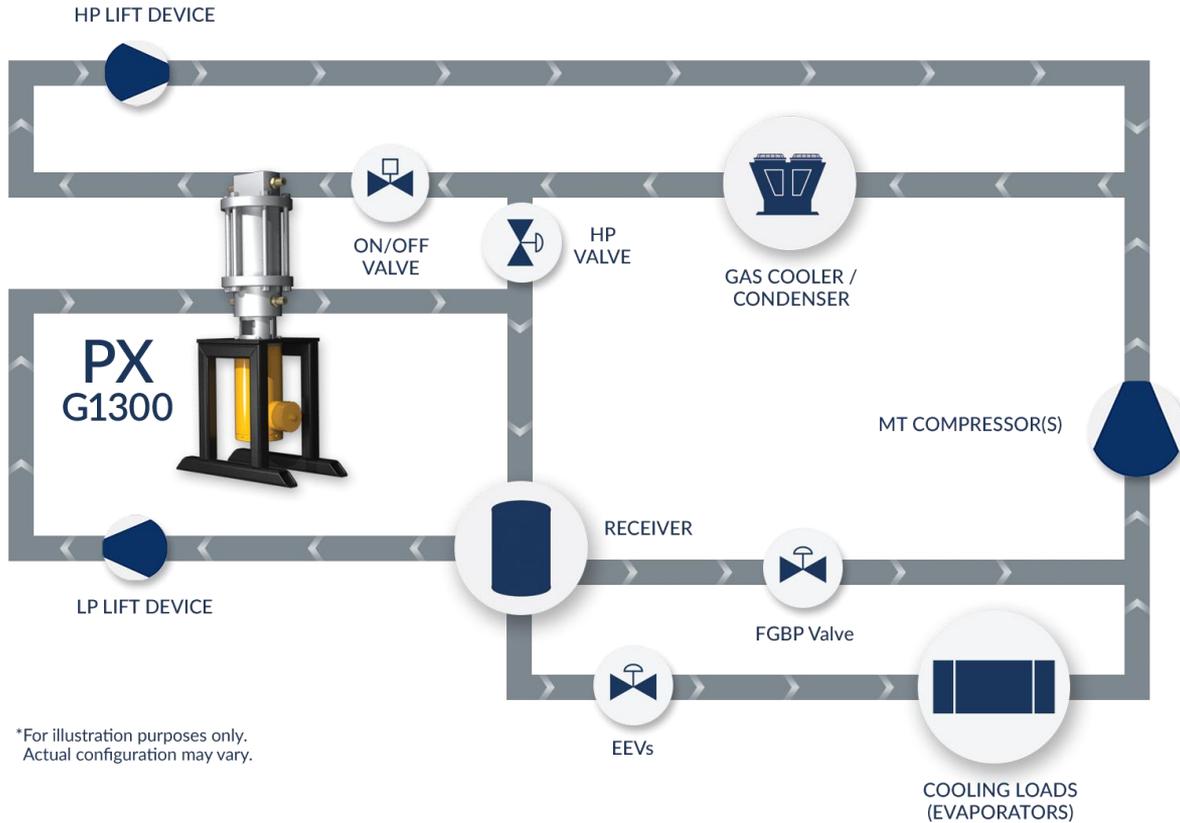


Cycle 4 - Remnant High pressure fluid in the duct is sealed



Cycle 1* (Part 2) - Remnant high pressure fluid loses pressure as it opens to low pressure outlet port, as low pressure fluid enters from low pressure port.

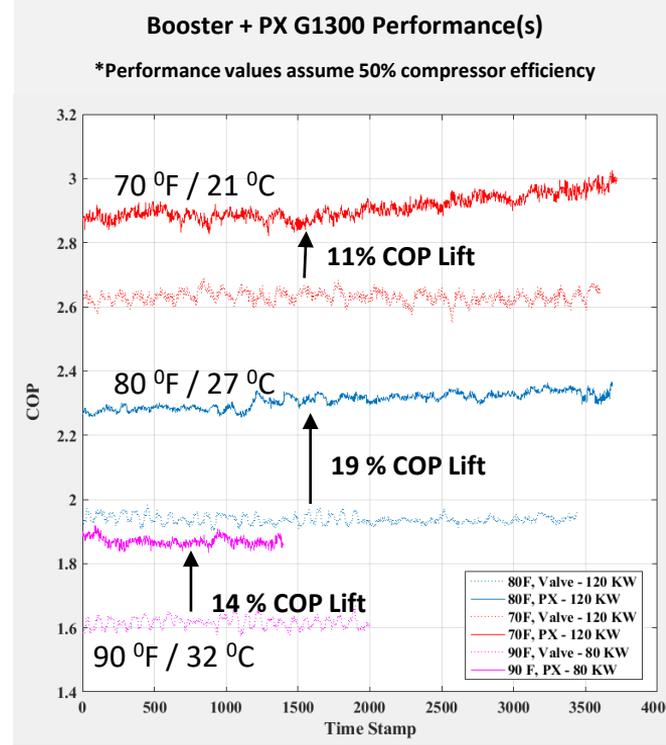
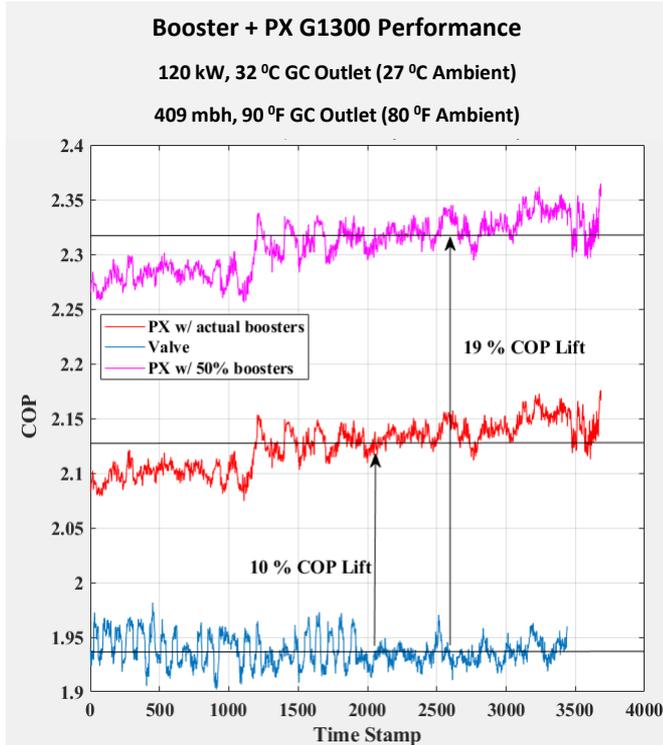
SYSTEM INTEGRATION



*For illustration purposes only.
Actual configuration may vary.

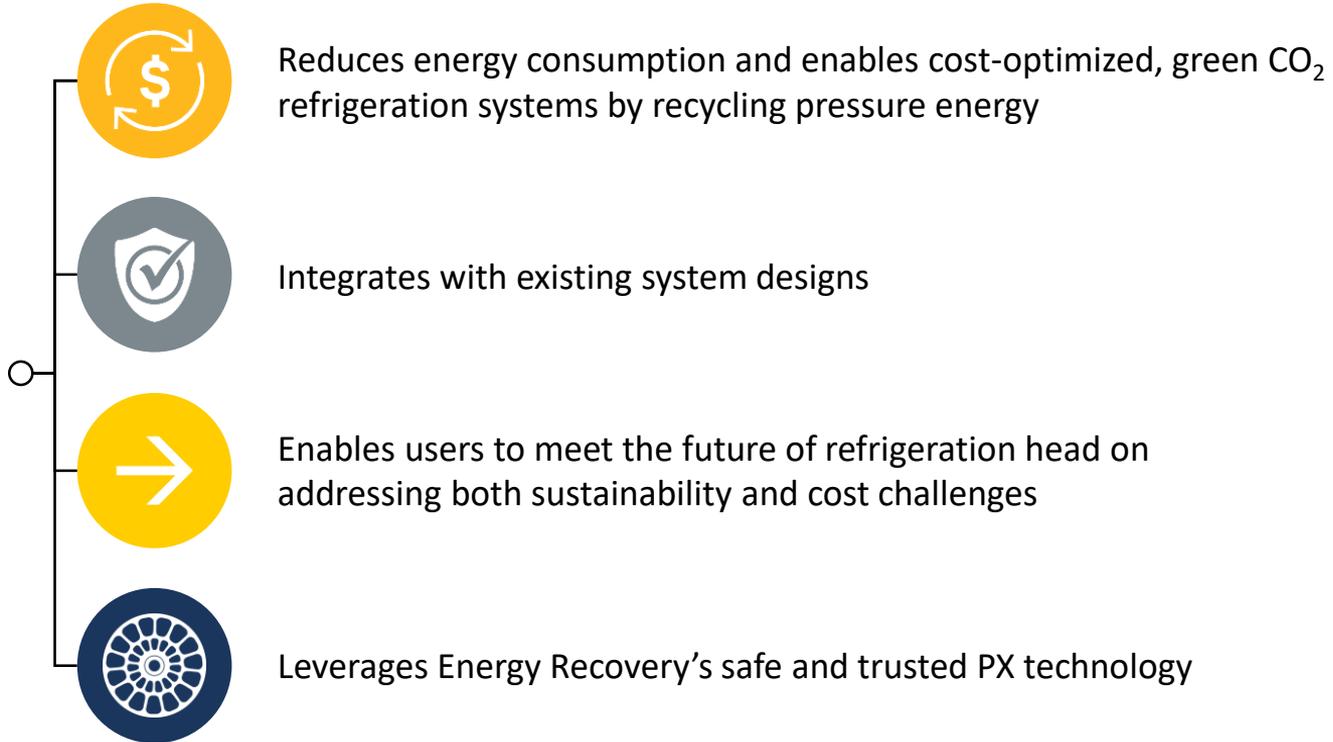
PX G1300 Spec.	US Value	EU Value
Pressure Rating	2,030 PSI	140 Bar
Applicable System Size Range	205-409 MBH	60-150 kW
Dimensions (H X W X L)	42" x 22" x 12"	1067mm x 559mm x 305mm
Weight	278 lb.	126 kg

PX G1300™ PERFORMANCE RESULTS



* PX numbers assume 50% booster efficiency

HELPING SUPERMARKETS REDUCE ENERGY CONSUMPTION AND OPERATING COSTS





Indio, CA & What's Next



PX G1300™ IS GENERATING EXCITEMENT ACROSS THE INDUSTRY

- Existing System Installation
 - Vallarta Supermarkets, Indio, California, USA
 - Planned installation 2022
- New System Installation:
 - Agreement with global OEM
 - PX installed with new rack in Europe
 - Planned installation 2022
- Contact us for future installations and more information!

Device

November 9, 2021 COMMERCIAL REFRIGERATION NORTH AMERICA



The Coachella Valley, California, where the Vallarta Supermarket store using the PX G1300 is located.

[Vallarta Supermarkets](#), a California (U.S.) chain with more than 50 locations, will be the first food retailer to install a PX G1300 pressure-exchanger device from [Energy Recovery](#) to improve the efficiency of a transcritical CO₂ (R744) refrigeration system.

Search the Site

SEARCH

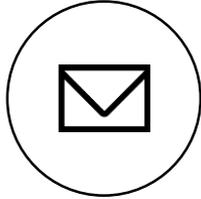
Vallarta plans to install the PX G1300 device at a store in Indio, in southern California, Energy Recovery said in a [statement](#).

Related Partner



Energy Recovery, a San Leandro, California (U.S.)-based manufacturer of pressure-exchanger devices for various industries, [announced in June](#) that was close to marketing a pressure exchanger designed to significantly improve the efficiency of transcritical CO₂ refrigeration systems, especially in high-ambient-temperature locations.

Related Products



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**Thank you
for listening.**

